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Summary of Research Experiments

2025-26

Project Coordinating Unit
ICAR-All India Coordinated Research Project on Pearl Millet
ICAR-IIMR-Regional Research Station on Pearl Millet, Gudamalani, Balotra-344 031

ICAR-All India Coordinated Research Project on Pearl Millet

Summary Tables of Experiments
2025-26

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I

LOCATION CODES OF AICRP ON PEARL MILLET TRIALS

KHARIF/ SUMMER 2025

	Zone A_1 and A		**Zone A_1 and A**
Abbreviation	**Locations**	**Abbreviation**	**Locations**
	RAJASTHAN		**JHARKHAND**
MDR	Mandor	RNC	Ranchi (BAU)
JDR	Jodhpur (ICAR-CAZRI)		**JAMMU & KASHMIR**
BKR	Bikaner (SKRAU)	JMU	Jammu (SKUAST)
SDR	Samdari (AUJ)		
AMR	Amer (Rallis)		**Zone B**
MSR	Molasar (Bayer)	**Abbreviation**	**Locations**
TBJ	Tabiji (SKNAU)		**MAHARASHTRA**
JPR	Jaipur (SKNAU)	ABD1	Aurangabad (NARP) (VNMKV)
JPR1	Jaipur (Seed Works)	ABD2	Aurangabad (Nath Biogene)
JPR2	Jaipur (Corteva)	ABD3	Aurangabad (Ajeet Seed)
ALW	Alwar (Corteva)	ABD4	Aurangabad (DevGen)
ALW1	Alwar (Seed Works)	ABD5	Aurangabad (Bayer)
ALW2	Alwar (BioSeed)	ABD6	Aurangabad (Crystal)
ALW 3	Alwar (JK)	ABD7	Aurangabad (Seed works)
ALW4	Alwar (Rallis)	ABD 8	Aurangabad (GK)
ALW5	Alwar (GK)	PTN	Paithan (Nath Biogene)
ALW6	Alwar (Kaveri)	DHL	Dhule (MPKV)
BHP	Bharatpur(Nuzividdu)	NPD	Niphad (MPKV)
BHR	Behror (Bayer)	JLN	Jalna (Mahodaya Seed)
BSR	Bansur (Spriha)	JLN1	Jalna (Mahyco)
JLR	Jalore (AUJ)	JLG	Jalgaon (JK Seeds)
JSR	Jaisalmer (ICAR-CAZRI)	GDG	Godegaon (Pioneer)
MKR	Malakhera (Hytech)	PCR	Pachora (Nirmal Seed)
JBR	Jobner (SKNAU)	GNG	Gangapur (Ganga Kaveri)
FTR	Fatehpur Shekhawati (SKNAU)	BUL	Buldana (PDKV)
NGR	Nagaur (AUJ)	GNW	Ganewadi (Krishidhan Seed)
DAS	Dausa (Rasi)	MPR	Malkapur (Ankur Seed)
TJR	Tijara (Rallis)		**KARNATAKA**
PTA	Pavta (Limagrain)	VYP	Vijayapur (UAS, Dharwad)
	GUJARAT	MYS	Mysore (UOM)
KTR	Kothara (SDAU)	MLR	Malnoor (UAS, Raichur)
SKN	S.K. Nagar (Dessa) (SDAU)	DHR	Dharwad (UAS, Dharwad)
AND	Anand (AAU)	DHR 1	Dharwad (KSSCL)
JMR	Jamnagar (JAU)		**ANDHRA PRADESH**
TLJ	Talaja (JAU)	APR	Ananthapuram (ANGRAU)
AHD	Ahmedabad (Biostadt)	PMP	Perumallapalle (ANGRAU)
NSD	Narsanda (Navbharat)	VZN	Vizianagaram (ANGRAU)
PNR1	Palanpur (Pioneer)		**TELANGANA**
PNR2	Palanpur (Ajeet)	MBD	Manoharabad (Zuari Seed)
DNR	Dhanera (JK Seeds)	MBD1	Manoharabad (Crystal)
DEG	Dehgam (Metahelix)	PLM	Palem (PJTSAU)
DEG1	Dehgam (Kaveri)	HBD1	Hyderabad (BISCO)
DSA1	Deesa (Bioseed)	HBD2	Hyderabad (Nuziveedu)
DSA2	Deesa (Ajeet)	HBD3	Hyderabad (Kaveri Seed)
DSA3	Deesa (JK)	HBD4	Hydarabad (Nu Gene)
DER	Deodar (Bayer)	PTR	Patancheru
TKR	Thakarwara (Hytech)	MDC 1	Medchal (Ganga Kaveri)
KHD	Kheda (Shakti Vardhak)	MDC 2	Medchal (Godrej)
VSN	Visnagar (Apex Seed)	RLK1	Ravalkol (Spriha)
	UTTAR PRADESH	RLK2	Ravalkol (Hytech)
KLI	Kalai	WRL	Wargal (Kaveri)
ELS	Eglas (Bioseeds)	TPN	Toopran, Madak (Nu Genes)
AGR	Agra (Krishna)		**TAMIL NADU**
AGR1	Agra (Kartik Seed)	CBE	Coimbatore (TNAU)
AGR2	Agra (Mahindra Seed)		**ODISHA**
HTR	Hathras (Ganga Kaveri)	SMG	Semiliguda (OUAT)
ALR	Aligarh (Hytech)		
JNS	Jhansi (RLBCAU)		
BCR	Bichpuri (Kaveri)		
MTR	Mathura (Kamadgiri)		
	HARYANA		
HSR	Hisar (CCSHAU)		
BWL	Bawal (CCSHAU)		
SPR	Shikohpur (ICAR-IARI-KVK)		
SHN	Sohana (Nuziveedu)		
ANR	Arya Nagar (Shakti Vardhak)		
GUG	Gurugram (Tierra)		
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GLR	Gwalior (RVSKVV)		
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	DELHI		
NDL	New Delhi (ICAR-IARI)		

CHAPTER I

PLANT BREEDING

BREEDING

Based on climatic conditions, production constraints and differential requirement of various crop growing regions, the pearl millet cultivation in the country is divided in three major zones – A_1, A and B and is used for effective evaluation of the pearl millet breeding materials. The details of pearl millet growing states included in these zones are given below:

Zone(s)	Area (m.ha)* (2020-21)	State(s)
Zone A_1: less than 400 mm rainfall	3.78	Western Rajasthan and drier parts of Gujarat and Haryana
Zone A: North - Western zone	2.85	Rajasthan, Gujarat, Haryana, plains of Uttar Pradesh, New Delhi, Madhya Pradesh (Bhind, Morena, Gwalior and adjoining areas) Punjab, Jharkhand and Jammu & Kashmir
Zone B: South - Central zone	1.02	Maharashtra, Andhra Pradesh, Telangana, Karnataka, Tamil Nadu and Odisha
Summer	0.41	Gujarat, Uttar Pradesh and Rajasthan

*(https://des.agri.gov.in)

The coordinated hybrid/ varietal trials under ICAR-All India Coordinated Research Project on Pearl Millet (ICAR-AICRP on Pearl Millet) were conducted during summer and kharif 2024 as per details given below:

Coordinated trials	Mode of operation
Initial Hybrid Trial (Early) - IHT (E)	Zone A_1 with early hybrids
Initial Hybrid Trial (Medium) - IHT (M)	Zone A and B with common hybrids
Initial Hybrid Trial (Late) - IHT (L)	Zone A and B with common hybrids
Advanced Hybrid Trial (Medium) - AHT (M)	Zone B with different advanced hybrids
Advanced Hybrid Trial (Late) - AHT (L)	Zone A and B with different advanced hybrids
Population Trial - PT	Zone A and B with common initial and different advanced populations
Advanced Hybrid and Population Trial (Early) - AHPT (E)	Zone A_1 with early hybrids and populations
Released Hybrids and Varieties Trial - RHVT	Zone A and B with released entries of respective zone
Summer Hybrid Trial - SHT	Summer areas of zone A and B with common initial and advanced hybrids

The bases of non-inclusion of test location to work out zonal means are:
1) Coefficient of variation (C.V.) - More than 30%
2) The average grain yield of test location is less than the state average yield except in Zone A_1 trials.

The average grain yield based on the ten years data (2012-13 to 2021-22) in different states is as follows:

	States	**Average grain yield**
i)	Rajasthan	970 kg/ha
ii)	Karnataka	1095 kg/ha
iii)	Maharashtra	786 kg/ha
iv)	Andhra Pradesh	1772 kg/ha
v)	Telangana	936 kg/ha
vi)	Gujarat (Kharif)	1386 kg/ha
vii)	Gujarat (Summer)	2664 kg/ha
viii)	Madhya Pradesh	2166 kg/ha
ix)	Haryana	1992 kg/ha
x)	Tamil Nadu	2388 kg/ha
xi)	Uttar Pradesh	2008 kg/ha
xii)	Delhi	2236 kg/ha
xiii)	Punjab	824 kg/ha
xiv)	Jammu & Kashmir	595 kg/ha
xv)	Odisha	616 kg/ha
xvi)	Jharkhand	581 kg/ha

Coordinated Trials and Test centres

Coordinated Trials and Test centres

The ICAR-AICRP on Pearl Millet hybrids/populations yield evaluation trials were organized during kharif /summer 2025 at 11 test locations in Zone A_1, 32 in Zone A and 19 in Zone B. Status of test centres where trials were conducted successfully and trials conducted but failed are given in Table I.1. Key to experimental hybrids and varieties included in various trials are given in Tables I.2 to I.5. The data on grain yield, quality and ancillary characters are given in Tables I.6 to I.213. The weather data of the test locations are given in Appendix I. State-wise positions for successful conduct of trials are given below:

Zone	State	Trials x Location Combinations		
		Allotted	**Successfully conducted**	**Percent success**
Zone A_1	Rajasthan	25	21	84
	Gujarat	3	3	100
	Haryana	3	3	100
	Total	**31**	**27**	**87**
Zone A	Rajasthan	19	15	79
	Gujarat	18	17	94
	Uttar Pradesh	10	8	80
	Haryana	7	7	100
	Madhya Pradesh	7	7	100
	Punjab	5	5	100
	New Delhi	2	2	100
	Jharkhand	1	0	0
	Total	**69**	**61**	**88**
Zone B	Maharashtra	30	26	87
	Karnataka	11	6	55
	Andhra Pradesh	12	12	100
	Telangana	6	2	33
	Tamil Nadu	7	7	100
	Odisha	3	3	100
	Total	**69**	**56**	**81**
	G. Total	**169**	**144**	**85**

Table I.1 Details of Centres and Trials Conducted During Kharif 2025/Summer 2025 in Zone A_1 and A

LOCATIONS	IHT (E)	IHT (M)	IHT (L)	AHPT (E)	AHT (L)	PT	RHVT	SHT
ZONE A1								
RAJASTHAN								
Mandor (ICAR-AICRP)	*	*		*				*
Mandor (ARS AU Jodhpur)						*	*	
Jodhpur (ICAR-CAZRI)	*			*				
Bikaner (SKRAU)	*	*		*		*	*	
Fathehpur Shekhawati (SKNAU)	*			*				
Samdari (AU Jodhpur)	*			*				
ARS, Jalore (AU Jodhpur)	*			*				
Nagaur (AU Jodhpur)	*			*				
Gudamalani (ICAR-IIMR)	*F			*F			*F	*F
GUJARAT								
Kothara (SDAU)	*	*		*				
HARYANA								
Bawal (CCSHAU)	*	*		*				
Total Trials Zone A1	**10**	**4**	**0**	**10**	**0**	**2**	**3**	**2**
ZONE A								
RAJASTHAN								
Jaipur (SKNAU)		*	*		*	*	*	
Jaipur (Seed works)			*		*			
Jaipur (Corteva)		*						
Tabiji (SKNAU)		*F						
Paota (Limagrain)			*F					
Amer (Rallis)			*					
Alwar (Corteva)			*		*			
Alwar (Kaveri Seed)		*						
Dausa (Rasi Seeds)		*	*					
Bharatpur (Nuziveedu)			*					
Shree Ganganagar (SKRAU)							*F	
Hanumangarh (SKRAU)							*F	
GUJARAT								
Talaja (JAU)		*						
Anand (AAU)		*						*
Jamnagar (JAU)		*	*		*	*	*	*
Deesa (SDAU)	*	*		*				*
Ahmedabad (Nandi)			*F					
Dehgam (Rallis)								*
Dehgam (Kaveri Seeds)			*		*			
Palanpur (Corteva)								*
UTTAR PRADESH								
Aligarh (Hytech)			*		*			
Hathras (Ganga Kaveri)			*					
Agra (Kartik Bio Seeds)		*F	*F					*
Agra (Mahindra)					*			
Bichpuri (Kaveri Seeds)					*			
Mathura (Kamadgiri)		*	*					
HARYANA								
Hisar (CCS, HAU)	*	*	*	*	*	*	*	
MADHYA PRADESH								
Gwalior (RVSKVV)		*	*		*	*	*	
Morena (RVSKVV)						*	*	
PUNJAB								
Ludhiana (PAU)		*	*		*	*		*
DELHI								
New Delhi (ICAR-IARI)		*				*		
JHARKHAND								
Ranchi (BAU)							*F	
Total Trials Zone A	**2**	**15**	**17**	**2**	**11**	**7**	**8**	**7**

Table I.1 Details of Centres and Trials Conducted During Kharif 2025/Summer 2025 in Zone B

LOCATIONS	IHT (M)	IHT (L)	AHT (M)	AHT (L)	PT	RHVT	SHT
MAHARASHTRA							
Auarangabad (NARP)	*	*	*	*	*	*	*
Auarangabad (Ajeet Seed)		*		*			
Auarangabad (Seed works)		*		*			*
Paithan (Nath BioGenes)	*	*F					
Niphad (MPKV)			*F	*F	*F		
Dhule (MPKV)	*	*	*	*	*	*	*
Jalna (Mahyco)		*					*
Pachora (Nirmal Seed)	*	*	*				
Gangapur (Ganga Kaveri)		*					
KARNATAKA							
Vijayapur (UAS Dharwad)	*	*	*	*	*	*	
Malnoor (UAS Raichur)	*F		*F		*F	*F	
Dharwad (KSSC Ltd)	*F						
ANDHRA PRADESH							
Ananthapuram (ANGRAU)	*	*	*	*	*	*	
Perumallapalle (ANGRAU)	*				*		*
Vizianagaram (ANGRAU)			*		*	*	
TELANGANA							
Palem (PJTSAU)	*F		*F		*	*F	*
Toopran, Medak (NU Genes)		*F					
TAMIL NADU							
Coimbator (TNAU)	*	*	*	*	*	*	*
ODISHA							
Semiliguda (OUAT)	*				*	*	
Total Trials Zone B	**12**	**12**	**10**	**8**	**11**	**9**	**7**

*=Conducted successful, *F=Conducted but failed

Table I.2: Key to Pearl Millet Hybrids (Kharif 2025)

Test Code	Project No.	Identity	Pedigree	Origin
Entries completed one year of testing				
IHT 101	MH 2887	Pusa Hybrid Bajra 2501	411A x PPMI 1327	ICAR-IARI, New Delhi
IHT 102	MH 2888	DHBH-24305	DHLB-14A x DHLBI-1035	ICAR-ICAR-AICRP-PM, Dhule
IHT 104	MH 2889	DHBH-24308	DHLB-36A x DHLBI-1035	ICAR-ICAR-AICRP-PM, Dhule
IHT 105	MH 2890	RHB 284	ICMA 02333 x RIB494	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 106	MH 2891	RHB 285	ICMA 04888 x RIB20K86	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 107	MH 2892	RHB 287	ICMA 99444 x RIB494	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 108	MH 2893	RHB 288	ICMA 93333 x RIB 3135-18	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 109	MH 2894	RHB 290	ICMA 98222 x RIB 15177	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 111	MH 2895	RHB 292	ICMA 04999 x RIB15S076	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 112	MH 2896	BHB 2501	ICMA 88004 x BIB-62	ICAR-AICRP-PM, SKRAU, Bikaner
IHT 113	MH 2897	BHB 2502	ICMA 98222 x BIB 23-1	ICAR-AICRP-PM, SKRAU, Bikaner
IHT 114	MH 2898	MPMH 52	ICMA 95222 x MIR 519-1	ICAR-AICRP-PM,PC Unit, Jodhpur
IHT 115	MH 2899	MPMH 53	ICMA 04999 x MIR 519-1	ICAR-AICRP-PM,PC Unit, Jodhpur
IHT 117	MH 2900	PA 9070	PSP 140 x PP 125	Crystal Crop Prtection Ltd.
IHT 118	MH 2901	CZH 278	ICMA 04999 x CZI2022/7	ICAR-CAZRI, Jodhpur
IHT 119	MH 2902	CZH279	ICMA 843-22 x CZI2023/4	ICAR-CAZRI, Jodhpur
IHT 121	MH 2903	CZH 280	ICMA 083333 x CZI2023/4	ICAR-CAZRI, Jodhpur
IHT 123	MH 2904	RVBH-2253	ICMA 97111 x 24110	ICAR-AICRP-PM, RVSKVV, Gwalior
IHT 201	MH 2905	IIMRPH 2501	264A x BL58	ICAR-IIMR, Hyderabad
IHT 202	MH 2906	IIMRPH 2502	264A x BL55	ICAR-IIMR, Hyderabad
IHT 203	MH 2907	MP 7122	MP13P025A x PM22S0100R	Rallis India Ltd., Hyderabad
IHT 204	MH 2908	TNBH 2329	ICMA 06111 x PT 6476	ICAR-AICRP-PM, TNAU, Coimbatore
IHT 205	MH 2909	NPH-6870	NPA-380 x NPR-1448	Nirmal Seeds Pvt. Ltd., Pachora
IHT 206	MH 2910	DHBH-24306	ICMA 98222 x DHLBI-1035	ICAR-ICAR-AICRP-PM, Dhule
IHT 207	MH 2911	DHBH-24307	DHLB-42A x DHLBI-1035	ICAR-ICAR-AICRP-PM, Dhule
IHT 209	MH 2912	DHBH-24313	DHLB-42A x DHLBI-1825	ICAR-ICAR-AICRP-PM, Dhule
IHT 210	MH 2913	DHBH-24314	ICMA 98222 x DHLBI-967	ICAR-ICAR-AICRP-PM, Dhule
IHT 211	MH 2914	BRPMH-2	ICMA 98222 x BR-2301	BAU, Sabour
IHT 213	MH 2915	BRPMH-8	ICMA 94333 x BR-2302	BAU, Sabour
IHT 214	MH 2916	9055F423-01	9PHGF39A x 9PETZ30R	Corteva Agriscience, Hyderabad
IHT 215	MH 2917	9055F429-01	9PQGP98A x 9PBZZ30R	Corteva Agriscience, Hyderabad
IHT 216	MH 2918	NBBH 2215	NB 21001A1 x NBBR-294	Nath Bio Gene (S) Int. Ltd., hyderabad
IHT 217	MH 2919	NBBH 2321	NB 2201A x NB-19098R-4-2	Nath Bio Gene (S) Int. Ltd., hyderabad
IHT 219	MH 2920	RHB 286	ICMA 04888 x RIB 192	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 220	MH 2921	RHB 289	ICMA 93333 x RIB 15177	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 221	MH 2922	RHB 291	ICMA 89111 x RIB 15176	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 222	MH 2923	RHB 294	ICMA 97111 x RIB 15190	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 223	MH 2924	VPMH-28	ICMA 98222 x PRLN-221	ICAR-AICRP-PM, Vijyapur
IHT 224	MH 2925	VPMH-29	ICMA 94555 x PRLN-221	ICAR-AICRP-PM, Vijyapur

Contd.

Test Code	Project No.	Identity	Pedigree	Origin
IHT 225	MH 2926	Pusa Hybrid Bajra 2502	PPMA 142 x PPMI 1336	ICAR-IARI, New Delhi
IHT 226	MH 2927	Pusa Hybrid Bajra 2503	PPMA 142 x PPMI 1320	ICAR-IARI, New Delhi
IHT 227	MH 2928	Pusa Hybrid Bajra 2504	PPMA 086 x PPMI 1320-1	ICAR-IARI, New Delhi
IHT 229	MH 2929	GHB 1405	ICMA1 15666 x J-2654	ICAR-AICRP-PM, JAU, Jamnagar
IHT 230	MH 2930	MPMH 51	ICMA 1502 x MIR 519-1	ICAR-AICRP-PM,PC Unit, Jodhpur
IHT 231	MH 2931	AHB-1885	ICMA 98222 x AUBI-2008	ICAR-AICRP-PM, NARP, Aurangabad
IHT 232	MH 2932	AHB-1912	ICMA 95111 x AUBI-2009	ICAR-AICRP-PM, NARP, Aurangabad
IHT 233	MH 2933	APHB 245	ICMA 96444 x APG 3075	ICAR-AICRP-PM, Anantpuamu
IHT 301	MH 2934	IIMRPH2503	221A x BL58	ICAR-IIMR, Hyderabad
IHT 302	MH 2935	MP 7293	PM24S1114A x PM21S0092R	Rallis India Ltd., Hyderabad
IHT 303	MH 2936	PHB 3827	ICMA 98222 x PIB 616	ICAR-AICRP-PM, PAU, Ludhiana
IHT 304	MH 2937	PHB 3938	ICMA 02777 x PIB 616	ICAR-AICRP-PM, PAU, Ludhiana
IHT 305	MH 2938	GHB 1428	JMSA1 202210 x J-2656	ICAR-AICRP-PM, JAU, Jamnagar
IHT 307	MH 2939	GHB 1429	JMSA1 20206 x J-2657	ICAR-AICRP-PM, JAU, Jamnagar
IHT 308	MH 2940	Pusa Hybrid Bajra 2505	PPMA 1302 x PPMI 1320	ICAR-IARI, New Delhi
IHT 309	MH 2941	Pusa Hybrid Bajra 2506	PPMA 112 x PPMI 1280	ICAR-IARI, New Delhi
IHT 310	MH 2942	HHB 351	ICMA 1508 x H 23/281	ICAR-AICRP-PM, CCSHAU, Hisar
IHT 311	MH 2943	VPMH-30	ICMA 98222 x Fe&Zn-3	ICAR-AICRP-PM, Vijyapur
IHT 313	MH 2944	DHBH-24304	DHLB-32A x DHLBI-967	ICAR-ICAR-AICRP-PM, Dhule
IHT 314	MH 2945	DHBH-24312	DHLB-37A x DHLBI-1035	ICAR-ICAR-AICRP-PM, Dhule
IHT 315	MH 2946	DHBH-24315	DHLB-8A x DHLBI-1825	ICAR-ICAR-AICRP-PM, Dhule
IHT 316	MH 2947	NBH 6039	NB1121A x NB2167R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
IHT 317	MH 2948	NBH 6046	NB107A x NB2310R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
IHT 319	MH 2949	RHB 293	ICMA 99444 x RIB 15177	ICAR-AICRP-PM, SKNAU, Jaipur
IHT 320	MH 2950	HT 425710	PM0140A x PM0388R	Hytech Seed India Pvt. Ltd.
IHT 321	MH 2951	APH-45	APA-2323 x APR-1112	Ajeet Seeds Pvt. Ltd., Hyderabad
IHT 322	MH 2952	KGBH-2511	KGBA 0010 x KGBR 0004	Kamadgiri Crop Sci. Pvt. Ltd.
IHT 323	MH 2953	9058H489-01	9PQVL91A x 9PBZZ30R	Corteva Agriscience, Hyderabad
IHT 325	MH 2954	9056F432-01	9PKUP14A x 9PBHP37R	Corteva Agriscience, Hyderabad
IHT 326	MH 2955	PB 1899	PSP 147 x PP 74	Crystal Crop Protection Ltd.
IHT 327	MH 2956	PA 9021	PSP 138 x PP 123	Crystal Crop Protection Ltd.
		CHECKS		
		PB 1756 (2018)	PSP91 x PP107	Crystal Crop Protection Ltd., Hyderabad
		RHB 223 (2018)	ICMA 96666 x RIB 3135-18	ICAR-AICRP-PM, SKNAU, Jaipur
		HHB 67 (Imp.) (2005)	ICMA 843-22 x H 77/833-2-202	ICAR-AICRP-PM, CCSHAU, Hisar
		MPMH 35 (2022)	ICMA1 94555 x MIR 1252	ICAR-AICRP-PM,PC Unit, Jodhpur
		86M94 (2022)	9PHGF39A x M444R	Pioneer Overseas Corp., Hyderabad
		PB1852 (2019)	PSP 95 x PP 110	Crystal Crop Protection Ltd., Hyderabad
		DHBH 1397 (2019)	DHLB 16A x DHLBI 1035	ICAR-ICAR-AICRP-PM, Dhule
		AHB 1269 (2019)	ICMA 98222A1 x AUBI 1105	ICAR-AICRP-PM, NARP, Aurangabad
		86M01 (2015)	M096F x M149R	Pioneer Overseas Corp., Hyderabad
		Pratap (2012)	NB 101A x NB 152R	Nuziveedu Seeds Pvt. Ltd., Hyderabad

Contd.

Test Code	Project No.	Identity	Pedigree	Origin
		MP 7878 (2018)	MP14P030A x MP15P038R	Metahelix Life Science Ltd., Bangalore
		86M84 (2016)	M162F x M172R	Pioneer Overseas Corp., Hyderabad
		KBH 108 (2014)	KMPS-74A x KPR-9288R	Krishna Seeds Pvt. Ltd., Agra
		NBH 4903 (2018)	NB 105A x NB 98R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
		Kaveri S. Boss (2012)	KBMS 329 x KBR 621	Kaveri Seed Co. Ltd., Hyderabad
		86M86 (2012)	M128F x M138R	Pioneer Overseas Corp., Hyderabad
		AHB 1200 (2018)	ICMA 98222 A1 x AUBI 1101	ICAR-AICRP-PM, NARP, Aurangabad
Entries completed two years of testing				
AHT 510 A	MH 2878	NBH 6048	NB107A x NB227R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
AHT 409 B	MH 2842	9057D741-01	9PKUP14A x M477R	Corteva Agriscience, Hyderabad
AHT 410 B	MH 2846	PBH-2403	ICMA 1508 x PBR 542	PJTSAU, Palem
AHT 411 B	MH 2852	RHB 282	ICMA 1508 x RIB 15188	ICAR-AICRP-PM, SKNAU, Jaipur
AHT 413 B	MH 2859	AHB-1980	ICMA 1508 x AUBI 2007	ICAR-AICRP-PM, NARP, Aurangabad
AHT 414 B	MH 2863	KGBH-2853	KGA-2001 x KR-7722	Kamadgiri Crop Sci. Pvt. Ltd.
AHT 505 B	MH 2875	9056D750-01	9PQGP98A x M164R	Corteva Agriscience, Hyderabad
Entries completed three years of testing				
AHPT 802	MH 2743	MPMH 45	ICMA 97111 x MIR 2001	ICAR-AICRP-PM,PC Unit, Jodhpur
AHPT 804	MH 2744	MPMH 46	ICMA 92777 x MIR 525	ICAR-AICRP-PM,PC Unit, Jodhpur
AHPT 806	MH 2747	CZH 270	ICMA 08333 x CZI 2020/2	ICAR-CAZRI, Jodhpur
AHPT 808	MH 2758	HHB 347	ICMA 93333 x HR-22-23	ICAR-AICRP-PM, CCSHAU, Hisar
AHT 502 A	MH 2796	HT 423158	PM0140A x PM0410R	Hytech Seed India Pvt. Ltd.
AHT 503 A	MH 2797	APH-44	APA-2283 x APR-1038	Ajeet Seeds Pvt. Ltd., Hyderabad
AHT 504 A	MH 2798	US7722	SWM05A x SWM11R	Seed Works Int. Pvt. Ltd., Hyderabad
AHT 506 A	MH 2806	KPH6288	KP19SA001 x KP20SR025	Kaveri Seeds Co. Ltd., Secunderabad
AHT 507 A	MH 2808 (3rd)	PB1987®	PSP137 x PP123	Crystal Crop Protection Ltd., Aurangabad
AHT 401 B	MH 2767	Shalimar (9818)	SGB 902 A x SGB 981 R	Sona Genetic Pvt. Ltd.,
AHT 402 B	*MH 2705	IIMRPH2	242A x 88R	ICAR-IIMR, Hyderabad
AHT 403 B	MH 2773	PB1988	PSP137 x PP110	Crystal Crop protection Pvt. Ltd.,
AHT 404 B	MH 2775	NPH-6358	NPA-378 x NPR-1740	Nirmal Seeds Pvt. Ltd., Pachora
AHT 406 B	MH 2777	DHBH-21002 (R)	DHLB-32A x DHLBI-1035	ICAR-ICAR-AICRP-PM, Dhule
AHT 407 B	MH 2784	PB1937	PSP99 x PP110	Crystal Crop protection Pvt. Ltd.,
AHT 502 B	MH 2798	US7722	SWM05A x SWM11R	Seed Works Int. Pvt. Ltd., Hyderabad
		CHECKS		
		PB 1756 (2018)	PSP91 x PP107	Crystal Crop Protection Ltd., Hyderabad
		RHB 223 (2018)	ICMA 96666 x RIB 3135-18	ICAR-AICRP-PM, SKNAU, Jaipur
		HHB 67 (Imp.) (2005)	ICMA 843-22 x H 77/833-2-202	ICAR-AICRP-PM, CCSHAU, Hisar
		MPMH 35 (2022)	ICMA1 94555 x MIR 1252	ICAR-AICRP-PM,PC Unit, Jodhpur
		86M86 (2012)	M128F x M138R	Pioneer Overseas Corp., Hyderabad
		86M84 (2016)	M162F x M172R	Pioneer Overseas Corp., Hyderabad
		KBH 108 (2014)	KMPS-74A x KPR-9288R	Krishna Seeds Pvt. Ltd., Agra
		MP 7878 (2018)	MP14P030A x MP15P038R	Metahelix Life Science Ltd., Bangalore
		AHB 1269 (2019)	ICMA 98222A1 x AUBI 1105	ICAR-AICRP-PM, NARP, Aurangabad

Contd.

Test Code	Project No.	Identity	Pedigree	Origin
		86M01 (2015)	M096F x M149R	Pioneer Overseas Corp., Hyderabad
		Pratap (2012)	NB 101A x NB 152R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
		Kaveri S. Boss (2012)	KBMS 329 x KBR 621	Kaveri Seed Co. Ltd., Hyderabad
		NBH 4903 (2018)	NB 105A x NB 98R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
		AHB 1200 (2018)	ICMA 98222 A1 x AUBI 1101	ICAR-AICRP-PM, NARP, Aurangabad

Contd.

Table I.3: Key to Pearl Millet Hybrids (Summer 2025)

Test Code	Project No.	Identity	Pedigree	Origin
Entries completed one year of testing				
SHT 103	MSH 429	TNBH 2118	ICMA 04111 x PT 6671	ICAR-AICRP-PM, TNAU, Coimbatore
SHT 105	MSH 430	DHBH 21156	DHLB 23A x DHLBI 1603	ICAR-AICRP-PM, MPKV, Dhule
SHT 107	MSH 431	DHBH 22115	ICMA 98222 x DHLBI 1825	ICAR-AICRP-PM, MPKV, Dhule
SHT 108	MSH 432	MP7316	MP16P053A x PM24S0108R	Metahelix Life Science Ltd.
SHT 110	MSH 433	GHB 1400	JMSA1 20209 x J-2653	ICAR-AICRP-PM, JAU, Jamnagar
SHT 112	MSH 434	GHB 1405	ICMA1 15666 x J-2654	ICAR-AICRP-PM, JAU, Jamnagar
SHT 113	MSH 435	GHB 1413	ICMA1 15666 x J-2655	ICAR-AICRP-PM, JAU, Jamnagar
Entries completed two years of testing				
SHT 114	MSH 416	9055D732-01	9PFBA07A x 9PHQE75R	Corteva Agriscience, Hyderabad
Entries completed three years of testing				
SHT 101	MSH 406	US7307	SWM03A x SWM10R	Seed Works Intern. Pvt. Ltd.
		CHECKS		
		86M22 (2024)	M461F x M458R	Pioneer Overseas Corp., Hyderabad
		Proagro 9444 (2004)	PSP 41 x PP 29	Bayer Biosciences Pvt. Ltd., Hyderabad
		86M64 (2011)	M096F x M117R	Pioneer Overseas Corp., Hyderabad
		Nandi 75 (2013)	NMS 24 A x NMP 95	New Nandi Seeds Corp., Ahmedabad
		MP 7366 (2021)	MP14P028A x MP15P035R	Metahelix Life Science Ltd., Hyderabad

Table I.4: Key to Pearl Millet Varieties (Kharif 2025)

Test Code	Project No.	Identity	Origin
Entries completed one year of testing			
PT 601 A	MP 652	ABV-11	ICAR-AICRP-PM, ANGRAU, Anantapuram
PT 602 A	MP 653	VPMV-23	ICAR-AICRP-PM, Vijyapur
PT 604 A	MP 654	VPMV-24	ICAR-AICRP-PM, Vijyapur
PT 605 A	MP 655	IIMRPV 2501	ICAR-IIMR, Hyderabad
PT 607 A	MP 656	IIMRPV 2502	ICAR-IIMR, Hyderabad
PT 608 A	MP 657	Pusa Comp 740	ICAR-IARI, New Delhi
PT 610 A	MP 658	Pusa Comp 741	ICAR-IARI, New Delhi
PT 612 A	MP 659	Pusa Comp 742	ICAR-IARI, New Delhi
PT 614 A	MP 660	GBL 12	ICAR-AICRP-PM, PAU, Ludhiana
PT 616 A	MP 661	GBL 14	ICAR-AICRP-PM, PAU, Ludhiana
PT 602 B	MP 652	ABV-11	ICAR-AICRP-PM, ANGRAU, Anantapuram
PT 603 B	MP 653	VPMV-23	ICAR-AICRP-PM, Vijyapur
PT 604 B	MP 654	VPMV-24	ICAR-AICRP-PM, Vijyapur
PT 606 B	MP 655	IIMRPV 2501	ICAR-IIMR, Hyderabad
PT 607 B	MP 656	IIMRPV 2502	ICAR-IIMR, Hyderabad
PT 609 B	MP 657	Pusa Comp 740	ICAR-IARI, New Delhi
PT 614 B	MP 658	Pusa Comp 741	ICAR-IARI, New Delhi
PT 615 B	MP 659	Pusa Comp 742	ICAR-IARI, New Delhi
PT 617 B	MP 660	GBL 12	ICAR-AICRP-PM, PAU, Ludhiana
PT 619 B	MP 661	GBL 14	ICAR-AICRP-PM, PAU, Ludhiana
Entries completed two years of testing			
PT 601 B	MP 640	GBL 10	ICAR-AICRP-PM, PAU, Ludhiana
PT 612 B	MP 647	VPMV-21	ICAR-AICRP-PM, Vijyapur
PT 613 B	MP 648	VPMV-22	ICAR-AICRP-PM, Vijyapur
		CHECKS	
		ICMV 221 (1993)	ICRISAT, Patancheru
		Pusa Comp. 701 (2016)	ICAR-IARI, New Delhi
		Dhanshakti (2014)	ICRISAT, Patancheru
		Pusa Comp. 383 (2001)	ICAR-IARI, New Delhi
		JBV 2 (1999)	ICAR-AICRP-PM, RVSKV, Gwalior
		Raj 171 (1992)	ICAR-AICRP-PM, SKNAU, Jaipur
		ABV 04 (2019)	ICAR-AICRP-PM, ANGRAU, Ananthapuram
		Pusa Comp. 612 (2011)	ICAR-IARI, New Delhi
		ICMV 155 (1991)	ICRISAT, Patancheru

Table I.5: Key to Pearl Millet Released Hybrids and Varieties (Kharif 2025)

S. No.	Name of entry.	Year of release	Pedigree	Origin
	Hybrids			
1	GHB 1305	-	ICMA 15777 x J-2571	ICAR-AICRP-PM JAU, Jamnagar
2	GHB 1294	2024	ICMA 93333 x J-2632	ICAR-AICRP-PM JAU, Jamnagar
3	MPMH 42	2024	ICMA 92777 x MIR 519-1	ICAR-AICRP-PM, Jodhpur
4	MPMH 35	2022	ICMA 94555 x MIR 1252	ICAR-AICRP-PM, Jodhpur
5	RHB 223	2018	ICMA 96666 x RIB 3135-18	ICAR-AICRP-PM, SKNAU, Jaipur
6	PB 1756	2018	PSP91 x PP107	Bayer Bio Science Hyderabad
7	HHB 234	2013	HMS 7A x H77/833-2-202	ICAR-AICRP-PM, CCS HAU, Hisar
8	GHB 538	2024	ICMA 95444 x J-2340Imp	ICAR-AICRP-PM JAU, Jamnagar
9	HHB 67 Improved	2005	ICMA 843-22 x H 77/833-2-202	ICAR-AICRP-PM, CCS HAU, Hisar
10	HHB 67 Imp 2	2021	ICMA 843-22 x H77/833-2-202-6	ICAR-AICRP-PM, CCS HAU, Hisar
11	86M94	2022	9PHGF39A x M444R	Pioneer Overseas Corp., Hyderabad
12	DHBH 1397	2019	DHLB 16A x DHLBI 1035	ICAR-ICAR-AICRP-PM, Dhule
13	PB 1852	2019	PSP 95 x PP 110	Bayer Bio Science, Hyderabad
14	86M01	2015	M096F x M149R	Pioneer Overseas Corp., Hyderabad
15	GHB 905	2013	ICMA 04999 x J- 2454	ICAR-AICRP-PM JAU, Jamnagar
16	PB 1705	2018	PSP 83 x PP78	Bayer Bio Science Hyderabad
17	86M80	2022	M461F x M513R	Pioneer Overseas Corp., Hyderabad
18	MP 7878	2018	MP14P030A x MP15P038R	Metahelix Life Science Ltd.
19	86M84	2016	M162F x M172R	Pioneer Overseas Corp., Hyderabad
20	KBH 108	2014	KMPS-74A x KPR-9288R	Krishna Seeds Pvt. Ltd., Agra
21	Kaveri Super Boss	2012	KBMS 329 x KBR 621	Kaveri Seed Co. Ltd., Hyderabad
22	86M86	2012	M128F x M138R	Pioneer Overseas Corp., Hyderabad
23	RHB 233	2019	ICMA 99444 x RIB 15176	ICAR-AICRP-PM, SKNAU, Jaipur
24	RHB 234	2019	ICMA 02333 x RIB 15177	ICAR-AICRP-PM, SKNAU, Jaipur
25	AHB 1269	2019	ICMA 98222A_1 x AUBI 1105	ICAR-AICRP-PM, NARP, Aurangabad
26	AHB 1200	2018	ICMA 98222 A1 x AUBI 1101	ICAR-AICRP-PM, NARP, Aurangabad
27	HHB 299	2018	ICMA 04888 x H 13/0001	ICAR-AICRP-PM, CCS HAU, Hisar
28	Pratap	2012	NB 101A x NB 152R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
29	NBH 4903	2018	NB 105A x NB 98R	Nuziveedu Seeds Pvt. Ltd., Hyderabad
	Varieties			
30	Dhanshakti	2014	-	ICAR-AICRP-PM, MPKV, Dhule
31	ICMV 221	1993	-	ICRISAT, Patancheru
32	Pusa Composite 701	2016	-	ICAR-IARI, New Delhi
33	Pusa Composite 383	2001	-	ICAR-IARI, New Delhi
34	JBV 2	1999	-	ICAR-AICRP-PM, RVSKVV, Gwalior
35	Raj 171	1992	-	ICAR-AICRP-PM, SKNAU, Jaipur
36	ABV 04	2019	-	ICAR-AICRP-PM, Ananthapuramu
37	ICMV 155	1991	-	ICRISAT, Patancheru
38	Pusa Comp. 612	2011	-	ICAR-IARI, New Delhi

Summary results of successfully conducted trials in Zones A_1, A and B

A. ICAR-AICRP on Pearl Millet Hybrid Trials

1. Initial Hybrid Trial (Early): IHT (E) ZONE A_1

Initial Hybrid Trial (Early) was conducted at 11 locations in Zone A_1 i.e. seven in Rajasthan, two each in Haryana and Gujarat in which 18 experimental hybrids along with five checks *viz*. RHB 223, PB 1756, MPMH 35, HHB 67 Imp and AHB 1200 (only for Fe and Zn comparison) were evaluated. Experimental hybrids showed differences in their performance within zone. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.6. Location-wise performance for grain yield and other ancillary characters are presented in Tables I.19 to I.32.

The mean grain yield of test hybrids ranged from 1070 kg/ha to 2168 kg/ha. Hybrid, MH 2895 (2168 kg/ha) recorded higher grain yield over the best check PB 1756 (2012 kg/ha). Dry fodder yield ranged from 3665 kg/ha to 5693 kg/ha.

Table I.6: MEAN PERFORMANCE: INITIAL HYBRID TRIAL (Early) KHARIF 2025 ZONE A_1

S.No.	Name of Entry	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2895	2168	4557	45	76	1.1	2.1	1.3	1.3	0.3	45	38
2	PB 1756 (C)	2012	5693	45	76	2.2	2.2	0.0	0.0	0.0	47	38
3	MH 2889	1883	5181	47	78	3.0	1.7	1.3	1.3	0.0	53	44
4	MH 2887	1882	5071	47	78	2.5	1.7	3.8	0.0	0.0	38	33
5	MH 2894	1829	4823	48	78	1.1	1.8	6.3	2.5	0.0		
6	MH 2893	1761	5048	44	74	0.6	1.8	5.0	7.5	0.0		
7	MPMH 35 (C)	1749	4479	45	75	6.3	2.1	1.3	5.0	0.0	47	42
8	MH 2888	1727	5186	47	76	3.5	1.9	2.5	1.3	0.0		
9	MH 2892	1679	4671	45	75	2.9	1.9	5.0	2.5	0.0		
10	MH 2897	1671	4222	46	75	1.0	2.5	12.5	7.5	1.8		
11	MH 2900	1664	4367	45	75	2.5	1.8	0.0	1.3	0.0		
12	MH 2902	1613	4452	45	75	8.8	3.1	2.5	2.4	0.0		
13	MH 2903	1604	4702	46	76	1.7	1.7	2.5	1.3	2.5		
14	MH 2896	1602	4368	45	75	1.2	2.0	5.0	7.5	0.0		
15	MH 2890	1537	3923	45	75	1.1	1.9	1.3	20.0	1.5		
16	MH 2891	1535	4267	46	75	7.7	3.4	2.5	3.8	0.0		
17	HHB 67 Imp. (C)	1433	3965	45	75	3.7	2.2	1.3	5.0	0.0	47	42
18	MH 2901	1429	3879	44	75	9.3	2.1	1.3	3.1	0.0		
19	AHB 1200 (C)	1419	3836	47	78	1.2	2.7	0.0	3.8	0.0	59	43
20	MH 2904	1388	4511	47	78	3.2	1.8	0.0	0.0	0.0		
21	MH 2899	1387	3930	48	79	6.3	2.2	7.5	1.3	0.0		
22	MH 2898	1361	3807	47	77	1.6	2.0	0.0	1.3	0.0		
23	RHB 223 (C)	1070	3665	46	76	0.0	1.1	0.0	0.0	0.0	52	45
	LOC. MEAN	1648	4497	46	76							

Promotion criteria as per 52nd Annual group meet : Grain yield =higher than best check or 10% higher over relevant check, Days to 50% flowering ≤ 45 days, A grace of one day in days to 50% flowering may be given to hybrids yielding grains 15% higher over HHB 67 Improved, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

2. Initial Hybrid Trial (Medium): IHT (M) ZONE A & B

Initial Hybrid Trial (Medium) was conducted at 17 locations in which 29 experimental hybrids were evaluated along with four checks *viz*., PB 1852, 86M94, DHBH 1397 and AHB 1200 (only for Fe and Zn comparison) in Zone A and at 9 locations with same test entries along with four checks *viz*. 86M01, Pratap, AHB 1269 and AHB 1200 (only for Fe and Zn comparison) in Zone B. Experimental hybrids showed differences in their performance between and within zones. The zone-wise results are given below:

Zone A

In Zone A, IHT (Medium) was conducted successfully at 17 locations i.e. six in Rajasthan, five in Gujarat, two in Haryana and one each in Madhya Pradesh, Uttar Pradesh, Punjab and Delhi. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.7. Location-wise performance for grain yield and other ancillary characters are presented in Tables I.33 to I.46. The mean grain yield of test hybrids ranged from 1935 kg/ha to 3735 kg/ha. Four hybrids, MH 2933 (3735 kg/ha), MH 2919 (3692 kg/ha), MH 2917 (3681 kg/ha) and MH 2916 (3475 kg/ha) recorded higher grain yield over the best check

86M94 (3468 kg/ha). These all four hybrids recorded more than 50 days to flowering. Dry fodder yield of test hybrids ranged from 6939 kg/ha to 11692 kg/ha.

Table I.7: MEAN PERFORMANCE: INITIAL HYBRID TRIAL (Medium) KHARIF 2025 ZONE A

S.No.	Name of Entry	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2933	3735	11692	53	85	1.1	1.5	0.0	0.3	0.0	45	34
2	MH 2919	3692	11661	54	85	0.4	2.0	1.3	0.0	0.8	45	35
3	MH 2917	3681	11400	52	83	0.8	1.6	0.0	0.6	0.0	44	35
4	MH 2916	3475	11191	52	84	0.9	1.4	0.0	0.1	0.0	44	38
5	86M94 (C)	3468	11116	51	83	0.3	1.7	0.0	1.1	0.0	45	39
6	MH 2907	3402	10285	49	81	0.6	2.7	0.0	0.4	0.0	44	34
7	PB 1852 (C)	3375	11518	51	83	1.4	1.6	5.0	2.0	0.0	51	35
8	MH 2912	3368	11080	51	83	0.6	1.3	1.3	2.4	0.0		
9	MH 2921	3143	10981	52	83	0.7	1.6	2.5	2.8	0.0		
10	MH 2906	3142	10209	50	83	1.6	1.8	0.0	0.3	0.0		
11	MH 2910	3093	9632	48	81	1.1	2.0	0.0	1.3	0.0		
12	MH 2918	3051	9588	51	84	0.9	1.4	0.0	0.6	0.0		
13	MH 2928	3045	10431	52	84	0.6	1.4	0.0	0.6	0.0		
14	MH 2909	2986	9539	53	84	5.3	1.7	1.3	4.5	0.6		
15	MH 2929	2937	10699	54	85	0.6	1.4	0.0	0.0	0.0		
16	MH 2911	2852	9515	51	83	1.3	1.3	2.5	0.4	0.0		
17	MH 2905	2839	10442	52	84	3.8	1.8	0.0	0.1	0.0		
18	DHBH 1397 (C)	2828	8616	49	81	1.9	2.2	0.0	3.3	0.0	57	40
19	MH 2914	2646	9101	50	83	0.9	3.1	1.9	1.1	1.8		
20	MH 2922	2597	8950	50	82	1.7	1.6	1.3	2.5	0.0		
21	MH 2915	2569	8527	46	79	1.3	2.4	5.0	8.0	0.0		
22	MH 2923	2527	8104	48	81	1.0	1.6	0.0	1.3	0.0		
23	MH 2926	2474	8635	50	83	3.4	1.6	1.3	6.2	0.0		
24	MH 2932	2430	9318	50	82	1.3	1.9	0.0	1.5	0.0		
25	MH 2931	2418	8854	49	81	4.0	1.6	1.9	1.1	0.0		
26	MH 2913	2356	7692	47	81	1.1	2.7	1.9	6.8	0.0		
27	MH 2920	2353	8271	47	79	14.2	1.6	1.3	2.0	0.3		
28	MH 2927	2341	8211	51	84	4.1	1.9	0.0	3.1	0.0		
29	AHB 1200 (C)	2309	7371	47	79	0.7	3.2	0.0	2.9	0.0	67	40
30	MH 2930	2277	7899	47	79	0.6	1.3	0.0	3.4	0.0		
31	MH 2924	2156	7125	47	80	3.6	3.0	1.3	5.0	0.0		
32	MH 2925	2118	6939	47	81	2.3	2.8	1.3	3.8	0.0		
33	MH 2908	1935	7106	51	83	0.7	2.1	0.0	0.0	0.0		
	LOC. MEAN	2837	9445	50	82							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 10% higher over relevant check, Days to 50% flowering ≤ 50 days, A grace of one day in days to 50% flowering may be given to hybrids yielding grains 15% higher over relevant checks, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

Zone B

In Zone B, IHT (Medium) was conducted successfully at 9 locations *viz*. four in Maharashtra, two in Andhra Pradesh and one each in Karnataka, Tamil Nadu and Odisha. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.8. Location-wise performance for grain yield and other ancillary characters are presented in Tables I.47 to I.60. Mean grain yield of test hybrids ranged from 1869 kg/ha to 3699 kg/ha. Eleven hybrids *viz*. MH 2919 (3699 kg/ha), MH 2917 (3447 kg/ha), MH 2933 (3365 kg/ha), MH 2916 (3352 kg/ha), MH 2907 (3207 kg/ha), MH 2914 (3136 kg/ha), MH 2905 (3131 kg/ha), MH 2909 (3082 kg/ha), MH 2906 (3042 kg/ha), MH 2929 (3022 kg/ha) and MH 2918 (3016 kg/ha) recorded higher

grain yield over best check 86M01 (2977 kg/ha) with medium flowering (up to 50 days) except MH 2919 and MH 2933 (51 days). Dry fodder yield of test entries ranged from 5214 kg/ha to 8080 kg/ha.

Table I.8: MEAN PERFORMANCE: INITIAL HYBRID TRIAL (Medium) KHARIF 2025 ZONE B

S.No.	Name of Entry	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2919	3699	8080	51	86	2.3	1.1	0.5	0.0	10.8	46	32
2	MH 2917	3447	7541	48	84	0.8	1.0	0.3	0.5	10.1	44	33
3	MH 2933	3365	6724	51	87	9.5	0.9	0.0	0.1	6.4	48	31
4	MH 2916	3352	7588	50	85	2.2	1.3	0.0	0.9	8.4	47	36
5	MH 2907	3207	5943	47	82	4.3	2.8	0.5	2.8	8.1	45	32
6	MH 2914	3136	7014	50	85	1.1	3.9	1.3	1.4	4.4	53	34
7	MH 2905	3131	7119	50	85	2.5	1.4	0.5	0.9	0.8	48	36
8	MH 2909	3082	5937	47	83	12.8	2.9	0.0	0.3	2.5	58	35
9	MH 2906	3042	6267	48	83	3.3	2.0	0.9	0.4	2.6	52	37
10	MH 2929	3022	8031	50	86	1.3	3.0	0.0	2.0	1.0	57	37
11	MH 2918	3016	6484	51	84	1.1	1.3	0.0	0.0	8.3	47	34
12	86M01 (C)	2977	6599	48	83	9.0	4.5	0.5	0.0	1.4	49	36
13	MH 2910	2948	6542	46	82	0.8	0.9	0.4	2.1	8.6		
14	MH 2921	2932	7287	49	85	18.6	1.5	0.0	1.0	15.1		
15	MH 2928	2803	7885	49	84	1.0	3.0	0.0	2.6	8.9		
16	MH 2912	2736	6892	47	81	6.4	3.0	0.0	1.3	9.0		
17	MH 2911	2727	6159	47	83	3.0	2.8	0.3	1.5	10.4		
18	MH 2932	2718	7035	50	86	6.4	3.0	0.0	2.8	11.5		
19	AHB 1269 (C)	2582	5784	47	81	0.8	3.1	0.0	2.4	5.9	60	39
20	Pratap (C)	2564	5214	47	82	11.1	4.3	0.8	2.4	3.8	55	35
21	MH 2926	2500	6129	50	85	7.7	2.4	0.0	0.8	4.9		
22	MH 2922	2462	6258	47	83	5.8	1.8	0.0	0.9	13.4		
23	MH 2923	2442	5884	47	80	7.9	2.0	0.0	2.0	10.6		
24	MH 2913	2437	5222	46	81	8.7	2.8	0.3	0.3	11.0		
25	MH 2920	2429	5821	44	78	29.8	2.0	0.0	0.9	8.5		
26	MH 2927	2417	5298	51	86	2.6	2.8	0.0	2.6	7.9		
27	MH 2931	2389	6901	49	84	10.9	3.4	0.3	3.5	7.3		
28	AHB 1200 (C)	2312	6046	47	82	2.7	2.8	0.0	2.3	7.1	63	37
29	MH 2915	2215	6665	45	79	1.8	2.5	0.9	2.8	11.8		
30	MH 2924	2197	5664	46	79	2.6	3.1	1.1	3.8	5.3		
31	MH 2925	2100	5296	46	80	6.4	4.5	0.9	1.9	5.9		
32	MH 2908	1909	6125	49	84	2.4	2.4	0.4	0.4	2.1		
33	MH 2930	1869	5310	46	80	1.8	2.0	1.1	1.8	8.6		
	LOC. MEAN	2732	6447	48	83							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 10% higher over relevant check, Days to 50% flowering ≤ 50 days, A grace of one day in days to 50% flowering may be given to hybrids yielding grains 15% higher over relevant checks, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

3. Initial Hybrid Trial (Late): IHT (L) ZONE A & B

In Initial Hybrid Trial (Late) 23 experimental hybrids were evaluated at 14 locations along with four checks *viz*., MP 7878, 86M84, KBH 108 and AHB 1200 (only for Fe and Zn comparison) in zone A and same entries at 10 locations along with four checks *viz*., NBH 4903, 86M86, Kaveri Super Boss and AHB 1200 (only for Fe and Zn comparison) in zone B. Experimental hybrids showed differences in their performance between and within zones. The zone-wise results are given below:

Zone A

In Zone A, Initial Hybrid Trial (Late) was conducted successfully at 14 locations i.e. six in Rajasthan, two in Gujarat, three in Uttar Pradesh, one each in Haryana, Madhya Pradesh and Punjab. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.9. Location-wise performance for grain yield and other ancillary characters are presented in Tables I.61 to I.74. The mean grain yield of test hybrids ranged from 2224 kg/ha to 4381 kg/ha. Nine hybrids namely MH 2953 (4381 kg/ha), MH 2951 (4337 kg/ha), MH 2954 (4333 kg/ha), MH 2952 (4258 kg/ha), MH 2935 (4157 kg/ha), MH 2955 (4073 kg/ha), MH 2947 (4069 kg/ha), MH 2948 (4066 kg/ha) and MH 2956 (3996 kg/ha) recorded higher grain yield over the best check MP 7878 (3897 kg/ha). Dry fodder yield of test hybrids ranged from 7920 kg/ha to 13269 kg/ha.

Table I.9: MEAN PERFORMANCE: INITIAL HYBRID TRIAL (Late) KHARIF 2025 ZONE A

S.No.	Name of Entry	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2953	4381	11735	58	89	1.0	1.2	0.0	0.1	0.0	43	34
2	MH 2951	4337	13269	59	90	0.6	1.5	0.0	0.3	0.0	41	34
3	MH 2954	4333	11548	57	88	1.1	1.2	0.0	0.1	0.0	41	30
4	MH 2952	4258	12440	60	90	2.2	1.0	0.0	1.6	0.0	44	37
5	MH 2935	4157	11700	54	86	0.7	1.2	2.5	0.0	0.0	50	37
6	MH 2955	4073	11019	60	90	1.3	1.4	0.0	1.3	0.0	36	30
7	MH 2947	4069	12173	58	89	2.3	1.3	0.0	0.0	0.0	42	36
8	MH 2948	4066	13235	58	89	1.1	1.6	0.0	0.4	0.0	38	34
9	MH 2956	3996	11910	60	90	3.3	1.3	0.0	1.0	0.0	39	30
10	MP 7878 (C)	3897	12722	56	88	0.8	1.8	0.0	0.0	0.0	47	40
11	MH 2939	3822	12038	57	88	0.9	1.2	0.0	0.8	0.0		
12	MH 2950	3727	10898	55	86	1.1	1.2	0.0	0.3	0.0		
13	MH 2938	3619	11327	56	87	1.0	2.3	0.0	0.1	0.0		
14	86M84 (C)	3612	12490	57	89	2.3	2.1	1.3	0.0	0.0	45	37
15	MH 2945	3518	11211	56	87	2.1	1.8	0.0	2.0	0.0		
16	KBH 108 (C)	3349	11495	58	88	1.9	2.4	0.0	0.9	0.0	39	31
17	MH 2942	3165	10812	55	86	2.2	1.7	5.0	2.0	0.0		
18	MH 2949	3162	9598	54	86	2.6	1.4	1.3	0.8	0.0		
19	MH 2940	3073	10928	55	87	8.3	1.5	0.0	0.1	1.0		
20	MH 2946	3015	9398	52	84	1.0	2.3	1.3	3.5	0.0		
21	MH 2941	2949	10467	59	90	5.8	1.6	0.0	0.0	0.0		
22	MH 2934	2882	9954	52	84	5.3	1.5	1.3	0.0	0.0		
23	MH 2944	2691	9295	52	83	2.2	2.4	2.5	5.4	0.0		
24	MH 2937	2663	11194	55	87	3.8	2.2	1.3	2.5	0.0		
25	MH 2936	2599	10884	57	87	8.5	1.5	0.0	1.3	0.0		
26	AHB 1200 (C)	2486	8575	49	82	0.7	3.2	0.0	2.9	0.0	55	38
27	MH 2943	2224	7920	49	82	2.2	2.5	1.3	2.2	0.0		
	LOC. MEAN	3486	11120	56	87							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 5% higher over relevant check, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

Zone B

In Zone B, Initial Hybrid Trial (Late) was conducted successfully at 10 locations *viz*. seven in Maharashtra and one each in Karnataka, Andhra Pradesh and Tamil Nadu. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and

days to maturity are given in Table I.10. Location-wise performance for grain yield and other ancillary characters are presented in Tables I.75 to I.88. Mean grain yield of test hybrids ranged from 2113 kg/ha to 4056 kg/ha. Four hybrids namely, MH 2954 (4056 kg/ha), MH 2952 (3970 kg/ha), MH 2935 (3875kg/ha) and MH 2951 (3718 kg/ha) recorded higher grain yield over the best check NBH 4903 (3705 kg/ha). Dry fodder yield of test hybrids ranged from 5132 kg/ha to 9430 kg/ha.

Table I.10: MEAN PERFORMANCE: INITIAL HYBRID TRIAL (Late) KHARIF 2025 ZONE B

S.No.	Name of Entry	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2954	4056	8269	56	88	1.0	1.5	0.0	0.0	3.3	42	30
2	MH 2952	3970	8364	56	89	2.5	0.9	0.0	0.1	4.5	48	37
3	MH 2935	3875	7476	54	86	9.1	0.6	0.4	2.5	8.1	54	41
4	MH 2951	3718	9430	57	89	1.3	0.6	0.0	0.4	6.3	48	38
5	NBH 4903 (C)	3705	9365	59	91	2.1	1.8	0.4	1.5	4.5	48	42
6	MH 2955	3587	7493	58	91	6.5	0.8	0.9	0.4	8.4		
7	MH 2947	3579	8034	56	88	1.0	2.1	0.0	1.5	4.3		
8	MH 2938	3573	7482	57	89	1.2	1.3	0.6	1.3	5.0		
9	MH 2956	3552	8547	58	90	1.7	1.9	0.3	1.1	8.4		
10	MH 2953	3489	7738	56	88	1.6	1.0	0.0	1.5	6.1		
11	MH 2939	3406	8310	55	87	6.6	1.6	0.0	2.5	5.5		
12	MH 2942	3405	6994	56	88	0.8	2.3	0.0	3.6	8.8		
13	MH 2948	3351	8802	57	89	1.0	1.0	1.1	0.4	5.4		
14	MH 2946	3323	6460	53	84	2.8	2.8	0.0	3.1	5.5		
15	MH 2950	3061	6825	54	87	1.7	2.0	0.0	1.9	6.5		
16	MH 2944	3028	5979	53	85	3.5	2.9	0.3	3.4	8.0		
17	MH 2945	2973	6421	55	87	1.3	1.8	0.0	1.0	7.5		
18	MH 2934	2876	6675	53	85	10.7	2.0	0.0	4.1	6.5		
19	86M86 (C)	2866	6742	56	88	0.5	1.4	0.5	1.6	5.9	51	41
20	MH 2941	2853	6256	56	88	8.0	2.1	1.1	0.4	3.9		
21	Kaveri S Boss (C)	2794	6356	54	86	1.0	1.5	0.0	2.0	7.0	41	35
22	MH 2936	2530	6904	55	87	15.2	1.5	0.0	5.3	12.3		
23	MH 2949	2469	6380	52	83	9.7	1.9	0.0	2.6	7.8		
24	MH 2937	2429	6777	54	86	8.2	1.5	0.8	3.1	6.5		
25	AHB 1200 (C)	2365	5487	51	83	2.7	2.8	0.0	2.3	7.1	63	44
26	MH 2940	2282	6595	56	88	8.4	2.5	0.0	3.0	4.8		
27	MH 2943	2113	5132	51	84	9.2	3.4	0.6	5.0	6.0		
	LOC. MEAN	3157	7233	55	87							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 5% higher over relevant check, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

4. Advanced Hybrid Trial (Medium): AHT (M) ZONE B

In Advanced Hybrid Trial (Medium), 11 experimental hybrids along with four checks viz., Pratap, AHB 1269, 86M01 and AHB 1200 (only for Fe and Zn comparison) were evaluated at 7 locations in Zone B. Experimental hybrids showed differences in their performance between and within zones. The zone-wise results are given below:

Zone B

In Zone B, AHT (Medium) was conducted successfully at 7 locations viz., three in Maharashtra, two in Andhra Pradesh and one each in Karnataka, and Tamil Nadu. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.11. Location-wise performance of grain yield, grain quality and other ancillary

characters are presented in Tables I.89 to I.102. The mean grain yield of hybrids tested ranged from 2468 kg/ha to 3453 kg/ha. Ten hybrids namely, MH 2775 (3453 kg/ha), MH 2773 (3351 kg/ha), MH 2852 (3307 kg/ha), MH 2863 (3272 kg/ha), MH 2842 (3165 kg/ha), MH 2859 (3162 kg/ha), MH 2784 (3152 kg/ha), MH 2767 (3091 kg/ha), MH 2846 (3065 kg/ha) and MH 2705 (3060 kg/ha) recorded higher grain yield over best check 86M01 (3014 kg/ha). Dry fodder yield of test hybrids ranged from 4480 kg/ha to 6490 kg/ha.

Table I.11: MEAN PERFORMANCE: ADVANCED HYBRID TRIAL (Medium) KHARIF 2025 ZONE B

S.No.	Name of Entry (Years of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2775 (3rd)	3453	5356	49	83	0.3	1.1	0.0	5.3	10.9	50	33
2	MH 2773 (3rd)	3351	6177	52	85	2.0	1.4	0.0	4.0	8.5	46	34
3	MH 2852 (2nd)	3307	5825	50	86	3.1	1.6	0.6	3.4	9.3	51	36
4	MH 2863 (2nd)	3272	5667	49	85	0.8	1.5	0.5	2.5	9.0	54	34
5	MH 2842 (2nd)	3165	6241	50	85	0.8	1.3	0.0	5.1	13.4	47	31
6	MH 2859 (2nd)	3162	6181	51	87	4.4	1.3	0.8	1.1	8.1	50	36
7	MH 2784 (3rd)	3152	5828	50	85	3.4	1.3	1.1	3.9	13.4	47	33
8	MH 2767 (3rd)	3091	6490	52	85	1.3	0.6	0.0	3.1	6.6	47	31
9	MH 2846 (2nd)	3065	5377	51	87	3.3	1.3	0.0	3.3	6.1	61	41
10	*MH 2705 (3rd)	3060	5176	50	84	18.4	1.3	0.0	3.5	7.5	37	28
11	86M01 (C)	3014	5240	49	83	4.6	3.6	0.0	3.0	7.9	47	34
12	MH 2777 (3rd)	2939	4930	50	85	0.6	1.6	0.4	3.4	10.6	46	33
13	AHB 1200 (C)	2562	4817	48	84	5.9	3.0	0.0	1.6	7.0	65	39
14	Pratap (C)	2558	4480	48	84	4.3	3.0	0.0	1.3	7.5	54	37
15	AHB 1269 (C)	2468	4669	48	84	6.4	2.5	0.5	4.6	9.9	58	35
	LOC. MEAN	3041	5497	50	85							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 10% higher over relevant check, Days to 50% flowering ≤ 50 days, A grace of one day in days to 50% flowering may be given to hybrids yielding grains 15% higher over relevant checks, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

5. Advanced Hybrid Trial (Late): AHT (L) ZONE A & B

In Advanced Hybrid Trial (Late), six experimental hybrids along with five checks viz. KBH 108, 86M86, 86M84, MP 7878 and AHB 1200 (only for Fe and Zn comparison) were evaluated at 11 locations in Zone A and two experimental hybrids along with four checks viz. Kaveri Super Boss, NBH 4903, 86M86 and AHB 1200 (only for Fe and Zn comparison) were evaluated at 7 locations in Zone B. Experimental hybrids showed differences in their performance between and within zones. The zone-wise results are given below:

Zone A

In Zone A, Advanced Hybrid Trial (Late) was conducted successfully at 11 locations *viz*., three each in Rajasthan and U.P., two in Gujarat and one each in Haryana, Madhya Pradesh and Punjab. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.12. Location-wise performance of grain yield, grain quality and other ancillary characters are presented in Tables I.103 to I.117. The mean grain yield of hybrids tested ranged from 2669 kg/ha to 4763 kg/ha. All the six experimental hybrids *viz*., MH 2798 (4763 kg/ha), MH 2808 (4531 kg/ha), MH 2796 (4527 kg/ha) MH 2806 (4509 kg/ha), MH 2878 (4382

kg/ha) and MH 2797 (4323 kg/ha) recorded higher grain yield over the best check 86M84 (4179 kg/ha). Dry fodder yield of test hybrids ranged from 8327 kg/ha to 13040 kg/ha.

Table I.12: MEAN PERFORMANCE: ADVANCED HYBRID TRIAL (Late) KHARIF 2025 ZONE A

S.No.	Name of Entry (Year of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2798 (3rd)	4763	11912	54	85	0.0	0.6	0.0	4.2	0.0	39	36
2	MH 2808 (3rd)	4531	12619	58	88	0.0	0.8	0.0	0.4	0.0	38	33
3	MH 2796 (3rd)	4527	12445	54	85	0.0	0.9	1.0	1.5	0.5	48	37
4	MH 2806 (3rd)	4509	11228	54	86	1.0	1.9	0.0	0.0	0.0	37	31
5	MH 2878 (2nd)	4382	13040	57	87	0.5	1.6	0.0	0.0	0.0	41	34
6	MH 2797 (3rd)	4323	12382	55	86	0.3	0.6	0.0	0.0	0.0	35	33
7	86M84 (C)	4179	12333	56	87	0.0	1.8	0.3	1.0	0.1	47	37
8	MP 7878 (C)	4083	11381	55	87	0.8	2.2	0.0	0.1	0.0	49	41
9	KBH 108 (C)	3731	11372	56	87	1.5	3.4	0.0	1.5	0.0	37	31
10	86M86 (C)	3709	10857	54	86	0.0	1.7	0.0	5.1	0.0	54	39
11	AHB 1200 (C)	2669	8327	47	80	2.3	3.5	1.3	1.9	0.0	64	41
	LOC. MEAN	4128	11627	55	86							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 5% higher over relevant check, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

Zone B

In Zone B, Advanced Hybrid Trial (Late) was conducted successfully at 7 locations viz. four in Maharashtra, one each in Andhra Pradesh, Karnataka and Tamil Nadu. Mean performance of experimental hybrids along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.13. Location-wise performance of grain yield, grain quality and other ancillary characters are presented in Tables I.118 to I.131. The mean grain yield of hybrids tested ranged from 2764 kg/ha to 3932 kg/ha. Hybrid MH 2798 (3932 kg/ha) recorded higher grain yield over the best check NBH 4903 (3838 kg/ha). Dry fodder yield of test hybrids ranged from 4786 kg/ha to 7655 kg/ha.

Table I.13: MEAN PERFORMANCE: ADVANCED HYBRID TRIAL (Late) KHARIF 2025 ZONE B

S.No.	Name of Entry (Year of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2798 (3rd)	3932	6597	54	88	1.3	0.8	0.0	2.3	10.5	43	35
2	NBH 4903 (C)	3838	7655	57	92	2.7	1.5	0.3	2.6	9.6	50	40
3	MH 2875 (2nd)	3522	6422	53	88	1.0	1.3	0.6	1.4	10.0	45	34
4	86M86 (C)	3198	5989	53	88	1.4	1.6	0.6	2.1	11.5	53	36
5	Kaveri S Boss (C)	3159	5509	52	86	1.9	1.3	0.3	2.5	13.9	41	32
6	AHB 1200 (C)	2764	4786	50	84	5.9	3.0	0.0	1.6	7.0	62	39
	LOC. MEAN	3402	6160	53	88							

Promotion criteria as per 52nd Annual group meet: Grain yield =higher than best check or 5% higher over relevant check, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

B. ICAR-AICRP on Pearl Millet Varietal (Population) Trials

1. Population Trial: PT ZONE A & B

Population trial comprising of common initial entries of first year testing and advanced entries of second year testing was conducted in zone A and zone B separately. Population trial in zone A consisting of 10 experimental populations along with six checks *viz*. JBV 2, Pusa Composite 701, Pusa Composite 383, ICMV 221, Raj 171 and Dhanshakti was conducted at 9 locations while Population trial in zone B consisting of 13 experimental populations along with six checks *viz*. ABV 04, Pusa Composite 612, ICMV 221, Raj 171, ICMV 155 and Dhanshakti was conducted at 9 locations. Test entries showed differences in their performance between and within zones. The zone-wise results are given below:

Zone A

In zone A, Population Trial was conducted successfully at 9 locations *viz.* three in Rajasthan, two in Madhya Pradesh and one each in Gujarat, Punjab, Haryana and Delhi. Mean performance of experimental populations along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.14. Location-wise performance for grain yield, grain quality and other ancillary characters are presented in Tables I.132 to I.145. The mean grain yield of test varieties ranged from 1529 kg/ha to 3146 kg/ha. Three populations namely MP 652 (3146 kg/ha), MP 661 (2979 kg/ha) and MP 659 (2839 kg/ha) recorded higher grain yield over best check JBV 2 (2721 kg/ha). Dry fodder yield of test entries ranged from 4773 kg/ha to 8401 kg/ha.

Table I.14: MEAN PERFORMANCE: POPULATION TRIAL - KHARIF 2025 ZONE A

S.No.	Name of Entry (Year of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MP 652	3146	8401	51	83	1.7	2.0	0.0	0.3	0.0	50	44
2	MP 661	2979	7263	50	83	1.8	1.7	3.8	1.7	0.0	51	42
3	MP 659	2839	7646	49	83	3.8	1.5	0.0	1.0	0.0	53	46
4	JBV 2 (C)	2721	7656	50	83	2.6	2.7	1.3	1.9	0.0	50	45
5	MP 657	2689	8133	50	83	2.4	2.0	0.0	2.8	0.0	49	46
6	Pusa Comp. 383 (C)	2543	7762	49	81	2.3	1.7	1.3	0.9	0.0	53	48
7	MP 658	2536	7068	48	80	5.1	2.1	0.0	4.4	0.0		
8	Pusa Comp. 701 (C)	2445	7887	49	81	1.6	1.9	0.0	1.0	0.0	48	44
9	MP 653	2431	6798	50	83	4.4	2.0	0.0	4.5	0.0		
10	MP 654	2310	6958	49	81	7.6	2.2	0.0	0.6	0.0		
11	Raj 171 (C)	2222	6680	48	81	3.0	2.1	0.0	2.6	0.0	46	44
12	MP 655	2152	5998	56	87	0.7	2.5	0.0	0.6	0.0		
13	MP 656	1990	5987	54	86	4.4	2.0	0.0	2.8	0.0		
14	ICMV 221 (C)	1962	5565	44	78	3.2	3.0	0.0	2.4	0.0	60	49
15	Dhanshakti (C)	1920	5509	46	80	4.1	2.6	0.0	2.5	0.0	65	52
16	MP 660	1529	4773	53	85	6.0	1.3	0.0	0.3	0.0		
	LOC. MEAN	2401	6880	50	82							

Zone B

In Zone B, Population Trial was conducted successfully at 9 locations i.e. three in Andhra Pradesh, two in Maharashtra and one each in Karnataka, Telangana, Tamil Nadu and Odisha. Mean performance of experimental populations along with checks for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.15. Location-wise performance for grain yield and other ancillary characters are presented in Tables I.146 to I.158. Mean grain yield of test populations ranged from 1132 kg/ha to 2604 kg/ha. Three populations viz., MP 652 (2604 kg/ha), MP 647 (2598 kg/ha) and MP 659 (2570 kg/ha) recorded higher grain yield over the best check ICMV 155 (2509 kg/ha). Fodder yield of test populations ranged from 3573 kg/ha to 6079 kg/ha.

Table I.15: MEAN PERFORMANCE: POPULATION TRIAL - KHARIF 2025 ZONE B

S.No.	Name of Entry (Year of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MP 652	2604	6073	52	86	4.8	2.6	0.8	0.9	2.0	48	33
2	MP 647 (2nd)	2598	5752	50	84	6.2	3.4	0.8	2.3	9.1	61	38
3	MP 659	2570	5729	50	83	4.4	2.3	0.5	1.8	9.3	50	33
4	ICMV 155 (C)	2509	6079	51	84	8.7	2.9	0.7	2.7	9.3	44	34
5	ABV 04 (C)	2499	5126	51	85	2.1	2.1	0.0	2.3	9.4	46	33
6	MP 648 (2nd)	2497	5783	49	83	9.4	2.3	0.0	2.4	9.4	51	35
7	MP 657	2495	5858	50	85	5.0	2.4	0.0	1.1	5.1		
8	MP 658	2482	5774	49	84	6.7	3.5	0.0	1.9	11.4		
9	MP 654	2239	4912	50	84	4.6	2.6	0.0	2.9	6.9		
10	MP 640 (2nd)	2183	5444	50	83	4.4	1.1	0.9	1.5	8.4	46	33
11	MP 661	2142	4613	49	83	2.4	2.5	0.0	0.9	7.6		
12	MP 653	2139	5666	50	84	3.8	3.6	0.5	2.1	6.0		
13	Raj 171 (C)	2054	4727	50	84	4.5	2.1	0.3	2.9	11.3	43	34
14	Pusa Comp. 612 (C)	1987	6021	48	82	7.6	2.4	0.2	2.4	10.7	43	33
15	Dhanshakti (C)	1711	4725	46	81	7.6	2.9	0.3	3.6	8.8	80	46
16	MP 655	1705	5165	53	87	4.0	2.3	0.0	0.3	3.4		
17	MP 656	1646	4444	54	87	7.9	2.5	0.5	1.1	0.8		
18	ICMV 221 (C)	1551	4372	45	80	5.3	2.8	1.2	3.5	9.6	60	39
19	MP 660	1132	3573	53	88	4.7	2.6	0.0	1.1	7.0		
	LOC. MEAN	2148	5254	50	84							

C. ICAR-AICRP on Pearl Millet Hybrid and Population Trials:

Advanced Hybrid and Population Trial: AHPT ZONE A_1

AHPT was constituted comprising entries promoted from IHT (Early) and early populations of Population Trial Zone A based on mean of locations from A_1 Zone comprising of low rainfall areas (<400 mm) of western-Rajasthan, drier parts of Haryana and Gujarat. The trial was conducted successfully at 11 locations *viz.*, seven in Rajasthan, two each in Haryana and Gujarat. In this trial, 9 test entries including 4 experimental hybrids along with four early maturing hybrid checks *viz.*, RHB 223, PB 1756, HHB 67 Improved, MPMH 35 and one high Fe & Zn hybrid check *viz.*, AHB 1200 were evaluated. Mean performance of experimental hybrids and varieties for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.16. Location-wise performance for grain yield, grain quality and other ancillary characters are given in Tables I.159 to I.173. Two early maturing hybrids *viz*. MH 2744 (2359 kg/ha) and MH 2743 (2259 kg/ha) recorded higher grain yield over the best check PB 1756 (2241 kg/ha). Hybrid MH 2744 recorded highest dry fodder yield (5096 kg/ha).

Table I.16: MEAN PERFORMANCE: ADVANCED HYBRID AND POPULATION TRIAL (Early) KHARIF 2025 ZONE A_1

S.No.	Name of Entry (Year of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MH 2744 (3rd)	2359	5096	43	74	0.0	1.2	0.0	0.0	0.0	46	35
2	MH 2743 (3rd)	2259	4541	44	75	0.5	1.4	0.0	0.0	0.0	51	33
3	PB 1756 (C)	2241	4738	44	76	0.0	1.4	0.0	2.5	0.0	40	34
4	MH 2758 (3rd)	2101	4797	44	75	0.4	1.4	0.0	2.5	0.0	36	33
5	MH 2747 (3rd)	2020	4555	44	75	0.0	1.5	1.3	2.5	0.0	36	31
6	MPMH 35 (C)	1907	4492	43	75	1.7	1.8	0.0	1.3	0.0	43	35
7	AHB 1200 (C)	1851	4221	47	77	0.0	3.4	1.3	2.5	0.0	57	38
8	HHB 67 Imp. (C)	1709	4141	43	75	0.8	3.1	1.3	2.5	0.0	43	36
9	RHB 223 (C)	1488	3120	46	75	4.2	1.8	2.5	7.5	0.0	33	27
	LOC MEAN	2048	4537	44	75							

Promotion criteria as per 52nd Annual group meet : Grain yield =higher than best check or 10% higher over relevant check, Days to 50% flowering ≤ 45 days, A grace of one day in days to 50% flowering may be given to hybrids yielding grains 15% higher over HHB 67 Improved, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

D. Released Hybrids and Varieties Trial: RHVT ZONE A_1, A and B

In addition to evaluation of experimental hybrids in coordinated trials, the Released Hybrids and Varieties Trial was conducted in both the zones. New hybrids and varieties released specifically for respective zones were evaluated in this trial. The zone-wise results are given below:

Zones A_1 and A

Twenty seven hybrids and six populations released for zone A_1 and A were tested at seven locations *viz.* three in Rajasthan, two in Madhya Pradesh and one each in Gujarat and Haryana. Mean performance of released hybrids and populations for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.17. Location-wise data on grain yield and other ancillary characters are presented in Tables I.174 to I.186. Among hybrids, GHB 1305 (2219 kg/ha), PB 1705 (2683 kg/ha), Kaveri Super Boss (2737 kg/ha) and HHB 299 (2157 kg/ha) recorded maximum grain yield in early, medium, late maturity and high Fe & Zn group, respectively. Among populations Pusa Comp. 383 recorded maximum grain yield (2142 kg/ha) as compared to other populations. Among the hybrids, 86M80 (7521 kg/ha) and among the populations Pusa Composite 701 (5837 kg/ha) were found superior in fodder yield over other cultivars.

Table I.17: MEAN PERFORMANCE: RELEASED HYBRIDS AND VARIETIES TRIAL KHARIF 2025 ZONE A_1 and A

S.No.	Name of Entry (Year of release)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)
	Early									
1	GHB 1305 E	2219	5817	46	78	0.3	1.1	0.0	2.1	0.0
2	RHB 223 (2018) E	2181	7222	42	72	1.8	0.9	0.0	1.9	0.0
3	PB 1756 (2018) E	2128	6202	46	78	0.8	1.8	0.0	2.9	0.0
4	MPMH 42 (2024) E	2033	5753	45	77	0.0	1.6	0.0	0.1	0.0
5	GHB 1294 (2024) E	1913	5802	47	78	0.3	1.5	2.5	4.3	0.0
6	MPMH 35 (2022) E	1754	5544	44	76	1.4	1.5	0.0	4.4	0.0
7	HHB 67 Imp. 2 (2021) E	1663	5100	43	75	1.3	2.1	2.5	3.4	0.0
8	HHB 234 (2013) E	1528	5335	45	77	2.6	3.4	5.0	1.5	0.0
9	GHB 538 (2005) E	1380	4932	46	78	6.1	3.7	2.5	3.3	0.0
10	HHB 67 Imp. (2005) E	1350	4622	42	74	2.8	2.6	0.0	2.1	0.0
	Medium									
11	PB 1705 (2018) M	2683	6768	52	83	1.0	1.4	0.0	0.0	0.5
12	86M94 (2022) M	2648	7194	50	82	1.2	1.5	0.0	2.7	0.0
13	86M01 (2015) M	2532	6893	51	82	5.5	2.7	0.0	0.0	0.0
14	GHB 905 (2013) M	2047	6589	47	79	0.0	1.5	0.0	0.1	0.0
15	DHBH 1397 (2019) M	1997	5864	48	80	1.0	1.8	0.0	4.3	0.0
16	PB 1852 (2019) M	1904	6290	55	85	1.0	1.4	0.0	0.0	0.0
	Late									
17	Kaveri Super Boss (2012) L	2737	7135	52	83	0.0	0.9	0.0	1.8	0.3
18	MP 7878 (2018) L	2728	7193	54	84	2.2	2.3	0.0	4.3	0.0
19	86M80 (2022) L	2721	7521	56	85	0.3	1.0	0.0	0.1	0.0
20	KBH 108 (2014) L	2548	5660	55	85	0.0	3.3	0.0	0.9	0.0
21	86M86 (2012) L	2052	6642	54	85	0.0	1.9	0.0	0.3	0.0
22	86M84 (2016) L	1950	6857	56	86	0.0	2.3	0.0	0.0	0.0
	High Iron & Zinc									
23	HHB 299 (2018) M – FeZn	2157	5002	51	82	1.8	1.7	7.5	4.9	0.0
24	RHB 234 (2019) M – FeZn	2034	5677	48	80	0.0	1.9	0.0	1.1	0.0
25	RHB 233 (2019) M - FeZn	1954	5295	50	81	1.1	1.5	0.0	0.4	0.6
26	AHB 1269 (2019) M – FeZn	1930	5115	49	80	0.0	2.7	5.0	0.3	0.0
27	AHB 1200 (2018) M – FeZn	1771	4291	48	80	1.3	3.1	0.0	3.8	0.0
	Populations									
28	Pusa Composite 383 (2001) M	2142	5718	48	80	1.4	1.4	0.0	2.5	0.0
29	Raj 171 (1992) L	1985	4958	49	81	4.1	1.9	0.0	0.1	0.0
30	JBV 2 (1999) M	1715	5365	49	80	4.0	2.0	2.5	1.1	0.0
31	Pusa Composite 701 (2016) M	1645	5837	49	79	0.3	1.9	2.5	0.5	0.0
32	ICMV 221 (1993) E	1369	4526	43	77	0.8	2.6	0.0	0.9	0.3
33	Dhanshakti (2014) E	1305	4863	44	77	4.2	2.3	0.0	0.6	0.0
	LOC. MEAN	2012	5826	49	80					

Zone B

Ten hybrids and six populations released for Zone B were evaluated at seven locations *viz.* two each in Maharashtra and Andhra Pradesh and one each in Karnataka, Tamil Nadu and Odisha. Mean performance of released hybrids and populations for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Table I.18. Location-wise mean performance of grain yield and other ancillary characters are presented in Tables I.187 to I.198. Hybrids RHB 234 (2534 kg/ha), 86M01 (2963 kg/ha) and NBH 4903 (3157 kg/ha) observed to be superior over all other hybrids in high Fe & Zn, medium and late maturity group, respectively. Among the populations, ABV 04 (2411 kg/ha) recorded maximum grain yield. Highest dry fodder yield was recorded NBH 4903 (6956 kg/ha) and Pusa Comp. 612 (5689 kg/ha) among all hybrids and populations, respectively.

Table I.18: MEAN PERFORMANCE: RELEASED HYBRIDS AND VARIETIES TRIAL KHARIF 2025 ZONE B

S.No.	Name of Entry (Year of release)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)
	High Fe & Zn hybrids									
1	RHB 234 (2019) M FeZn	2534	4877	48	86	11.6	2.6	0.0	3.4	4.5
2	HHB 299 (2018) M FeZn	2469	5032	49	86	7.6	2.5	0.5	1.8	5.9
3	AHB 1269 (2019) M FeZn	2437	4440	48	85	4.8	3.5	0.5	1.8	7.1
4	AHB 1200 (2018) M FeZn	2402	4718	47	85	3.9	3.1	0.6	1.0	4.1
5	RHB 233 (2019) M FeZn	2220	4017	48	85	2.5	1.3	1.6	2.0	10.6
	Medium hybrids									
6	86M01 (2015) M	2963	5335	49	87	6.7	1.1	0.5	2.0	7.1
7	Pratap (MH 1642) (2012) M	2853	4538	48	85	5.0	3.4	0.6	1.6	9.3
	Late hybrids									
8	NBH 4903 (2018) L	3157	6956	53	89	1.4	0.9	0.0	1.6	9.8
9	86M86 (2012) L	2956	5017	51	88	0.6	1.8	0.0	0.9	6.3
10	Kaveri Super Boss (2012) L	2819	4889	49	87	0.5	1.5	0.5	3.0	6.6
	Populations									
11	ABV04 (2019) L	2411	4711	50	87	4.7	3.0	0.0	4.2	7.3
12	Pusa Comp. 612 (2011) M	2222	5689	49	87	8.4	2.5	0.0	3.6	6.5
13	ICMV 155 (1991) L	2052	5353	49	88	9.5	3.0	0.3	2.0	8.0
14	Dhanshakti (2014) E	2004	4511	43	82	15.4	3.0	0.0	3.4	5.8
15	Raj 171 (1992) L	1940	4654	49	86	10.6	2.0	0.0	5.0	12.5
16	ICMV 221 (1993) E	1931	4700	45	83	6.6	3.0	0.4	3.3	7.8
	LOC. MEAN	2461	4965	48	86					

Table I.19: INITIAL HYBRID TRIAL (Early) KHARIF 2025 EXPERIMENTAL DETAILS ZONE A_1

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers			Insecticide
							N	P	K	
RAJASTHAN										
Mandor (AICRP-PM)	SL	8.2	04.7.25	06.10.25	15.8.25	Nil	40	20	0	Nil
Jodhpur (CAZRI)	SL	7.6	08.7.25	01.10.25	22.7.25	Nil	40	20	0	Nil
Bikaner (SKRAU)	S	8.0	10.7.25	26.10.25	10.8.25	30.9.25	40	20	0	Nil
Fathehpur (SKNAU)	SL	8.0	06.7.25	As Per Maturity	As Per Pop	Nil	As Per Pop	As Per Pop	As Per Pop	Nil
Samdari (ARSS, AU Jodhpur)	SL	8.3	06.7.25	11.10.25	06.8.25	Nil	40	20	0	Nil
ARS, Jalore (AU, Jodhpur)	-	-	10.7.25	As Per Maturity	-	Nil	-	-	-	Nil
Nagaur (AU, Jodhpur)	SL	7.9	12.7.25	As Per Maturity	10.8.25	Nil	40	20	0	Nil
Gudamalani (ICAR-IIMR)	S	7.9	30.6.25	15.10.25	-	Life Saving	40	20	0	Nil
GUJARAT										
Kothara (SDAU)	SL	7.5	15.7.25	12.11.25	08.8.25	Nil	80	40	0	Nil
Deesa (SDAU)	SL	-	02.7.25	23.10.25	22.7.25	Nil	80	40	0	Nil
HARYANA										
Bawal (CCSHAU)	LS	8.2	21.7.25	17.10.25	18.5,07.9.25	Nil	40	20	30	Nil
Hisar (CCSHAU)	SL	-	01.7.25	10.10.25	-	25.7.25	40	20	0	Nil

SL = Sandy Loam, S = Sandy, LS = Loamy Sand.

Table I.20: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR**	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	1329	3135	1157	1655	477	1459	1981	**1622**	1527	1157	**1342**	3555	2852	**3203**	**1882**	**4**
2	IHT 102	MH 2888	1366	2733	648	1298	546	1315	1843	**1406**	2449	1667	**2058**	2516	2209	**2363**	**1727**	**8**
3	IHT 103	PB 1756 (Check)	1176	3494	810	1639	741	1194	1843	**1617**	2422	1472	**1947**	3625	2901	**3263**	**2012**	**2**
4	IHT 104	MH 2889	1287	3532	644	1587	347	2033	2005	**1567**	1820	1907	**1864**	3637	2062	**2849**	**1883**	**3**
5	IHT 105	MH 2890	1273	1768	611	1944	412	1824	1921	**1322**	1863	2111	**1987**	1981	1489	**1735**	**1537**	**15**
6	IHT 106	MH 2891	1389	1910	764	1748	394	1927	1958	**1360**	1328	2074	**1701**	2193	1589	**1891**	**1535**	**16**
7	IHT 107	MH 2892	1134	1928	625	1832	245	1620	1958	**1287**	2269	2074	**2171**	2148	2579	**2364**	**1679**	**9**
8	IHT 108	MH 2893	1250	2576	764	1707	486	3250	1829	**1435**	2500	1565	**2032**	2472	2461	**2467**	**1761**	**6**
9	IHT 109	MH 2894	1273	2484	718	1620	551	1296	1907	**1426**	2333	2106	**2220**	2986	2308	**2647**	**1829**	**5**
10	IHT 110	RHB 223 (Check)	1065	-	486	1334	449	2144	2019	**1070**	-	-	**-**	-	-	**-**	**1070**	**23**
11	IHT 111	MH 2895	1181	3631	995	1745	625	2787	1926	**1684**	2881	2306	**2594**	3366	3025	**3195**	**2168**	**1**
12	IHT 112	MH 2896	1620	1855	1042	1923	630	1528	1833	**1484**	1794	1731	**1763**	1725	1863	**1794**	**1602**	**14**
13	IHT 113	MH 2897	1250	2378	639	1931	662	1481	2056	**1486**	1933	2028	**1980**	2002	1837	**1919**	**1671**	**10**
14	IHT 114	MH 2898	1046	1291	833	1363	597	1333	2097	**1205**	2041	1315	**1678**	1575	1456	**1515**	**1361**	**22**
15	IHT 115	MH 2899	1296	1933	1042	1338	597	991	1972	**1363**	1736	1116	**1426**	1312	1525	**1419**	**1387**	**21**
16	IHT 116	HHB 67 Imp. (Check)	1134	2179	634	1744	463	1320	1722	**1313**	1677	1370	**1523**	2000	1409	**1705**	**1433**	**17**
17	IHT 117	MH 2900	1134	2469	810	1967	481	1546	1968	**1472**	1957	1565	**1761**	2144	2143	**2143**	**1664**	**11**
18	IHT 118	MH 2901	972	1732	741	1856	491	1431	1694	**1248**	2133	1801	**1967**	1639	1231	**1435**	**1429**	**18**
19	IHT 119	MH 2902	1366	1912	819	1643	639	1713	2000	**1397**	2727	926	**1827**	2117	1985	**2051**	**1613**	**12**
20	IHT 120	AHB 1200 (Check)	1088	2315	597	1860	634	1981	1671	**1361**	1765	1398	**1581**	1472	1392	**1432**	**1419**	**19**
21	IHT 121	MH 2903	1157	2144	694	1877	625	1444	1995	**1416**	2305	1009	**1657**	1744	2488	**2116**	**1604**	**13**
22	IHT 122	MPMH 35 (Check)	1389	2626	1042	2011	657	1099	2079	**1634**	2060	2481	**2271**	1724	1419	**1571**	**1749**	**7**
23	IHT 123	MH 2904	1310	1720	583	1865	787	1435	1532	**1300**	1738	1296	**1517**	1473	1573	**1523**	**1388**	**20**
		LOC. MEAN	**1239**	**2352**	**770**	**1717**	**545**	**1659**	**1905**	**1421**	**2057**	**1658**	**1858**	**2246**	**1991**	**2118**	**1648**	
		C.D. (5%)	**332**	**976**	**206**	**154**	**69**	**1304**	**274**	**336**	**308**	**402**	**836**	**472**	**678**	**706**	**331**	
		C.D. (1%)	**444**	**1305**	**275**	**206**	**92**	**1743**	**366**	**445**	**412**	**538**	**1138**	**631**	**906**	**961**	**436**	
		C.V. (%)	**16.3**	**25.2**	**16.3**	**5.5**	**7.6**	**47.8**	**8.7**	**20.6**	**9.1**	**14.7**	**21.6**	**12.8**	**20.7**	**16.0**	**22.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.252**	**0.000**	**0.000**	**0.381**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**7.20**	**7.20**	**7.20**	**7.20**	**7.20**	**7.20**	**7.20**	**-**	**5.40**	**7.20**	**-**	**7.20**	**7.20**	**-**	**-**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e. > 30%): JLR 47.8%**

Table I.21: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR**	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	3009	4218	2940	4352	2917	3620	4319	**3626**	7407	3574	**5491**	8156	9815	**8985**	**5071**	**4**
2	IHT 102	MH 2888	2940	3985	3125	4537	3657	3287	3509	**3626**	9877	5537	**7707**	7516	7176	**7346**	**5186**	**2**
3	IHT 103	PB 1756 (Check)	2917	4287	3056	4676	3704	2745	3366	**3667**	11975	3611	**7793**	8459	10880	**9669**	**5693**	**1**
4	IHT 104	MH 2889	3056	3806	3657	4352	2431	4120	4630	**3655**	8086	4889	**6488**	8382	8519	**8450**	**5181**	**3**
5	IHT 105	MH 2890	3102	2808	3171	4319	2222	3843	4722	**3391**	7037	1648	**4343**	5198	5000	**5099**	**3923**	**19**
6	IHT 106	MH 2891	3194	2909	3380	4537	2269	4468	4782	**3512**	5185	3815	**4500**	6674	5926	**6300**	**4267**	**15**
7	IHT 107	MH 2892	2722	3581	3893	3630	2454	3657	4208	**3415**	10000	2306	**6153**	6969	6944	**6956**	**4671**	**8**
8	IHT 108	MH 2893	2940	4197	3819	4120	3241	7269	5028	**3891**	8272	3463	**5867**	7294	8102	**7698**	**5048**	**5**
9	IHT 109	MH 2894	3009	3210	3472	4074	3148	3380	4588	**3584**	8210	3296	**5753**	6981	8241	**7611**	**4823**	**6**
10	IHT 110	RHB 223 (Check)	2546	-	4537	4583	1852	4537	4806	**3665**	-	-	**-**	-	-	**-**	**3665**	**23**
11	IHT 111	MH 2895	2940	4531	3380	4444	2731	5602	5051	**3846**	6235	2963	**4599**	7482	5815	**6648**	**4557**	**9**
12	IHT 112	MH 2896	3657	3421	3079	5148	2940	3611	4556	**3800**	7901	2852	**5377**	4806	5324	**5065**	**4368**	**13**
13	IHT 113	MH 2897	3171	3623	3264	3810	2523	3611	4958	**3558**	6111	2435	**4273**	6257	6065	**6161**	**4222**	**16**
14	IHT 114	MH 2898	2731	1828	4954	4352	2685	4907	4505	**3509**	5000	2241	**3620**	4870	4907	**4889**	**3807**	**22**
15	IHT 115	MH 2899	2755	2355	4537	5028	2639	2778	4463	**3629**	6543	2593	**4568**	4444	3940	**4192**	**3930**	**18**
16	IHT 116	HHB 67 Imp. (Check)	2824	2848	3032	5676	2407	3995	4616	**3567**	6543	2259	**4401**	5004	4444	**4724**	**3965**	**17**
17	IHT 117	MH 2900	2824	3469	3639	5417	2963	3611	4403	**3786**	5123	3769	**4446**	6276	5787	**6031**	**4367**	**14**
18	IHT 118	MH 2901	2662	2465	3056	4259	2315	3519	3579	**3056**	10556	2157	**6356**	5057	2690	**3873**	**3879**	**20**
19	IHT 119	MH 2902	3148	3764	3264	3762	3287	4074	5259	**3747**	8704	1889	**5296**	6161	5278	**5719**	**4452**	**12**
20	IHT 120	AHB 1200 (Check)	2546	3584	3565	3847	3125	4676	3843	**3418**	6667	3213	**4940**	4590	3380	**3985**	**3836**	**21**
21	IHT 121	MH 2903	2894	3468	3102	6250	2963	3519	5009	**3948**	7222	2852	**5037**	4746	8519	**6632**	**4702**	**7**
22	IHT 122	MPMH 35 (Check)	3032	4099	3773	3271	3009	3056	4935	**3687**	10123	4074	**7099**	5275	3194	**4235**	**4479**	**11**
23	IHT 123	MH 2904	3171	3886	3380	5648	2778	3704	3528	**3732**	10556	3231	**6894**	4394	4537	**4466**	**4511**	**10**
		LOC. MEAN	**2947**	**3470**	**3525**	**4526**	**2794**	**3982**	**4464**	**3621**	**7879**	**3121**	**5500**	**6136**	**6113**	**6124**	**4497**	
		C.D. (5%)	**619**	**1136**	**590**	**729**	**816**	**2537**	**734**	**646**	**1213**	**520**	**2950**	**1336**	**2315**	**2077**	**956**	
		C.D. (1%)	**827**	**1519**	**788**	**974**	**1090**	**3389**	**981**	**854**	**1622**	**695**	**4016**	**1786**	**3094**	**2828**	**1261**	
		C.V. (%)	**12.8**	**19.9**	**10.2**	**9.8**	**17.8**	**38.7**	**10.0**	**15.6**	**9.3**	**10.1**	**25.8**	**13.2**	**23.0**	**16.3**	**24.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.792**	**0.000**	**0.000**	**0.239**	**0.000**	**0.000**	**0.000**	**0.002**	
		PLOT SIZE (m^2)	**7.20**	**7.20**	**7.20**	**7.20**	**7.20**	**7.20**	**7.20**	**-**	**5.40**	**7.20**	**-**	**7.20**	**7.20**	**-**	**-**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e. > 30%): JLR 38.7%**

Table I.22: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR*	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	45	46	45	52	45	44	47	**46**	50	44	**47**	51	52	**51**	**47**	**3**
2	IHT 102	MH 2888	47	46	47	46	44	45	42	**46**	50	44	**47**	48	49	**48**	**47**	**8**
3	IHT 103	PB 1756 (Check)	44	45	44	46	46	45	59	**45**	47	45	**46**	45	46	**45**	**45**	**16**
4	IHT 104	MH 2889	47	45	48	48	47	46	46	**47**	48	43	**45**	49	50	**50**	**47**	**6**
5	IHT 105	MH 2890	47	45	44	42	51	44	56	**46**	45	43	**44**	45	45	**45**	**45**	**15**
6	IHT 106	MH 2891	46	46	43	48	50	44	47	**46**	49	42	**46**	46	47	**46**	**46**	**9**
7	IHT 107	MH 2892	47	45	44	48	41	44	42	**45**	47	42	**44**	46	47	**47**	**45**	**17**
8	IHT 108	MH 2893	45	45	44	44	42	43	48	**44**	49	42	**45**	45	46	**45**	**44**	**21**
9	IHT 109	MH 2894	46	48	48	53	41	44	50	**47**	50	47	**49**	53	53	**53**	**48**	**1**
10	IHT 110	RHB 223 (Check)	46	-	50	50	40	44	43	**46**	-	-	**-**	-	-	**-**	**46**	**10**
11	IHT 111	MH 2895	44	46	45	43	39	44	53	**43**	49	43	**46**	50	51	**50**	**45**	**13**
12	IHT 112	MH 2896	44	45	45	45	40	43	55	**44**	48	43	**45**	48	48	**48**	**45**	**19**
13	IHT 113	MH 2897	45	45	44	47	49	45	50	**46**	45	42	**44**	48	49	**48**	**46**	**11**
14	IHT 114	MH 2898	45	44	45	51	47	43	51	**46**	50	44	**47**	50	51	**51**	**47**	**5**
15	IHT 115	MH 2899	44	46	44	50	46	43	48	**46**	48	44	**46**	55	55	**55**	**48**	**2**
16	IHT 116	HHB 67 Imp. (Check)	44	44	42	44	49	43	43	**44**	48	44	**46**	44	45	**44**	**45**	**20**
17	IHT 117	MH 2900	45	45	44	44	41	44	43	**44**	50	41	**46**	49	50	**50**	**45**	**15**
18	IHT 118	MH 2901	45	45	43	44	48	43	44	**45**	42	42	**42**	45	45	**45**	**44**	**22**
19	IHT 119	MH 2902	45	45	43	46	51	44	56	**46**	43	43	**43**	46	47	**47**	**45**	**14**
20	IHT 120	AHB 1200 (Check)	47	46	49	50	41	43	41	**46**	47	45	**46**	51	51	**51**	**47**	**7**
21	IHT 121	MH 2903	46	43	45	46	47	43	44	**45**	43	42	**43**	50	51	**51**	**46**	**12**
22	IHT 122	MPMH 35 (Check)	47	44	43	43	47	44	49	**45**	45	42	**44**	46	47	**47**	**45**	**18**
23	IHT 123	MH 2904	46	46	48	52	40	42	46	**46**	44	46	**45**	54	54	**54**	**47**	**4**
		LOC. MEAN	**46**	**45**	**45**	**47**	**45**	**44**	**48**	**45**	**47**	**43**	**45**	**48**	**49**	**49**	**46**	
		C.D. (5%)	**2.0**	**1.0**	**2.0**	**4.0**	**3.0**	**2.0**	**4.0**	**3.0**	**2.0**	**3.0**	**4.0**	**3.0**	**2.0**	**0.0**	**2.0**	
		C.D. (1%)	**2.0**	**2.0**	**2.0**	**6.0**	**5.0**	**3.0**	**6.0**	**4.0**	**3.0**	**4.0**	**5.0**	**5.0**	**3.0**	**0.0**	**3.0**	
		C.V. (%)	**2.1**	**2.0**	**2.4**	**5.3**	**4.7**	**3.2**	**5.5**	**5.1**	**2.5**	**3.7**	**4.3**	**4.4**	**2.6**	**2.0**	**5.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.327**	**0.000**	**0.000**	**0.186**	**0.000**	**0.000**	**0.000**	**0.000**	

***LOCATION REJECTED DUE TO DELAYED FLOWERING IN CHECKS**

Table I.23: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 DAYS TO MATURITY ZONE A1

S.No.	TEST CODE	ENTRY	MDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	76	76	82	78	72	82	**78**	81	78	77	**77**	**78**	**4**
2	IHT 102	MH 2888	77	77	71	77	74	80	**76**	82	74	74	**74**	**76**	**9**
3	IHT 103	PB 1756 (Check)	75	73	74	79	75	85	**77**	81	73	70	**72**	**76**	**8**
4	IHT 104	MH 2889	78	78	73	79	77	81	**78**	82	76	75	**75**	**78**	**5**
5	IHT 105	MH 2890	78	74	67	78	71	80	**75**	80	72	71	**72**	**75**	**19**
6	IHT 106	MH 2891	77	74	77	77	70	76	**75**	78	72	71	**72**	**75**	**18**
7	IHT 107	MH 2892	77	74	74	77	78	75	**76**	79	73	72	**72**	**75**	**14**
8	IHT 108	MH 2893	76	74	69	79	73	76	**75**	78	72	71	**72**	**74**	**21**
9	IHT 109	MH 2894	76	78	82	75	82	77	**78**	76	80	79	**80**	**78**	**3**
10	IHT 110	RHB 223 (Check)	75	79	76	79	69	75	**76**	-	-	-	**-**	**76**	**12**
11	IHT 111	MH 2895	75	74	70	79	70	80	**75**	80	77	75	**76**	**76**	**11**
12	IHT 112	MH 2896	75	74	71	78	74	74	**74**	80	74	74	**74**	**75**	**16**
13	IHT 113	MH 2897	75	74	72	79	77	75	**75**	79	74	73	**74**	**75**	**13**
14	IHT 114	MH 2898	75	75	77	78	75	79	**77**	82	77	76	**77**	**77**	**7**
15	IHT 115	MH 2899	75	74	80	78	80	81	**78**	81	82	81	**81**	**79**	**1**
16	IHT 116	HHB 67 Imp. (Check)	75	72	75	79	71	81	**76**	80	70	70	**70**	**75**	**18**
17	IHT 117	MH 2900	75	74	69	76	70	75	**73**	84	75	75	**75**	**75**	**17**
18	IHT 118	MH 2901	75	73	71	78	79	74	**75**	79	72	71	**71**	**75**	**20**
19	IHT 119	MH 2902	75	73	72	76	74	79	**75**	81	74	72	**73**	**75**	**15**
20	IHT 120	AHB 1200 (Check)	78	78	75	76	83	72	**77**	83	77	77	**77**	**78**	**6**
21	IHT 121	MH 2903	67	75	70	77	79	82	**75**	80	77	76	**76**	**76**	**10**
22	IHT 122	MPMH 35 (Check)	77	73	69	77	74	81	**75**	81	73	73	**73**	**75**	**14**
23	IHT 123	MH 2904	76	78	82	76	72	79	**77**	80	81	80	**80**	**78**	**2**
		LOC. MEAN	**76**	**75**	**74**	**78**	**75**	**78**	**76**	**80**	**75**	**74**	**75**	**76**	
		C.D. (5%)	**7.0**	**2.0**	**7.0**	**1.0**	**5.0**	**4.0**	**4.0**	**3.0**	**4.0**	**3.0**	**3.0**	**3.0**	
		C.D. (1%)	**9.0**	**3.0**	**9.0**	**1.0**	**6.0**	**6.0**	**5.0**	**4.0**	**5.0**	**3.0**	**4.0**	**4.0**	
		C.V. (%)	**5.3**	**1.8**	**5.6**	**0.5**	**3.9**	**3.3**	**4.0**	**2.4**	**3.3**	**2.1**	**2.4**	**3.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.238**	**0.000**	**0.000**	**0.000**	**0.331**	**0.000**	

Table I.24: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 PLANT HEIGHT (cm) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	178	166	177	176	133	178	179	**170**	162	182	**172**	171	237	**204**	**176**	**2**
2	IHT 102	MH 2888	176	181	165	159	135	178	171	**166**	154	174	**164**	189	208	**199**	**172**	**8**
3	IHT 103	PB 1756 (Check)	179	175	155	178	136	171	179	**168**	147	189	**168**	198	224	**211**	**176**	**3**
4	IHT 104	MH 2889	175	165	162	161	139	187	177	**167**	152	167	**159**	192	223	**208**	**173**	**7**
5	IHT 105	MH 2890	176	139	148	172	138	193	165	**161**	137	149	**143**	174	198	**186**	**163**	**19**
6	IHT 106	MH 2891	176	153	167	143	141	178	184	**163**	140	168	**154**	183	207	**195**	**167**	**14**
7	IHT 107	MH 2892	172	149	158	154	139	185	181	**162**	149	159	**154**	176	217	**197**	**167**	**15**
8	IHT 108	MH 2893	173	160	174	152	141	168	170	**163**	149	164	**156**	183	223	**203**	**169**	**11**
9	IHT 109	MH 2894	168	153	153	155	144	149	179	**157**	148	165	**156**	196	219	**207**	**166**	**16**
10	IHT 110	RHB 223 (Check)	174	-	116	142	141	156	183	**152**	-	-	**-**	-	-	**-**	**152**	**23**
11	IHT 111	MH 2895	156	152	178	156	141	152	164	**157**	152	154	**153**	181	233	**207**	**165**	**18**
12	IHT 112	MH 2896	169	157	152	137	143	152	177	**155**	149	149	**149**	180	194	**187**	**160**	**21**
13	IHT 113	MH 2897	179	159	152	153	147	179	185	**165**	144	151	**148**	180	221	**200**	**168**	**13**
14	IHT 114	MH 2898	177	190	178	156	146	170	166	**169**	147	188	**168**	181	232	**207**	**176**	**4**
15	IHT 115	MH 2899	178	167	173	179	144	183	200	**175**	152	183	**168**	171	215	**193**	**177**	**1**
16	IHT 116	HHB 67 Imp. (Check)	173	158	155	126	147	176	156	**156**	138	155	**147**	175	217	**196**	**162**	**20**
17	IHT 117	MH 2900	173	170	167	157	142	190	195	**171**	146	193	**170**	179	202	**191**	**174**	**5**
18	IHT 118	MH 2901	174	165	165	163	143	192	179	**169**	146	153	**150**	184	216	**200**	**171**	**9**
19	IHT 119	MH 2902	180	165	160	140	143	166	183	**162**	152	154	**153**	182	240	**211**	**169**	**10**
20	IHT 120	AHB 1200 (Check)	163	168	146	171	142	173	164	**161**	146	155	**151**	185	213	**199**	**166**	**17**
21	IHT 121	MH 2903	176	155	142	144	145	158	174	**156**	138	142	**140**	169	198	**184**	**158**	**22**
22	IHT 122	MPMH 35 (Check)	166	161	173	176	141	153	185	**165**	159	133	**146**	191	217	**204**	**169**	**12**
23	IHT 123	MH 2904	165	173	139	182	141	173	194	**167**	158	167	**162**	188	230	**209**	**173**	**6**
		LOC. MEAN	**173**	**163**	**159**	**158**	**141**	**172**	**178**	**163**	**148**	**163**	**156**	**182**	**217**	**200**	**169**	
		C.D. (5%)	**9.0**	**23.0**	**13.0**	**11.0**	**10.0**	**24.0**	**6.0**	**11.0**	**18.0**	**14.0**	**24.0**	**9.0**	**28.0**	**20.0**	**9.0**	
		C.D. (1%)	**11.0**	**30.0**	**18.0**	**14.0**	**14.0**	**32.0**	**8.0**	**14.0**	**24.0**	**19.0**	**33.0**	**13.0**	**37.0**	**27.0**	**11.0**	
		C.V. (%)	**3.0**	**8.4**	**5.0**	**4.1**	**4.4**	**8.5**	**2.2**	**6.3**	**7.3**	**5.3**	**7.4**	**3.1**	**7.7**	**4.8**	**6.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.023**	**0.000**	**0.000**	**0.273**	**0.000**	**0.000**	**0.192**	**0.000**	

Table I.25: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	1.9	2.3	3.2	2.2	1.7	4.0	**2.5**	2.3	3.0	**2.6**	3.0	2.9	**2.9**	**2.6**	**10**
2	IHT 102	MH 2888	1.5	2.7	2.8	2.0	1.7	3.3	**2.3**	2.4	1.8	**2.1**	2.4	2.4	**2.4**	**2.3**	**22**
3	IHT 103	PB 1756 (Check)	1.7	2.7	2.7	2.2	1.4	3.9	**2.4**	2.1	1.6	**1.8**	2.8	3.1	**3.0**	**2.4**	**21**
4	IHT 104	MH 2889	1.5	2.7	2.5	2.4	2.0	4.7	**2.6**	1.9	2.3	**2.1**	2.9	2.3	**2.6**	**2.5**	**15**
5	IHT 105	MH 2890	1.4	2.7	2.2	2.3	2.5	4.2	**2.5**	2.1	1.9	**2.0**	2.2	2.8	**2.5**	**2.4**	**21**
6	IHT 106	MH 2891	1.6	2.3	3.2	2.4	2.6	3.5	**2.6**	1.8	2.7	**2.2**	2.1	2.2	**2.2**	**2.4**	**19**
7	IHT 107	MH 2892	1.3	2.7	2.7	2.5	2.4	4.4	**2.7**	2.2	3.2	**2.7**	2.6	2.7	**2.7**	**2.7**	**9**
8	IHT 108	MH 2893	1.7	3.0	3.2	2.7	2.3	3.3	**2.7**	3.0	3.1	**3.0**	2.4	2.2	**2.3**	**2.7**	**5**
9	IHT 109	MH 2894	1.9	2.7	3.3	2.5	2.3	3.3	**2.7**	3.1	2.9	**3.0**	2.7	2.5	**2.6**	**2.7**	**4**
10	IHT 110	RHB 223 (Check)	1.7	-	2.3	2.7	2.3	4.3	**2.7**	-	-	**-**	-	-	**-**	**2.7**	**8**
11	IHT 111	MH 2895	2.1	2.3	4.2	2.3	2.3	3.3	**2.8**	2.3	2.8	**2.5**	2.5	2.7	**2.6**	**2.7**	**6**
12	IHT 112	MH 2896	2.3	2.7	2.3	3.0	2.5	2.7	**2.6**	2.3	1.9	**2.1**	2.2	2.7	**2.4**	**2.4**	**18**
13	IHT 113	MH 2897	1.6	2.7	2.3	2.6	2.2	4.3	**2.6**	2.2	2.9	**2.6**	2.3	2.5	**2.4**	**2.6**	**13**
14	IHT 114	MH 2898	1.8	3.0	3.3	2.5	2.1	3.7	**2.7**	2.3	3.5	**2.9**	2.4	2.7	**2.6**	**2.7**	**2**
15	IHT 115	MH 2899	1.7	2.7	2.2	2.7	2.2	3.5	**2.5**	2.3	2.8	**2.5**	2.8	2.3	**2.6**	**2.5**	**16**
16	IHT 116	HHB 67 Imp. (Check)	1.7	3.0	3.2	2.2	2.2	3.5	**2.6**	2.7	2.9	**2.8**	2.5	2.3	**2.4**	**2.6**	**11**
17	IHT 117	MH 2900	1.9	2.7	2.8	2.5	2.1	3.0	**2.5**	2.2	2.6	**2.4**	2.8	2.1	**2.5**	**2.5**	**17**
18	IHT 118	MH 2901	1.8	2.7	2.8	2.5	2.4	3.5	**2.6**	3.1	3.1	**3.1**	2.8	2.4	**2.6**	**2.7**	**3**
19	IHT 119	MH 2902	2.2	2.7	2.8	2.5	2.3	4.3	**2.8**	3.0	2.1	**2.6**	2.7	2.8	**2.7**	**2.7**	**1**
20	IHT 120	AHB 1200 (Check)	1.3	3.0	2.7	2.4	2.5	2.4	**2.4**	3.3	2.1	**2.7**	2.0	2.6	**2.3**	**2.4**	**20**
21	IHT 121	MH 2903	1.6	2.7	2.3	2.4	2.3	3.5	**2.5**	2.6	2.3	**2.4**	2.7	2.9	**2.8**	**2.5**	**14**
22	IHT 122	MPMH 35 (Check)	1.5	3.0	2.7	2.3	2.2	4.0	**2.6**	2.9	3.1	**3.0**	2.2	2.0	**2.1**	**2.6**	**12**
23	IHT 123	MH 2904	1.9	3.0	2.2	2.7	2.8	3.8	**2.7**	2.9	2.7	**2.8**	2.1	2.6	**2.3**	**2.7**	**7**
		LOC. MEAN	**1.7**	**2.7**	**2.8**	**2.5**	**2.2**	**3.7**	**2.6**	**2.5**	**2.6**	**2.5**	**2.5**	**2.5**	**2.5**	**2.6**	
		C.D. (5%)	**0.3**	**0.8**	**0.5**	**0.6**	**0.6**	**0.7**	**0.4**	**0.3**	**0.6**	**1.2**	**0.4**	**0.7**	**0.8**	**0.4**	
		C.D. (1%)	**0.4**	**1.1**	**0.7**	**0.9**	**0.8**	**0.9**	**0.5**	**0.4**	**0.8**	**1.6**	**0.5**	**0.9**	**1.1**	**0.5**	
		C.V. (%)	**10.1**	**18.2**	**11.1**	**15.9**	**15.7**	**11.8**	**13.1**	**8.1**	**13.9**	**19.0**	**8.6**	**16.6**	**15.7**	**14.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.291**	**0.000**	**0.000**	**0.948**	**0.000**	**0.000**	**0.348**	**0.198**	

Table I.26: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 PANICLE LENGTH (cm) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	23	23	21	22	25	25	24	**23**	22	24	**23**	25	23	**24**	**23**	**10**
2	IHT 102	MH 2888	22	26	21	22	26	26	25	**24**	20	26	**23**	23	25	**24**	**24**	**4**
3	IHT 103	PB 1756 (Check)	25	28	22	24	25	22	21	**24**	19	25	**22**	24	24	**24**	**24**	**8**
4	IHT 104	MH 2889	22	24	22	23	25	26	21	**23**	22	25	**24**	26	27	**26**	**24**	**5**
5	IHT 105	MH 2890	24	22	24	19	25	25	22	**23**	18	22	**20**	22	23	**22**	**23**	**20**
6	IHT 106	MH 2891	23	24	23	19	27	26	23	**24**	23	21	**22**	22	24	**23**	**23**	**14**
7	IHT 107	MH 2892	20	21	23	22	26	25	23	**23**	20	24	**22**	23	26	**25**	**23**	**15**
8	IHT 108	MH 2893	20	27	25	22	26	25	26	**24**	20	22	**21**	23	26	**25**	**24**	**6**
9	IHT 109	MH 2894	21	27	22	22	26	25	20	**23**	22	24	**23**	24	24	**24**	**23**	**9**
10	IHT 110	RHB 223 (Check)	23	-	21	22	27	26	25	**24**	-	-	**-**	-	-	**-**	**24**	**3**
11	IHT 111	MH 2895	20	26	24	22	25	24	20	**23**	22	22	**22**	23	25	**24**	**23**	**17**
12	IHT 112	MH 2896	22	22	21	17	26	24	20	**22**	20	23	**22**	21	24	**22**	**22**	**22**
13	IHT 113	MH 2897	21	28	22	19	27	26	21	**23**	20	20	**20**	23	26	**24**	**23**	**16**
14	IHT 114	MH 2898	22	26	27	20	26	27	19	**24**	21	24	**22**	20	25	**22**	**23**	**13**
15	IHT 115	MH 2899	21	27	26	23	26	25	24	**24**	22	25	**23**	21	24	**23**	**24**	**2**
16	IHT 116	HHB 67 Imp. (Check)	20	23	26	19	26	25	29	**24**	19	22	**21**	21	25	**23**	**23**	**12**
17	IHT 117	MH 2900	20	28	27	22	25	24	26	**25**	22	23	**23**	22	25	**24**	**24**	**1**
18	IHT 118	MH 2901	20	22	23	17	26	25	23	**22**	19	20	**20**	22	24	**23**	**22**	**21**
19	IHT 119	MH 2902	21	22	25	18	27	24	27	**23**	20	21	**21**	21	23	**22**	**23**	**19**
20	IHT 120	AHB 1200 (Check)	22	27	21	18	26	24	28	**24**	22	24	**23**	22	23	**22**	**23**	**11**
21	IHT 121	MH 2903	23	25	26	19	26	26	25	**24**	23	22	**22**	21	23	**22**	**24**	**7**
22	IHT 122	MPMH 35 (Check)	21	21	22	18	26	26	23	**22**	22	23	**22**	23	26	**25**	**23**	**18**
23	IHT 123	MH 2904	21	24	25	23	26	25	26	**24**	20	26	**23**	22	27	**24**	**24**	**1**
		LOC. MEAN	**22**	**25**	**23**	**20**	**26**	**25**	**24**	**24**	**21**	**23**	**22**	**22**	**25**	**23**	**23**	
		C.D. (5%)	**2.0**	**3.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**2.0**	**3.0**	**4.0**	**3.0**	**2.0**	**3.0**	**2.0**	**1.0**	
		C.D. (1%)	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	**4.0**	**4.0**	**3.0**	**4.0**	**5.0**	**4.0**	**2.0**	**4.0**	**3.0**	**2.0**	
		C.V. (%)	**6.1**	**6.1**	**5.9**	**6.3**	**5.8**	**6.9**	**8.5**	**8.0**	**9.7**	**9.4**	**6.8**	**4.5**	**7.9**	**4.8**	**7.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.373**	**0.000**	**0.000**	**0.395**	**0.000**	**0.000**	**0.087**	**0.088**	

Table I.27: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	2.5	2.9	2.9	3.2	2.9	3.6	3.0	**3.0**	3.0	3.4	**3.2**	3.3	3.6	**3.4**	**3.1**	**2**
2	IHT 102	MH 2888	2.7	2.8	2.5	2.7	2.6	2.7	2.3	**2.6**	2.8	3.2	**3.0**	3.4	3.5	**3.5**	**2.8**	**9**
3	IHT 103	PB 1756 (Check)	2.6	3.1	2.5	2.3	2.5	3.2	2.3	**2.6**	2.4	2.6	**2.5**	3.1	3.2	**3.1**	**2.7**	**16**
4	IHT 104	MH 2889	2.5	3.0	2.6	2.5	2.7	2.7	3.6	**2.8**	2.3	3.0	**2.6**	3.4	3.6	**3.5**	**2.9**	**7**
5	IHT 105	MH 2890	2.4	3.1	2.6	2.5	2.6	3.8	2.2	**2.7**	2.7	2.8	**2.8**	3.2	3.4	**3.3**	**2.8**	**8**
6	IHT 106	MH 2891	2.4	2.9	2.5	2.3	3.0	2.8	2.5	**2.6**	2.7	3.1	**2.9**	3.2	3.2	**3.2**	**2.8**	**12**
7	IHT 107	MH 2892	2.5	2.6	2.1	2.2	3.0	3.2	3.3	**2.7**	2.3	2.8	**2.6**	3.0	3.1	**3.1**	**2.7**	**14**
8	IHT 108	MH 2893	2.4	2.8	2.3	2.2	2.9	3.2	2.9	**2.7**	2.5	2.8	**2.6**	2.9	3.1	**3.0**	**2.7**	**15**
9	IHT 109	MH 2894	2.3	3.6	2.9	3.0	3.2	3.0	2.5	**2.9**	2.8	3.3	**3.0**	3.5	3.5	**3.5**	**3.0**	**4**
10	IHT 110	RHB 223 (Check)	2.5	-	2.2	2.1	3.1	3.0	3.2	**2.7**	-	-	**-**	-	-	**-**	**2.7**	**18**
11	IHT 111	MH 2895	2.4	2.9	2.7	2.8	3.1	3.0	2.9	**2.8**	2.4	2.8	**2.6**	3.1	3.0	**3.1**	**2.8**	**10**
12	IHT 112	MH 2896	2.6	3.5	3.1	3.0	3.1	3.2	3.3	**3.1**	3.1	3.3	**3.2**	2.7	3.6	**3.1**	**3.1**	**1**
13	IHT 113	MH 2897	2.5	3.2	2.6	2.8	3.1	3.6	2.3	**2.9**	2.7	2.8	**2.7**	3.2	3.4	**3.3**	**2.9**	**6**
14	IHT 114	MH 2898	2.4	2.6	2.3	2.3	3.2	3.2	2.6	**2.7**	2.3	2.5	**2.4**	2.8	2.9	**2.9**	**2.6**	**19**
15	IHT 115	MH 2899	2.4	2.9	2.6	2.7	2.8	3.6	1.8	**2.7**	2.4	2.9	**2.7**	3.0	3.1	**3.0**	**2.7**	**13**
16	IHT 116	HHB 67 Imp. (Check)	2.3	2.9	2.2	1.8	3.0	2.7	2.5	**2.5**	2.1	2.5	**2.3**	2.5	3.0	**2.8**	**2.5**	**22**
17	IHT 117	MH 2900	2.4	3.3	3.0	3.0	2.9	3.1	2.5	**2.9**	2.4	3.3	**2.9**	3.2	3.3	**3.3**	**3.0**	**5**
18	IHT 118	MH 2901	2.3	2.6	2.3	2.4	2.8	2.8	2.3	**2.5**	2.1	2.5	**2.3**	2.5	3.1	**2.8**	**2.5**	**21**
19	IHT 119	MH 2902	2.4	2.5	2.2	2.4	2.9	3.4	2.2	**2.6**	1.9	2.3	**2.1**	2.5	2.8	**2.7**	**2.5**	**23**
20	IHT 120	AHB 1200 (Check)	2.6	4.2	2.9	3.0	2.8	3.5	2.8	**3.1**	2.9	3.3	**3.1**	2.7	3.5	**3.1**	**3.1**	**3**
21	IHT 121	MH 2903	2.3	2.5	2.6	2.5	2.8	3.6	2.7	**2.7**	2.3	2.6	**2.5**	2.7	2.9	**2.8**	**2.7**	**17**
22	IHT 122	MPMH 35 (Check)	2.4	2.6	2.4	2.3	2.8	3.3	2.7	**2.6**	2.4	2.5	**2.5**	2.5	2.8	**2.7**	**2.6**	**20**
23	IHT 123	MH 2904	2.5	2.7	2.6	3.0	2.8	2.9	2.2	**2.7**	2.5	3.2	**2.9**	2.7	3.7	**3.2**	**2.8**	**11**
		LOC. MEAN	**2.4**	**3.0**	**2.5**	**2.6**	**2.9**	**3.2**	**2.6**	**2.7**	**2.5**	**2.9**	**2.7**	**3.0**	**3.2**	**3.1**	**2.8**	
		C.D. (5%)	**0.3**	**0.5**	**0.3**	**0.4**	**0.5**	**0.9**	**0.5**	**0.3**	**0.4**	**0.5**	**0.3**	**0.2**	**0.5**	**0.4**	**0.2**	
		C.D. (1%)	**0.4**	**0.6**	**0.4**	**0.5**	**0.6**	**1.2**	**0.7**	**0.4**	**0.5**	**0.7**	**0.4**	**0.3**	**0.7**	**0.6**	**0.3**	
		C.V. (%)	**8.2**	**9.7**	**7.7**	**9.2**	**9.7**	**16.6**	**11.5**	**10.5**	**9.1**	**10.6**	**5.5**	**4.8**	**9.4**	**6.4**	**9.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.003**	**0.000**	

Table I.28: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 1000-SEED Wt.(g) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	8.3	12.4	11.0	8.8	6.7	6.3	6.1	**8.5**	9.0	9.8	**9.4**	10.3	12.4	**11.4**	**9.2**	**2**
2	IHT 102	MH 2888	8.4	12.0	9.7	9.2	7.0	6.6	5.4	**8.3**	10.6	10.2	**10.4**	9.5	10.6	**10.0**	**9.0**	**4**
3	IHT 103	PB 1756 (Check)	8.6	12.5	11.3	9.8	7.7	7.3	4.7	**8.8**	8.5	9.8	**9.2**	10.6	12.3	**11.5**	**9.4**	**1**
4	IHT 104	MH 2889	7.7	12.1	9.9	7.9	7.0	7.3	7.0	**8.4**	7.3	10.0	**8.7**	10.5	11.0	**10.7**	**8.9**	**6**
5	IHT 105	MH 2890	7.6	8.9	9.2	10.3	6.3	7.0	5.6	**7.8**	8.3	9.8	**9.1**	7.7	8.1	**7.9**	**8.1**	**19**
6	IHT 106	MH 2891	7.2	12.4	9.1	9.3	6.4	7.2	5.4	**8.1**	6.7	9.5	**8.1**	9.0	11.8	**10.4**	**8.5**	**12**
7	IHT 107	MH 2892	7.6	10.5	8.5	10.2	6.5	7.5	5.1	**8.0**	10.6	10.1	**10.4**	9.3	8.8	**9.1**	**8.6**	**9**
8	IHT 108	MH 2893	7.6	9.5	10.6	10.5	6.1	6.7	8.2	**8.5**	9.0	9.9	**9.5**	8.8	8.0	**8.4**	**8.6**	**8**
9	IHT 109	MH 2894	6.7	9.5	10.6	9.1	7.1	7.0	5.6	**7.9**	6.9	9.6	**8.2**	8.9	9.9	**9.4**	**8.3**	**18**
10	IHT 110	RHB 223 (Check)	7.8	-	10.1	8.7	6.8	6.6	8.1	**8.0**	-	-	**-**	-	-	**-**	**8.0**	**20**
11	IHT 111	MH 2895	8.0	9.7	10.3	10.5	6.5	6.8	7.6	**8.5**	6.6	10.1	**8.3**	9.1	9.1	**9.1**	**8.6**	**10**
12	IHT 112	MH 2896	7.6	9.7	11.0	9.6	6.7	7.0	6.7	**8.3**	8.4	9.0	**8.7**	8.4	10.1	**9.3**	**8.6**	**11**
13	IHT 113	MH 2897	7.4	9.8	9.6	8.8	6.5	7.4	6.5	**8.0**	9.5	9.8	**9.7**	9.3	8.8	**9.1**	**8.5**	**13**
14	IHT 114	MH 2898	7.1	9.4	7.9	8.6	6.3	6.6	4.6	**7.2**	7.3	9.8	**8.6**	8.8	8.2	**8.5**	**7.7**	**22**
15	IHT 115	MH 2899	8.3	9.4	8.4	8.6	5.9	7.3	5.7	**7.7**	7.0	9.8	**8.4**	8.1	9.1	**8.6**	**8.0**	**21**
16	IHT 116	HHB 67 Imp. (Check)	7.7	9.8	9.4	10.4	6.7	7.0	6.5	**8.2**	6.8	10.1	**8.4**	8.6	8.5	**8.5**	**8.3**	**17**
17	IHT 117	MH 2900	7.5	11.6	10.9	10.0	6.5	7.3	5.7	**8.5**	8.9	10.1	**9.5**	9.4	12.0	**10.7**	**9.1**	**3**
18	IHT 118	MH 2901	8.4	10.9	10.2	10.0	6.7	7.4	4.7	**8.3**	8.4	10.1	**9.3**	8.4	9.8	**9.1**	**8.6**	**7**
19	IHT 119	MH 2902	8.0	9.7	9.9	9.6	6.5	7.9	5.3	**8.1**	7.9	10.3	**9.1**	9.2	9.2	**9.2**	**8.5**	**14**
20	IHT 120	AHB 1200 (Check)	7.0	9.4	10.7	9.5	6.6	7.9	6.6	**8.2**	11.8	9.8	**10.8**	8.4	10.3	**9.3**	**8.9**	**5**
21	IHT 121	MH 2903	7.1	8.3	7.9	9.2	7.0	8.0	5.8	**7.6**	5.4	9.6	**7.5**	7.4	7.1	**7.2**	**7.5**	**23**
22	IHT 122	MPMH 35 (Check)	7.9	10.5	9.4	9.6	6.7	8.0	6.6	**8.4**	7.3	10.2	**8.8**	8.9	8.0	**8.4**	**8.5**	**15**
23	IHT 123	MH 2904	6.9	10.1	9.2	9.7	6.5	8.0	6.8	**8.2**	7.6	10.0	**8.8**	8.0	10.1	**9.0**	**8.4**	**16**
		LOC. MEAN	**7.7**	**10.4**	**9.8**	**9.5**	**6.6**	**7.2**	**6.1**	**8.2**	**8.2**	**9.9**	**9.0**	**8.9**	**9.7**	**9.3**	**8.5**	
		C.D. (5%)	**0.9**	**0.6**	**1.0**	**0.8**	**0.8**	**0.7**	**0.4**	**0.8**	**0.8**	**0.5**	**2.2**	**0.8**	**1.6**	**1.7**	**0.7**	
		C.D. (1%)	**1.2**	**0.8**	**1.3**	**1.1**	**1.0**	**0.9**	**0.5**	**1.1**	**1.1**	**0.7**	**3.0**	**1.1**	**2.2**	**2.3**	**1.0**	
		C.V. (%)	**7.1**	**3.6**	**6.3**	**5.2**	**7.1**	**5.5**	**3.6**	**9.7**	**6.2**	**3.0**	**11.9**	**5.4**	**10.2**	**8.8**	**10.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.096**	**0.000**	**0.000**	**0.425**	**0.000**	**0.000**	**0.003**	**0.000**	

Table I.29: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 POPULATION AT HARVEST (No./plot) ZONE A1

S.No.	TEST CODE	ENTRY	MDR	BKR	SDR	JLR	RAJ MEAN	SKN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	IHT 101	MH 2887	73	67	82	80	**75**	75	82	66	**74**	**75**	**18**
2	IHT 102	MH 2888	67	77	84	85	**78**	78	83	64	**74**	**77**	**12**
3	IHT 103	PB 1756 (Check)	72	77	83	93	**81**	77	91	64	**78**	**80**	**4**
4	IHT 104	MH 2889	77	71	60	83	**73**	80	86	66	**76**	**75**	**20**
5	IHT 105	MH 2890	73	69	83	86	**78**	78	95	55	**75**	**77**	**13**
6	IHT 106	MH 2891	74	72	69	83	**75**	76	81	64	**73**	**74**	**21**
7	IHT 107	MH 2892	72	77	89	82	**80**	80	88	62	**75**	**79**	**7**
8	IHT 108	MH 2893	81	73	80	72	**77**	74	90	64	**77**	**76**	**15**
9	IHT 109	MH 2894	85	77	94	71	**82**	78	93	63	**78**	**80**	**3**
10	IHT 110	RHB 223 (Check)	75	77	85	89	**82**	-	-	-	**-**	**82**	**1**
11	IHT 111	MH 2895	73	72	83	84	**78**	75	94	69	**82**	**79**	**6**
12	IHT 112	MH 2896	82	77	80	81	**80**	79	83	60	**72**	**77**	**10**
13	IHT 113	MH 2897	76	72	87	92	**82**	75	82	62	**72**	**78**	**8**
14	IHT 114	MH 2898	75	70	100	72	**79**	82	77	63	**70**	**77**	**11**
15	IHT 115	MH 2899	80	68	81	75	**76**	79	76	54	**65**	**73**	**23**
16	IHT 116	HHB 67 Imp. (Check)	78	71	92	76	**79**	81	73	54	**63**	**75**	**17**
17	IHT 117	MH 2900	75	71	88	80	**78**	80	82	61	**72**	**77**	**14**
18	IHT 118	MH 2901	73	73	84	84	**79**	77	73	59	**66**	**75**	**19**
19	IHT 119	MH 2902	83	68	91	90	**83**	77	94	60	**77**	**81**	**2**
20	IHT 120	AHB 1200 (Check)	67	72	89	85	**78**	84	86	52	**69**	**76**	**16**
21	IHT 121	MH 2903	71	70	86	87	**79**	75	89	64	**77**	**78**	**9**
22	IHT 122	MPMH 35 (Check)	71	72	89	79	**78**	77	74	53	**63**	**73**	**22**
23	IHT 123	MH 2904	76	70	100	83	**82**	77	89	60	**74**	**79**	**5**
		LOC. MEAN	**75**	**72**	**85**	**82**	**79**	**78**	**85**	**61**	**73**	**77**	
		C.D. (5%)	**11.0**	**8.0**	**14.0**	**17.0**	**8.0**	**6.0**	**9.0**	**11.0**	**17.0**	**9.0**	
		C.D. (1%)	**15.0**	**11.0**	**18.0**	**23.0**	**11.0**	**7.0**	**12.0**	**14.0**	**23.0**	**12.0**	
		C.V. (%)	**9.2**	**6.7**	**9.7**	**12.5**	**5.5**	**4.3**	**6.6**	**10.7**	**12.5**	**8.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.540**	**0.000**	**0.000**	**0.000**	**0.825**	**0.000**	

Table I.30: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE A1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	RAJ MEAN	HSR	ZONE MEAN	RANK
1	IHT 101	MH 2887	67	75	53	**65**	91	**72**	**12**
2	IHT 102	MH 2888	69	75	58	**67**	90	**73**	**9**
3	IHT 103	PB 1756 (Check)	78	73	43	**65**	89	**71**	**14**
4	IHT 104	MH 2889	76	73	55	**68**	92	**74**	**4**
5	IHT 105	MH 2890	82	80	53	**72**	88	**76**	**2**
6	IHT 106	MH 2891	80	72	48	**67**	90	**73**	**10**
7	IHT 107	MH 2892	78	73	47	**66**	93	**73**	**8**
8	IHT 108	MH 2893	74	72	52	**66**	91	**72**	**11**
9	IHT 109	MH 2894	78	77	53	**69**	87	**74**	**5**
10	IHT 110	RHB 223 (Check)	79	-	52	**65**	-	**65**	**22**
11	IHT 111	MH 2895	47	77	47	**57**	88	**65**	**23**
12	IHT 112	MH 2896	48	77	55	**60**	89	**67**	**21**
13	IHT 113	MH 2897	53	78	48	**60**	90	**67**	**20**
14	IHT 114	MH 2898	77	70	52	**66**	94	**73**	**7**
15	IHT 115	MH 2899	61	77	48	**62**	91	**69**	**18**
16	IHT 116	HHB 67 Imp. (Check)	65	78	48	**64**	86	**70**	**16**
17	IHT 117	MH 2900	61	73	55	**63**	86	**69**	**19**
18	IHT 118	MH 2901	64	77	53	**65**	89	**71**	**15**
19	IHT 119	MH 2902	82	78	58	**73**	89	**77**	**1**
20	IHT 120	AHB 1200 (Check)	72	82	50	**68**	90	**74**	**6**
21	IHT 121	MH 2903	85	80	47	**71**	92	**76**	**3**
22	IHT 122	MPMH 35 (Check)	77	70	50	**66**	87	**71**	**13**
23	IHT 123	MH 2904	69	73	45	**63**	89	**69**	**17**
		LOC. MEAN	**71**	**75**	**51**	**66**	**90**	**72**	
		C.D. (5%)	**12.0**	**9.0**	**11.0**	**12.0**	**5.0**	**12.0**	
		C.D. (1%)	**16.0**	**12.0**	**14.0**	**16.0**	**6.0**	**16.0**	
		C.V. (%)	**10.6**	**7.0**	**12.6**	**10.9**	**3.1**	**10.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.588**	**0.000**	**0.588**	

Table I.31: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 ZONE A1
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	JDR	BKR	FTR	NGR	SKN	KTR	BWL	HSR	ZONE MEAN	RANK
1	IHT 101	MH 2887	30	34	26	28	36	52	44	52	**38**	**6**
2	IHT 103	PB 1756 (Check)	35	44	37	47	40	41	67	64	**47**	**4**
3	IHT 104	MH 2889	41	61	36	42	50	53	61	76	**53**	**2**
4	IHT 110	RHB 223 (Check)	41	66	35	-	-	-	-	66	**52**	**3**
5	IHT 111	MH 2895	36	41	42	38	41	56	49	55	**45**	**5**
6	IHT 116	HHB 67 Imp. (Check)	39	43	34	43	48	55	61	49	**47**	**4**
7	IHT 120	AHB 1200 (Check)	52	59	46	61	62	41	77	72	**59**	**1**
8	IHT 122	MPMH 35 (Check)	35	42	36	47	49	48	50	73	**47**	**4**

Table I.32: INITIAL HYBRID TRIAL (Early) KHARIF - 2025 ZONE A1
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	JDR	BKR	FTR	NGR	SKN	KTR	BWL	HSR	ZONE MEAN	RANK
1	IHT 101	MH 2887	30	34	21	29	31	47	29	44	**33**	**6**
2	IHT 103	PB 1756 (Check)	37	44	27	39	34	40	37	47	**38**	**5**
3	IHT 104	MH 2889	44	50	24	40	44	47	45	57	**44**	**2**
4	IHT 110	RHB 223 (Check)	42	66	24	-	-	-	-	49	**45**	**1**
5	IHT 111	MH 2895	38	43	23	33	34	55	32	46	**38**	**5**
6	IHT 116	HHB 67 Imp. (Check)	44	46	34	36	37	55	37	44	**42**	**4**
7	IHT 120	AHB 1200 (Check)	46	58	31	32	39	42	36	58	**43**	**3**
8	IHT 122	MPMH 35 (Check)	41	46	26	42	35	54	33	57	**42**	**4**

Table I.33: INITIAL HYBRID TRIAL (Medium) KHARIF 2025 EXPERIMENTAL DETAILS ZONE A

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers			Insecticide
							N	P	K	
RAJASTHAN										
Mandor (AICRP-PM)	SL	8.2	04.7.25	06.10.25	15.8.25	Nil	40	20	0	Nil
Bikaner (SKRAU)	S	8.0	10.7.25	26.10.25	10.8.25	30.9.25	40	20	0	Nil
Jaipur (SKNAU)	SL	-	15.7.25	06.10.25	21.7.25	Nil	40	30	0	Nil
Jaipur (Corteva)	L	7.5	01.7.25	10.10.25	25.7.25	Life Saving	88	60	0	Dantotsu-Clothianidin, Cypermethrin
Alwar (Kaveri Seed)	S	7.6	12.7.25	10.10.25	0 5.8.25	Nil	75	46	45	Chloropyriphos Cypermethrine
Dausa (Rasi Seeds)	SL	-	22.6.25	21.9.25	10.7.25	Nil	10	10	2	Nil
GUJARAT										
Talaja (JAU)	MB	-	03.8.25	25.10.25	30.8.25	Nil	80	40	0	Nil
Anand (AAU)	SL	-	18.7.25	28.10.25	04.8,19.8.25	Nil	80	40	0	Emamectin, Quinalphos
Jamnagar (JAU)	MB	7.6	30.6.25	09.10.25	13.7,22.7,28.7.25	09.8.25	80	40	0	Nil
Kothara (SDAU)	SL	7.5	15.7.25	12.11.25	08.8.25	Nil	80	40	0	Nil
Deesa (SDAU)	SL	-	02.7.25	27.10.25	02.7.25	Nil	80	40	0	Nil
UTTAR PRADESH										
Mathura (Kamadgiri)	SL	-	21.7.25	12.10.25	-	Nil	80	40	40	Chloropyriphos Cypermethrine
HARYANA										
Hisar (CCSHAU)	SL	-	10.7.25	10.10.25	-	25.7.25	100	40	0	Nil
Bawal (CCSHAU)	LS	8.2	25.7.25	17.10.25	29.8,15.9.25	Nil	40	20	30	Nil
MADHYA PRADESH										
Gwalior (RVSKVV)	SL	7.1	19.7.25	26.10.25	20.8.25	14.8.25	60	40	20	Nil
PUNJAB										
Ludhiana (PAU)	SL	-	04.7.25	22.11.25	30.7, 29.8.25	30.7, 30.8, 01.10.25	100	60	0	Nil
DELHI										
New Delhi (ICAR-IARI)	SL	7.8	27.6.25	21.10.25	-	Nil	60	40	40	Nil

SL = Sandy Loam, MB = Medium Black, S = Sandy, LS = Loamy Sand, L = Loam.

Table I.34: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR***	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	3009	755	3067	4595	2981	2623	**3255**	2506	4683	3438	1773	1287	**2737**
2	IHT 202	MH 2906	3009	1111	2689	4766	3458	2895	**3364**	3433	4137	3303	2198	1463	**2907**
3	IHT 203	MH 2907	2384	532	4756	4822	4261	3509	**3946**	3444	3566	2556	2460	1324	**2670**
4	IHT 204	MH 2908	2593	500	2200	2688	2136	3071	**2537**	2206	1601	1944	1176	769	**1539**
5	IHT 205	MH 2909	2963	444	1961	3945	3314	3139	**3064**	2417	3789	3668	2365	1213	**2691**
6	IHT 206	MH 2910	3009	1088	4178	4278	3686	4028	**3836**	2656	2634	2985	2711	1009	**2399**
7	IHT 207	MH 2911	2824	556	3239	3820	3178	3040	**3220**	2556	3910	3202	1866	1417	**2590**
8	IHT 208	PB 1852 (Check)	2917	856	3106	5090	4406	3210	**3746**	2567	4548	3620	3349	1676	**3152**
9	IHT 209	MH 2912	2801	810	4122	4654	3239	3256	**3614**	2556	4339	3610	2649	2139	**3059**
10	IHT 210	MH 2913	2500	625	2200	3500	3239	3707	**3029**	2611	2083	2162	2184	1444	**2097**
11	IHT 211	MH 2914	2778	782	1806	3863	2703	3321	**2894**	2961	3725	3036	2059	1120	**2580**
12	IHT 212	DHBH 1397 (Check)	2574	625	2536	3027	5478	3460	**3415**	2961	3582	2463	1956	1829	**2558**
13	IHT 213	MH 2915	2454	741	2389	3431	2658	3623	**2911**	2650	3039	2123	2029	1546	**2277**
14	IHT 214	MH 2916	3148	537	4094	6399	3947	3796	**4277**	3183	5174	3874	2912	1000	**3229**
15	IHT 215	MH 2917	2870	1227	4167	7065	3978	3759	**4368**	3006	5168	3499	3446	1731	**3370**
16	IHT 216	MH 2918	2731	819	2750	4399	3778	2981	**3328**	2556	4886	3221	2154	1315	**2826**
17	IHT 217	MH 2919	3148	852	3361	6680	3122	4157	**4094**	2344	5173	3856	3399	903	**3135**
18	IHT 218	86M94 (Check)	2917	694	3422	5051	4411	2793	**3719**	2789	4588	3254	3192	2009	**3167**
19	IHT 219	MH 2920	2407	1157	2883	2912	1961	3083	**2650**	2028	2691	2517	1806	1102	**2029**
20	IHT 220	MH 2921	2537	1157	2472	3867	4350	3164	**3278**	2261	4021	2817	3285	2250	**2927**
21	IHT 221	MH 2922	2824	616	2261	3526	3642	3497	**3150**	2339	2846	2558	1625	1657	**2205**
22	IHT 222	MH 2923	2431	1097	2383	3586	3322	3176	**2980**	2006	1226	2478	2256	2148	**2023**
23	IHT 223	MH 2924	2384	454	1911	2878	2750	3170	**2619**	1989	1352	1776	1591	1519	**1645**
24	IHT 224	MH 2925	2421	412	1650	2510	2481	4154	**2643**	1728	1922	2097	1486	1306	**1708**
25	IHT 225	MH 2926	2477	306	2444	3565	3781	3812	**3216**	2239	2309	2315	2095	1384	**2068**
26	IHT 226	MH 2927	2778	602	2722	3388	2719	2204	**2762**	1956	2633	2750	1923	1296	**2112**
27	IHT 227	MH 2928	3102	847	2856	5176	4114	2935	**3636**	2233	2966	3266	2325	1676	**2493**
28	IHT 228	AHB 1200 (Check)	2917	602	2539	2606	3661	3127	**2970**	2339	1881	2259	1738	1231	**1890**
29	IHT 229	MH 2929	3287	463	3122	3681	2281	2231	**2921**	2372	4024	3729	3670	1352	**3029**
30	IHT 230	MH 2930	3056	1236	2122	2718	3139	3043	**2816**	1889	1764	1855	2235	1389	**1826**
31	IHT 231	MH 2931	2454	810	2194	3309	3350	3086	**2879**	1933	2167	2100	2101	1519	**1964**
32	IHT 232	MH 2932	2639	750	2322	3500	2239	2448	**2630**	2067	2818	2543	2109	1991	**2306**
33	IHT 233	MH 2933	2708	1019	3000	5682	3328	4068	**3757**	2400	5312	3880	3615	2454	**3532**
		LOC. MEAN	**2759**	**760**	**2816**	**4090**	**3366**	**3260**	**3258**	**2460**	**3350**	**2871**	**2356**	**1499**	**2507**
		C.D. (5%)	**374**	**169**	**906**	**829**	**1077**	**415**	**799**	**239**	**966**	**614**	**317**	**360**	**708**
		C.D. (1%)	**498**	**225**	**1204**	**1102**	**1432**	**552**	**1055**	**318**	**1284**	**816**	**421**	**478**	**935**
		C.V. (%)	**8.3**	**13.6**	**19.7**	**12.4**	**19.6**	**7.8**	**19.6**	**6.0**	**17.7**	**13.1**	**8.2**	**14.7**	**22.6**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
		PLOT SIZE (m^2)	**7.20**	**7.20**	**6.00**	**5.40**	**6.00**	**5.40**	**-**	**6.00**	**6.00**	**7.20**	**5.40**	**7.20**	**-**

Contd..

Table I.34: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR***	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	2128	1519	1734	**1626**	1195	3657	3589	**2839**	17
2	IHT 202	MH 2906	3633	2218	2722	**2470**	1849	3943	3263	**3142**	10
3	IHT 203	MH 2907	4283	3192	3636	**3414**	2053	3345	3487	**3402**	6
4	IHT 204	MH 2908	1589	1658	1744	**1701**	764	2333	1311	**1935**	33
5	IHT 205	MH 2909	3122	3356	3863	**3610**	1736	3511	2167	**2986**	14
6	IHT 206	MH 2910	3422	2549	3248	**2898**	1896	3457	2552	**3093**	11
7	IHT 207	MH 2911	3439	2042	2619	**2330**	1894	2883	2750	**2852**	16
8	IHT 208	PB 1852 (Check)	3494	2404	2779	**2592**	1200	4044	3417	**3375**	7
9	IHT 209	MH 2912	4478	2450	2789	**2620**	2397	3527	3911	**3368**	8
10	IHT 210	MH 2913	2533	1562	1538	**1550**	1336	2683	1394	**2356**	26
11	IHT 211	MH 2914	2889	1989	2426	**2207**	1872	2742	2269	**2646**	19
12	IHT 212	DHBH 1397 (Check)	3022	1798	1963	**1881**	1187	3211	2565	**2828**	18
13	IHT 213	MH 2915	3239	1828	2155	**1991**	1865	2871	2494	**2569**	21
14	IHT 214	MH 2916	4106	1923	2081	**2002**	1509	4009	2470	**3475**	4
15	IHT 215	MH 2917	4406	2249	2681	**2465**	1179	3736	3452	**3681**	3
16	IHT 216	MH 2918	3400	2071	2561	**2316**	2101	3980	2987	**3051**	12
17	IHT 217	MH 2919	4628	3549	4250	**3900**	2451	3823	2983	**3692**	2
18	IHT 218	86M94 (Check)	3628	3354	3654	**3504**	1287	3997	2961	**3468**	5
19	IHT 219	MH 2920	2189	1871	2160	**2015**	792	2868	2809	**2353**	27
20	IHT 220	MH 2921	3122	3250	3089	**3169**	2247	3983	2672	**3143**	9
21	IHT 221	MH 2922	2650	2008	2220	**2114**	1167	3597	1707	**2597**	20
22	IHT 222	MH 2923	3011	1765	1916	**1840**	1279	3907	2287	**2527**	22
23	IHT 223	MH 2924	2211	1556	1721	**1638**	1546	3963	1570	**2156**	31
24	IHT 224	MH 2925	2256	1623	1738	**1681**	997	2777	1624	**2118**	32
25	IHT 225	MH 2926	2472	1812	1849	**1831**	1257	2718	1841	**2474**	23
26	IHT 226	MH 2927	2461	1548	1682	**1615**	1158	3182	1878	**2341**	28
27	IHT 227	MH 2928	3322	3279	2727	**3003**	1229	3213	2487	**3045**	13
28	IHT 228	AHB 1200 (Check)	2450	1713	1800	**1757**	927	2727	1646	**2309**	29
29	IHT 229	MH 2929	3239	2098	2601	**2349**	1913	3956	2413	**2937**	15
30	IHT 230	MH 2930	1761	1764	1761	**1763**	1269	2643	3020	**2277**	30
31	IHT 231	MH 2931	2894	2011	2182	**2097**	1486	2721	2246	**2418**	25
32	IHT 232	MH 2932	2933	1565	1694	**1629**	1782	2979	2602	**2430**	24
33	IHT 233	MH 2933	4550	3417	4214	**3815**	953	3777	3617	**3735**	1
		LOC. MEAN	**3120**	**2212**	**2479**	**2345**	**1508**	**3356**	**2559**	**2837**	
		C.D. (5%)	**465**	**436**	**717**	**389**	**203**	**273**	**389**	**395**	
		C.D. (1%)	**618**	**580**	**953**	**523**	**270**	**362**	**517**	**520**	
		C.V. (%)	**9.1**	**12.1**	**17.7**	**8.1**	**8.2**	**5.0**	**9.3**	**19.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**7.20**	**6.00**	**-**	**6.00**	**6.00**	**9.00**	**-**	

*****TEST LOCATION REJECTED DUE TO LOW AVERAGE YIELD (760 & 1508 kg/ha), THAN THE STATE AVERAGE YIELD (970 & 2166 kg/ha) TAKEN OVER 10 YEARS**

Table I.35: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	5625	3796	10500	21512	7739	11071	**10041**	19056	8567	6605	4019	**9561**
2	IHT 202	MH 2906	6111	2384	5667	19432	6633	9657	**8314**	16439	6906	8642	3602	**8897**
3	IHT 203	MH 2907	4028	1852	10222	16488	6933	11093	**8436**	14389	5481	10556	4185	**8653**
4	IHT 204	MH 2908	4676	1875	4611	14901	4283	10688	**6839**	6222	6057	4877	2269	**4856**
5	IHT 205	MH 2909	5787	2685	5444	17136	5378	11444	**7979**	14900	8620	8086	3824	**8858**
6	IHT 206	MH 2910	6250	3241	7278	18691	8078	12142	**9280**	10428	7282	9136	3778	**7656**
7	IHT 207	MH 2911	6065	2639	5944	19969	6511	8367	**8249**	15044	8100	8210	4139	**8873**
8	IHT 208	PB 1852 (Check)	6204	4259	6167	24395	10917	12377	**10720**	18000	9848	9383	5722	**10738**
9	IHT 209	MH 2912	5694	5579	7944	22580	9544	8969	**10052**	17344	8157	10679	5991	**10543**
10	IHT 210	MH 2913	4722	3116	4222	13173	4833	10417	**6747**	8583	5888	10432	3532	**7109**
11	IHT 211	MH 2914	5093	2801	5944	16358	6683	10852	**7955**	16139	6488	10432	4213	**9318**
12	IHT 212	DHBH 1397 (Check)	5324	2662	5000	13074	6600	9636	**7049**	14122	5973	11049	5426	**9143**
13	IHT 213	MH 2915	4491	4097	4833	16241	6728	10741	**7855**	7567	7315	7654	4537	**6768**
14	IHT 214	MH 2916	6667	2894	8278	23802	10939	11870	**10742**	20306	7807	11173	3148	**10608**
15	IHT 215	MH 2917	5093	3380	9167	26093	11717	10235	**10947**	19861	7221	12840	4954	**11219**
16	IHT 216	MH 2918	5185	2708	5500	17975	7556	9086	**8002**	17278	7246	7840	3704	**9017**
17	IHT 217	MH 2919	6250	3565	7500	24302	8994	11747	**10393**	21039	8261	11420	4870	**11398**
18	IHT 218	86M94 (Check)	6505	3426	9333	22327	7661	12611	**10311**	17772	7300	10309	5241	**10155**
19	IHT 219	MH 2920	4755	3380	6389	13204	5406	10296	**7238**	10756	5556	7840	3620	**6943**
20	IHT 220	MH 2921	5347	3727	5667	20407	7561	7451	**8360**	16228	7445	12469	4583	**10181**
21	IHT 221	MH 2922	5833	3356	4833	17877	7033	12099	**8505**	10928	6467	8210	4861	**7616**
22	IHT 222	MH 2923	5278	3356	5556	14259	6778	7858	**7181**	5806	6611	10247	2921	**6396**
23	IHT 223	MH 2924	4583	2685	4889	12130	4806	7759	**6142**	5639	4438	6667	3065	**4952**
24	IHT 224	MH 2925	5579	2662	5778	10778	4389	9648	**6472**	7083	4844	7346	2500	**5443**
25	IHT 225	MH 2926	5833	2815	5722	18784	7244	8642	**8173**	8689	7217	9568	3296	**7192**
26	IHT 226	MH 2927	6250	2778	6167	15796	5761	10559	**7885**	11561	6546	7037	2741	**6971**
27	IHT 227	MH 2928	6481	2801	5667	25185	8889	13136	**10360**	11989	8296	8272	3806	**8091**
28	IHT 228	AHB 1200 (Check)	6435	2361	6389	10679	5183	8154	**6534**	6989	5555	8765	3250	**6140**
29	IHT 229	MH 2929	6481	3657	8167	21278	7156	8840	**9263**	15994	8263	12222	5000	**10370**
30	IHT 230	MH 2930	6181	3750	4778	10981	6506	10111	**7051**	7139	6758	8642	2991	**6382**
31	IHT 231	MH 2931	5139	3449	7056	17043	4683	11562	**8155**	8667	7157	8457	4593	**7218**
32	IHT 232	MH 2932	5556	3657	7111	18883	6944	9296	**8575**	11083	7581	9012	5588	**8316**
33	IHT 233	MH 2933	5787	4792	7667	22753	9478	7315	**9632**	18972	7915	13765	5852	**11626**
		LOC. MEAN	**5615**	**3218**	**6527**	**18136**	**7138**	**10174**	**8468**	**13091**	**7066**	**9328**	**4116**	**8400**
		C.D. (5%)	**784**	**750**	**1961**	**4272**	**1573**	**1626**	**2154**	**2953**	**1399**	**1145**	**997**	**4111**
		C.D. (1%)	**1042**	**997**	**2606**	**5677**	**2090**	**2161**	**2843**	**3924**	**1860**	**1522**	**1326**	**5464**
		C.V. (%)	**8.6**	**14.3**	**18.4**	**14.4**	**13.5**	**9.8**	**22.3**	**13.8**	**12.1**	**7.5**	**14.9**	**25.7**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**
		PLOT SIZE (m^2)	**7.20**	**7.20**	**6.00**	**5.40**	**6.00**	**5.40**	**-**	**6.00**	**7.20**	**5.40**	**7.20**	**-**

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Table I.35: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	9778	4481	6889	**5685**	8889	22367	16181	**10442**	10
2	IHT 202	MH 2906	12983	5936	9947	**7941**	13056	23972	11972	**10209**	13
3	IHT 203	MH 2907	13161	7497	13189	**10343**	12222	22228	11037	**10285**	12
4	IHT 204	MH 2908	8689	4570	5311	**4941**	8611	17506	8552	**7106**	32
5	IHT 205	MH 2909	7989	7629	13111	**10370**	6944	22917	10733	**9539**	16
6	IHT 206	MH 2910	10784	6601	9389	**7995**	8889	21350	10800	**9632**	14
7	IHT 207	MH 2911	11417	5781	9500	**7640**	7500	19717	13344	**9515**	17
8	IHT 208	PB 1852 (Check)	12356	6141	9544	**7843**	9722	24600	14648	**11518**	3
9	IHT 209	MH 2912	12923	5850	10556	**8203**	8056	22522	14885	**11080**	7
10	IHT 210	MH 2913	9522	4481	7578	**6029**	7500	18100	6978	**7692**	29
11	IHT 211	MH 2914	9489	5330	9133	**7231**	8611	20628	7422	**9101**	19
12	IHT 212	DHBH 1397 (Check)	7489	5956	7611	**6783**	6111	20022	11804	**8616**	23
13	IHT 213	MH 2915	11428	4645	7889	**6267**	8611	19328	10326	**8527**	24
14	IHT 214	MH 2916	11277	6210	8967	**7588**	8889	22644	14181	**11191**	5
15	IHT 215	MH 2917	12072	5779	9444	**7612**	7500	22217	14822	**11400**	4
16	IHT 216	MH 2918	11522	5492	9356	**7424**	12222	22439	8293	**9588**	15
17	IHT 217	MH 2919	13461	8277	11500	**9888**	8333	25306	11748	**11661**	2
18	IHT 218	86M94 (Check)	12628	7825	13333	**10579**	6944	23456	11189	**11116**	6
19	IHT 219	MH 2920	5628	5278	8722	**7000**	7778	21417	12315	**8271**	25
20	IHT 220	MH 2921	11211	7781	11278	**9529**	11667	23250	19619	**10981**	8
21	IHT 221	MH 2922	7934	5745	9500	**7623**	6667	24900	6952	**8950**	20
22	IHT 222	MH 2923	12134	5619	7722	**6671**	5833	21922	7770	**8104**	27
23	IHT 223	MH 2924	6817	4270	5900	**5085**	7222	22028	11104	**7125**	31
24	IHT 224	MH 2925	6589	4973	7111	**6042**	6944	19233	5563	**6939**	33
25	IHT 225	MH 2926	10773	4912	7611	**6261**	6944	19806	10300	**8635**	22
26	IHT 226	MH 2927	7911	4573	6611	**5592**	8056	19806	9224	**8211**	26
27	IHT 227	MH 2928	11572	8037	12000	**10018**	7222	21544	12004	**10431**	11
28	IHT 228	AHB 1200 (Check)	7401	5563	7456	**6509**	6944	20361	6452	**7371**	30
29	IHT 229	MH 2929	13549	6527	9472	**8000**	8611	23189	12770	**10699**	9
30	IHT 230	MH 2930	5656	5770	6867	**6319**	8333	20844	11070	**7899**	28
31	IHT 231	MH 2931	10211	5659	8583	**7121**	9444	19194	10759	**8854**	21
32	IHT 232	MH 2932	12889	4257	7722	**5990**	8333	20028	11144	**9318**	18
33	IHT 233	MH 2933	15656	8282	15111	**11697**	8056	22378	13296	**11692**	1
		LOC. MEAN	**10451**	**5931**	**9210**	**7570**	**8384**	**21552**	**11190**	**9445**	
		C.D. (5%)	**1377**	**1355**	**2025**	**3238**	**967**	**3457**	**1830**	**1338**	
		C.D. (1%)	**1829**	**1800**	**2692**	**4353**	**1285**	**4594**	**2432**	**1761**	
		C.V. (%)	**8.1**	**14.0**	**13.5**	**19.4**	**7.1**	**9.8**	**10.0**	**20.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.017**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**7.20**	**6.00**	**-**	**6.00**	**6.00**	**9.00**	**-**	

Table I.36: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A

S.No.	TEST CODE	ENTRY	MDR*	BKR	JPR	JPR2	ALW6	DAS*	RAJ MEAN	TLJ	JMR	SKN*	KTR	GUJ MEAN
1	IHT 201	MH 2905	54	51	49	56	55	61	**53**	49	52	56	55	**52**
2	IHT 202	MH 2906	53	51	48	49	52	56	**50**	49	50	53	53	**51**
3	IHT 203	MH 2907	52	50	47	50	48	51	**49**	49	49	50	47	**48**
4	IHT 204	MH 2908	53	51	48	50	53	59	**50**	50	49	57	48	**49**
5	IHT 205	MH 2909	54	53	50	59	54	60	**54**	48	55	62	49	**51**
6	IHT 206	MH 2910	55	51	44	51	49	54	**49**	48	48	53	51	**49**
7	IHT 207	MH 2911	54	52	47	50	53	60	**51**	49	49	55	51	**50**
8	IHT 208	PB 1852 (Check)	54	52	48	55	52	58	**52**	49	54	60	52	**52**
9	IHT 209	MH 2912	55	51	49	52	52	60	**51**	48	50	52	48	**49**
10	IHT 210	MH 2913	53	50	46	48	48	52	**48**	49	47	51	49	**48**
11	IHT 211	MH 2914	55	52	49	54	52	58	**52**	50	50	54	44	**48**
12	IHT 212	DHBH 1397 (Check)	55	51	47	50	50	58	**49**	49	48	52	46	**48**
13	IHT 213	MH 2915	50	49	48	48	43	58	**47**	47	42	50	46	**45**
14	IHT 214	MH 2916	55	52	51	52	52	58	**52**	49	52	53	50	**50**
15	IHT 215	MH 2917	54	52	49	51	50	54	**51**	50	50	51	52	**51**
16	IHT 216	MH 2918	55	49	52	52	54	58	**52**	49	50	52	46	**48**
17	IHT 217	MH 2919	56	52	56	56	54	58	**55**	51	54	54	54	**53**
18	IHT 218	86M94 (Check)	55	52	48	50	51	55	**50**	49	50	52	53	**51**
19	IHT 219	MH 2920	54	49	43	51	46	53	**47**	47	45	51	45	**45**
20	IHT 220	MH 2921	55	52	52	53	54	58	**53**	49	50	52	49	**49**
21	IHT 221	MH 2922	54	52	47	51	51	56	**50**	47	50	51	46	**48**
22	IHT 222	MH 2923	52	50	47	49	48	53	**49**	49	47	47	43	**46**
23	IHT 223	MH 2924	54	49	48	49	49	54	**49**	50	46	51	44	**47**
24	IHT 224	MH 2925	55	53	45	48	46	55	**48**	49	47	50	43	**46**
25	IHT 225	MH 2926	55	52	48	51	52	58	**51**	48	52	50	48	**49**
26	IHT 226	MH 2927	55	53	50	51	53	55	**52**	49	50	51	53	**51**
27	IHT 227	MH 2928	54	53	50	54	55	59	**53**	49	52	53	52	**51**
28	IHT 228	AHB 1200 (Check)	53	48	45	48	48	54	**47**	50	45	51	48	**48**
29	IHT 229	MH 2929	55	53	53	57	55	60	**54**	51	55	56	50	**52**
30	IHT 230	MH 2930	52	48	44	49	43	53	**46**	48	42	44	49	**46**
31	IHT 231	MH 2931	56	54	46	49	52	56	**50**	49	48	50	46	**48**
32	IHT 232	MH 2932	55	54	48	49	55	60	**52**	48	50	48	52	**50**
33	IHT 233	MH 2933	54	54	56	54	51	57	**54**	49	55	54	49	**51**
		LOC. MEAN	**54**	**51**	**48**	**51**	**51**	**57**	**50**	**49**	**49**	**52**	**49**	**49**
		C.D. (5%)	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**1.0**	**2.0**	**2.0**	**5.0**	**4.0**
		C.D. (1%)	**2.0**	**2.0**	**3.0**	**2.0**	**2.0**	**4.0**	**3.0**	**1.0**	**2.0**	**2.0**	**7.0**	**6.0**
		C.V. (%)	**2.0**	**2.0**	**2.6**	**2.1**	**2.2**	**3.0**	**3.7**	**1.1**	**2.1**	**2.2**	**6.4**	**4.3**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.119**

***LOCATION REJECTED DUE TO DELAYED FLOWERING IN CHECKS**

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Table I.36: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	48	52	52	**52**	47	51	55	**52**	**7**
2	IHT 202	MH 2906	50	51	50	**51**	46	52	51	**50**	**16**
3	IHT 203	MH 2907	51	49	51	**50**	45	51	50	**49**	**22**
4	IHT 204	MH 2908	48	51	53	**52**	51	54	53	**51**	**14**
5	IHT 205	MH 2909	49	52	52	**52**	49	56	59	**53**	**3**
6	IHT 206	MH 2910	50	46	48	**47**	48	45	50	**48**	**25**
7	IHT 207	MH 2911	52	52	53	**53**	47	53	53	**51**	**12**
8	IHT 208	PB 1852 (Check)	48	50	53	**51**	47	50	54	**51**	**11**
9	IHT 209	MH 2912	51	53	53	**53**	43	53	54	**51**	**15**
10	IHT 210	MH 2913	45	49	48	**49**	44	44	48	**47**	**28**
11	IHT 211	MH 2914	46	50	52	**51**	49	44	52	**50**	**20**
12	IHT 212	DHBH 1397 (Check)	49	48	50	**49**	52	50	49	**49**	**21**
13	IHT 213	MH 2915	46	45	48	**47**	37	47	46	**46**	**32**
14	IHT 214	MH 2916	53	50	53	**52**	54	50	54	**52**	**8**
15	IHT 215	MH 2917	52	51	54	**52**	56	50	54	**52**	**9**
16	IHT 216	MH 2918	49	52	52	**52**	54	56	55	**51**	**10**
17	IHT 217	MH 2919	54	51	52	**52**	56	50	55	**54**	**2**
18	IHT 218	86M94 (Check)	50	49	52	**51**	51	52	52	**51**	**13**
19	IHT 219	MH 2920	45	46	46	**46**	56	46	48	**47**	**30**
20	IHT 220	MH 2921	52	52	53	**52**	54	50	54	**52**	**6**
21	IHT 221	MH 2922	48	50	53	**52**	50	50	55	**50**	**18**
22	IHT 222	MH 2923	48	48	50	**49**	48	50	51	**48**	**24**
23	IHT 223	MH 2924	46	47	48	**48**	44	50	48	**47**	**26**
24	IHT 224	MH 2925	48	46	48	**47**	46	50	47	**47**	**29**
25	IHT 225	MH 2926	50	48	51	**50**	47	50	56	**50**	**17**
26	IHT 226	MH 2927	50	53	52	**53**	47	56	53	**51**	**10**
27	IHT 227	MH 2928	51	54	53	**54**	48	56	54	**52**	**5**
28	IHT 228	AHB 1200 (Check)	49	47	50	**48**	45	45	48	**47**	**27**
29	IHT 229	MH 2929	51	54	53	**54**	54	56	57	**54**	**1**
30	IHT 230	MH 2930	46	53	52	**52**	42	44	46	**47**	**31**
31	IHT 231	MH 2931	48	48	50	**49**	44	49	51	**49**	**23**
32	IHT 232	MH 2932	49	50	49	**50**	44	50	52	**50**	**19**
33	IHT 233	MH 2933	53	53	53	**53**	47	56	53	**53**	**4**
		LOC. MEAN	**49**	**50**	**51**	**51**	**48**	**51**	**52**	**50**	
		C.D. (5%)	**3.0**	**3.0**	**3.0**	**4.0**	**3.0**	**1.0**	**2.0**	**2.0**	
		C.D. (1%)	**4.0**	**4.0**	**4.0**	**5.0**	**4.0**	**2.0**	**2.0**	**2.0**	
		C.V. (%)	**3.7**	**3.6**	**4.0**	**3.5**	**3.4**	**1.7**	**1.9**	**4.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.002**	**0.000**	**0.000**	**0.000**	**0.000**	

***LOCATION REJECTED DUE TO DELAYED FLOWERING IN CHECKS**

Table I.37: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO MATURITY ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	84	81	77	86	79	87	**82**	81	86	81	95	89	**87**
2	IHT 202	MH 2906	83	81	78	80	78	83	**81**	80	86	79	93	89	**86**
3	IHT 203	MH 2907	81	80	76	81	76	76	**78**	80	86	78	80	87	**82**
4	IHT 204	MH 2908	81	81	77	81	77	83	**80**	81	87	79	85	88	**84**
5	IHT 205	MH 2909	80	83	80	90	79	85	**83**	79	85	81	94	85	**85**
6	IHT 206	MH 2910	79	81	74	81	75	81	**79**	79	87	77	85	82	**82**
7	IHT 207	MH 2911	81	82	78	81	79	85	**81**	80	87	78	91	88	**85**
8	IHT 208	PB 1852 (Check)	84	82	78	85	78	82	**82**	80	86	83	94	89	**86**
9	IHT 209	MH 2912	81	81	77	83	78	85	**81**	78	86	80	87	87	**83**
10	IHT 210	MH 2913	81	80	76	80	76	81	**79**	79	85	77	85	83	**82**
11	IHT 211	MH 2914	83	82	78	84	79	84	**81**	80	84	79	88	88	**84**
12	IHT 212	DHBH 1397 (Check)	81	81	77	80	75	82	**79**	79	85	77	85	79	**81**
13	IHT 213	MH 2915	74	79	77	79	70	84	**77**	78	86	71	86	80	**80**
14	IHT 214	MH 2916	80	82	81	84	79	80	**81**	79	88	81	90	86	**85**
15	IHT 215	MH 2917	81	82	77	83	77	82	**80**	80	86	80	85	84	**83**
16	IHT 216	MH 2918	83	79	80	84	79	85	**82**	79	85	79	86	91	**84**
17	IHT 217	MH 2919	80	82	83	88	80	81	**83**	82	88	83	90	89	**86**
18	IHT 218	86M94 (Check)	83	82	77	82	78	76	**80**	80	85	80	90	87	**84**
19	IHT 219	MH 2920	77	78	73	80	73	75	**76**	77	84	74	84	87	**81**
20	IHT 220	MH 2921	81	82	81	84	78	81	**81**	79	86	80	89	85	**84**
21	IHT 221	MH 2922	83	82	76	81	74	82	**80**	77	84	79	85	81	**81**
22	IHT 222	MH 2923	79	80	77	81	77	76	**78**	80	83	75	82	92	**83**
23	IHT 223	MH 2924	78	79	78	79	76	83	**79**	81	84	75	86	82	**82**
24	IHT 224	MH 2925	78	83	75	79	76	84	**79**	80	85	76	86	83	**82**
25	IHT 225	MH 2926	82	82	79	81	77	86	**81**	79	80	81	84	88	**82**
26	IHT 226	MH 2927	83	83	79	81	77	82	**81**	80	85	80	83	90	**84**
27	IHT 227	MH 2928	80	83	75	86	79	86	**81**	80	85	81	88	92	**85**
28	IHT 228	AHB 1200 (Check)	79	79	76	80	73	76	**77**	80	83	75	81	78	**79**
29	IHT 229	MH 2929	80	83	84	88	79	85	**83**	81	86	84	85	84	**84**
30	IHT 230	MH 2930	76	78	75	80	71	83	**77**	78	77	72	83	82	**79**
31	IHT 231	MH 2931	80	82	78	80	76	83	**80**	79	83	77	84	79	**80**
32	IHT 232	MH 2932	82	84	78	80	78	85	**81**	80	86	78	81	83	**82**
33	IHT 233	MH 2933	83	84	84	85	78	83	**83**	81	85	83	89	87	**85**
		LOC. MEAN	**81**	**81**	**78**	**82**	**77**	**82**	**80**	**80**	**85**	**79**	**87**	**86**	**83**
		C.D. (5%)	**2.0**	**2.0**	**1.0**	**1.0**	**2.0**	**2.0**	**2.0**	**1.0**	**2.0**	**2.0**	**2.0**	**8.0**	**3.0**
		C.D. (1%)	**3.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**	**1.0**	**3.0**	**3.0**	**3.0**	**11.0**	**4.0**
		C.V. (%)	**1.7**	**1.3**	**1.1**	**1.1**	**1.9**	**1.5**	**2.4**	**0.7**	**1.5**	**1.6**	**1.5**	**6.1**	**3.0**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

Contd..

Table I.37: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO MATURITY ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	78	81	80	**81**	86	98	86	**84**	**4**
2	IHT 202	MH 2906	80	80	79	**80**	86	90	81	**83**	**17**
3	IHT 203	MH 2907	82	78	80	**79**	83	91	83	**81**	**25**
4	IHT 204	MH 2908	78	80	82	**81**	89	91	84	**83**	**18**
5	IHT 205	MH 2909	79	81	81	**81**	87	96	91	**84**	**5**
6	IHT 206	MH 2910	81	76	77	**77**	87	90	82	**81**	**26**
7	IHT 207	MH 2911	82	80	82	**81**	84	93	84	**83**	**11**
8	IHT 208	PB 1852 (Check)	78	79	82	**80**	85	87	84	**83**	**12**
9	IHT 209	MH 2912	81	82	82	**82**	83	92	86	**83**	**14**
10	IHT 210	MH 2913	75	79	78	**78**	86	87	81	**81**	**28**
11	IHT 211	MH 2914	77	78	81	**79**	88	90	85	**83**	**15**
12	IHT 212	DHBH 1397 (Check)	79	77	79	**78**	91	96	82	**81**	**22**
13	IHT 213	MH 2915	76	74	77	**75**	83	87	77	**79**	**33**
14	IHT 214	MH 2916	83	79	82	**81**	92	92	88	**84**	**8**
15	IHT 215	MH 2917	82	80	83	**81**	90	88	88	**83**	**16**
16	IHT 216	MH 2918	80	81	82	**82**	93	99	85	**84**	**7**
17	IHT 217	MH 2919	84	81	82	**81**	92	94	89	**85**	**1**
18	IHT 218	86M94 (Check)	79	78	80	**79**	88	100	84	**83**	**13**
19	IHT 219	MH 2920	75	75	75	**75**	93	89	80	**79**	**30**
20	IHT 220	MH 2921	82	81	81	**81**	91	89	86	**83**	**10**
21	IHT 221	MH 2922	78	79	82	**80**	89	96	89	**82**	**20**
22	IHT 222	MH 2923	78	76	79	**77**	86	100	81	**81**	**23**
23	IHT 223	MH 2924	76	76	78	**77**	85	89	81	**80**	**29**
24	IHT 224	MH 2925	78	75	77	**76**	85	99	81	**81**	**24**
25	IHT 225	MH 2926	80	78	80	**79**	86	97	86	**83**	**19**
26	IHT 226	MH 2927	79	83	82	**83**	87	101	84	**84**	**9**
27	IHT 227	MH 2928	81	83	82	**82**	87	99	88	**84**	**6**
28	IHT 228	AHB 1200 (Check)	79	76	78	**77**	86	88	78	**79**	**31**
29	IHT 229	MH 2929	81	84	83	**83**	92	100	90	**85**	**2**
30	IHT 230	MH 2930	75	82	81	**81**	84	86	79	**79**	**32**
31	IHT 231	MH 2931	78	78	80	**79**	85	88	81	**81**	**27**
32	IHT 232	MH 2932	79	79	77	**78**	86	93	86	**82**	**21**
33	IHT 233	MH 2933	83	83	83	**83**	85	100	83	**85**	**3**
		LOC. MEAN	**79**	**79**	**80**	**80**	**87**	**93**	**84**	**82**	
		C.D. (5%)	**1.0**	**3.0**	**3.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	
		C.D. (1%)	**2.0**	**4.0**	**4.0**	**3.0**	**2.0**	**3.0**	**2.0**	**2.0**	
		C.V. (%)	**1.0**	**2.1**	**2.6**	**1.3**	**1.3**	**1.5**	**1.2**	**2.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.38: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PLANT HEIGHT (cm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	205	156	201	240	247	233	**214**	256	212	226	175	177	**209**
2	IHT 202	MH 2906	207	154	117	237	248	230	**199**	243	204	218	174	157	**199**
3	IHT 203	MH 2907	190	149	223	218	235	205	**203**	222	192	189	161	155	**184**
4	IHT 204	MH 2908	181	130	147	183	202	217	**177**	184	163	176	115	134	**155**
5	IHT 205	MH 2909	211	154	209	237	235	243	**215**	211	195	232	165	171	**195**
6	IHT 206	MH 2910	189	184	218	238	253	265	**225**	224	195	189	167	166	**188**
7	IHT 207	MH 2911	195	157	204	243	242	230	**212**	221	203	207	168	185	**197**
8	IHT 208	PB 1852 (Check)	205	182	192	255	262	253	**225**	254	200	222	184	186	**209**
9	IHT 209	MH 2912	192	175	180	225	240	235	**208**	204	184	185	159	166	**180**
10	IHT 210	MH 2913	188	157	179	225	240	215	**201**	251	193	188	164	171	**193**
11	IHT 211	MH 2914	193	144	191	222	243	222	**202**	228	204	205	160	180	**196**
12	IHT 212	DHBH 1397 (Check)	183	153	172	228	230	250	**203**	221	197	181	151	159	**182**
13	IHT 213	MH 2915	202	197	217	238	245	242	**224**	214	201	209	181	184	**198**
14	IHT 214	MH 2916	204	170	209	247	272	247	**225**	273	212	218	161	176	**208**
15	IHT 215	MH 2917	191	174	216	258	263	240	**224**	248	207	206	192	178	**206**
16	IHT 216	MH 2918	200	184	192	243	253	227	**217**	259	206	204	172	174	**203**
17	IHT 217	MH 2919	202	149	203	242	255	245	**216**	256	213	212	167	169	**204**
18	IHT 218	86M94 (Check)	199	166	196	233	257	242	**216**	251	202	206	178	180	**203**
19	IHT 219	MH 2920	184	164	207	208	233	235	**205**	191	181	180	160	162	**175**
20	IHT 220	MH 2921	202	178	173	230	242	233	**210**	248	194	204	179	176	**200**
21	IHT 221	MH 2922	193	165	172	235	255	245	**211**	232	191	209	158	181	**194**
22	IHT 222	MH 2923	200	182	147	228	245	230	**205**	221	190	180	169	171	**186**
23	IHT 223	MH 2924	180	140	157	208	218	215	**186**	198	171	171	157	163	**172**
24	IHT 224	MH 2925	179	143	152	223	222	240	**193**	201	179	177	145	169	**174**
25	IHT 225	MH 2926	173	176	179	243	242	240	**209**	222	205	196	173	180	**195**
26	IHT 226	MH 2927	182	152	185	233	230	248	**205**	229	198	183	141	166	**183**
27	IHT 227	MH 2928	181	173	201	285	263	268	**229**	248	217	216	174	192	**209**
28	IHT 228	AHB 1200 (Check)	185	125	169	222	220	220	**190**	188	179	200	147	160	**175**
29	IHT 229	MH 2929	188	168	174	238	223	220	**202**	245	209	205	174	174	**201**
30	IHT 230	MH 2930	184	172	183	235	247	257	**213**	204	172	174	160	172	**176**
31	IHT 231	MH 2931	193	170	185	248	230	280	**218**	265	207	209	179	213	**215**
32	IHT 232	MH 2932	192	173	192	247	242	277	**220**	281	223	211	182	183	**216**
33	IHT 233	MH 2933	198	174	179	230	233	223	**206**	235	202	217	172	185	**202**
		LOC. MEAN	**193**	**163**	**186**	**234**	**241**	**239**	**209**	**231**	**197**	**200**	**166**	**173**	**193**
		C.D. (5%)	**10.0**	**18.0**	**9.0**	**22.0**	**14.0**	**11.0**	**15.0**	**9.0**	**13.0**	**18.0**	**17.0**	**23.0**	**14.0**
		C.D. (1%)	**13.0**	**24.0**	**12.0**	**30.0**	**19.0**	**15.0**	**20.0**	**12.0**	**17.0**	**24.0**	**23.0**	**30.0**	**18.0**
		C.V. (%)	**3.2**	**6.7**	**3.1**	**5.8**	**3.6**	**2.9**	**6.4**	**2.4**	**4.1**	**5.7**	**6.4**	**8.1**	**5.6**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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Table I.38: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PLANT HEIGHT (cm) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	218	199	237	**218**	207	180	241	**212**	**10**
2	IHT 202	MH 2906	217	176	232	**204**	206	172	240	**202**	**20**
3	IHT 203	MH 2907	200	171	219	**195**	180	172	238	**195**	**25**
4	IHT 204	MH 2908	189	126	173	**150**	142	165	173	**165**	**33**
5	IHT 205	MH 2909	220	171	248	**209**	200	188	238	**208**	**16**
6	IHT 206	MH 2910	228	186	228	**207**	205	192	237	**210**	**12**
7	IHT 207	MH 2911	240	189	245	**217**	199	177	245	**209**	**13**
8	IHT 208	PB 1852 (Check)	212	171	256	**213**	205	205	251	**217**	**6**
9	IHT 209	MH 2912	202	167	235	**201**	189	187	242	**198**	**23**
10	IHT 210	MH 2913	203	162	214	**188**	162	185	222	**195**	**26**
11	IHT 211	MH 2914	214	187	222	**205**	190	182	236	**201**	**21**
12	IHT 212	DHBH 1397 (Check)	225	185	210	**198**	209	180	224	**198**	**24**
13	IHT 213	MH 2915	218	175	255	**215**	208	202	268	**215**	**7**
14	IHT 214	MH 2916	239	198	253	**226**	216	188	265	**220**	**3**
15	IHT 215	MH 2917	222	191	260	**225**	213	200	256	**219**	**4**
16	IHT 216	MH 2918	231	169	247	**208**	239	192	258	**215**	**9**
17	IHT 217	MH 2919	224	207	247	**227**	206	202	253	**215**	**8**
18	IHT 218	86M94 (Check)	227	195	255	**225**	183	160	245	**210**	**11**
19	IHT 219	MH 2920	187	165	209	**187**	167	195	225	**191**	**29**
20	IHT 220	MH 2921	203	189	242	**215**	200	187	255	**208**	**15**
21	IHT 221	MH 2922	208	185	250	**218**	178	188	245	**205**	**17**
22	IHT 222	MH 2923	223	161	239	**200**	186	203	226	**200**	**22**
23	IHT 223	MH 2924	197	167	235	**201**	183	180	253	**188**	**30**
24	IHT 224	MH 2925	185	168	224	**196**	196	170	199	**187**	**31**
25	IHT 225	MH 2926	213	178	254	**216**	197	188	213	**204**	**19**
26	IHT 226	MH 2927	192	178	223	**200**	175	160	239	**195**	**27**
27	IHT 227	MH 2928	222	219	286	**253**	218	200	255	**225**	**1**
28	IHT 228	AHB 1200 (Check)	177	160	209	**185**	172	160	218	**183**	**32**
29	IHT 229	MH 2929	224	190	244	**217**	216	200	243	**208**	**14**
30	IHT 230	MH 2930	177	174	214	**194**	169	180	228	**194**	**28**
31	IHT 231	MH 2931	220	190	258	**224**	224	200	235	**218**	**5**
32	IHT 232	MH 2932	223	206	263	**235**	234	175	250	**221**	**2**
33	IHT 233	MH 2933	209	175	236	**205**	209	158	246	**205**	**18**
		LOC. MEAN	**212**	**180**	**237**	**208**	**196**	**184**	**238**	**204**	
		C.D. (5%)	**11.0**	**14.0**	**22.0**	**21.0**	**5.0**	**11.0**	**6.0**	**8.0**	
		C.D. (1%)	**14.0**	**19.0**	**30.0**	**29.0**	**6.0**	**15.0**	**8.0**	**11.0**	
		C.V. (%)	**3.1**	**4.9**	**5.8**	**5.0**	**1.5**	**3.7**	**1.6**	**6.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.39: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A

S.No.	TEST CODE	ENTRY	MDR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	2.1	1.1	1.4	1.1	2.0	**1.5**	2.7	2.7	1.9	2.1	2.5	**2.4**
2	IHT 202	MH 2906	1.9	1.0	1.8	1.3	2.0	**1.6**	2.7	3.1	1.5	2.5	2.7	**2.5**
3	IHT 203	MH 2907	1.8	1.2	1.6	1.3	3.0	**1.8**	2.3	2.5	1.6	2.3	2.5	**2.3**
4	IHT 204	MH 2908	1.9	1.1	1.1	1.0	2.0	**1.4**	2.3	2.3	1.7	1.5	2.1	**2.0**
5	IHT 205	MH 2909	1.9	1.1	1.4	1.1	2.0	**1.5**	3.0	3.5	1.4	1.6	2.1	**2.3**
6	IHT 206	MH 2910	2.1	1.0	1.8	1.4	3.0	**1.9**	2.3	3.0	2.1	2.5	1.8	**2.3**
7	IHT 207	MH 2911	2.1	1.1	2.0	1.4	2.0	**1.7**	3.3	3.9	1.9	2.1	3.4	**2.9**
8	IHT 208	PB 1852 (Check)	1.7	1.1	1.5	1.3	2.0	**1.5**	2.7	3.6	1.5	2.1	2.2	**2.4**
9	IHT 209	MH 2912	1.9	1.1	1.5	1.3	2.0	**1.6**	3.3	2.6	1.8	2.3	3.7	**2.8**
10	IHT 210	MH 2913	2.0	1.0	1.7	1.3	3.0	**1.8**	2.3	3.0	1.8	1.5	2.2	**2.2**
11	IHT 211	MH 2914	1.9	1.0	1.3	1.1	2.0	**1.4**	2.7	2.9	1.6	2.3	2.4	**2.4**
12	IHT 212	DHBH 1397 (Check)	2.1	1.1	1.4	1.1	2.0	**1.5**	2.0	3.0	1.9	2.3	3.1	**2.5**
13	IHT 213	MH 2915	2.5	1.0	2.0	1.8	2.0	**1.9**	4.7	4.2	3.1	2.4	2.5	**3.4**
14	IHT 214	MH 2916	2.0	1.0	1.7	1.1	3.0	**1.8**	2.7	3.5	1.7	2.2	3.4	**2.7**
15	IHT 215	MH 2917	1.7	1.1	1.7	1.3	2.0	**1.6**	2.3	3.1	1.5	2.4	2.2	**2.3**
16	IHT 216	MH 2918	1.7	1.1	1.6	1.3	2.0	**1.5**	2.3	3.5	1.5	1.7	2.4	**2.3**
17	IHT 217	MH 2919	1.9	1.1	1.4	1.2	3.0	**1.7**	2.3	2.6	1.4	2.2	2.9	**2.3**
18	IHT 218	86M94 (Check)	1.8	1.0	1.5	1.2	2.0	**1.5**	2.3	2.9	1.4	2.4	3.3	**2.5**
19	IHT 219	MH 2920	1.9	1.0	1.9	1.6	2.0	**1.7**	3.3	4.1	1.9	2.3	2.4	**2.8**
20	IHT 220	MH 2921	1.8	1.0	1.6	1.5	2.0	**1.6**	3.0	2.6	1.5	2.7	2.7	**2.5**
21	IHT 221	MH 2922	1.9	1.2	1.9	1.8	2.0	**1.8**	4.3	3.7	2.1	1.8	2.9	**3.0**
22	IHT 222	MH 2923	2.0	1.0	1.5	1.5	2.0	**1.6**	3.7	3.6	1.9	2.1	3.3	**2.9**
23	IHT 223	MH 2924	1.9	1.1	1.8	1.2	2.0	**1.6**	2.3	2.6	1.7	1.6	2.0	**2.1**
24	IHT 224	MH 2925	1.9	1.0	1.5	1.3	3.0	**1.7**	2.0	2.9	1.8	2.0	2.0	**2.1**
25	IHT 225	MH 2926	1.9	1.1	1.7	1.3	2.9	**1.8**	3.0	3.5	1.9	2.0	3.2	**2.7**
26	IHT 226	MH 2927	2.0	1.1	1.6	1.6	2.0	**1.7**	2.3	2.9	2.1	1.9	2.7	**2.4**
27	IHT 227	MH 2928	1.9	1.0	1.6	1.3	2.0	**1.6**	3.3	3.3	1.8	1.7	2.6	**2.6**
28	IHT 228	AHB 1200 (Check)	1.9	1.1	1.5	1.2	2.0	**1.6**	2.7	3.0	1.7	2.1	1.7	**2.2**
29	IHT 229	MH 2929	1.8	1.0	1.4	1.2	2.0	**1.5**	2.0	3.0	1.5	2.5	1.7	**2.1**
30	IHT 230	MH 2930	1.9	1.0	1.9	1.5	2.0	**1.7**	3.0	3.8	2.3	2.2	2.7	**2.8**
31	IHT 231	MH 2931	1.9	1.1	2.0	1.3	2.0	**1.7**	3.0	3.0	1.7	2.3	2.7	**2.5**
32	IHT 232	MH 2932	1.9	1.1	1.7	1.5	2.0	**1.6**	2.3	3.5	1.8	1.5	3.4	**2.5**
33	IHT 233	MH 2933	1.9	1.0	1.7	1.2	3.0	**1.8**	2.3	3.4	1.4	2.2	3.1	**2.5**
		LOC. MEAN	**1.9**	**1.1**	**1.6**	**1.3**	**2.2**	**1.6**	**2.8**	**3.2**	**1.8**	**2.1**	**2.6**	**2.5**
		C.D. (5%)	**0.2**	**0.2**	**0.6**	**0.2**	**0.0**	**0.2**	**0.8**	**0.4**	**0.4**	**0.4**	**0.6**	**0.4**
		C.D. (1%)	**0.3**	**0.3**	**0.8**	**0.3**	**0.0**	**0.3**	**1.1**	**0.6**	**0.6**	**0.6**	**0.8**	**0.6**
		C.V. (%)	**7.6**	**12.2**	**21.7**	**10.2**	**0.9**	**9.5**	**18.3**	**8.5**	**15.4**	**12.4**	**14.4**	**14.0**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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Table I.39: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	1.2	2.3	2.9	**2.6**	1.8	2.3	2.7	**2.1**	**19**
2	IHT 202	MH 2906	1.2	2.0	2.3	**2.2**	1.5	2.2	3.0	**2.0**	**20**
3	IHT 203	MH 2907	1.1	2.6	2.9	**2.7**	1.7	2.8	2.5	**2.1**	**15**
4	IHT 204	MH 2908	1.2	2.0	2.4	**2.2**	1.1	2.9	2.8	**1.8**	**31**
5	IHT 205	MH 2909	1.2	2.9	2.4	**2.6**	1.9	1.6	3.0	**2.0**	**24**
6	IHT 206	MH 2910	1.3	2.3	2.9	**2.6**	1.9	2.2	2.6	**2.1**	**12**
7	IHT 207	MH 2911	1.1	1.9	2.3	**2.1**	1.1	2.4	3.0	**2.2**	**7**
8	IHT 208	PB 1852 (Check)	1.1	2.4	2.3	**2.4**	1.7	2.3	2.5	**2.0**	**25**
9	IHT 209	MH 2912	1.4	2.0	2.6	**2.3**	1.9	2.2	3.0	**2.2**	**9**
10	IHT 210	MH 2913	1.2	2.3	2.8	**2.5**	2.0	2.5	3.0	**2.1**	**16**
11	IHT 211	MH 2914	1.1	2.4	2.3	**2.4**	1.8	2.5	2.4	**2.0**	**27**
12	IHT 212	DHBH 1397 (Check)	1.2	2.0	2.0	**2.0**	1.1	3.2	3.0	**2.0**	**21**
13	IHT 213	MH 2915	1.6	2.7	2.7	**2.7**	2.4	2.3	2.8	**2.5**	**1**
14	IHT 214	MH 2916	1.2	1.9	2.7	**2.3**	1.5	1.9	2.6	**2.1**	**13**
15	IHT 215	MH 2917	1.1	2.1	2.9	**2.5**	1.9	2.5	3.0	**2.1**	**18**
16	IHT 216	MH 2918	1.1	1.9	2.5	**2.2**	1.9	3.0	3.0	**2.0**	**23**
17	IHT 217	MH 2919	1.2	2.8	2.7	**2.7**	1.9	1.6	2.5	**2.0**	**23**
18	IHT 218	86M94 (Check)	1.2	2.7	2.6	**2.6**	2.0	1.6	2.8	**2.1**	**19**
19	IHT 219	MH 2920	1.2	2.8	2.2	**2.5**	2.6	2.9	2.8	**2.3**	**3**
20	IHT 220	MH 2921	1.2	2.2	2.7	**2.5**	1.7	1.5	2.8	**2.0**	**22**
21	IHT 221	MH 2922	1.2	2.3	2.7	**2.5**	1.7	2.6	2.9	**2.3**	**2**
22	IHT 222	MH 2923	1.1	2.5	2.7	**2.6**	2.2	1.9	2.8	**2.2**	**5**
23	IHT 223	MH 2924	1.2	2.2	2.6	**2.4**	1.6	1.6	3.0	**1.9**	**29**
24	IHT 224	MH 2925	1.1	2.6	2.4	**2.5**	2.0	1.6	2.8	**2.0**	**26**
25	IHT 225	MH 2926	1.2	2.4	2.9	**2.7**	2.1	2.0	2.8	**2.2**	**4**
26	IHT 226	MH 2927	1.3	2.0	2.7	**2.3**	2.4	2.9	3.0	**2.2**	**10**
27	IHT 227	MH 2928	1.2	2.9	2.8	**2.9**	1.9	2.0	2.6	**2.1**	**14**
28	IHT 228	AHB 1200 (Check)	1.2	1.9	2.4	**2.2**	1.9	2.3	2.7	**2.0**	**28**
29	IHT 229	MH 2929	1.2	1.9	2.2	**2.1**	1.8	1.7	3.0	**1.9**	**30**
30	IHT 230	MH 2930	1.4	2.3	3.0	**2.7**	2.1	2.0	2.6	**2.2**	**6**
31	IHT 231	MH 2931	1.1	2.4	2.8	**2.6**	2.2	1.9	2.8	**2.1**	**11**
32	IHT 232	MH 2932	1.2	2.1	2.6	**2.3**	2.2	1.5	3.0	**2.1**	**17**
33	IHT 233	MH 2933	1.2	2.7	2.5	**2.6**	2.3	2.3	2.8	**2.2**	**8**
		LOC. MEAN	**1.2**	**2.3**	**2.6**	**2.5**	**1.9**	**2.2**	**2.8**	**2.1**	
		C.D. (5%)	**0.1**	**0.3**	**0.7**	**0.8**	**0.3**	**0.4**	**0.5**	**0.2**	
		C.D. (1%)	**0.2**	**0.4**	**1.0**	**1.0**	**0.4**	**0.6**	**0.6**	**0.3**	
		C.V. (%)	**6.2**	**7.6**	**17.7**	**19.8**	**10.8**	**12.0**	**10.3**	**16.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.402**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.40: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE LENGTH (cm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	23	25	26	27	28	26	**26**	28	27	26	24	25	**26**
2	IHT 202	MH 2906	21	23	23	27	27	26	**25**	25	26	25	25	27	**26**
3	IHT 203	MH 2907	21	24	25	27	28	26	**25**	27	25	22	23	25	**25**
4	IHT 204	MH 2908	24	23	22	27	27	26	**25**	28	25	28	22	26	**26**
5	IHT 205	MH 2909	23	21	23	25	26	25	**24**	26	26	26	23	23	**25**
6	IHT 206	MH 2910	22	21	24	26	27	27	**25**	27	26	23	22	24	**24**
7	IHT 207	MH 2911	22	21	24	24	26	27	**24**	26	25	22	20	22	**23**
8	IHT 208	PB 1852 (Check)	21	20	20	23	24	24	**22**	24	25	24	23	22	**24**
9	IHT 209	MH 2912	21	21	20	24	26	26	**23**	23	23	23	21	23	**23**
10	IHT 210	MH 2913	22	25	21	25	26	25	**24**	26	24	23	23	21	**23**
11	IHT 211	MH 2914	21	22	21	23	24	25	**23**	26	23	23	22	24	**24**
12	IHT 212	DHBH 1397 (Check)	21	20	20	26	26	26	**23**	26	24	23	19	24	**23**
13	IHT 213	MH 2915	24	20	22	23	23	25	**23**	22	19	22	21	22	**21**
14	IHT 214	MH 2916	21	21	20	23	25	25	**22**	23	24	24	19	21	**22**
15	IHT 215	MH 2917	22	22	21	25	25	27	**24**	24	24	24	24	26	**25**
16	IHT 216	MH 2918	22	24	23	27	28	26	**25**	28	25	24	22	23	**25**
17	IHT 217	MH 2919	22	22	22	27	28	28	**25**	25	26	27	23	22	**25**
18	IHT 218	86M94 (Check)	22	22	23	27	27	26	**24**	26	27	25	25	25	**26**
19	IHT 219	MH 2920	22	24	26	26	25	27	**25**	26	24	25	23	25	**25**
20	IHT 220	MH 2921	21	23	23	26	24	25	**24**	26	24	25	23	24	**24**
21	IHT 221	MH 2922	21	21	22	25	27	27	**24**	25	25	24	23	24	**24**
22	IHT 222	MH 2923	22	19	17	22	24	27	**22**	21	22	21	20	21	**21**
23	IHT 223	MH 2924	21	21	20	21	25	25	**22**	22	22	22	21	23	**22**
24	IHT 224	MH 2925	23	22	20	26	27	26	**24**	23	23	22	22	24	**23**
25	IHT 225	MH 2926	21	26	18	26	25	25	**24**	22	23	23	22	23	**23**
26	IHT 226	MH 2927	22	22	21	25	23	25	**23**	24	26	23	23	23	**24**
27	IHT 227	MH 2928	22	26	22	25	26	28	**25**	24	25	25	24	23	**24**
28	IHT 228	AHB 1200 (Check)	22	21	20	25	26	25	**23**	22	36	23	20	23	**25**
29	IHT 229	MH 2929	22	22	22	24	24	25	**23**	25	24	24	23	23	**24**
30	IHT 230	MH 2930	21	21	20	21	23	26	**22**	21	21	20	20	21	**20**
31	IHT 231	MH 2931	21	20	26	22	23	27	**23**	28	25	23	21	22	**24**
32	IHT 232	MH 2932	22	22	15	24	23	27	**22**	23	25	23	23	21	**23**
33	IHT 233	MH 2933	22	21	15	26	26	26	**23**	26	25	26	24	25	**25**
		LOC. MEAN	**22**	**22**	**21**	**25**	**26**	**26**	**24**	**25**	**25**	**24**	**22**	**23**	**24**
		C.D. (5%)	**2.0**	**3.0**	**1.0**	**4.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.0**
		C.D. (1%)	**3.0**	**5.0**	**2.0**	**6.0**	**2.0**	**3.0**	**2.0**	**3.0**	**4.0**	**3.0**	**4.0**	**4.0**	**3.0**
		C.V. (%)	**5.7**	**9.7**	**4.3**	**10.7**	**4.1**	**4.5**	**6.3**	**6.2**	**7.1**	**6.6**	**7.4**	**8.1**	**6.8**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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Table I.40: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE LENGTH (cm) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	26	24	26	**25**	28	23	27	**26**	**1**
2	IHT 202	MH 2906	28	24	27	**25**	24	24	24	**25**	**2**
3	IHT 203	MH 2907	27	25	25	**25**	23	21	25	**25**	**8**
4	IHT 204	MH 2908	28	22	25	**24**	25	24	25	**25**	**3**
5	IHT 205	MH 2909	26	24	27	**25**	23	25	26	**25**	**12**
6	IHT 206	MH 2910	26	24	25	**25**	24	23	26	**25**	**10**
7	IHT 207	MH 2911	24	24	25	**25**	22	24	24	**24**	**20**
8	IHT 208	PB 1852 (Check)	23	22	26	**24**	25	23	25	**23**	**24**
9	IHT 209	MH 2912	23	22	23	**22**	26	24	23	**23**	**26**
10	IHT 210	MH 2913	26	20	23	**22**	19	24	23	**23**	**22**
11	IHT 211	MH 2914	24	21	24	**23**	22	22	23	**23**	**27**
12	IHT 212	DHBH 1397 (Check)	27	23	23	**23**	23	24	25	**24**	**19**
13	IHT 213	MH 2915	21	22	26	**24**	20	21	23	**22**	**31**
14	IHT 214	MH 2916	24	22	23	**23**	23	23	25	**23**	**28**
15	IHT 215	MH 2917	24	24	25	**25**	23	21	25	**24**	**14**
16	IHT 216	MH 2918	27	22	27	**25**	24	21	26	**25**	**9**
17	IHT 217	MH 2919	27	25	26	**26**	22	23	25	**25**	**5**
18	IHT 218	86M94 (Check)	27	25	25	**25**	23	22	26	**25**	**6**
19	IHT 219	MH 2920	27	24	26	**25**	23	28	23	**25**	**4**
20	IHT 220	MH 2921	22	23	24	**23**	23	22	24	**24**	**16**
21	IHT 221	MH 2922	28	26	25	**26**	24	23	27	**25**	**11**
22	IHT 222	MH 2923	20	19	23	**21**	23	22	23	**22**	**33**
23	IHT 223	MH 2924	26	23	24	**23**	20	24	23	**23**	**30**
24	IHT 224	MH 2925	23	24	26	**25**	21	24	24	**23**	**21**
25	IHT 225	MH 2926	25	24	25	**24**	21	22	24	**23**	**23**
26	IHT 226	MH 2927	25	24	27	**26**	22	19	26	**24**	**18**
27	IHT 227	MH 2928	24	26	29	**28**	24	21	26	**25**	**7**
28	IHT 228	AHB 1200 (Check)	25	25	26	**26**	21	20	24	**24**	**15**
29	IHT 229	MH 2929	24	23	24	**24**	22	21	22	**23**	**25**
30	IHT 230	MH 2930	24	23	25	**24**	21	23	23	**22**	**32**
31	IHT 231	MH 2931	26	24	23	**24**	23	24	23	**24**	**17**
32	IHT 232	MH 2932	23	24	24	**24**	22	21	22	**23**	**29**
33	IHT 233	MH 2933	27	24	25	**25**	23	22	24	**24**	**13**
		LOC. MEAN	**25**	**23**	**25**	**24**	**23**	**23**	**24**	**24**	
		C.D. (5%)	**2.0**	**2.0**	**3.0**	**2.0**	**1.0**	**2.0**	**1.0**	**1.0**	
		C.D. (1%)	**2.0**	**3.0**	**4.0**	**3.0**	**1.0**	**2.0**	**2.0**	**1.0**	
		C.V. (%)	**4.6**	**6.4**	**7.9**	**4.7**	**2.5**	**4.9**	**3.6**	**6.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.003**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.41: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	3.0	2.9	2.6	3.2	3.4	3.4	**3.1**	3.9	3.2	3.0	2.8	**3.2**
2	IHT 202	MH 2906	2.9	2.5	2.6	3.5	3.2	3.4	**3.0**	3.8	3.3	2.8	3.4	**3.3**
3	IHT 203	MH 2907	2.7	2.5	2.9	3.1	3.4	3.1	**3.0**	3.6	2.7	2.0	2.8	**2.8**
4	IHT 204	MH 2908	3.1	2.6	3.1	3.4	3.1	3.3	**3.1**	3.4	3.3	2.7	3.1	**3.1**
5	IHT 205	MH 2909	3.0	2.6	2.8	2.9	3.3	2.8	**2.9**	3.2	2.9	2.6	2.8	**2.9**
6	IHT 206	MH 2910	3.1	2.6	3.1	3.5	3.6	3.4	**3.2**	4.1	3.3	2.7	3.5	**3.4**
7	IHT 207	MH 2911	2.9	2.5	3.5	3.4	3.4	3.0	**3.1**	3.7	3.0	2.5	3.3	**3.1**
8	IHT 208	PB 1852 (Check)	2.9	2.8	3.3	3.1	3.2	3.3	**3.1**	3.5	3.0	2.7	2.8	**3.0**
9	IHT 209	MH 2912	3.1	2.9	2.7	3.2	3.6	3.2	**3.1**	3.8	3.4	3.1	3.1	**3.3**
10	IHT 210	MH 2913	3.0	2.7	3.2	3.6	3.3	3.1	**3.2**	4.1	3.1	2.2	3.3	**3.2**
11	IHT 211	MH 2914	3.1	2.6	3.3	3.7	3.7	3.6	**3.3**	4.2	3.6	3.0	3.3	**3.5**
12	IHT 212	DHBH 1397 (Check)	3.1	2.5	3.2	3.1	3.2	3.1	**3.1**	3.5	3.3	2.4	3.0	**3.1**
13	IHT 213	MH 2915	3.1	2.1	2.1	2.2	2.5	2.7	**2.5**	2.7	2.3	2.0	2.3	**2.3**
14	IHT 214	MH 2916	3.1	2.6	3.5	3.7	3.6	3.5	**3.3**	4.2	3.4	2.8	3.4	**3.4**
15	IHT 215	MH 2917	2.9	2.8	3.5	3.2	3.5	3.7	**3.3**	3.7	3.3	2.9	3.3	**3.3**
16	IHT 216	MH 2918	2.9	2.7	2.4	3.4	3.7	3.3	**3.1**	3.9	3.2	2.8	3.4	**3.3**
17	IHT 217	MH 2919	2.8	2.5	3.1	3.3	3.5	3.2	**3.1**	3.6	3.3	2.6	2.7	**3.0**
18	IHT 218	86M94 (Check)	2.8	2.7	2.8	3.4	3.6	3.3	**3.1**	3.7	3.2	2.7	3.3	**3.2**
19	IHT 219	MH 2920	2.9	2.7	3.1	2.8	2.8	2.9	**2.9**	3.3	2.7	2.5	2.7	**2.8**
20	IHT 220	MH 2921	2.8	2.6	2.3	3.4	3.1	3.1	**2.9**	3.7	3.0	2.7	3.0	**3.1**
21	IHT 221	MH 2922	2.9	2.3	2.6	2.9	2.8	2.7	**2.7**	3.0	2.7	2.1	2.6	**2.6**
22	IHT 222	MH 2923	2.9	2.7	2.4	3.2	3.2	3.4	**3.0**	3.3	2.9	2.4	3.1	**3.0**
23	IHT 223	MH 2924	2.8	2.6	2.0	3.4	3.3	3.6	**3.0**	3.7	3.0	3.1	3.3	**3.3**
24	IHT 224	MH 2925	2.9	2.3	2.8	3.0	3.3	3.3	**2.9**	3.5	3.1	2.7	2.9	**3.1**
25	IHT 225	MH 2926	2.9	2.6	2.9	3.5	3.6	3.2	**3.1**	3.6	3.3	2.9	2.6	**3.1**
26	IHT 226	MH 2927	2.9	2.6	2.3	3.4	3.3	3.1	**2.9**	3.6	3.1	2.8	3.0	**3.1**
27	IHT 227	MH 2928	2.8	2.6	2.5	3.6	3.1	3.0	**2.9**	3.5	3.0	2.7	3.3	**3.2**
28	IHT 228	AHB 1200 (Check)	2.9	2.4	2.7	3.6	3.3	3.3	**3.0**	3.8	3.3	2.7	2.8	**3.2**
29	IHT 229	MH 2929	2.9	2.7	3.3	3.2	3.5	3.9	**3.2**	3.9	3.2	2.9	3.4	**3.3**
30	IHT 230	MH 2930	2.9	2.5	2.5	2.9	2.8	2.8	**2.7**	3.4	2.6	2.6	2.7	**2.8**
31	IHT 231	MH 2931	2.9	2.6	2.6	3.2	3.2	3.5	**3.0**	3.8	2.9	2.7	2.9	**3.1**
32	IHT 232	MH 2932	2.9	2.4	3.2	2.6	3.1	3.3	**2.9**	3.3	3.0	2.7	3.1	**3.0**
33	IHT 233	MH 2933	2.9	2.8	2.6	3.0	3.3	3.4	**3.0**	3.7	2.9	2.8	3.3	**3.2**
		LOC. MEAN	**2.9**	**2.6**	**2.8**	**3.2**	**3.3**	**3.2**	**3.0**	**3.6**	**3.1**	**2.6**	**3.0**	**3.1**
		C.D. (5%)	**0.2**	**0.3**	**0.2**	**0.6**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.5**	**0.3**
		C.D. (1%)	**0.3**	**0.3**	**0.3**	**0.8**	**0.4**	**0.3**	**0.4**	**0.4**	**0.4**	**0.6**	**0.7**	**0.4**
		C.V. (%)	**4.4**	**6.1**	**4.1**	**11.1**	**5.2**	**4.4**	**7.9**	**5.6**	**5.8**	**10.4**	**10.3**	**5.6**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

Contd..

Table I.41: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	3.7	2.6	3.7	**3.2**	3.0	2.5	3.4	**3.1**	11
2	IHT 202	MH 2906	3.9	2.8	3.7	**3.2**	2.6	2.8	3.3	**3.2**	9
3	IHT 203	MH 2907	3.6	2.8	3.0	**2.9**	2.3	2.7	3.2	**2.9**	29
4	IHT 204	MH 2908	3.9	2.7	3.3	**3.0**	2.5	3.2	3.2	**3.1**	15
5	IHT 205	MH 2909	3.7	3.2	3.5	**3.4**	2.4	3.1	3.5	**3.0**	24
6	IHT 206	MH 2910	3.7	2.8	3.5	**3.2**	2.4	3.3	3.3	**3.2**	4
7	IHT 207	MH 2911	3.9	3.0	3.6	**3.3**	2.7	3.0	3.3	**3.2**	7
8	IHT 208	PB 1852 (Check)	3.7	2.8	3.6	**3.2**	3.1	2.6	3.3	**3.1**	17
9	IHT 209	MH 2912	3.7	2.9	3.4	**3.2**	2.5	3.0	3.1	**3.2**	6
10	IHT 210	MH 2913	3.7	2.5	3.3	**2.9**	2.3	2.6	3.1	**3.1**	20
11	IHT 211	MH 2914	4.1	3.0	3.8	**3.4**	3.0	2.9	3.7	**3.4**	1
12	IHT 212	DHBH 1397 (Check)	3.7	2.7	3.5	**3.1**	2.7	3.1	3.3	**3.1**	18
13	IHT 213	MH 2915	2.9	1.9	3.0	**2.4**	1.7	2.4	2.5	**2.4**	33
14	IHT 214	MH 2916	3.9	3.1	3.7	**3.4**	3.4	3.1	3.7	**3.4**	2
15	IHT 215	MH 2917	3.5	2.8	3.8	**3.3**	2.5	3.3	3.4	**3.3**	3
16	IHT 216	MH 2918	3.7	2.7	3.6	**3.2**	2.5	2.8	3.4	**3.1**	10
17	IHT 217	MH 2919	3.9	3.3	3.4	**3.3**	2.5	2.8	3.2	**3.1**	16
18	IHT 218	86M94 (Check)	3.8	3.0	3.4	**3.2**	2.6	3.0	3.2	**3.2**	8
19	IHT 219	MH 2920	2.7	2.6	3.3	**3.0**	2.2	2.5	2.9	**2.8**	30
20	IHT 220	MH 2921	3.0	2.7	3.2	**2.9**	2.4	3.0	2.7	**2.9**	28
21	IHT 221	MH 2922	2.9	2.5	3.1	**2.8**	2.4	2.2	2.5	**2.6**	32
22	IHT 222	MH 2923	3.3	2.7	3.4	**3.1**	2.4	2.3	3.2	**2.9**	27
23	IHT 223	MH 2924	4.1	2.9	3.5	**3.2**	2.4	3.0	3.3	**3.1**	14
24	IHT 224	MH 2925	3.7	2.9	3.8	**3.4**	2.4	2.8	3.4	**3.0**	21
25	IHT 225	MH 2926	3.5	3.1	3.2	**3.2**	2.5	3.1	3.6	**3.1**	13
26	IHT 226	MH 2927	3.6	2.7	3.1	**2.9**	2.6	3.0	3.1	**3.0**	26
27	IHT 227	MH 2928	3.6	3.0	3.5	**3.3**	2.6	2.4	3.2	**3.0**	22
28	IHT 228	AHB 1200 (Check)	3.7	3.1	3.5	**3.3**	2.5	2.9	3.7	**3.1**	12
29	IHT 229	MH 2929	3.7	2.7	3.5	**3.1**	2.6	3.0	3.3	**3.2**	5
30	IHT 230	MH 2930	3.0	2.6	3.1	**2.9**	2.3	2.7	2.7	**2.8**	31
31	IHT 231	MH 2931	3.9	2.8	3.3	**3.1**	2.5	2.6	3.1	**3.0**	23
32	IHT 232	MH 2932	3.4	2.8	3.4	**3.1**	3.1	2.8	3.1	**3.0**	25
33	IHT 233	MH 2933	3.6	3.1	3.4	**3.2**	2.6	2.9	3.2	**3.1**	19
		LOC. MEAN	**3.6**	**2.8**	**3.4**	**3.1**	**2.5**	**2.8**	**3.2**	**3.1**	
		C.D. (5%)	**0.2**	**0.3**	**0.5**	**0.4**	**0.2**	**0.3**	**0.3**	**0.2**	
		C.D. (1%)	**0.3**	**0.4**	**0.6**	**0.6**	**0.2**	**0.4**	**0.4**	**0.2**	
		C.V. (%)	**4.2**	**6.1**	**8.4**	**6.4**	**4.5**	**6.7**	**5.2**	**7.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.42: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 1000- SEED Wt.(g) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	8.7	9.4	9.6	9.7	10.3	9.8	**9.6**	12.8	12.7	11.5	9.8	**11.7**
2	IHT 202	MH 2906	8.5	10.9	7.8	8.2	9.5	8.2	**8.8**	12.8	10.6	11.3	9.3	**11.0**
3	IHT 203	MH 2907	7.9	9.4	10.1	9.2	11.2	10.0	**9.6**	13.7	11.4	10.4	9.8	**11.3**
4	IHT 204	MH 2908	8.0	10.6	9.5	7.1	10.1	8.5	**9.0**	13.0	11.1	9.7	9.7	**10.9**
5	IHT 205	MH 2909	8.3	9.1	7.2	8.5	8.7	8.6	**8.4**	11.3	9.3	9.1	10.0	**9.9**
6	IHT 206	MH 2910	9.6	10.4	9.5	8.7	10.7	8.6	**9.6**	13.7	12.0	9.4	9.4	**11.2**
7	IHT 207	MH 2911	10.1	8.9	8.2	8.1	10.3	9.3	**9.2**	13.1	11.1	9.9	9.4	**10.9**
8	IHT 208	PB 1852 (Check)	9.9	9.7	9.9	10.0	11.9	10.5	**10.3**	13.4	11.3	8.9	9.4	**10.8**
9	IHT 209	MH 2912	9.0	11.3	9.3	7.5	11.5	9.8	**9.7**	13.6	11.6	9.8	9.6	**11.1**
10	IHT 210	MH 2913	9.3	10.6	9.2	8.8	10.7	9.6	**9.7**	13.3	12.7	8.1	9.9	**11.0**
11	IHT 211	MH 2914	9.1	9.6	7.8	6.7	9.8	9.5	**8.8**	13.3	10.1	9.1	9.7	**10.6**
12	IHT 212	DHBH 1397 (Check)	9.5	8.6	8.6	8.3	9.9	9.1	**9.0**	13.5	10.1	7.8	9.4	**10.2**
13	IHT 213	MH 2915	8.9	9.5	8.7	8.6	8.7	10.4	**9.1**	10.7	9.7	9.4	9.8	**9.9**
14	IHT 214	MH 2916	9.1	8.9	8.7	9.0	11.7	8.6	**9.3**	13.1	11.8	9.6	9.5	**11.0**
15	IHT 215	MH 2917	8.8	9.6	9.1	9.8	11.3	8.1	**9.4**	13.7	11.9	10.0	9.3	**11.2**
16	IHT 216	MH 2918	9.2	6.9	7.2	7.6	10.0	11.5	**8.7**	12.8	9.7	9.4	9.1	**10.3**
17	IHT 217	MH 2919	7.3	9.6	8.5	10.8	11.7	10.9	**9.8**	12.2	12.2	10.4	10.0	**11.2**
18	IHT 218	86M94 (Check)	8.2	8.5	10.1	9.3	11.2	9.8	**9.5**	14.0	11.8	11.3	9.6	**11.7**
19	IHT 219	MH 2920	8.2	9.4	9.5	7.3	9.7	9.4	**8.9**	11.9	9.6	10.0	10.0	**10.4**
20	IHT 220	MH 2921	8.8	8.3	7.1	8.2	8.2	6.9	**7.9**	10.7	8.7	9.2	10.0	**9.6**
21	IHT 221	MH 2922	8.8	11.2	8.8	8.7	10.5	9.6	**9.6**	13.6	10.8	9.1	10.2	**10.9**
22	IHT 222	MH 2923	9.0	9.1	8.7	6.9	10.0	9.6	**8.9**	12.5	11.1	10.6	9.5	**10.9**
23	IHT 223	MH 2924	8.9	9.6	7.3	8.1	9.5	8.6	**8.7**	11.8	10.0	9.2	10.0	**10.2**
24	IHT 224	MH 2925	8.0	9.8	7.7	8.2	9.0	8.4	**8.5**	13.2	10.1	9.5	9.6	**10.6**
25	IHT 225	MH 2926	7.1	9.6	8.8	9.4	11.0	10.1	**9.3**	13.6	11.2	10.5	9.9	**11.3**
26	IHT 226	MH 2927	9.3	9.7	9.1	9.3	10.4	10.9	**9.8**	12.9	10.8	10.4	9.3	**10.9**
27	IHT 227	MH 2928	8.5	9.6	10.3	9.6	11.0	10.8	**10.0**	13.6	11.1	10.8	9.6	**11.3**
28	IHT 228	AHB 1200 (Check)	7.8	9.7	8.6	7.4	10.1	9.2	**8.8**	13.8	10.6	10.7	10.0	**11.3**
29	IHT 229	MH 2929	9.7	7.5	7.8	8.5	9.3	9.3	**8.7**	11.6	10.0	8.9	9.4	**10.0**
30	IHT 230	MH 2930	10.2	11.0	10.5	8.2	9.2	10.9	**10.0**	13.9	11.2	10.9	9.3	**11.3**
31	IHT 231	MH 2931	7.9	10.5	9.8	7.9	9.8	10.8	**9.4**	13.6	11.1	11.7	9.3	**11.4**
32	IHT 232	MH 2932	8.4	9.5	8.7	9.8	9.3	10.5	**9.4**	12.0	10.5	10.4	9.5	**10.6**
33	IHT 233	MH 2933	9.2	9.2	8.3	9.5	11.2	9.1	**9.4**	13.4	11.3	11.2	9.5	**11.4**
		LOC. MEAN	**8.8**	**9.5**	**8.8**	**8.6**	**10.2**	**9.5**	**9.2**	**12.9**	**10.9**	**10.0**	**9.6**	**10.8**
		C.D. (5%)	**1.1**	**1.0**	**0.7**	**1.3**	**1.0**	**0.3**	**1.0**	**0.4**	**0.9**	**1.0**	**1.4**	**1.2**
		C.D. (1%)	**1.5**	**1.3**	**0.9**	**1.8**	**1.3**	**0.4**	**1.3**	**0.6**	**1.2**	**1.4**	**1.9**	**1.6**
		C.V. (%)	**7.7**	**6.4**	**4.7**	**9.5**	**6.0**	**1.9**	**9.2**	**2.1**	**5.3**	**6.4**	**9.1**	**6.5**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

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Table I.42: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 1000- SEED Wt.(g) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	11.4	8.2	14.8	**11.5**	12.1	8.9	9.5	**10.6**	1
2	IHT 202	MH 2906	10.4	8.3	10.4	**9.3**	9.8	7.5	10.4	**9.6**	23
3	IHT 203	MH 2907	10.1	9.1	11.3	**10.2**	13.1	10.2	9.5	**10.4**	3
4	IHT 204	MH 2908	10.4	7.5	11.2	**9.4**	11.3	8.5	9.6	**9.7**	21
5	IHT 205	MH 2909	11.7	8.9	10.0	**9.5**	7.3	7.1	10.8	**9.1**	31
6	IHT 206	MH 2910	10.7	7.7	10.7	**9.2**	10.9	10.4	9.5	**10.1**	12
7	IHT 207	MH 2911	10.3	8.5	11.6	**10.1**	10.0	9.3	9.8	**9.9**	17
8	IHT 208	PB 1852 (Check)	10.1	9.0	13.2	**11.1**	10.3	8.8	8.7	**10.3**	6
9	IHT 209	MH 2912	11.1	9.1	10.7	**9.9**	11.6	9.4	8.9	**10.2**	7
10	IHT 210	MH 2913	10.2	8.5	11.4	**10.0**	10.7	7.4	9.6	**10.0**	14
11	IHT 211	MH 2914	9.9	7.3	11.5	**9.4**	9.8	7.1	9.7	**9.4**	27
12	IHT 212	DHBH 1397 (Check)	10.1	7.5	13.5	**10.5**	10.9	7.2	9.4	**9.6**	24
13	IHT 213	MH 2915	10.5	7.2	10.4	**8.8**	9.2	8.9	9.3	**9.4**	28
14	IHT 214	MH 2916	10.2	8.0	10.7	**9.3**	11.1	7.8	9.6	**9.8**	19
15	IHT 215	MH 2917	11.2	8.7	11.5	**10.1**	11.0	8.6	10.0	**10.2**	9
16	IHT 216	MH 2918	10.2	7.8	8.1	**8.0**	9.4	10.1	9.7	**9.3**	29
17	IHT 217	MH 2919	10.1	9.5	11.9	**10.7**	11.4	9.8	10.1	**10.4**	3
18	IHT 218	86M94 (Check)	11.0	8.8	12.3	**10.5**	12.6	8.9	8.5	**10.4**	5
19	IHT 219	MH 2920	10.2	8.5	11.3	**9.9**	10.3	10.3	10.3	**9.7**	20
20	IHT 220	MH 2921	10.1	7.9	9.6	**8.7**	8.4	8.4	10.3	**8.8**	32
21	IHT 221	MH 2922	9.9	7.6	10.2	**8.9**	10.7	8.8	9.5	**9.9**	16
22	IHT 222	MH 2923	10.8	8.5	11.9	**10.2**	10.9	10.6	8.8	**9.9**	15
23	IHT 223	MH 2924	10.6	7.2	12.0	**9.6**	10.6	8.2	10.2	**9.5**	25
24	IHT 224	MH 2925	10.6	8.5	11.5	**10.0**	9.8	7.6	9.8	**9.5**	26
25	IHT 225	MH 2926	10.6	8.8	12.0	**10.4**	10.4	9.3	9.9	**10.1**	10
26	IHT 226	MH 2927	10.3	8.0	11.8	**9.9**	9.8	9.2	9.3	**10.0**	13
27	IHT 227	MH 2928	10.4	9.0	13.1	**11.1**	11.3	8.1	9.5	**10.4**	4
28	IHT 228	AHB 1200 (Check)	10.3	8.5	10.7	**9.6**	9.3	10.4	10.5	**9.9**	18
29	IHT 229	MH 2929	10.1	7.2	11.7	**9.4**	9.8	7.3	9.6	**9.2**	30
30	IHT 230	MH 2930	10.6	9.2	13.3	**11.3**	11.1	9.6	9.7	**10.5**	2
31	IHT 231	MH 2931	10.6	8.7	12.1	**10.4**	10.5	8.2	9.7	**10.1**	11
32	IHT 232	MH 2932	10.6	8.7	11.1	**9.9**	8.7	8.1	9.6	**9.7**	22
33	IHT 233	MH 2933	10.6	9.2	13.5	**11.4**	11.5	7.8	8.6	**10.2**	8
		LOC. MEAN	**10.5**	**8.3**	**11.5**	**9.9**	**10.5**	**8.7**	**9.6**	**9.9**	
		C.D. (5%)	**0.4**	**0.7**	**2.3**	**1.0**	**0.7**	**0.4**	**0.6**	**0.6**	
		C.D. (1%)	**0.5**	**0.9**	**3.0**	**1.3**	**0.9**	**0.6**	**0.8**	**0.8**	
		C.V. (%)	**2.1**	**5.2**	**12.1**	**5.1**	**4.0**	**2.9**	**3.9**	**8.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.063**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.43: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN	TLJ	AND	JMR	SKN	KTR	GUJ MEAN
1	IHT 201	MH 2905	77	73	90	115	74	81	**85**	50	71	72	78	23	**59**
2	IHT 202	MH 2906	90	72	85	124	68	80	**87**	68	84	96	80	42	**74**
3	IHT 203	MH 2907	94	74	88	125	79	78	**90**	67	78	96	78	44	**73**
4	IHT 204	MH 2908	88	67	94	124	65	81	**87**	63	62	89	79	31	**65**
5	IHT 205	MH 2909	97	65	87	98	59	79	**81**	60	75	95	75	41	**69**
6	IHT 206	MH 2910	90	68	106	131	80	78	**92**	64	75	93	76	39	**69**
7	IHT 207	MH 2911	98	68	80	119	79	80	**87**	51	76	98	82	37	**69**
8	IHT 208	PB 1852 (Check)	98	71	91	128	74	79	**90**	55	73	97	80	38	**68**
9	IHT 209	MH 2912	92	67	99	128	77	79	**90**	53	83	88	81	50	**71**
10	IHT 210	MH 2913	91	74	87	120	70	78	**87**	65	79	93	86	35	**71**
11	IHT 211	MH 2914	97	70	109	122	76	79	**92**	65	80	107	84	40	**75**
12	IHT 212	DHBH 1397 (Check)	90	75	99	133	74	79	**92**	65	88	95	80	42	**74**
13	IHT 213	MH 2915	105	69	93	135	76	80	**93**	63	80	99	82	43	**73**
14	IHT 214	MH 2916	97	67	90	126	78	78	**89**	66	82	92	82	44	**73**
15	IHT 215	MH 2917	94	65	101	135	80	80	**93**	66	76	93	75	42	**70**
16	IHT 216	MH 2918	92	68	98	132	71	79	**90**	51	78	96	81	31	**68**
17	IHT 217	MH 2919	85	68	100	135	74	81	**90**	55	87	95	81	49	**73**
18	IHT 218	86M94 (Check)	93	71	119	124	77	79	**94**	63	75	104	80	44	**73**
19	IHT 219	MH 2920	87	67	107	113	76	80	**88**	43	76	92	80	28	**64**
20	IHT 220	MH 2921	94	68	90	123	71	78	**87**	63	87	95	81	41	**73**
21	IHT 221	MH 2922	92	68	99	131	79	79	**91**	60	83	98	76	37	**71**
22	IHT 222	MH 2923	85	71	100	125	76	80	**90**	48	90	72	77	43	**66**
23	IHT 223	MH 2924	94	67	93	119	72	79	**87**	52	67	97	83	41	**68**
24	IHT 224	MH 2925	92	66	83	128	74	79	**87**	40	77	91	82	37	**65**
25	IHT 225	MH 2926	93	67	79	125	69	78	**85**	52	79	92	79	32	**67**
26	IHT 226	MH 2927	97	66	84	121	67	80	**86**	43	78	101	75	37	**67**
27	IHT 227	MH 2928	94	67	83	128	71	80	**87**	54	79	100	79	40	**70**
28	IHT 228	AHB 1200 (Check)	97	66	88	126	70	80	**88**	58	67	105	83	43	**71**
29	IHT 229	MH 2929	101	65	84	124	74	78	**88**	52	91	110	76	43	**74**
30	IHT 230	MH 2930	93	69	76	114	81	80	**86**	44	66	85	82	32	**62**
31	IHT 231	MH 2931	94	71	85	121	65	79	**86**	51	65	95	83	46	**68**
32	IHT 232	MH 2932	90	67	91	116	71	79	**86**	52	80	98	81	39	**70**
33	IHT 233	MH 2933	98	66	100	135	74	80	**92**	56	88	96	81	36	**71**
		LOC. MEAN	**93**	**69**	**93**	**124**	**73**	**79**	**89**	**56**	**78**	**95**	**80**	**39**	**70**
		C.D. (5%)	**11.0**	**7.0**	**9.0**	**17.0**	**10.0**	**3.0**	**6.0**	**5.0**	**15.0**	**18.0**	**7.0**	**8.0**	**8.0**
		C.D. (1%)	**14.0**	**9.0**	**12.0**	**22.0**	**14.0**	**4.0**	**9.0**	**7.0**	**20.0**	**24.0**	**9.0**	**10.0**	**10.0**
		C.V. (%)	**7.1**	**5.9**	**6.1**	**8.3**	**8.7**	**2.6**	**6.4**	**5.9**	**11.8**	**11.9**	**5.3**	**12.2**	**8.7**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.035**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.002**

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Table I.43: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE A

S.No.	TEST CODE	ENTRY	MTR	BWL	HSR	HAR MEAN	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	65	78	64	**71**	46	82	82	**72**	**32**
2	IHT 202	MH 2906	83	88	73	**81**	61	82	81	**80**	**11**
3	IHT 203	MH 2907	84	87	72	**80**	72	81	81	**81**	**2**
4	IHT 204	MH 2908	73	80	63	**71**	39	81	78	**74**	**31**
5	IHT 205	MH 2909	84	87	70	**79**	88	81	79	**78**	**19**
6	IHT 206	MH 2910	80	98	72	**85**	71	82	77	**81**	**1**
7	IHT 207	MH 2911	84	82	70	**76**	64	81	72	**78**	**20**
8	IHT 208	PB 1852 (Check)	84	86	67	**76**	64	80	73	**79**	**16**
9	IHT 209	MH 2912	84	99	69	**84**	61	81	71	**80**	**8**
10	IHT 210	MH 2913	81	72	70	**71**	51	81	80	**77**	**22**
11	IHT 211	MH 2914	83	78	67	**72**	47	81	75	**80**	**9**
12	IHT 212	DHBH 1397 (Check)	83	89	69	**79**	38	81	80	**80**	**7**
13	IHT 213	MH 2915	84	88	68	**78**	49	80	76	**81**	**5**
14	IHT 214	MH 2916	84	86	68	**77**	71	81	80	**81**	**4**
15	IHT 215	MH 2917	84	87	69	**78**	45	80	73	**79**	**14**
16	IHT 216	MH 2918	83	77	75	**76**	65	80	72	**78**	**18**
17	IHT 217	MH 2919	84	87	67	**77**	62	80	79	**81**	**6**
18	IHT 218	86M94 (Check)	84	84	73	**79**	46	80	77	**81**	**3**
19	IHT 219	MH 2920	83	82	72	**77**	18	80	79	**74**	**30**
20	IHT 220	MH 2921	84	89	65	**77**	64	80	74	**79**	**13**
21	IHT 221	MH 2922	82	85	69	**77**	38	81	78	**78**	**17**
22	IHT 222	MH 2923	82	78	73	**76**	36	80	82	**76**	**24**
23	IHT 223	MH 2924	81	78	73	**75**	38	80	78	**76**	**25**
24	IHT 224	MH 2925	83	86	68	**77**	30	80	79	**75**	**29**
25	IHT 225	MH 2926	84	82	68	**75**	46	80	79	**76**	**28**
26	IHT 226	MH 2927	79	76	77	**76**	44	81	81	**76**	**27**
27	IHT 227	MH 2928	78	89	71	**80**	49	80	77	**78**	**21**
28	IHT 228	AHB 1200 (Check)	82	85	77	**81**	55	81	79	**79**	**15**
29	IHT 229	MH 2929	81	87	71	**79**	51	81	83	**80**	**12**
30	IHT 230	MH 2930	38	80	72	**76**	35	80	81	**71**	**33**
31	IHT 231	MH 2931	83	76	69	**73**	49	81	75	**76**	**26**
32	IHT 232	MH 2932	81	82	67	**75**	57	80	73	**77**	**23**
33	IHT 233	MH 2933	84	86	76	**81**	45	80	78	**80**	**10**
		LOC. MEAN	**80**	**84**	**70**	**77**	**51**	**81**	**78**	**78**	
		C.D. (5%)	**4.0**	**8.0**	**9.0**	**10.0**	**15.0**	**1.0**	**3.0**	**4.0**	
		C.D. (1%)	**5.0**	**11.0**	**12.0**	**14.0**	**19.0**	**2.0**	**3.0**	**6.0**	
		C.V. (%)	**2.8**	**5.9**	**8.0**	**6.5**	**17.4**	**0.9**	**2.1**	**8.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.657**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.44: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JPR2	ALW6	DAS	RAJ MEAN
1	IHT 201	MH 2905	75	55	87	80	67	97	**77**
2	IHT 202	MH 2906	73	52	95	97	83	100	**83**
3	IHT 203	MH 2907	74	47	100	93	87	94	**83**
4	IHT 204	MH 2908	72	57	90	80	62	97	**76**
5	IHT 205	MH 2909	84	55	83	100	87	97	**84**
6	IHT 206	MH 2910	76	43	93	100	70	98	**80**
7	IHT 207	MH 2911	75	47	90	100	57	98	**78**
8	IHT 208	PB 1852 (Check)	80	52	97	97	90	97	**85**
9	IHT 209	MH 2912	73	55	95	83	53	97	**76**
10	IHT 210	MH 2913	72	53	83	87	67	95	**76**
11	IHT 211	MH 2914	73	47	85	83	70	97	**76**
12	IHT 212	DHBH 1397 (Check)	82	55	90	97	67	93	**81**
13	IHT 213	MH 2915	70	53	85	27	50	98	**64**
14	IHT 214	MH 2916	75	53	92	100	87	95	**84**
15	IHT 215	MH 2917	82	52	85	100	87	98	**84**
16	IHT 216	MH 2918	77	52	100	100	90	97	**86**
17	IHT 217	MH 2919	80	57	85	100	80	97	**83**
18	IHT 218	86M94 (Check)	78	55	85	100	80	97	**83**
19	IHT 219	MH 2920	76	62	75	93	63	100	**78**
20	IHT 220	MH 2921	77	52	98	100	90	97	**86**
21	IHT 221	MH 2922	70	45	85	33	5	95	**56**
22	IHT 222	MH 2923	68	52	80	100	73	100	**79**
23	IHT 223	MH 2924	71	47	75	-	43	93	**66**
24	IHT 224	MH 2925	78	48	82	60	47	98	**69**
25	IHT 225	MH 2926	72	48	82	100	60	98	**77**
26	IHT 226	MH 2927	73	48	75	77	70	93	**73**
27	IHT 227	MH 2928	74	60	77	80	60	95	**74**
28	IHT 228	AHB 1200 (Check)	78	45	82	83	60	93	**74**
29	IHT 229	MH 2929	78	57	90	100	77	94	**82**
30	IHT 230	MH 2930	73	53	92	97	57	98	**78**
31	IHT 231	MH 2931	71	48	87	67	63	98	**72**
32	IHT 232	MH 2932	73	52	92	93	67	95	**79**
33	IHT 233	MH 2933	71	53	85	97	87	98	**82**
		LOC. MEAN	**75**	**52**	**87**	**88**	**68**	**97**	**78**
		C.D. (5%)	**7.0**	**10.0**	**4.0**	**23.0**	**23.0**	**7.0**	**11.0**
		C.D. (1%)	**10.0**	**13.0**	**6.0**	**31.0**	**30.0**	**9.0**	**15.0**
		C.V. (%)	**6.0**	**12.0**	**3.0**	**16.2**	**20.4**	**4.2**	**12.4**
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

Contd..

Table I.44: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE A

S.No.	TEST CODE	ENTRY	JMR	MTR	HSR	GLR	LDA	NDL	ZONE MEAN	RANK
1	IHT 201	MH 2905	70	75	88	100	90	85	81	16
2	IHT 202	MH 2906	70	87	87	100	77	83	84	12
3	IHT 203	MH 2907	73	93	89	100	72	73	83	13
4	IHT 204	MH 2908	54	77	91	100	62	78	76	22
5	IHT 205	MH 2909	81	87	90	90	75	77	84	11
6	IHT 206	MH 2910	72	92	88	82	77	80	81	15
7	IHT 207	MH 2911	72	93	92	100	88	73	82	14
8	IHT 208	PB 1852 (Check)	89	88	88	100	85	85	87	1
9	IHT 209	MH 2912	39	73	90	83	85	82	76	23
10	IHT 210	MH 2913	56	93	91	100	77	72	79	19
11	IHT 211	MH 2914	64	70	90	100	83	75	78	20
12	IHT 212	DHBH 1397 (Check)	73	64	89	100	83	70	80	17
13	IHT 213	MH 2915	42	66	87	100	67	67	68	31
14	IHT 214	MH 2916	76	90	89	100	85	93	86	4
15	IHT 215	MH 2917	84	60	92	100	93	93	86	5
16	IHT 216	MH 2918	88	90	88	100	63	82	86	6
17	IHT 217	MH 2919	85	88	93	100	83	88	86	3
18	IHT 218	86M94 (Check)	73	78	91	100	77	92	84	10
19	IHT 219	MH 2920	52	86	87	87	72	48	75	24
20	IHT 220	MH 2921	81	88	90	100	70	80	85	7
21	IHT 221	MH 2922	23	4	88	100	83	63	58	33
22	IHT 222	MH 2923	78	93	89	100	96	82	84	9
23	IHT 223	MH 2924	61	67	87	80	80	78	71	27
24	IHT 224	MH 2925	35	4	89	100	75	65	65	32
25	IHT 225	MH 2926	47	18	91	100	63	70	71	28
26	IHT 226	MH 2927	54	50	90	92	72	62	71	26
27	IHT 227	MH 2928	59	92	90	100	73	62	77	21
28	IHT 228	AHB 1200 (Check)	53	37	90	85	62	77	70	29
29	IHT 229	MH 2929	88	90	91	100	83	90	86	2
30	IHT 230	MH 2930	70	88	89	88	57	85	79	18
31	IHT 231	MH 2931	51	40	92	100	53	53	69	30
32	IHT 232	MH 2932	65	32	87	100	72	65	74	25
33	IHT 233	MH 2933	81	90	90	100	77	92	85	8
		LOC. MEAN	65	71	89	97	76	76	78	
		C.D. (5%)	21.0	25.0	5.0	9.0	4.0	7.0	12.0	
		C.D. (1%)	28.0	34.0	7.0	12.0	6.0	10.0	16.0	
		C.V. (%)	19.5	21.8	3.6	5.6	3.5	6.0	15.9	
		F (Prob)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Table I.45: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 ZONE A
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	MDR	JPR	JPR2	ALW6	DAS	TLJ	JMR	SKN	KTR	MTR	BWL	HSR	LDA	NDL	ZONE MEAN	RANK
1	IHT 203	MH 2907	44	28	28	48	40	53	46	38	35	44	42	45	48	76	**44**	**5**
2	IHT 208	PB 1852 (Check)	48	40	35	69	52	52	48	45	45	48	54	46	66	57	**51**	**3**
3	IHT 212	DHBH 1397 (Check)	46	46	37	75	58	63	57	47	64	55	68	59	62	64	**57**	**2**
4	IHT 214	MH 2916	44	32	31	56	47	44	45	38	44	41	43	53	38	68	**44**	**5**
5	IHT 215	MH 2917	42	31	31	48	42	43	40	36	40	39	49	54	60	60	**44**	**5**
6	IHT 217	MH 2919	45	34	36	59	42	43	47	38	36	50	48	47	40	68	**45**	**4**
7	IHT 218	86M94 (Check)	41	39	33	52	41	42	50	36	52	42	45	54	39	62	**45**	**4**
8	IHT 228	AHB 1200 (Check)	56	48	49	84	80	76	68	59	63	79	87	65	65	63	**67**	**1**
9	IHT 233	MH 2933	35	32	30	55	52	45	45	38	55	43	47	56	33	63	**45**	**4**

Table I.46: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 ZONE A
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	MDR	JPR	JPR2	ALW6	DAS	TLJ	JMR	SKN	KTR	MTR	BWL	HSR	LDA	NDL	ZONE MEAN	RANK
1	IHT 203	MH 2907	52	29	26	22	31	30	44	33	34	13	27	41	58	36	**34**	**5**
2	IHT 208	PB 1852 (Check)	44	28	29	28	32	32	41	29	40	20	34	39	60	33	**35**	**4**
3	IHT 212	DHBH 1397 (Check)	56	33	33	37	35	29	51	38	42	16	37	48	63	36	**40**	**1**
4	IHT 214	MH 2916	51	35	31	32	33	27	47	38	44	20	32	43	59	42	**38**	**3**
5	IHT 215	MH 2917	52	28	24	24	24	29	39	34	42	20	29	45	65	36	**35**	**4**
6	IHT 217	MH 2919	49	33	34	28	28	30	43	32	39	20	32	43	54	32	**35**	**4**
7	IHT 218	86M94 (Check)	54	37	36	31	32	29	50	37	46	22	31	47	58	39	**39**	**2**
8	IHT 228	AHB 1200 (Check)	54	34	31	29	37	42	46	37	45	16	42	41	61	45	**40**	**1**
9	IHT 233	MH 2933	41	33	29	27	33	36	40	32	38	14	33	38	42	39	**34**	**5**

Table I.47: INITIAL HYBRID TRIAL (Medium) KHARIF 2025 EXPERIMENTAL DETAILS ZONE B

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers			Insecticide
							N	P	K	
MAHARASHTRA										
Aurangabad (NARP)	MB	7.5	13.7.25	28.10.25	Nil	Nil	60	30	30	Nil
Paithan (Nath BioGenes)	BCS	-	05.7.25	13.10.25	30.7.25	As Per Required	60	30	0	Nil
Dhule (MPKV)	MB	8.6	01.7.25	11.10.25	24.7.25	Nil	60	30	0	Nil
Pachora (Nirmal Seed)	MB	7.6	02.7.25	04.11.25	31.7.25	02.7.25	100	50	50	Nil
KARNATAKA										
VIjayapur (UAS, Dharwad)	SB	8.7	09.7.25	03.11.25	19.8.25	Nil	50	25	0	Nil
ANDHRA PRADESH										
Ananthapuram (ANGRAU)	A	6.7	21.7.25	26.10.25	15.8.25	Nil	60	30	20	Nil
Perumallapalle (ANGRAU)	SCL	-	01.7.25	27.9.25	-	Nil	60	40	30	Nil
TAMIL NADU										
Coimbatore (TNAU)	CL	7.8	02.7.25	10.10.25	Nil	02.7,05.7,06.8,20.8.25	80	40	40	Nil
ODISHA										
Semiliguda (OUAT)	SL	-	19.7.25	-	Nil	Nil	60	30	30	Nil

SB=Shallow Black, MB=Medium Black, CL=Clay Loam, SCL=Sandy Clay Loam, SL=Sandy Loam, A=Alfisols, BCS=Black Cotton Soil

Table I.48: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	IHT 201	MH 2905	3700	4348	2370	2042	**3115**	1666	2567	4468	**3518**	4761	2256	**3131**	7
2	IHT 202	MH 2906	3967	4231	3314	2523	**3508**	2548	1874	2208	**2041**	4494	2222	**3042**	9
3	IHT 203	MH 2907	3937	3650	3406	2465	**3365**	2913	2777	3731	**3254**	4522	1461	**3207**	5
4	IHT 204	MH 2908	2333	2863	1453	1021	**1918**	1678	1445	1884	**1665**	3283	1222	**1909**	32
5	IHT 205	MH 2909	3550	3695	4101	2823	**3542**	1819	2110	3871	**2990**	4033	1733	**3082**	8
6	IHT 206	MH 2910	3729	3850	2801	1982	**3091**	1967	2168	3614	**2891**	4767	1650	**2948**	13
7	IHT 207	MH 2911	4227	3288	2384	1982	**2970**	2027	2204	3725	**2964**	3361	1344	**2727**	17
8	IHT 208	Pratap (Check)	3927	2506	1778	1679	**2473**	2389	2178	3834	**3006**	3911	872	**2564**	20
9	IHT 209	MH 2912	2875	2930	4369	2102	**3069**	2318	2544	2362	**2453**	3433	1694	**2736**	16
10	IHT 210	MH 2913	3167	2075	2122	2102	**2366**	2047	2178	2901	**2539**	3678	1667	**2437**	24
11	IHT 211	MH 2914	4222	2674	2897	2282	**3019**	2567	3232	3799	**3516**	5050	1500	**3136**	6
12	IHT 212	86M01 (Check)	3420	3415	2599	1892	**2832**	2832	2779	3726	**3252**	4294	1839	**2977**	12
13	IHT 213	MH 2915	2699	1707	2129	2000	**2134**	2313	2046	3008	**2527**	2422	1611	**2215**	29
14	IHT 214	MH 2916	3564	3948	3874	2613	**3500**	2482	2100	4179	**3140**	4894	2511	**3352**	4
15	IHT 215	MH 2917	4053	4433	3802	1952	**3560**	2698	3084	4243	**3663**	5072	1689	**3447**	2
16	IHT 216	MH 2918	3125	4279	2472	2402	**3070**	2056	2536	5061	**3798**	3439	1778	**3016**	11
17	IHT 217	MH 2919	4190	5341	3935	2072	**3884**	3093	2701	4846	**3773**	4967	2150	**3699**	1
18	IHT 218	AHB 1269 (Check)	3150	2935	2279	2090	**2614**	1891	2023	3449	**2736**	3650	1772	**2582**	19
19	IHT 219	MH 2920	2153	2700	2538	2138	**2382**	1883	1750	3672	**2711**	3528	1500	**2429**	25
20	IHT 220	MH 2921	3668	2937	2671	2261	**2884**	1746	2092	4641	**3366**	4761	1611	**2932**	14
21	IHT 221	MH 2922	3467	2775	2190	2042	**2619**	1774	1803	4403	**3103**	2761	939	**2462**	22
22	IHT 222	MH 2923	3083	2607	1859	1838	**2347**	1571	2098	3536	**2817**	4411	972	**2442**	23
23	IHT 223	MH 2924	2347	2562	2735	1922	**2391**	1583	1830	2792	**2311**	2944	1056	**2197**	30
24	IHT 224	MH 2925	3207	2441	2340	1532	**2380**	1413	1743	2209	**1976**	3028	989	**2100**	31
25	IHT 225	MH 2926	2750	2767	2381	1357	**2314**	2166	1935	3444	**2690**	4644	1056	**2500**	21
26	IHT 226	MH 2927	2913	2693	2161	1562	**2332**	1874	1752	4703	**3228**	3311	783	**2417**	26
27	IHT 227	MH 2928	3143	3177	2706	1856	**2720**	1996	2014	5216	**3615**	3967	1156	**2803**	15
28	IHT 228	AHB 1200 (Check)	3420	2318	2255	1390	**2346**	1497	1939	3754	**2846**	3311	922	**2312**	28
29	IHT 229	MH 2929	4972	3269	2723	2018	**3245**	2638	1811	3417	**2614**	5033	1314	**3022**	10
30	IHT 230	MH 2930	2581	2023	2088	841	**1883**	1385	1869	1804	**1836**	2528	1706	**1869**	33
31	IHT 231	MH 2931	2375	3136	2196	1405	**2278**	1672	2417	3817	**3117**	3233	1250	**2389**	27
32	IHT 232	MH 2932	2618	3200	2423	1907	**2537**	2079	2034	4203	**3119**	4783	1217	**2718**	18
33	IHT 233	MH 2933	4083	4500	3644	1931	**3540**	3049	3049	4775	**3912**	3283	1967	**3365**	3
		LOC. MEAN	**3352**	**3190**	**2697**	**1940**	**2795**	**2110**	**2202**	**3676**	**2939**	**3926**	**1497**	**2732**	
		C.D. (5%)	**466**	**922**	**653**	**530**	**686**	**458**	**318**	**999**	**1188**	**521**	**476**	**472**	
		C.D. (1%)	**620**	**1225**	**868**	**705**	**908**	**609**	**423**	**1327**	**1597**	**693**	**633**	**621**	
		C.V. (%)	**8.5**	**17.7**	**14.9**	**16.8**	**17.5**	**13.3**	**8.9**	**16.7**	**19.8**	**8.1**	**19.5**	**18.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.035**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**7.20**	**5.55**	**5.55**	**-**	**6.00**	**6.00**	**6.00**	**-**	**6.00**	**6.00**	**-**	

Table I.49: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	6833	8248	5405	11832	**8080**	3111	7944	5285	**6615**	8294	**7119**	7
2	IHT 202	MH 2906	6500	7694	5045	9610	**7212**	3333	4889	6300	**5594**	6761	**6267**	17
3	IHT 203	MH 2907	7000	5176	4204	9610	**6497**	3556	6667	6077	**6372**	5256	**5943**	23
4	IHT 204	MH 2908	9056	4613	4865	9850	**7096**	3444	4611	5616	**5114**	6944	**6125**	21
5	IHT 205	MH 2909	6500	6861	5826	9670	**7214**	3389	4667	5142	**4904**	5439	**5937**	24
6	IHT 206	MH 2910	8278	8648	5105	9009	**7760**	3722	4722	6837	**5780**	6011	**6542**	15
7	IHT 207	MH 2911	7722	5313	4565	9429	**6757**	3611	5389	7478	**6434**	5761	**6159**	19
8	IHT 208	Pratap (Check)	8833	3289	4505	6006	**5658**	3944	4556	5650	**5103**	4928	**5214**	33
9	IHT 209	MH 2912	7944	5491	8769	12312	**8629**	3556	5667	5706	**5686**	5689	**6892**	11
10	IHT 210	MH 2913	7556	3738	5345	7207	**5962**	3444	4611	5063	**4837**	4811	**5222**	32
11	IHT 211	MH 2914	8167	4748	4324	12072	**7328**	3556	7944	7662	**7803**	7639	**7014**	9
12	IHT 212	86M01 (Check)	8500	5389	4625	11892	**7601**	3556	5833	6742	**6288**	6256	**6599**	14
13	IHT 213	MH 2915	6444	6523	5405	14595	**8242**	3722	4944	5511	**5228**	6172	**6665**	13
14	IHT 214	MH 2916	8722	9211	5706	11952	**8898**	3944	7167	5900	**6533**	8100	**7588**	4
15	IHT 215	MH 2917	7333	7912	7868	12973	**9022**	4000	6944	7539	**7242**	5761	**7541**	5
16	IHT 216	MH 2918	9722	6190	4925	12192	**8257**	3111	5556	4149	**4852**	6028	**6484**	16
17	IHT 217	MH 2919	7389	8431	7568	12913	**9075**	3722	7444	8856	**8150**	8317	**8080**	1
18	IHT 218	AHB 1269 (Check)	9000	4799	4625	8649	**6768**	3056	4611	6582	**5596**	4956	**5784**	27
19	IHT 219	MH 2920	8111	4748	5105	10450	**7104**	3333	5778	5327	**5553**	3717	**5821**	26
20	IHT 220	MH 2921	9278	5137	7447	13994	**8964**	2667	4389	7539	**5964**	7844	**7287**	6
21	IHT 221	MH 2922	6278	4889	6847	10631	**7161**	3611	4833	6883	**5858**	6089	**6258**	18
22	IHT 222	MH 2923	9000	7678	4444	7508	**7158**	3278	5611	5069	**5340**	4483	**5884**	25
23	IHT 223	MH 2924	6944	4664	6486	8889	**6746**	3444	4500	5346	**4923**	5033	**5664**	28
24	IHT 224	MH 2925	9222	3722	5465	7327	**6434**	3333	4500	4033	**4266**	4761	**5296**	31
25	IHT 225	MH 2926	9556	5410	5646	9610	**7555**	4000	4722	2954	**3838**	7133	**6129**	20
26	IHT 226	MH 2927	8722	4287	4565	7267	**6210**	3556	4556	5199	**4877**	4233	**5298**	30
27	IHT 227	MH 2928	7444	7947	5826	16637	**9463**	3944	5444	9508	**7476**	6333	**7885**	3
28	IHT 228	AHB 1200 (Check)	9000	4470	6426	7748	**6911**	2889	4889	8388	**6638**	4561	**6046**	22
29	IHT 229	MH 2929	9444	9093	6727	15255	**10130**	4111	5833	5582	**5708**	8206	**8031**	2
30	IHT 230	MH 2930	9333	4176	5345	8889	**6936**	2500	4500	3779	**4139**	3961	**5310**	29
31	IHT 231	MH 2931	7667	7611	6306	10450	**8009**	3889	5222	6765	**5994**	7300	**6901**	10
32	IHT 232	MH 2932	8333	7000	6366	11772	**8368**	4167	5167	7303	**6235**	6172	**7035**	8
33	IHT 233	MH 2933	8533	6951	5285	12853	**8406**	3778	6389	5536	**5962**	4467	**6724**	12
		LOC. MEAN	**8132**	**6062**	**5666**	**10638**	**7625**	**3524**	**5470**	**6100**	**5785**	**5982**	**6447**	
		C.D. (5%)	**2195**	**2294**	**1593**	**5046**	**2165**	**504**	**710**	**1682**	**2204**	**897**	**1255**	
		C.D. (1%)	**2917**	**3048**	**2117**	**6706**	**2867**	**669**	**943**	**2235**	**2963**	**1192**	**1655**	
		C.V. (%)	**16.6**	**23.2**	**17.2**	**29.1**	**20.2**	**8.8**	**8.0**	**16.9**	**18.7**	**9.2**	**19.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.008**	**0.000**	**0.000**	**0.000**	**0.063**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**7.20**	**5.55**	**5.55**	**-**	**6.00**	**6.00**	**6.00**	**-**	**6.00**	**-**	

Table I.50: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN*	DHL*	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	IHT 201	MH 2905	51	56	58	52	**51**	51	47	53	**50**	52	43	**50**	**9**
2	IHT 202	MH 2906	51	53	54	49	**50**	50	45	50	**48**	48	44	**48**	**16**
3	IHT 203	MH 2907	51	52	52	48	**50**	49	44	49	**46**	46	42	**47**	**20**
4	IHT 204	MH 2908	52	53	54	52	**52**	49	47	51	**49**	50	43	**49**	**12**
5	IHT 205	MH 2909	51	54	52	49	**50**	48	44	50	**47**	48	42	**47**	**18**
6	IHT 206	MH 2910	51	54	52	48	**50**	49	42	50	**46**	46	38	**46**	**28**
7	IHT 207	MH 2911	50	53	55	52	**51**	48	43	48	**46**	46	40	**47**	**24**
8	IHT 208	Pratap (Check)	51	52	54	48	**50**	49	41	49	**45**	48	44	**47**	**19**
9	IHT 209	MH 2912	52	52	49	50	**51**	48	42	48	**45**	45	42	**47**	**23**
10	IHT 210	MH 2913	51	54	50	48	**50**	48	40	48	**44**	46	43	**46**	**27**
11	IHT 211	MH 2914	51	59	55	54	**53**	50	45	49	**47**	48	50	**50**	**8**
12	IHT 212	86M01 (Check)	50	53	55	50	**50**	50	44	49	**47**	49	45	**48**	**17**
13	IHT 213	MH 2915	51	50	50	48	**50**	47	36	44	**40**	44	42	**45**	**32**
14	IHT 214	MH 2916	51	57	55	51	**51**	50	48	51	**50**	50	48	**50**	**7**
15	IHT 215	MH 2917	50	55	54	49	**50**	50	46	49	**48**	49	46	**48**	**15**
16	IHT 216	MH 2918	55	51	56	49	**52**	50	47	51	**49**	49	53	**51**	**4**
17	IHT 217	MH 2919	51	52	53	54	**52**	50	49	52	**50**	50	51	**51**	**2**
18	IHT 218	AHB 1269 (Check)	52	54	51	48	**50**	48	40	45	**43**	49	43	**47**	**26**
19	IHT 219	MH 2920	49	50	52	48	**48**	49	37	42	**40**	44	43	**44**	**33**
20	IHT 220	MH 2921	51	59	57	53	**52**	51	45	49	**47**	52	45	**49**	**11**
21	IHT 221	MH 2922	51	54	54	49	**50**	49	45	45	**45**	47	43	**47**	**22**
22	IHT 222	MH 2923	49	51	51	49	**49**	52	38	46	**42**	48	44	**47**	**25**
23	IHT 223	MH 2924	51	50	51	48	**49**	50	37	46	**42**	45	43	**46**	**31**
24	IHT 224	MH 2925	52	51	53	51	**52**	48	36	45	**41**	44	45	**46**	**30**
25	IHT 225	MH 2926	52	57	54	54	**53**	50	45	52	**48**	50	45	**50**	**10**
26	IHT 226	MH 2927	54	58	55	54	**54**	51	48	53	**51**	52	47	**51**	**1**
27	IHT 227	MH 2928	51	58	56	54	**53**	50	44	47	**46**	49	45	**49**	**13**
28	IHT 228	AHB 1200 (Check)	51	53	53	49	**50**	50	41	48	**45**	47	43	**47**	**21**
29	IHT 229	MH 2929	51	58	57	53	**52**	51	48	54	**51**	48	47	**50**	**6**
30	IHT 230	MH 2930	57	50	52	48	**52**	50	37	47	**42**	44	42	**46**	**29**
31	IHT 231	MH 2931	53	58	55	51	**52**	49	44	50	**47**	50	44	**49**	**14**
32	IHT 232	MH 2932	52	57	54	53	**53**	51	46	51	**49**	52	47	**50**	**5**
33	IHT 233	MH 2933	50	58	56	54	**52**	51	48	53	**51**	51	47	**51**	**3**
		LOC. MEAN	**51**	**54**	**54**	**51**	**51**	**50**	**43**	**49**	**46**	**48**	**45**	**48**	
		C.D. (5%)	**2.0**	**2.0**	**2.0**	**3.0**	**4.0**	**1.0**	**1.0**	**2.0**	**3.0**	**1.0**	**3.0**	**2.0**	
		C.D. (1%)	**3.0**	**3.0**	**3.0**	**4.0**	**5.0**	**1.0**	**1.0**	**3.0**	**4.0**	**1.0**	**4.0**	**3.0**	
		C.V. (%)	**2.5**	**2.3**	**2.4**	**3.2**	**3.9**	**0.7**	**1.4**	**2.9**	**3.3**	**1.4**	**3.8**	**4.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.524**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

***LOCATION REJECTED DUE TO DELAYED FLOWERING IN CHECKS**

Table I.51: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO MATURITY ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	90	80	93	77	**85**	88	85	85	**85**	84	**85**	**7**
2	IHT 202	MH 2906	91	76	89	75	**83**	87	82	82	**82**	80	**83**	**17**
3	IHT 203	MH 2907	91	75	87	75	**82**	87	80	81	**81**	80	**82**	**21**
4	IHT 204	MH 2908	94	76	89	78	**84**	86	83	83	**83**	83	**84**	**12**
5	IHT 205	MH 2909	92	77	87	75	**82**	85	81	82	**81**	82	**83**	**18**
6	IHT 206	MH 2910	90	79	87	75	**83**	86	79	82	**81**	79	**82**	**20**
7	IHT 207	MH 2911	94	78	90	77	**85**	85	78	80	**79**	79	**83**	**15**
8	IHT 208	Pratap (Check)	91	77	89	74	**83**	86	78	81	**79**	82	**82**	**19**
9	IHT 209	MH 2912	90	77	84	75	**81**	85	79	80	**80**	78	**81**	**25**
10	IHT 210	MH 2913	88	79	85	76	**82**	85	77	80	**79**	80	**81**	**23**
11	IHT 211	MH 2914	95	84	90	80	**87**	87	82	81	**81**	80	**85**	**8**
12	IHT 212	86M01 (Check)	91	76	90	76	**84**	87	81	81	**81**	83	**83**	**14**
13	IHT 213	MH 2915	89	71	85	77	**81**	84	70	76	**73**	77	**79**	**30**
14	IHT 214	MH 2916	95	84	90	76	**86**	87	84	83	**84**	83	**85**	**6**
15	IHT 215	MH 2917	94	81	89	75	**85**	87	83	81	**82**	83	**84**	**11**
16	IHT 216	MH 2918	95	72	91	75	**83**	87	85	83	**84**	84	**84**	**13**
17	IHT 217	MH 2919	95	82	88	79	**86**	87	88	84	**86**	82	**86**	**3**
18	IHT 218	AHB 1269 (Check)	89	79	86	75	**82**	85	77	77	**77**	82	**81**	**24**
19	IHT 219	MH 2920	86	71	87	75	**80**	86	73	74	**73**	77	**78**	**31**
20	IHT 220	MH 2921	90	85	92	79	**87**	88	83	81	**82**	84	**85**	**6**
21	IHT 221	MH 2922	93	80	89	75	**84**	86	82	77	**79**	81	**83**	**16**
22	IHT 222	MH 2923	86	72	86	75	**80**	89	74	78	**76**	81	**80**	**28**
23	IHT 223	MH 2924	84	71	86	74	**79**	87	74	78	**76**	78	**79**	**29**
24	IHT 224	MH 2925	94	72	88	76	**83**	85	73	77	**75**	78	**80**	**27**
25	IHT 225	MH 2926	95	81	89	79	**86**	87	81	84	**83**	83	**85**	**9**
26	IHT 226	MH 2927	93	81	90	79	**85**	88	84	85	**85**	85	**86**	**4**
27	IHT 227	MH 2928	95	76	91	79	**85**	87	80	79	**80**	84	**84**	**13**
28	IHT 228	AHB 1200 (Check)	91	74	88	76	**82**	87	78	80	**79**	79	**82**	**22**
29	IHT 229	MH 2929	95	83	92	79	**87**	88	85	86	**86**	81	**86**	**2**
30	IHT 230	MH 2930	95	71	87	75	**82**	87	73	79	**76**	76	**80**	**26**
31	IHT 231	MH 2931	92	83	90	76	**85**	86	82	82	**82**	84	**84**	**10**
32	IHT 232	MH 2932	94	82	89	79	**86**	88	83	83	**83**	86	**86**	**5**
33	IHT 233	MH 2933	95	83	91	79	**87**	88	86	85	**86**	86	**87**	**1**
		LOC. MEAN	**92**	**78**	**89**	**76**	**84**	**87**	**80**	**81**	**81**	**81**	**83**	
		C.D. (5%)	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**1.0**	**2.0**	**3.0**	**4.0**	**1.0**	**2.0**	
		C.D. (1%)	**3.0**	**3.0**	**3.0**	**3.0**	**4.0**	**1.0**	**3.0**	**4.0**	**5.0**	**1.0**	**3.0**	
		C.V. (%)	**1.5**	**1.6**	**1.5**	**1.6**	**2.7**	**0.6**	**1.6**	**2.2**	**2.3**	**0.8**	**2.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.52: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PLANT HEIGHT (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	IHT 201	MH 2905	175	235	248	190	**212**	179	121	192	**157**	186	188	**190**	**14**
2	IHT 202	MH 2906	170	228	243	204	**211**	181	128	213	**171**	179	192	**193**	**9**
3	IHT 203	MH 2907	155	232	226	184	**199**	185	118	192	**155**	179	186	**184**	**20**
4	IHT 204	MH 2908	140	192	200	139	**168**	156	103	170	**137**	166	158	**158**	**33**
5	IHT 205	MH 2909	170	215	237	196	**205**	187	104	202	**153**	172	185	**185**	**19**
6	IHT 206	MH 2910	178	216	233	180	**202**	179	112	197	**155**	173	183	**184**	**21**
7	IHT 207	MH 2911	165	219	241	188	**203**	182	110	213	**162**	174	179	**186**	**18**
8	IHT 208	Pratap (Check)	145	202	204	168	**180**	153	108	199	**153**	174	183	**171**	**30**
9	IHT 209	MH 2912	150	184	223	174	**183**	165	109	206	**158**	160	169	**171**	**29**
10	IHT 210	MH 2913	187	217	233	190	**206**	164	120	200	**160**	157	175	**182**	**22**
11	IHT 211	MH 2914	200	226	242	191	**215**	202	126	198	**162**	180	206	**197**	**6**
12	IHT 212	86M01 (Check)	200	206	237	202	**211**	193	117	221	**169**	173	186	**193**	**10**
13	IHT 213	MH 2915	170	246	231	201	**212**	183	129	226	**177**	145	186	**191**	**13**
14	IHT 214	MH 2916	240	232	270	200	**236**	182	131	220	**176**	186	208	**208**	**1**
15	IHT 215	MH 2917	188	224	253	212	**220**	184	118	232	**175**	185	197	**199**	**4**
16	IHT 216	MH 2918	175	228	255	211	**218**	162	116	231	**174**	186	186	**195**	**8**
17	IHT 217	MH 2919	150	234	253	214	**213**	188	127	230	**179**	186	196	**197**	**5**
18	IHT 218	AHB 1269 (Check)	175	200	254	190	**205**	141	119	204	**162**	172	182	**182**	**23**
19	IHT 219	MH 2920	150	215	232	185	**196**	154	110	192	**151**	166	162	**174**	**28**
20	IHT 220	MH 2921	178	215	244	206	**211**	169	109	234	**172**	181	185	**191**	**12**
21	IHT 221	MH 2922	180	221	243	191	**209**	185	111	223	**167**	158	167	**187**	**17**
22	IHT 222	MH 2923	175	212	249	184	**205**	164	115	187	**151**	161	185	**181**	**24**
23	IHT 223	MH 2924	158	209	222	174	**191**	146	100	186	**143**	162	170	**170**	**31**
24	IHT 224	MH 2925	153	224	218	198	**198**	148	119	173	**146**	166	169	**174**	**27**
25	IHT 225	MH 2926	175	219	242	187	**206**	180	122	213	**168**	173	184	**188**	**16**
26	IHT 226	MH 2927	170	231	227	185	**203**	155	93	209	**151**	168	188	**181**	**25**
27	IHT 227	MH 2928	212	234	279	222	**237**	180	134	222	**178**	161	196	**204**	**2**
28	IHT 228	AHB 1200 (Check)	160	220	232	188	**200**	177	108	188	**148**	163	176	**179**	**26**
29	IHT 229	MH 2929	195	218	250	195	**215**	175	116	215	**166**	169	180	**190**	**15**
30	IHT 230	MH 2930	125	206	212	168	**178**	125	119	201	**160**	160	164	**164**	**32**
31	IHT 231	MH 2931	218	220	241	198	**219**	179	128	216	**172**	166	201	**196**	**7**
32	IHT 232	MH 2932	190	232	248	220	**223**	187	127	222	**175**	167	207	**200**	**3**
33	IHT 233	MH 2933	180	222	249	203	**214**	178	111	207	**159**	167	206	**191**	**11**
		LOC. MEAN	**174**	**219**	**239**	**192**	**206**	**172**	**116**	**207**	**162**	**170**	**184**	**186**	
		C.D. (5%)	**11.0**	**19.0**	**15.0**	**23.0**	**16.0**	**10.0**	**12.0**	**31.0**	**23.0**	**8.0**	**17.0**	**11.0**	
		C.D. (1%)	**14.0**	**26.0**	**20.0**	**31.0**	**22.0**	**13.0**	**16.0**	**42.0**	**30.0**	**11.0**	**23.0**	**14.0**	
		C.V. (%)	**3.8**	**5.4**	**3.9**	**7.5**	**5.7**	**3.5**	**6.3**	**9.3**	**6.9**	**3.0**	**5.6**	**6.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.028**	**0.000**	**0.000**	**0.000**	

Table I.53: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	IHT 201	MH 2905	1.7	1.6	2.3	1.8	**1.8**	2.6	1.7	1.2	**1.5**	2.7	2.8	**2.0**	**10**
2	IHT 202	MH 2906	1.7	1.8	2.1	1.8	**1.9**	3.0	1.3	1.1	**1.2**	2.5	2.4	**2.0**	**16**
3	IHT 203	MH 2907	2.3	1.5	1.4	2.0	**1.8**	2.5	1.7	1.2	**1.5**	2.2	2.7	**2.0**	**18**
4	IHT 204	MH 2908	1.3	1.8	1.5	1.5	**1.5**	3.3	1.3	1.0	**1.2**	2.5	2.6	**1.9**	**26**
5	IHT 205	MH 2909	1.0	1.3	2.4	1.6	**1.6**	3.1	1.5	1.1	**1.3**	2.1	2.5	**1.8**	**30**
6	IHT 206	MH 2910	1.3	1.7	2.2	1.3	**1.7**	3.0	1.6	1.4	**1.5**	2.7	2.5	**2.0**	**17**
7	IHT 207	MH 2911	1.3	1.5	1.8	1.9	**1.6**	2.8	1.4	1.1	**1.2**	2.8	2.3	**1.9**	**25**
8	IHT 208	Pratap (Check)	1.7	1.5	2.0	1.2	**1.6**	2.8	1.3	1.5	**1.4**	2.5	2.3	**1.9**	**28**
9	IHT 209	MH 2912	1.7	1.8	3.3	1.2	**2.0**	3.1	1.4	1.5	**1.5**	2.3	2.5	**2.1**	**8**
10	IHT 210	MH 2913	1.0	1.6	1.8	1.6	**1.5**	2.9	1.5	1.1	**1.3**	2.6	2.7	**1.8**	**29**
11	IHT 211	MH 2914	2.3	1.3	1.9	1.2	**1.7**	2.6	1.5	1.0	**1.3**	2.1	3.4	**1.9**	**21**
12	IHT 212	86M01 (Check)	1.7	1.9	1.6	1.2	**1.6**	2.9	1.2	1.4	**1.3**	2.9	2.4	**1.9**	**23**
13	IHT 213	MH 2915	3.0	1.7	2.7	1.9	**2.3**	2.7	2.1	2.6	**2.3**	3.8	2.7	**2.6**	**1**
14	IHT 214	MH 2916	2.7	1.3	1.5	1.8	**1.8**	3.0	1.5	1.1	**1.3**	2.1	2.9	**2.0**	**14**
15	IHT 215	MH 2917	1.3	1.4	1.6	1.3	**1.4**	3.3	1.4	1.1	**1.2**	2.1	3.6	**1.9**	**24**
16	IHT 216	MH 2918	1.3	1.6	1.7	1.8	**1.6**	3.3	1.3	1.4	**1.4**	2.7	2.4	**1.9**	**19**
17	IHT 217	MH 2919	1.7	1.3	2.3	1.7	**1.7**	2.7	1.6	1.1	**1.3**	2.5	2.9	**2.0**	**17**
18	IHT 218	AHB 1269 (Check)	1.7	1.6	2.2	1.6	**1.8**	3.0	1.4	1.5	**1.4**	2.8	2.5	**2.0**	**12**
19	IHT 219	MH 2920	2.0	1.8	2.0	1.7	**1.9**	3.1	1.9	1.7	**1.8**	2.8	2.4	**2.2**	**5**
20	IHT 220	MH 2921	1.3	1.5	1.5	1.2	**1.4**	2.9	1.1	1.5	**1.3**	2.9	2.6	**1.8**	**31**
21	IHT 221	MH 2922	2.0	1.8	2.2	1.7	**1.9**	2.9	1.1	2.1	**1.6**	3.5	2.2	**2.2**	**3**
22	IHT 222	MH 2923	2.0	2.1	1.8	1.5	**1.9**	2.9	1.4	1.7	**1.5**	2.7	2.4	**2.1**	**9**
23	IHT 223	MH 2924	1.3	1.5	1.9	2.3	**1.8**	3.3	1.1	1.2	**1.2**	2.9	2.4	**2.0**	**13**
24	IHT 224	MH 2925	2.3	1.6	2.1	1.8	**1.9**	2.7	1.7	1.3	**1.5**	2.9	2.4	**2.1**	**7**
25	IHT 225	MH 2926	2.0	1.6	2.2	1.5	**1.8**	2.9	1.9	1.2	**1.6**	2.4	2.4	**2.0**	**13**
26	IHT 226	MH 2927	2.3	1.4	1.9	1.8	**1.9**	2.9	1.5	1.9	**1.7**	3.0	2.7	**2.2**	**4**
27	IHT 227	MH 2928	1.7	1.5	2.0	1.3	**1.6**	2.9	1.9	1.6	**1.7**	2.6	2.7	**2.0**	**11**
28	IHT 228	AHB 1200 (Check)	2.0	1.6	1.9	1.2	**1.7**	2.6	1.4	1.3	**1.4**	2.9	2.4	**1.9**	**22**
29	IHT 229	MH 2929	1.0	1.5	1.9	1.9	**1.6**	2.9	1.2	1.2	**1.2**	2.5	2.5	**1.9**	**27**
30	IHT 230	MH 2930	2.0	2.3	1.9	2.1	**2.1**	2.9	2.1	1.0	**1.6**	3.7	2.4	**2.3**	**2**
31	IHT 231	MH 2931	1.3	1.7	2.1	1.6	**1.7**	2.9	1.6	1.5	**1.5**	2.7	2.5	**2.0**	**15**
32	IHT 232	MH 2932	1.7	1.7	1.7	1.7	**1.7**	2.7	1.1	1.7	**1.4**	2.6	2.6	**1.9**	**20**
33	IHT 233	MH 2933	1.7	1.7	1.9	1.8	**1.8**	3.2	1.6	1.1	**1.3**	2.5	3.4	**2.1**	**6**
		LOC. MEAN	**1.7**	**1.6**	**2.0**	**1.6**	**1.7**	**2.9**	**1.5**	**1.4**	**1.4**	**2.7**	**2.6**	**2.0**	
		C.D. (5%)	**0.8**	**0.5**	**0.2**	**0.8**	**0.5**	**0.4**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**	**0.3**	
		C.D. (1%)	**1.1**	**0.6**	**0.3**	**1.0**	**0.6**	**0.6**	**0.7**	**0.6**	**0.9**	**0.8**	**0.6**	**0.4**	
		C.V. (%)	**28.8**	**17.2**	**7.3**	**29.6**	**19.5**	**9.4**	**23.0**	**19.7**	**21.6**	**13.8**	**11.1**	**16.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.200**	**0.000**	**0.000**	**0.000**	**0.409**	**0.000**	**0.000**	**0.004**	

Table I.54: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE LENGTH (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	IHT 201	MH 2905	25	25	24	27	**25**	23	20	26	**23**	28	20	**24**	**5**
2	IHT 202	MH 2906	22	24	26	27	**25**	25	20	26	**23**	27	19	**24**	**7**
3	IHT 203	MH 2907	23	25	25	28	**25**	26	22	26	**24**	26	17	**24**	**8**
4	IHT 204	MH 2908	24	21	27	28	**25**	28	18	28	**23**	30	20	**25**	**3**
5	IHT 205	MH 2909	25	24	28	26	**26**	25	19	30	**25**	30	21	**25**	**1**
6	IHT 206	MH 2910	24	24	27	26	**25**	24	17	23	**20**	25	18	**23**	**14**
7	IHT 207	MH 2911	21	21	27	28	**24**	21	18	24	**21**	25	18	**23**	**20**
8	IHT 208	Pratap (Check)	22	22	25	25	**24**	23	15	24	**20**	23	19	**22**	**24**
9	IHT 209	MH 2912	19	20	28	23	**23**	21	16	23	**20**	24	16	**21**	**30**
10	IHT 210	MH 2913	22	22	26	26	**24**	23	18	26	**22**	23	18	**23**	**17**
11	IHT 211	MH 2914	21	22	26	24	**23**	24	20	24	**22**	24	19	**23**	**19**
12	IHT 212	86M01 (Check)	23	23	24	27	**24**	21	21	28	**25**	25	19	**24**	**10**
13	IHT 213	MH 2915	17	22	25	21	**22**	25	18	25	**21**	19	16	**21**	**31**
14	IHT 214	MH 2916	21	23	26	23	**23**	21	19	24	**21**	26	22	**23**	**16**
15	IHT 215	MH 2917	20	24	27	26	**24**	22	20	25	**23**	26	19	**23**	**13**
16	IHT 216	MH 2918	22	26	26	29	**26**	23	19	28	**24**	26	18	**24**	**4**
17	IHT 217	MH 2919	23	27	27	28	**27**	28	21	26	**24**	27	20	**25**	**2**
18	IHT 218	AHB 1269 (Check)	21	21	26	26	**24**	19	20	27	**24**	24	19	**23**	**21**
19	IHT 219	MH 2920	24	21	24	26	**24**	20	19	25	**22**	27	18	**23**	**18**
20	IHT 220	MH 2921	19	21	25	25	**23**	21	17	25	**21**	24	15	**21**	**27**
21	IHT 221	MH 2922	23	22	26	23	**23**	18	16	29	**22**	24	19	**22**	**23**
22	IHT 222	MH 2923	22	21	25	23	**23**	20	17	22	**20**	22	19	**21**	**29**
23	IHT 223	MH 2924	22	22	26	24	**24**	17	17	23	**20**	22	17	**21**	**28**
24	IHT 224	MH 2925	20	23	26	26	**24**	23	17	22	**20**	24	16	**22**	**26**
25	IHT 225	MH 2926	21	22	25	24	**23**	21	19	23	**21**	23	19	**22**	**25**
26	IHT 226	MH 2927	23	25	26	25	**25**	22	18	25	**22**	22	18	**23**	**17**
27	IHT 227	MH 2928	23	24	26	26	**25**	23	19	26	**23**	25	21	**24**	**9**
28	IHT 228	AHB 1200 (Check)	22	25	26	25	**25**	22	18	25	**22**	25	18	**23**	**15**
29	IHT 229	MH 2929	24	25	27	25	**25**	23	19	24	**22**	25	19	**23**	**11**
30	IHT 230	MH 2930	20	25	22	22	**22**	16	17	22	**20**	20	19	**20**	**32**
31	IHT 231	MH 2931	21	21	26	25	**23**	24	20	23	**22**	22	19	**23**	**22**
32	IHT 232	MH 2932	24	24	27	26	**25**	24	19	26	**22**	22	19	**23**	**12**
33	IHT 233	MH 2933	24	27	26	27	**26**	23	21	25	**23**	25	20	**24**	**6**
		LOC. MEAN	**22**	**23**	**26**	**25**	**24**	**22**	**19**	**25**	**22**	**24**	**19**	**23**	
		C.D. (5%)	**2.0**	**3.0**	**2.0**	**4.0**	**2.0**	**4.0**	**2.0**	**4.0**	**3.0**	**2.0**	**2.0**	**1.0**	
		C.D. (1%)	**3.0**	**4.0**	**2.0**	**5.0**	**3.0**	**5.0**	**3.0**	**5.0**	**4.0**	**3.0**	**3.0**	**2.0**	
		C.V. (%)	**5.3**	**8.1**	**4.1**	**9.2**	**5.8**	**10.9**	**7.8**	**9.1**	**6.9**	**5.6**	**7.8**	**6.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.037**	**0.000**	**0.000**	**0.000**	

Table I.55: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	2.8	3.5	3.5	3.5	**3.4**	2.4	2.6	3.1	**2.9**	2.9	**3.1**	18
2	IHT 202	MH 2906	3.2	3.5	3.5	3.3	**3.4**	2.5	2.5	3.1	**2.8**	3.1	**3.1**	13
3	IHT 203	MH 2907	2.8	3.3	3.4	3.3	**3.2**	2.4	2.7	3.0	**2.8**	3.0	**3.0**	24
4	IHT 204	MH 2908	3.1	3.5	3.7	3.6	**3.5**	2.6	2.5	3.0	**2.7**	3.1	**3.1**	10
5	IHT 205	MH 2909	3.1	3.2	3.8	3.4	**3.4**	2.5	2.4	3.2	**2.8**	2.9	**3.1**	19
6	IHT 206	MH 2910	3.2	3.6	3.6	3.1	**3.4**	2.4	2.7	3.4	**3.0**	3.2	**3.1**	8
7	IHT 207	MH 2911	3.2	3.6	3.6	3.5	**3.5**	2.3	2.9	3.4	**3.1**	2.9	**3.2**	5
8	IHT 208	Pratap (Check)	3.3	3.5	3.5	3.5	**3.4**	2.4	2.6	3.2	**2.9**	2.9	**3.1**	11
9	IHT 209	MH 2912	3.2	3.6	3.8	3.5	**3.5**	2.5	2.9	3.4	**3.1**	2.9	**3.2**	2
10	IHT 210	MH 2913	3.4	3.3	3.4	3.1	**3.3**	2.4	2.6	3.1	**2.9**	2.8	**3.0**	20
11	IHT 211	MH 2914	3.3	3.7	3.5	3.5	**3.5**	2.7	2.7	3.8	**3.3**	3.3	**3.3**	1
12	IHT 212	86M01 (Check)	3.2	3.3	3.4	3.4	**3.3**	2.3	2.6	3.0	**2.8**	2.8	**3.0**	24
13	IHT 213	MH 2915	2.5	3.0	3.3	2.5	**2.8**	2.2	2.2	2.1	**2.2**	1.8	**2.5**	32
14	IHT 214	MH 2916	3.1	3.7	3.6	3.4	**3.4**	2.5	2.8	3.4	**3.1**	3.1	**3.2**	4
15	IHT 215	MH 2917	3.1	3.4	3.7	3.7	**3.5**	2.4	2.6	3.4	**3.0**	3.0	**3.2**	6
16	IHT 216	MH 2918	2.7	3.6	3.7	3.6	**3.4**	2.3	2.6	3.2	**2.9**	2.9	**3.1**	16
17	IHT 217	MH 2919	3.4	3.3	3.7	3.3	**3.4**	2.4	2.6	3.4	**3.0**	3.0	**3.1**	7
18	IHT 218	AHB 1269 (Check)	3.1	3.2	3.6	3.1	**3.3**	2.4	2.6	3.2	**2.9**	2.9	**3.0**	21
19	IHT 219	MH 2920	2.9	3.3	3.4	3.0	**3.1**	2.1	2.4	2.7	**2.6**	2.8	**2.8**	29
20	IHT 220	MH 2921	2.9	3.2	3.2	3.2	**3.1**	2.2	2.5	3.1	**2.8**	2.7	**2.9**	28
21	IHT 221	MH 2922	2.9	3.3	3.3	2.9	**3.1**	2.2	2.4	2.6	**2.5**	2.2	**2.7**	30
22	IHT 222	MH 2923	2.6	3.3	3.4	3.3	**3.2**	2.3	2.6	2.9	**2.8**	2.8	**2.9**	27
23	IHT 223	MH 2924	3.0	3.5	3.4	3.2	**3.3**	2.4	2.5	2.9	**2.7**	2.7	**3.0**	25
24	IHT 224	MH 2925	2.7	3.5	3.5	3.5	**3.3**	2.5	2.5	3.0	**2.8**	2.8	**3.0**	22
25	IHT 225	MH 2926	2.7	3.8	3.6	3.2	**3.3**	2.5	3.1	3.3	**3.2**	2.9	**3.1**	9
26	IHT 226	MH 2927	3.3	3.5	3.4	2.9	**3.3**	2.4	2.4	3.3	**2.9**	2.8	**3.0**	23
27	IHT 227	MH 2928	3.4	3.6	3.5	3.4	**3.5**	2.4	2.5	3.2	**2.9**	2.8	**3.1**	12
28	IHT 228	AHB 1200 (Check)	3.0	3.7	3.5	3.1	**3.4**	2.3	2.7	3.2	**3.0**	3.0	**3.1**	15
29	IHT 229	MH 2929	3.2	3.6	3.6	3.5	**3.5**	2.7	2.6	3.4	**3.0**	3.0	**3.2**	3
30	IHT 230	MH 2930	2.7	3.4	3.2	2.9	**3.1**	2.1	2.2	2.9	**2.5**	2.4	**2.7**	31
31	IHT 231	MH 2931	2.9	3.3	3.5	3.2	**3.2**	2.5	2.6	2.8	**2.7**	2.8	**3.0**	26
32	IHT 232	MH 2932	3.0	3.6	3.5	3.5	**3.4**	2.5	2.5	3.2	**2.9**	2.8	**3.1**	17
33	IHT 233	MH 2933	2.9	3.6	3.6	3.4	**3.4**	2.6	2.5	3.2	**2.9**	2.9	**3.1**	14
		LOC. MEAN	**3.0**	**3.5**	**3.5**	**3.3**	**3.3**	**2.4**	**2.6**	**3.1**	**2.8**	**2.8**	**3.0**	
		C.D. (5%)	**0.3**	**0.3**	**0.2**	**0.5**	**0.2**	**0.2**	**0.4**	**0.5**	**0.3**	**0.2**	**0.2**	
		C.D. (1%)	**0.4**	**0.4**	**0.3**	**0.7**	**0.3**	**0.3**	**0.5**	**0.6**	**0.5**	**0.3**	**0.2**	
		C.V. (%)	**5.5**	**6.0**	**4.3**	**9.6**	**5.0**	**5.8**	**8.5**	**9.1**	**5.9**	**4.9**	**5.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	

Table I.56: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 1000-SEED Wt.(g) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	IHT 201	MH 2905	13.1	12.6	11.2	13.0	**12.5**	16.2	13.4	11.0	**12.2**	12.8	11.3	**12.7**	**1**
2	IHT 202	MH 2906	13.1	11.1	10.3	11.2	**11.4**	13.7	10.6	8.6	**9.6**	11.5	11.3	**11.3**	**21**
3	IHT 203	MH 2907	13.3	11.0	11.0	11.6	**11.7**	12.3	12.4	11.0	**11.7**	12.5	8.8	**11.5**	**18**
4	IHT 204	MH 2908	14.3	11.5	10.6	12.1	**12.1**	16.4	12.1	8.7	**10.4**	15.5	10.0	**12.4**	**6**
5	IHT 205	MH 2909	11.3	9.1	11.7	9.7	**10.5**	11.3	9.4	8.1	**8.8**	10.1	12.0	**10.3**	**30**
6	IHT 206	MH 2910	15.4	11.8	12.1	11.4	**12.7**	16.2	11.2	10.8	**11.0**	14.0	10.7	**12.6**	**2**
7	IHT 207	MH 2911	11.8	10.8	10.6	11.1	**11.1**	11.3	11.3	10.9	**11.1**	12.6	10.7	**11.2**	**23**
8	IHT 208	Pratap (Check)	14.3	9.2	11.3	11.1	**11.5**	13.1	10.1	11.8	**10.9**	11.1	12.7	**11.6**	**16**
9	IHT 209	MH 2912	12.7	11.3	14.3	12.4	**12.7**	11.6	11.5	9.5	**10.5**	12.5	10.8	**11.8**	**12**
10	IHT 210	MH 2913	13.5	11.8	8.0	11.7	**11.3**	15.9	9.9	9.5	**9.7**	14.3	14.0	**12.1**	**11**
11	IHT 211	MH 2914	11.5	9.4	10.8	9.6	**10.3**	12.2	10.1	7.8	**9.0**	9.0	11.3	**10.2**	**31**
12	IHT 212	86M01 (Check)	13.5	12.0	12.3	12.9	**12.6**	14.5	12.6	10.6	**11.6**	11.9	9.7	**12.2**	**9**
13	IHT 213	MH 2915	9.6	10.3	9.5	9.7	**9.8**	13.2	11.3	9.2	**10.3**	10.7	11.8	**10.6**	**29**
14	IHT 214	MH 2916	12.1	11.3	13.1	12.6	**12.3**	14.6	12.0	10.1	**11.1**	11.8	13.0	**12.3**	**7**
15	IHT 215	MH 2917	13.2	12.3	12.4	12.6	**12.6**	13.6	12.2	12.0	**12.1**	11.3	10.8	**12.3**	**8**
16	IHT 216	MH 2918	10.3	10.7	10.3	10.6	**10.5**	14.3	10.9	9.3	**10.1**	9.5	10.7	**10.7**	**28**
17	IHT 217	MH 2919	14.4	12.0	13.5	12.3	**13.1**	13.7	12.2	10.8	**11.5**	13.0	10.3	**12.5**	**3**
18	IHT 218	AHB 1269 (Check)	12.4	14.1	12.2	11.5	**12.5**	14.9	13.4	10.1	**11.8**	14.4	8.7	**12.4**	**4**
19	IHT 219	MH 2920	10.5	10.8	11.6	10.8	**11.0**	14.8	11.3	9.5	**10.4**	12.2	11.5	**11.4**	**19**
20	IHT 220	MH 2921	10.1	9.4	8.7	8.3	**9.1**	12.9	9.8	8.1	**9.0**	9.0	6.0	**9.1**	**32**
21	IHT 221	MH 2922	12.3	9.9	12.0	11.1	**11.3**	13.5	11.2	10.9	**11.0**	11.3	12.0	**11.6**	**17**
22	IHT 222	MH 2923	11.3	12.4	11.2	11.7	**11.7**	14.4	11.0	10.6	**10.8**	11.3	10.8	**11.6**	**15**
23	IHT 223	MH 2924	12.0	10.9	9.6	10.8	**10.8**	14.5	9.4	9.3	**9.3**	11.3	11.3	**11.0**	**25**
24	IHT 224	MH 2925	11.5	9.7	11.7	11.0	**11.0**	13.8	9.8	10.3	**10.0**	11.0	9.3	**10.9**	**27**
25	IHT 225	MH 2926	10.2	11.8	11.4	11.3	**11.2**	12.6	10.4	10.2	**10.3**	11.6	9.0	**10.9**	**26**
26	IHT 226	MH 2927	11.5	9.9	10.7	10.9	**10.8**	13.1	11.4	11.0	**11.2**	11.3	10.7	**11.2**	**24**
27	IHT 227	MH 2928	11.3	11.1	12.1	11.7	**11.6**	14.2	12.0	10.3	**11.2**	11.2	11.7	**11.7**	**14**
28	IHT 228	AHB 1200 (Check)	12.5	10.4	11.5	11.7	**11.5**	13.5	12.0	10.1	**11.0**	11.7	9.0	**11.4**	**20**
29	IHT 229	MH 2929	11.9	9.7	11.2	11.0	**11.0**	14.5	12.2	9.8	**11.0**	10.9	10.2	**11.3**	**22**
30	IHT 230	MH 2930	12.7	11.2	11.8	11.6	**11.8**	13.3	16.5	11.2	**13.9**	13.2	10.0	**12.4**	**5**
31	IHT 231	MH 2931	12.4	11.1	11.1	12.0	**11.6**	13.6	10.2	10.0	**10.1**	9.9	12.2	**11.4**	**20**
32	IHT 232	MH 2932	9.5	11.1	13.0	11.6	**11.3**	14.9	10.4	10.0	**10.2**	13.0	12.5	**11.8**	**13**
33	IHT 233	MH 2933	12.2	11.8	12.3	12.2	**12.1**	15.7	11.8	10.7	**11.3**	12.5	9.5	**12.1**	**10**
		LOC. MEAN	**12.2**	**11.0**	**11.4**	**11.4**	**11.5**	**13.9**	**11.4**	**10.1**	**10.7**	**11.8**	**10.7**	**11.5**	
		C.D. (5%)	**0.3**	**1.0**	**0.6**	**1.3**	**1.3**	**0.2**	**1.8**	**2.2**	**1.9**	**0.9**	**1.5**	**1.0**	
		C.D. (1%)	**0.4**	**1.3**	**0.8**	**1.7**	**1.8**	**0.3**	**2.4**	**3.0**	**2.5**	**1.3**	**2.0**	**1.4**	
		C.V. (%)	**1.5**	**5.6**	**3.2**	**6.8**	**8.3**	**1.0**	**9.5**	**13.6**	**8.6**	**4.9**	**8.6**	**9.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.004**	**0.000**	**0.000**	**0.000**	

Table I.57: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	VYP	APR	PMP	AP MEAN	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	74	64	32	38	**52**	21	77	76	**77**	54	**55**	**20**
2	IHT 202	MH 2906	71	67	31	32	**50**	26	64	75	**69**	68	**54**	**21**
3	IHT 203	MH 2907	73	65	48	44	**58**	26	78	78	**78**	61	**59**	**5**
4	IHT 204	MH 2908	74	59	41	30	**51**	20	63	78	**71**	57	**53**	**26**
5	IHT 205	MH 2909	73	68	45	39	**56**	20	61	80	**71**	70	**57**	**9**
6	IHT 206	MH 2910	74	66	47	36	**56**	18	71	67	**69**	58	**55**	**19**
7	IHT 207	MH 2911	75	69	32	30	**52**	24	76	83	**79**	63	**57**	**12**
8	IHT 208	Pratap (Check)	76	62	37	37	**53**	26	76	71	**74**	55	**55**	**17**
9	IHT 209	MH 2912	75	62	51	35	**56**	25	77	64	**70**	68	**57**	**8**
10	IHT 210	MH 2913	76	60	53	39	**57**	25	78	81	**80**	59	**59**	**6**
11	IHT 211	MH 2914	75	56	49	29	**52**	26	72	80	**76**	65	**56**	**13**
12	IHT 212	86M01 (Check)	75	58	40	37	**53**	23	81	69	**75**	69	**57**	**11**
13	IHT 213	MH 2915	75	68	46	40	**57**	25	80	59	**69**	62	**57**	**10**
14	IHT 214	MH 2916	75	69	53	41	**59**	24	74	80	**77**	68	**60**	**3**
15	IHT 215	MH 2917	75	69	52	42	**60**	25	78	79	**79**	70	**61**	**2**
16	IHT 216	MH 2918	74	65	45	32	**54**	21	80	66	**73**	55	**55**	**18**
17	IHT 217	MH 2919	75	70	57	44	**61**	24	77	85	**81**	69	**62**	**1**
18	IHT 218	AHB 1269 (Check)	73	59	46	30	**52**	19	78	71	**74**	56	**54**	**23**
19	IHT 219	MH 2920	73	61	45	40	**55**	21	69	82	**76**	50	**55**	**17**
20	IHT 220	MH 2921	74	65	39	37	**54**	24	73	81	**77**	66	**57**	**7**
21	IHT 221	MH 2922	75	63	47	39	**56**	17	78	69	**73**	60	**56**	**14**
22	IHT 222	MH 2923	74	63	43	35	**54**	22	76	72	**74**	59	**55**	**16**
23	IHT 223	MH 2924	74	63	48	31	**54**	19	77	81	**79**	50	**55**	**15**
24	IHT 224	MH 2925	75	55	37	25	**48**	18	65	76	**71**	59	**51**	**30**
25	IHT 225	MH 2926	75	53	41	33	**50**	26	69	68	**69**	65	**54**	**24**
26	IHT 226	MH 2927	76	54	52	16	**49**	24	65	54	**60**	59	**50**	**31**
27	IHT 227	MH 2928	74	59	48	28	**52**	24	74	77	**75**	50	**54**	**22**
28	IHT 228	AHB 1200 (Check)	75	60	30	24	**47**	22	70	72	**71**	67	**52**	**29**
29	IHT 229	MH 2929	74	58	35	35	**51**	23	70	74	**72**	57	**53**	**25**
30	IHT 230	MH 2930	75	46	33	17	**43**	13	67	79	**73**	52	**48**	**32**
31	IHT 231	MH 2931	75	66	27	27	**49**	19	76	73	**75**	57	**52**	**28**
32	IHT 232	MH 2932	75	64	34	35	**52**	27	64	63	**64**	60	**53**	**27**
33	IHT 233	MH 2933	75	63	38	36	**53**	26	80	85	**83**	76	**60**	**4**
		LOC. MEAN	**74**	**62**	**42**	**34**	**53**	**22**	**73**	**74**	**74**	**61**	**55**	
		C.D. (5%)	**2.0**	**12.0**	**11.0**	**11.0**	**7.0**	**6.0**	**3.0**	**15.0**	**13.0**	**5.0**	**5.0**	
		C.D. (1%)	**3.0**	**16.0**	**15.0**	**14.0**	**10.0**	**8.0**	**4.0**	**21.0**	**18.0**	**6.0**	**7.0**	
		C.V. (%)	**1.6**	**11.9**	**16.2**	**19.4**	**9.7**	**16.9**	**2.6**	**12.8**	**8.8**	**4.8**	**9.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.373**	**0.000**	**0.000**	

Table I.58: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE B

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	PCR	MS MEAN	APR	PMP	AP MEAN	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	99	88	95	73	**89**	69	100	**85**	83	**87**	**4**
2	IHT 202	MH 2906	99	85	96	72	**88**	74	91	**82**	72	**84**	**8**
3	IHT 203	MH 2907	99	87	97	72	**88**	80	98	**89**	85	**88**	**3**
4	IHT 204	MH 2908	98	90	90	83	**90**	70	88	**79**	59	**83**	**13**
5	IHT 205	MH 2909	97	87	96	87	**91**	79	97	**88**	86	**90**	**2**
6	IHT 206	MH 2910	99	75	88	78	**85**	68	90	**79**	86	**84**	**11**
7	IHT 207	MH 2911	96	73	85	70	**81**	68	98	**83**	87	**83**	**14**
8	IHT 208	Pratap (Check)	98	75	95	72	**85**	70	80	**75**	79	**81**	**17**
9	IHT 209	MH 2912	95	93	98	72	**89**	72	63	**68**	57	**79**	**23**
10	IHT 210	MH 2913	96	88	93	32	**77**	78	80	**79**	5	**67**	**31**
11	IHT 211	MH 2914	96	94	90	73	**89**	73	93	**83**	22	**78**	**27**
12	IHT 212	86M01 (Check)	97	68	93	77	**84**	69	89	**79**	79	**82**	**15**
13	IHT 213	MH 2915	94	90	89	80	**88**	71	37	**54**	84	**78**	**26**
14	IHT 214	MH 2916	99	95	96	37	**82**	70	95	**82**	90	**83**	**12**
15	IHT 215	MH 2917	97	92	97	87	**93**	77	100	**89**	86	**91**	**1**
16	IHT 216	MH 2918	99	93	88	72	**88**	70	98	**84**	78	**85**	**6**
17	IHT 217	MH 2919	99	82	99	72	**88**	69	96	**83**	53	**81**	**16**
18	IHT 218	AHB 1269 (Check)	99	82	85	77	**86**	70	95	**83**	55	**80**	**19**
19	IHT 219	MH 2920	99	67	92	73	**83**	75	75	**75**	65	**78**	**25**
20	IHT 220	MH 2921	99	84	91	73	**87**	69	98	**83**	50	**81**	**18**
21	IHT 221	MH 2922	99	83	94	78	**89**	65	-	**65**	-	**84**	**10**
22	IHT 222	MH 2923	98	91	89	70	**87**	69	98	**84**	92	**87**	**4**
23	IHT 223	MH 2924	100	84	92	70	**87**	68	79	**74**	65	**80**	**21**
24	IHT 224	MH 2925	96	45	87	68	**74**	73	33	**53**	64	**67**	**32**
25	IHT 225	MH 2926	99	80	91	35	**76**	70	72	**71**	47	**71**	**30**
26	IHT 226	MH 2927	100	72	94	70	**84**	70	68	**69**	87	**80**	**20**
27	IHT 227	MH 2928	99	73	93	80	**86**	69	74	**72**	53	**78**	**28**
28	IHT 228	AHB 1200 (Check)	99	83	82	80	**86**	80	92	**86**	36	**79**	**22**
29	IHT 229	MH 2929	99	83	88	70	**85**	70	97	**84**	81	**84**	**9**
30	IHT 230	MH 2930	97	88	93	82	**90**	75	90	**82**	70	**85**	**7**
31	IHT 231	MH 2931	99	85	94	40	**79**	73	90	**82**	52	**76**	**29**
32	IHT 232	MH 2932	99	94	95	70	**90**	72	75	**73**	43	**78**	**24**
33	IHT 233	MH 2933	99	93	89	73	**89**	71	100	**85**	77	**86**	**5**
		LOC. MEAN	**98**	**83**	**92**	**70**	**86**	**72**	**85**	**79**	**67**	**81**	
		C.D. (5%)	**3.0**	**19.0**	**7.0**	**6.0**	**13.0**	**7.0**	**18.0**	**7.0**	**5.0**	**11.0**	
		C.D. (1%)	**4.0**	**25.0**	**9.0**	**8.0**	**17.0**	**10.0**	**24.0**	**10.0**	**7.0**	**15.0**	
		C.V. (%)	**2.1**	**13.7**	**4.7**	**5.5**	**10.5**	**6.1**	**13.1**	**6.1**	**5.0**	**11.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.564**	**0.000**	**0.000**	**0.000**	**0.000**	**0.523**	

Table I.59: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 ZONE B
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	41	51	65	37	56	37	**48**	**9**
2	IHT 202	MH 2906	53	58	59	44	62	39	**52**	**7**
3	IHT 203	MH 2907	51	45	54	35	47	41	**45**	**12**
4	IHT 205	MH 2909	58	70	70	46	62	41	**58**	**3**
5	IHT 208	Pratap (Check)	52	65	64	46	56	46	**55**	**5**
6	IHT 211	MH 2914	59	66	66	43	47	36	**53**	**6**
7	IHT 212	86M01 (Check)	51	60	51	46	48	38	**49**	**8**
8	IHT 214	MH 2916	48	51	51	44	50	37	**47**	**10**
9	IHT 215	MH 2917	42	55	46	37	46	40	**44**	**13**
10	IHT 216	MH 2918	49	55	52	41	51	36	**47**	**10**
11	IHT 217	MH 2919	41	53	51	34	52	47	**46**	**11**
12	IHT 218	AHB 1269 (Check)	64	77	64	45	73	39	**60**	**2**
13	IHT 228	AHB 1200 (Check)	58	84	69	53	68	48	**63**	**1**
14	IHT 229	MH 2929	72	64	56	50	57	41	**57**	**4**
15	IHT 233	MH 2933	52	55	45	45	51	40	**48**	**9**

Table I.60: INITIAL HYBRID TRIAL (Medium) KHARIF - 2025 ZONE B
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD1	PTN	DHL	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 201	MH 2905	33	35	44	33	30	42	**36**	**3**
2	IHT 202	MH 2906	37	35	40	33	35	43	**37**	**2**
3	IHT 203	MH 2907	34	30	32	32	27	41	**32**	**7**
4	IHT 205	MH 2909	34	39	33	34	28	41	**35**	**4**
5	IHT 208	Pratap (Check)	35	36	32	32	28	48	**35**	**4**
6	IHT 211	MH 2914	34	39	41	31	22	36	**34**	**5**
7	IHT 212	86M01 (Check)	37	39	34	35	26	45	**36**	**3**
8	IHT 214	MH 2916	39	36	37	36	28	42	**36**	**3**
9	IHT 215	MH 2917	34	37	33	29	26	42	**33**	**6**
10	IHT 216	MH 2918	32	36	38	29	28	44	**34**	**5**
11	IHT 217	MH 2919	31	34	32	30	26	42	**32**	**7**
12	IHT 218	AHB 1269 (Check)	44	42	38	37	28	44	**39**	**1**
13	IHT 228	AHB 1200 (Check)	36	44	38	37	23	44	**37**	**2**
14	IHT 229	MH 2929	39	35	40	37	28	45	**37**	**2**
15	IHT 233	MH 2933	32	31	30	32	24	37	**31**	**8**

Table I.61: INITIAL HYBRID TRIAL (Late) KHARIF 2025 EXPERIMENTAL DETAILS ZONE A

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers			Insecticide
							N	P	K	
RAJASTHAN										
Jaipur (SKNAU)	-	-	05.7.25	06.10.25	21.7.25	Nil	40	30	0	Nil
Jaipur (Seed works)	MSL	7.2	30.6.25	28.9.25	18.7.25	30.7,12.8.25	80	60	40	Chloropyriphos, Coragen,
Amer (Rallis)	S	-	29.6.25	25.9.25	16.7.25	Nil	60	30	30	Nil
Alwar (Corteva)	L	7.5	04.7.25	05.10.25	10.8.25	Life Saving	90	60	30	Chloropyriphos+Imidachlorpid
Dausa (Rasi Seeds)	SL	-	22.6.25	21.9.25	10.7.25	Nil	10	10	2	Nil
Bharatpur (Nuziveedu)	-	-	25.6.25	-	-	Nil	60	40	30	Nil
GUJARAT										
Jamagar (JAU)	MB	7.6	30.6.25	10.10.25	13.7,22.7,28.7.25	09.8.25	80	40	0	Nil
Dehgam (kaveri Seed)	SL	-	16.7.25	16.10.25	25.7,14.8.25	16.7.25	128	92	0	Coragen
UTTAR PRADESH										
Aligarh (Hytech)	SL	-	28.6.25	01.10.25	21.7,23.8.25	-	60	25	15	Monocrotophos, Bavistin
Hathras (Ganga Kaveri)	SL	7.2	27.6.25	10.10.25	29.7.25	07.10.25	40	20	20	Coragen
Mathura (Kamadgiri)	SL	-	21.7.25	17.10.25	-	Nil	80	40	40	Chloropyriphos, Carbendanzime
HARYANA										
Hisar (CCSHAU)	SL	-	01.7.25	10.10.25	-	25.7.25	100	40	0	Nil
MADHYA PRADESH										
Gwalior (RVSKVV)	SL	7.1	20.7.25	26.10.25	21.8.25	19.8.25	60	40	20	Nil
PUNJAB										
Ludhiana (PAU)	SL	-	04.7.25	22.11.25	30.7, 29.8.25	30.7, 30.8, 01.10.25	100	60	0	Nil

SL = Sandy Loam, S = Sandy, MB = Medium Black, MSL = Medium Sandy Loam, L=Loam .

Table I.62: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR***	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	2594	2205	4154	1714	3250	2542	**2743**	2991	2939	**2965**	3298	2294	2761	**2784**	2847	1131	3872	**2882**	22
2	IHT 302	MH 2935	3311	4009	6539	3369	3935	3072	**4039**	3275	5783	**4529**	4247	3861	3472	**3860**	4791	1342	4377	**4157**	5
3	IHT 303	MH 2936	3100	2170	3272	1911	3512	2250	**2703**	1910	3567	**2738**	2901	2617	1856	**2458**	1533	720	3188	**2599**	25
4	IHT 304	MH 2937	2567	2061	3304	2503	2793	2204	**2572**	1924	3533	**2729**	2629	2811	2256	**2565**	2681	646	3358	**2663**	24
5	IHT 305	MH 2938	2744	3605	3920	3717	3136	3071	**3365**	3537	5567	**4552**	4060	3872	3233	**3722**	3122	1835	3458	**3619**	13
6	IHT 306	KBH 108 (Check)	2944	3061	5151	2897	3006	2884	**3324**	3042	4756	**3899**	4317	3661	2711	**3563**	2152	1757	2961	**3349**	16
7	IHT 307	MH 2939	3544	4064	4667	3703	3324	3054	**3726**	3012	5950	**4481**	4643	3194	3600	**3813**	2999	1943	3931	**3822**	11
8	IHT 308	MH 2940	2394	2283	3607	2819	3463	2151	**2786**	2043	3689	**2866**	3484	4450	3222	**3719**	2251	1311	4093	**3073**	19
9	IHT 309	MH 2941	2089	2088	2336	2142	3086	2171	**2319**	2795	5089	**3942**	3399	3583	3856	**3613**	2068	1462	3638	**2949**	21
10	IHT 310	MH 2942	2783	2858	4600	3067	2963	2351	**3104**	2507	5150	**3828**	3733	2683	3306	**3241**	2109	1602	3030	**3165**	17
11	IHT 311	MH 2943	1694	2057	2763	1786	3469	1734	**2251**	1288	3144	**2216**	2590	2161	1733	**2161**	1827	1307	2667	**2224**	27
12	IHT 312	MP 7878 (Check)	3089	3617	5210	3331	3272	2854	**3562**	3838	5856	**4847**	3788	3761	4111	**3887**	3079	2196	4851	**3897**	10
13	IHT 313	MH 2944	2778	2306	3369	2764	3228	2109	**2759**	2134	3278	**2706**	3259	2178	2267	**2568**	1634	1466	3681	**2691**	23
14	IHT 314	MH 2945	2450	3391	4164	3361	4071	2829	**3378**	2472	5333	**3903**	3982	4478	3806	**4089**	1442	1957	3954	**3518**	15
15	IHT 315	MH 2946	3767	2816	5015	3094	3503	1992	**3364**	2419	3439	**2929**	3313	2528	2617	**2819**	1627	1258	3062	**3015**	20
16	IHT 316	MH 2947	3033	4278	5458	3275	3454	4042	**3923**	4028	5733	**4881**	4970	3511	3700	**4060**	3364	1673	4057	**4069**	7
17	IHT 317	MH 2948	2811	3932	5207	3806	3676	4313	**3957**	3463	6233	**4848**	5250	3733	3772	**4252**	2527	1149	4131	**4066**	8
18	IHT 318	86M84 (Check)	2322	3978	5048	3331	3485	2755	**3486**	3458	5222	**4340**	5024	2794	3406	**3741**	2712	1980	3414	**3612**	14
19	IHT 319	MH 2949	2472	2489	4237	2797	3920	3154	**3178**	2934	3589	**3262**	3243	3817	2172	**3077**	2617	1224	3665	**3162**	18
20	IHT 320	MH 2950	2567	3621	4277	3300	4207	3151	**3520**	3555	5533	**4544**	5367	2594	3178	**3713**	2769	952	4328	**3727**	12
21	IHT 321	MH 2951	2178	4620	5737	3953	3222	4079	**3965**	4038	7139	**5588**	4869	4650	3844	**4454**	4153	1011	3898	**4337**	2
22	IHT 322	MH 2952	3178	4274	5247	3889	3432	3179	**3867**	3938	6417	**5177**	5149	3983	4828	**4653**	3824	958	4016	**4258**	4
23	IHT 323	MH 2953	2700	3998	6617	4272	4210	3571	**4228**	3813	6267	**5040**	5398	4378	3311	**4362**	4024	851	4389	**4381**	1
24	IHT 324	AHB 1200 (Check)	1728	2466	3062	2286	3222	2092	**2476**	2023	3072	**2548**	2450	2506	2417	**2457**	1661	851	3334	**2486**	26
25	IHT 325	MH 2954	1878	4317	6360	4244	3651	4000	**4075**	4449	6772	**5611**	4799	4489	3567	**4285**	3888	794	3910	**4333**	3
26	IHT 326	MH 2955	3361	3461	4846	4014	4015	3800	**3916**	3840	6544	**5192**	4674	4256	3883	**4271**	2006	1259	4251	**4073**	6
27	IHT 327	MH 2956	2244	3597	6065	2278	3414	4125	**3621**	3921	6067	**4994**	4060	4450	3778	**4096**	3231	1022	4721	**3996**	9
		LOC. MEAN	**2679**	**3245**	**4601**	**3097**	**3478**	**2946**	**3341**	**3061**	**5024**	**4043**	**4033**	**3455**	**3210**	**3566**	**2701**	**1321**	**3786**	**3486**	
		C.D. (5%)	**975**	**285**	**1593**	**903**	**471**	**731**	**633**	**506**	**651**	**1084**	**784**	**924**	**627**	**847**	**686**	**487**	**609**	**429**	
		C.D. (1%)	**1299**	**380**	**2123**	**1204**	**628**	**974**	**836**	**674**	**868**	**1466**	**1044**	**1231**	**835**	**1129**	**914**	**648**	**812**	**565**	
		C.V. (%)	**22.2**	**5.4**	**21.1**	**17.8**	**8.3**	**15.1**	**16.6**	**10.1**	**7.9**	**13.1**	**11.9**	**16.3**	**11.9**	**14.5**	**15.5**	**22.5**	**9.8**	**15.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**6.00**	**5.40**	**6.00**	**5.40**	**6.00**	**-**	**7.20**	**6.00**	**-**	**6.00**	**6.00**	**6.00**	**-**	**6.00**	**6.00**	**6.00**	**-**	

*****TEST LOCATION REJECTED DUE TO LOW AVERAGE YIELD (1321 kg/ha), THAN THE STATE AVERAGE YIELD (2166 kg/ha) TAKEN OVER 10 YEARS**

Table I.63: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	5944	5194	7056	7456	10154	10667	**7745**	6324	5600	**5962**	20078	5344	12044	**12489**	12583	10278	20639	**9954**	**22**
2	IHT 302	MH 2935	6889	8539	8340	9372	11108	13250	**9583**	8097	9406	**8751**	22767	6094	12400	**13754**	17167	7222	23150	**11700**	**10**
3	IHT 303	MH 2936	6056	10211	7963	10494	13377	12250	**10058**	7569	8450	**8010**	24878	5400	12533	**14270**	6000	5278	21917	**10884**	**19**
4	IHT 304	MH 2937	6778	9733	7136	12228	14000	9833	**9951**	7417	9878	**8647**	24878	7222	10594	**14231**	9106	5556	22361	**11194**	**15**
5	IHT 305	MH 2938	5944	8211	7414	8250	12531	13583	**9322**	8620	10211	**9416**	24211	6350	11050	**13870**	11944	6111	24153	**11327**	**13**
6	IHT 306	KBH 108 (Check)	8056	9561	7728	9322	10756	13542	**9828**	7190	9656	**8423**	26844	5578	13094	**15172**	11406	8333	19861	**11495**	**12**
7	IHT 307	MH 2939	7333	10461	7636	10028	9716	13792	**9828**	8699	10817	**9758**	24044	5867	14067	**14659**	11778	10278	24014	**12038**	**7**
8	IHT 308	MH 2940	5611	7750	6654	10350	15340	11958	**9611**	6745	8878	**7812**	19522	6183	14733	**13480**	8000	5556	25708	**10928**	**17**
9	IHT 309	MH 2941	5056	9578	6883	10767	8969	12333	**8931**	7593	8006	**7799**	21300	6167	12211	**13226**	10494	5722	21467	**10467**	**21**
10	IHT 310	MH 2942	5056	7633	7142	10244	10753	11958	**8798**	5801	10372	**8087**	23156	6333	11856	**13781**	11722	6556	22783	**10812**	**20**
11	IHT 311	MH 2943	4722	4167	5938	6022	11222	10708	**7130**	3088	5544	**4316**	12544	5500	8783	**8943**	8889	6389	17361	**7920**	**27**
12	IHT 312	MP 7878 (Check)	7278	9744	7679	12106	10735	13167	**10118**	9426	12694	**11060**	25556	7006	14950	**15837**	7778	11944	28044	**12722**	**3**
13	IHT 313	MH 2944	5778	5283	7623	9572	12284	10958	**8583**	4403	5783	**5093**	17111	5350	6067	**9509**	7389	9167	23367	**9295**	**25**
14	IHT 314	MH 2945	4333	8078	7167	9233	13272	13500	**9264**	6551	9750	**8150**	21344	6550	13428	**13774**	5133	12222	26389	**11211**	**14**
15	IHT 315	MH 2946	6444	7056	6988	7361	11605	11708	**8527**	5375	5822	**5599**	18544	4706	11178	**11476**	6667	6944	21178	**9398**	**24**
16	IHT 316	MH 2947	6444	9761	7296	10300	8253	16319	**9729**	7037	12361	**9699**	25467	6594	15333	**15798**	12667	9722	22867	**12173**	**6**
17	IHT 317	MH 2948	7278	11328	8136	12489	14222	14625	**11346**	8472	14067	**11269**	31033	7100	15350	**17828**	10056	9167	21961	**13235**	**2**
18	IHT 318	86M84 (Check)	5056	10844	7623	10233	14494	12500	**10125**	7602	11522	**9562**	33789	5206	13711	**17569**	10339	9444	22500	**12490**	**4**
19	IHT 319	MH 2949	4500	6583	7247	7061	10895	10833	**7853**	5514	6983	**6249**	17989	6561	11056	**11869**	8556	7500	23089	**9598**	**23**
20	IHT 320	MH 2950	5944	10033	6216	9228	7130	12854	**8568**	7620	9511	**8566**	29267	5556	12567	**15796**	9556	5000	22089	**10898**	**18**
21	IHT 321	MH 2951	6222	11550	8185	12861	16173	15875	**11811**	8694	15172	**11933**	28078	5872	13806	**15919**	15411	5833	22028	**13269**	**1**
22	IHT 322	MH 2952	6389	9583	8074	9150	10080	11333	**9102**	8130	11094	**9612**	28633	6628	16333	**17198**	14178	7056	27500	**12440**	**5**
23	IHT 323	MH 2953	6778	9494	7944	10844	12932	11917	**9985**	9093	10783	**9938**	19722	6506	12833	**13020**	16167	5278	24000	**11735**	**9**
24	IHT 324	AHB 1200 (Check)	3556	6228	6414	6444	11457	11083	**7530**	5042	6361	**5701**	12356	6039	10928	**9774**	7722	4889	21539	**8575**	**26**
25	IHT 325	MH 2954	4111	9800	7833	10178	9907	11667	**8916**	9231	12122	**10677**	21622	6194	13972	**13930**	13944	6667	24425	**11548**	**11**
26	IHT 326	MH 2955	6889	8100	7741	10589	12704	12167	**9698**	7611	10339	**8975**	23844	6644	11728	**14072**	7167	7500	21250	**11019**	**16**
27	IHT 327	MH 2956	5500	10272	7722	10483	12241	14292	**10085**	7894	12300	**10097**	25156	6250	14044	**15150**	11694	5833	23053	**11910**	**8**
		LOC. MEAN	**5924**	**8695**	**7399**	**9728**	**11715**	**12543**	**9334**	**7216**	**9759**	**8487**	**23101**	**6104**	**12617**	**13941**	**10500**	**7461**	**22915**	**11120**	
		C.D. (5%)	**1373**	**1042**	**1004**	**1856**	**1605**	**3873**	**1503**	**1547**	**1685**	**2446**	**5717**	**1083**	**1822**	**4506**	**2570**	**1475**	**4916**	**1453**	
		C.D. (1%)	**1830**	**1388**	**1338**	**2473**	**2138**	**5161**	**1987**	**2062**	**2245**	**3306**	**7618**	**1443**	**2428**	**6004**	**3424**	**1965**	**6550**	**1914**	
		C.V. (%)	**14.2**	**7.3**	**8.3**	**11.6**	**8.4**	**18.9**	**14.1**	**13.1**	**10.5**	**14.0**	**15.1**	**10.8**	**8.8**	**19.7**	**14.9**	**12.1**	**13.1**	**17.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.015**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**6.00**	**5.40**	**6.00**	**5.40**	**6.00**	**-**	**7.20**	**6.00**	**-**	**6.00**	**6.00**	**6.00**	**-**	**6.00**	**6.00**	**6.00**	**-**	

Table I.64: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	49	47	56	55	55	51	**52**	46	55	**51**	56	66	47	**57**	49	46	47	**52**	**24**
2	IHT 302	MH 2935	51	49	52	59	59	53	**54**	50	57	**53**	58	65	52	**58**	53	48	46	**54**	**22**
3	IHT 303	MH 2936	52	52	59	61	66	54	**58**	51	62	**57**	63	67	53	**61**	57	55	50	**57**	**10**
4	IHT 304	MH 2937	48	53	55	59	61	55	**55**	51	61	**56**	59	67	51	**59**	56	48	50	**55**	**17**
5	IHT 305	MH 2938	56	51	58	58	60	56	**57**	52	57	**54**	60	68	52	**60**	54	53	51	**56**	**14**
6	IHT 306	KBH 108 (Check)	52	53	59	61	63	56	**57**	53	61	**57**	61	69	54	**61**	57	53	54	**58**	**9**
7	IHT 307	MH 2939	53	53	57	62	58	55	**56**	50	63	**57**	61	67	54	**61**	59	50	53	**57**	**13**
8	IHT 308	MH 2940	50	51	58	58	61	54	**56**	50	58	**54**	60	68	52	**60**	51	51	52	**55**	**18**
9	IHT 309	MH 2941	58	59	61	63	59	60	**60**	56	61	**59**	66	69	53	**63**	57	54	55	**59**	**4**
10	IHT 310	MH 2942	51	48	56	57	56	53	**54**	50	58	**54**	60	68	56	**62**	57	49	48	**55**	**19**
11	IHT 311	MH 2943	45	43	49	55	58	50	**50**	44	50	**47**	50	67	45	**54**	49	43	45	**49**	**26**
12	IHT 312	MP 7878 (Check)	56	51	59	59	57	54	**56**	55	57	**56**	61	68	52	**60**	55	54	49	**56**	**15**
13	IHT 313	MH 2944	45	47	58	56	60	51	**53**	47	54	**51**	56	66	45	**56**	48	47	44	**52**	**25**
14	IHT 314	MH 2945	54	52	59	60	60	54	**56**	54	57	**56**	56	70	52	**59**	57	49	45	**56**	**16**
15	IHT 315	MH 2946	50	48	55	56	58	52	**53**	49	55	**52**	57	64	46	**56**	49	48	45	**52**	**23**
16	IHT 316	MH 2947	59	57	60	59	61	56	**58**	57	60	**59**	60	70	51	**60**	56	51	51	**58**	**8**
17	IHT 317	MH 2948	59	56	61	61	61	57	**59**	57	62	**59**	64	67	54	**62**	56	51	49	**58**	**6**
18	IHT 318	86M84 (Check)	58	52	60	59	59	56	**57**	54	59	**57**	60	71	52	**61**	56	53	51	**57**	**11**
19	IHT 319	MH 2949	54	49	53	57	57	52	**54**	49	55	**52**	58	65	49	**57**	55	51	51	**54**	**21**
20	IHT 320	MH 2950	56	50	57	56	62	53	**56**	51	55	**53**	57	67	48	**57**	54	52	48	**55**	**20**
21	IHT 321	MH 2951	61	56	59	61	63	58	**60**	58	62	**60**	64	68	55	**62**	58	53	51	**59**	**5**
22	IHT 322	MH 2952	61	56	58	63	63	58	**60**	56	61	**59**	64	69	54	**62**	61	60	54	**60**	**1**
23	IHT 323	MH 2953	58	51	57	60	62	57	**58**	54	61	**57**	60	72	53	**62**	55	58	52	**58**	**7**
24	IHT 324	AHB 1200 (Check)	47	44	49	54	51	47	**49**	43	50	**47**	49	65	46	**54**	49	45	46	**49**	**27**
25	IHT 325	MH 2954	58	52	58	58	60	53	**57**	54	58	**56**	58	67	54	**60**	54	60	53	**57**	**12**
26	IHT 326	MH 2955	59	56	61	60	61	58	**59**	57	63	**60**	64	69	54	**63**	58	61	55	**60**	**2**
27	IHT 327	MH 2956	56	56	60	60	63	58	**59**	57	62	**59**	63	68	55	**62**	61	60	55	**60**	**3**
		LOC. MEAN	**54**	**52**	**57**	**59**	**60**	**55**	**56**	**52**	**58**	**55**	**60**	**68**	**51**	**60**	**55**	**52**	**50**	**56**	
		C.D. (5%)	**2.0**	**1.0**	**3.0**	**2.0**	**2.0**	**3.0**	**2.0**	**2.0**	**3.0**	**4.0**	**2.0**	**3.0**	**2.0**	**3.0**	**3.0**	**2.0**	**1.0**	**1.0**	
		C.D. (1%)	**3.0**	**2.0**	**4.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.0**	**5.0**	**5.0**	**2.0**	**5.0**	**2.0**	**4.0**	**4.0**	**3.0**	**2.0**	**2.0**	
		C.V. (%)	**2.2**	**1.4**	**3.1**	**2.1**	**2.0**	**2.9**	**3.5**	**2.0**	**3.7**	**3.3**	**1.9**	**3.1**	**1.9**	**3.4**	**3.4**	**2.5**	**1.7**	**3.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.65: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO MATURITY ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	80	82	82	83	80	83	**82**	75	87	**81**	86	94	77	**86**	81	87	99	**84**	**23**
2	IHT 302	MH 2935	83	85	80	88	84	84	**84**	79	88	**83**	88	94	82	**88**	83	87	96	**86**	**22**
3	IHT 303	MH 2936	81	83	84	89	87	84	**84**	80	89	**85**	93	92	83	**89**	88	88	100	**87**	**16**
4	IHT 304	MH 2937	79	83	84	88	90	85	**85**	80	89	**85**	89	95	81	**89**	87	89	99	**87**	**17**
5	IHT 305	MH 2938	86	84	84	86	86	85	**85**	80	89	**85**	90	96	82	**90**	85	88	98	**87**	**15**
6	IHT 306	KBH 108 (Check)	81	84	86	89	89	88	**86**	82	89	**86**	90	99	84	**91**	88	88	100	**88**	**10**
7	IHT 307	MH 2939	82	82	83	90	87	87	**85**	78	91	**85**	90	95	84	**90**	90	90	103	**88**	**11**
8	IHT 308	MH 2940	82	85	86	86	87	84	**85**	79	91	**85**	88	95	82	**89**	81	90	101	**87**	**18**
9	IHT 309	MH 2941	89	87	90	90	84	89	**88**	85	91	**88**	96	96	83	**92**	87	92	100	**90**	**3**
10	IHT 310	MH 2942	80	83	85	84	83	85	**84**	79	88	**84**	90	97	86	**91**	89	88	90	**86**	**19**
11	IHT 311	MH 2943	78	82	76	82	84	82	**80**	73	82	**77**	79	97	75	**84**	79	85	97	**82**	**26**
12	IHT 312	MP 7878 (Check)	86	84	86	88	83	83	**85**	84	90	**87**	90	97	82	**89**	87	93	99	**88**	**12**
13	IHT 313	MH 2944	77	83	81	82	86	80	**81**	76	85	**81**	85	95	75	**85**	79	85	90	**83**	**25**
14	IHT 314	MH 2945	82	84	89	90	89	86	**87**	83	91	**87**	85	99	82	**88**	88	87	89	**87**	**14**
15	IHT 315	MH 2946	80	85	84	85	84	84	**83**	78	86	**82**	86	93	76	**85**	80	87	89	**84**	**24**
16	IHT 316	MH 2947	87	85	90	87	86	85	**87**	86	90	**88**	90	99	81	**90**	87	91	100	**89**	**9**
17	IHT 317	MH 2948	88	87	88	90	87	87	**88**	85	92	**89**	93	97	84	**91**	87	92	96	**89**	**6**
18	IHT 318	86M84 (Check)	88	85	89	87	88	88	**88**	84	90	**87**	90	98	82	**90**	87	91	100	**89**	**7**
19	IHT 319	MH 2949	83	83	81	85	83	84	**83**	78	88	**83**	89	94	79	**87**	85	89	99	**86**	**20**
20	IHT 320	MH 2950	85	83	87	83	89	82	**85**	81	88	**84**	87	96	78	**87**	85	91	87	**86**	**21**
21	IHT 321	MH 2951	89	85	87	89	88	87	**88**	86	91	**89**	93	96	85	**92**	89	93	100	**90**	**5**
22	IHT 322	MH 2952	90	87	86	90	87	87	**88**	85	90	**88**	92	98	84	**91**	92	94	102	**90**	**1**
23	IHT 323	MH 2953	88	84	83	89	88	89	**87**	83	90	**86**	90	99	83	**91**	86	91	102	**89**	**8**
24	IHT 324	AHB 1200 (Check)	79	83	75	81	79	79	**79**	73	82	**78**	78	94	76	**83**	80	85	97	**82**	**27**
25	IHT 325	MH 2954	88	84	87	84	85	83	**85**	84	89	**86**	87	95	84	**89**	85	90	103	**88**	**13**
26	IHT 326	MH 2955	90	85	88	88	86	87	**87**	86	91	**89**	93	97	84	**92**	88	92	101	**90**	**4**
27	IHT 327	MH 2956	83	86	88	89	90	89	**88**	86	91	**88**	93	97	85	**92**	92	93	102	**90**	**2**
		LOC. MEAN	**84**	**84**	**85**	**87**	**86**	**85**	**85**	**81**	**89**	**85**	**89**	**96**	**81**	**89**	**86**	**89**	**98**	**87**	
		C.D. (5%)	**1.0**	**1.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.0**	**1.0**	**3.0**	**3.0**	**2.0**	**5.0**	**2.0**	**4.0**	**3.0**	**2.0**	**2.0**	**2.0**	
		C.D. (1%)	**1.0**	**1.0**	**4.0**	**4.0**	**4.0**	**5.0**	**3.0**	**2.0**	**3.0**	**5.0**	**2.0**	**6.0**	**2.0**	**5.0**	**4.0**	**2.0**	**3.0**	**2.0**	
		C.V. (%)	**0.7**	**0.7**	**2.2**	**2.3**	**1.9**	**2.5**	**2.5**	**0.9**	**1.8**	**2.0**	**1.3**	**3.1**	**1.2**	**2.6**	**2.2**	**1.2**	**1.5**	**2.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.66: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PLANT HEIGHT (cm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ	JMR	DEG1	GUJ	ALR	HTR	MTR	UP	HSR	GLR	LDA	ZONE	RANK
									MEAN			MEAN				MEAN				MEAN	
1	IHT 301	MH 2934	197	227	186	193	208	226	**206**	192	177	**184**	267	186	202	**219**	231	164	212	**205**	**24**
2	IHT 302	MH 2935	206	267	204	227	248	266	**236**	216	202	**209**	268	188	215	**224**	255	169	197	**223**	**19**
3	IHT 303	MH 2936	255	307	264	267	273	275	**273**	239	220	**229**	301	221	208	**243**	268	183	188	**248**	**4**
4	IHT 304	MH 2937	235	312	234	265	287	283	**269**	213	240	**226**	299	215	253	**256**	260	197	202	**250**	**2**
5	IHT 305	MH 2938	229	282	243	243	245	265	**251**	246	225	**235**	281	221	238	**247**	254	193	195	**240**	**7**
6	IHT 306	KBH 108 (Check)	209	278	234	245	247	268	**247**	226	232	**229**	281	202	241	**241**	250	196	205	**237**	**9**
7	IHT 307	MH 2939	239	268	212	245	257	242	**244**	214	228	**221**	276	218	227	**240**	258	189	208	**234**	**12**
8	IHT 308	MH 2940	210	263	224	248	283	243	**245**	211	217	**214**	271	223	237	**244**	264	193	205	**235**	**11**
9	IHT 309	MH 2941	220	283	254	277	243	290	**261**	256	235	**246**	289	222	273	**261**	259	190	212	**250**	**1**
10	IHT 310	MH 2942	216	278	206	232	227	248	**235**	211	220	**216**	276	217	232	**242**	247	186	205	**229**	**15**
11	IHT 311	MH 2943	171	222	166	190	230	213	**199**	161	170	**166**	235	178	171	**195**	205	136	188	**188**	**27**
12	IHT 312	MP 7878 (Check)	214	273	222	243	243	235	**239**	244	232	**238**	264	228	206	**232**	262	186	208	**233**	**13**
13	IHT 313	MH 2944	200	255	184	203	242	232	**219**	194	195	**195**	242	181	188	**203**	217	170	188	**207**	**21**
14	IHT 314	MH 2945	197	272	229	248	235	243	**238**	223	223	**223**	267	226	231	**242**	251	186	225	**233**	**14**
15	IHT 315	MH 2946	174	243	191	210	255	226	**217**	187	195	**191**	255	185	187	**209**	227	159	192	**206**	**23**
16	IHT 316	MH 2947	200	272	223	227	217	256	**232**	220	227	**223**	237	211	222	**223**	248	177	208	**225**	**18**
17	IHT 317	MH 2948	215	282	244	247	268	268	**254**	240	247	**243**	282	239	269	**264**	265	193	210	**248**	**3**
18	IHT 318	86M84 (Check)	202	272	213	222	240	224	**229**	223	213	**218**	264	223	235	**241**	237	186	213	**226**	**17**
19	IHT 319	MH 2949	174	242	182	213	218	216	**207**	199	192	**195**	256	195	213	**222**	225	159	205	**206**	**22**
20	IHT 320	MH 2950	169	245	187	208	212	231	**209**	193	180	**186**	245	181	191	**205**	224	152	203	**201**	**25**
21	IHT 321	MH 2951	209	283	232	247	265	265	**250**	237	240	**238**	282	203	253	**246**	271	185	230	**243**	**5**
22	IHT 322	MH 2952	211	283	238	250	247	272	**250**	237	230	**234**	286	226	253	**255**	278	162	217	**242**	**6**
23	IHT 323	MH 2953	175	270	209	233	248	235	**229**	216	218	**217**	265	217	231	**238**	257	180	213	**226**	**16**
24	IHT 324	AHB 1200 (Check)	178	243	172	190	223	220	**204**	202	183	**193**	238	199	169	**202**	195	172	207	**199**	**26**
25	IHT 325	MH 2954	196	272	209	222	230	238	**228**	224	208	**216**	255	221	218	**231**	229	180	213	**223**	**20**
26	IHT 326	MH 2955	211	268	236	245	273	259	**249**	234	235	**235**	285	218	229	**244**	263	190	208	**240**	**8**
27	IHT 327	MH 2956	217	283	233	228	233	242	**239**	238	228	**233**	270	222	240	**244**	261	186	213	**235**	**10**
		LOC. MEAN	**205**	**268**	**216**	**232**	**244**	**247**	**236**	**218**	**215**	**217**	**268**	**210**	**223**	**234**	**247**	**178**	**206**	**227**	
		C.D. (5%)	**9.0**	**7.0**	**21.0**	**14.0**	**11.0**	**34.0**	**13.0**	**24.0**	**19.0**	**18.0**	**19.0**	**37.0**	**12.0**	**21.0**	**25.0**	**4.0**	**11.0**	**9.0**	
		C.D. (1%)	**12.0**	**9.0**	**28.0**	**19.0**	**15.0**	**45.0**	**17.0**	**31.0**	**25.0**	**24.0**	**26.0**	**49.0**	**16.0**	**28.0**	**34.0**	**6.0**	**15.0**	**12.0**	
		C.V. (%)	**2.8**	**1.6**	**6.0**	**3.7**	**2.8**	**8.3**	**4.8**	**6.6**	**5.3**	**4.0**	**4.4**	**10.8**	**3.3**	**5.4**	**6.3**	**1.5**	**3.3**	**5.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.67: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ	JMR	DEG1	GUJ	ALR	HTR	MTR	UP	HSR	GLR	LDA	ZONE	RANK
									MEAN			MEAN				MEAN				MEAN	
1	IHT 301	MH 2934	1.1	1.0	1.1	1.2	2.0	1.0	**1.2**	1.8	1.1	**1.5**	1.1	1.3	1.2	**1.2**	2.4	1.3	2.4	**1.4**	**26**
2	IHT 302	MH 2935	1.1	1.0	1.0	1.7	3.0	1.0	**1.5**	1.5	1.7	**1.6**	1.1	1.4	1.1	**1.2**	2.4	1.2	2.9	**1.6**	**10**
3	IHT 303	MH 2936	2.0	1.7	1.1	1.4	3.0	1.0	**1.7**	2.7	1.2	**1.9**	1.2	1.0	1.3	**1.2**	3.0	1.4	2.8	**1.8**	**1**
4	IHT 304	MH 2937	1.9	1.7	1.1	1.3	2.0	1.0	**1.5**	2.3	1.2	**1.8**	1.1	1.0	1.1	**1.1**	2.8	1.7	2.4	**1.6**	**7**
5	IHT 305	MH 2938	1.0	1.3	1.1	1.2	2.0	1.0	**1.3**	1.7	1.8	**1.8**	1.1	1.2	1.2	**1.1**	2.7	1.5	3.1	**1.6**	**14**
6	IHT 306	KBH 108 (Check)	1.9	1.0	1.1	1.3	2.0	1.0	**1.4**	1.7	1.3	**1.5**	1.1	1.1	1.2	**1.1**	2.6	1.7	2.8	**1.6**	**15**
7	IHT 307	MH 2939	1.1	2.0	1.0	1.4	2.0	1.0	**1.4**	2.4	1.9	**2.1**	1.1	1.1	1.1	**1.1**	2.6	1.5	2.5	**1.6**	**6**
8	IHT 308	MH 2940	1.1	2.0	1.1	1.3	2.0	1.0	**1.4**	1.9	1.1	**1.5**	1.0	1.1	1.2	**1.1**	2.8	1.5	3.9	**1.6**	**4**
9	IHT 309	MH 2941	1.9	1.3	1.1	1.2	2.0	1.7	**1.5**	1.8	1.1	**1.4**	1.1	1.1	1.1	**1.1**	2.7	1.4	3.5	**1.6**	**5**
10	IHT 310	MH 2942	1.1	1.3	1.0	1.4	2.0	1.3	**1.4**	1.6	1.4	**1.5**	1.1	1.1	1.2	**1.1**	2.9	1.7	3.1	**1.6**	**11**
11	IHT 311	MH 2943	1.0	1.3	1.1	1.4	3.0	1.3	**1.5**	1.7	1.0	**1.3**	1.1	1.1	1.3	**1.2**	2.1	1.6	4.0	**1.6**	**3**
12	IHT 312	MP 7878 (Check)	1.0	1.0	1.0	1.4	2.0	1.0	**1.2**	1.6	1.7	**1.7**	1.1	1.2	1.1	**1.1**	2.7	1.3	3.2	**1.5**	**19**
13	IHT 313	MH 2944	1.2	1.0	1.0	1.3	2.0	1.3	**1.3**	1.7	1.0	**1.4**	1.1	1.4	1.1	**1.2**	2.3	1.7	2.9	**1.5**	**22**
14	IHT 314	MH 2945	1.1	1.3	1.1	1.3	3.0	1.0	**1.5**	2.0	1.3	**1.6**	1.1	1.2	1.1	**1.2**	2.5	1.4	2.9	**1.6**	**8**
15	IHT 315	MH 2946	1.0	1.0	1.0	1.4	2.0	1.0	**1.2**	1.7	1.0	**1.3**	1.1	1.1	1.1	**1.1**	2.1	1.8	2.9	**1.4**	**25**
16	IHT 316	MH 2947	1.0	1.0	1.1	1.4	2.0	1.0	**1.2**	1.5	1.3	**1.4**	1.1	1.2	1.2	**1.2**	2.3	1.2	3.5	**1.5**	**23**
17	IHT 317	MH 2948	1.1	1.0	1.1	1.3	2.0	1.3	**1.3**	1.5	1.6	**1.5**	1.0	1.1	1.2	**1.1**	2.4	1.8	3.8	**1.6**	**10**
18	IHT 318	86M84 (Check)	1.1	1.0	1.0	1.3	3.0	1.0	**1.4**	1.5	1.4	**1.4**	1.1	1.3	1.1	**1.1**	2.3	1.9	2.6	**1.5**	**16**
19	IHT 319	MH 2949	1.1	1.3	1.0	1.4	2.0	1.0	**1.3**	1.7	1.3	**1.5**	1.2	1.1	1.1	**1.1**	2.3	1.7	3.0	**1.5**	**18**
20	IHT 320	MH 2950	1.0	1.0	1.1	1.3	3.0	1.0	**1.4**	1.9	1.2	**1.5**	1.1	1.1	1.1	**1.1**	2.3	1.5	3.5	**1.6**	**12**
21	IHT 321	MH 2951	1.2	1.0	1.0	1.3	2.0	1.0	**1.3**	1.4	1.8	**1.6**	1.1	1.2	1.1	**1.1**	2.4	1.3	3.3	**1.5**	**20**
22	IHT 322	MH 2952	1.0	1.0	1.0	1.3	2.0	1.0	**1.2**	1.9	1.9	**1.9**	1.1	1.1	1.1	**1.1**	2.8	1.7	2.3	**1.5**	**21**
23	IHT 323	MH 2953	1.0	1.0	1.0	1.5	3.0	1.0	**1.4**	1.5	1.7	**1.6**	1.1	1.3	1.2	**1.2**	2.4	1.2	2.9	**1.6**	**13**
24	IHT 324	AHB 1200 (Check)	1.1	1.0	1.0	1.2	2.0	1.7	**1.3**	1.8	1.0	**1.4**	1.0	1.1	1.2	**1.1**	2.1	1.1	4.2	**1.5**	**17**
25	IHT 325	MH 2954	1.1	1.3	1.0	1.5	3.0	1.0	**1.5**	1.5	1.9	**1.7**	1.1	1.1	1.1	**1.1**	2.2	1.3	4.5	**1.7**	**2**
26	IHT 326	MH 2955	1.1	1.0	1.0	1.3	3.0	1.0	**1.4**	1.9	1.9	**1.9**	1.1	1.2	1.1	**1.2**	2.1	1.3	3.2	**1.6**	**9**
27	IHT 327	MH 2956	1.1	1.0	1.1	1.3	2.0	1.3	**1.3**	1.7	1.6	**1.7**	1.1	1.2	1.1	**1.1**	2.8	1.3	1.9	**1.5**	**24**
		LOC. MEAN	**1.2**	**1.2**	**1.1**	**1.3**	**2.3**	**1.1**	**1.4**	**1.8**	**1.4**	**1.6**	**1.1**	**1.2**	**1.1**	**1.1**	**2.5**	**1.5**	**3.1**	**1.6**	
		C.D. (5%)	**0.3**	**0.5**	**0.1**	**0.2**	**0.0**	**0.5**	**0.3**	**0.5**	**0.4**	**0.7**	**0.1**	**0.3**	**0.1**	**0.1**	**0.7**	**0.4**	**0.7**	**0.2**	
		C.D. (1%)	**0.4**	**0.7**	**0.1**	**0.2**	**0.0**	**0.6**	**0.4**	**0.7**	**0.5**	**0.9**	**0.1**	**0.5**	**0.2**	**0.2**	**0.9**	**0.5**	**1.0**	**0.3**	
		C.V. (%)	**13.8**	**26.4**	**4.9**	**8.0**	**0.5**	**26.1**	**20.5**	**18.3**	**16.8**	**21.1**	**5.9**	**18.3**	**6.4**	**6.6**	**16.0**	**16.5**	**14.3**	**18.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.467**	**0.000**	**0.000**	**0.847**	**0.000**	**0.000**	**0.000**	**0.6**	**0.000**	**0.000**	**0.000**	**0.582**	

Table I.68: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PANICLE LENGTH (cm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	23	34	29	31	26	25	**28**	24	25	**25**	28	23	22	**24**	28	24	24	**26**	**9**
2	IHT 302	MH 2935	21	26	24	28	25	27	**25**	22	23	**23**	26	24	24	**25**	26	20	19	**24**	**21**
3	IHT 303	MH 2936	25	27	27	29	27	27	**27**	29	23	**26**	28	29	25	**27**	28	21	18	**26**	**13**
4	IHT 304	MH 2937	20	32	28	31	28	30	**28**	29	26	**28**	29	25	23	**26**	25	21	25	**27**	**7**
5	IHT 305	MH 2938	22	26	28	30	27	28	**27**	26	26	**26**	28	27	25	**27**	28	24	21	**26**	**10**
6	IHT 306	KBH 108 (Check)	20	26	26	28	26	26	**26**	26	24	**25**	28	28	26	**27**	26	25	26	**26**	**12**
7	IHT 307	MH 2939	26	28	27	27	28	26	**27**	28	25	**26**	27	26	29	**27**	27	23	25	**27**	**6**
8	IHT 308	MH 2940	22	29	28	30	26	26	**27**	24	25	**24**	28	25	28	**27**	27	25	27	**26**	**8**
9	IHT 309	MH 2941	21	29	30	31	29	31	**29**	29	27	**28**	28	28	31	**29**	30	26	23	**28**	**1**
10	IHT 310	MH 2942	23	30	28	31	27	27	**28**	29	27	**28**	27	27	29	**28**	27	24	25	**27**	**5**
11	IHT 311	MH 2943	19	27	21	22	27	21	**23**	19	20	**20**	26	22	23	**24**	23	20	21	**22**	**26**
12	IHT 312	MP 7878 (Check)	24	27	26	29	28	24	**26**	27	25	**26**	26	25	23	**25**	26	24	24	**26**	**16**
13	IHT 313	MH 2944	22	24	21	24	27	25	**24**	21	22	**22**	28	24	22	**25**	25	23	19	**23**	**25**
14	IHT 314	MH 2945	24	28	28	27	30	28	**27**	27	25	**26**	27	25	31	**28**	30	28	32	**28**	**2**
15	IHT 315	MH 2946	22	28	25	26	27	27	**26**	24	24	**24**	24	25	23	**24**	25	27	25	**25**	**18**
16	IHT 316	MH 2947	19	25	24	27	27	23	**24**	25	24	**25**	27	24	24	**25**	22	23	24	**24**	**19**
17	IHT 317	MH 2948	22	27	27	26	25	23	**25**	25	23	**24**	27	28	26	**27**	24	26	25	**25**	**17**
18	IHT 318	86M84 (Check)	24	30	28	31	26	23	**27**	29	26	**27**	30	26	29	**28**	26	27	28	**27**	**4**
19	IHT 319	MH 2949	24	28	27	28	28	24	**27**	26	25	**26**	28	27	27	**27**	25	25	25	**26**	**9**
20	IHT 320	MH 2950	20	25	25	26	26	24	**24**	23	23	**23**	26	23	25	**25**	23	24	24	**24**	**20**
21	IHT 321	MH 2951	22	27	25	30	27	27	**26**	26	25	**26**	29	24	25	**26**	26	27	25	**26**	**11**
22	IHT 322	MH 2952	22	27	27	25	29	25	**26**	25	25	**25**	27	24	30	**27**	26	23	26	**26**	**15**
23	IHT 323	MH 2953	19	24	25	27	26	20	**24**	25	22	**24**	25	22	26	**24**	23	23	29	**24**	**23**
24	IHT 324	AHB 1200 (Check)	17	23	22	26	26	19	**22**	22	23	**23**	24	27	25	**25**	23	27	30	**24**	**22**
25	IHT 325	MH 2954	24	29	27	31	29	22	**27**	29	27	**28**	29	28	26	**28**	25	28	29	**28**	**3**
26	IHT 326	MH 2955	22	23	23	25	26	21	**23**	25	22	**23**	25	25	24	**24**	24	24	25	**24**	**24**
27	IHT 327	MH 2956	26	25	25	28	26	22	**25**	26	25	**26**	27	26	25	**26**	25	28	27	**26**	**14**
		LOC. MEAN	**22**	**27**	**26**	**28**	**27**	**25**	**26**	**26**	**24**	**25**	**27**	**25**	**26**	**26**	**26**	**24**	**25**	**26**	
		C.D. (5%)	**2.0**	**2.0**	**3.0**	**1.0**	**2.0**	**6.0**	**2.0**	**3.0**	**3.0**	**2.0**	**1.0**	**5.0**	**1.0**	**3.0**	**4.0**	**1.0**	**2.0**	**1.0**	
		C.D. (1%)	**2.0**	**2.0**	**4.0**	**1.0**	**3.0**	**8.0**	**3.0**	**3.0**	**4.0**	**3.0**	**2.0**	**6.0**	**2.0**	**4.0**	**5.0**	**2.0**	**2.0**	**2.0**	
		C.V. (%)	**4.6**	**4.1**	**6.8**	**1.5**	**4.6**	**14.9**	**6.9**	**6.1**	**7.2**	**4.7**	**3.2**	**11.6**	**3.2**	**6.9**	**8.4**	**3.0**	**4.2**	**7.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.014**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.69: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	3.3	3.6	3.1	3.6	3.4	2.4	**3.3**	3.0	3.1	**3.1**	3.8	3.4	3.5	**3.6**	3.7	2.8	2.6	**3.2**	**16**
2	IHT 302	MH 2935	2.8	3.5	3.3	3.6	3.4	2.4	**3.2**	3.1	3.1	**3.1**	3.9	3.2	3.7	**3.6**	3.8	2.8	3.0	**3.3**	**14**
3	IHT 303	MH 2936	2.5	2.7	2.5	2.8	3.0	2.7	**2.7**	2.7	2.8	**2.8**	3.1	3.3	3.3	**3.2**	3.2	2.5	2.8	**2.8**	**25**
4	IHT 304	MH 2937	2.4	2.7	2.9	2.6	3.0	2.6	**2.7**	2.9	2.8	**2.9**	3.7	3.0	3.4	**3.4**	3.4	2.5	2.6	**2.9**	**24**
5	IHT 305	MH 2938	2.9	3.5	3.4	3.5	3.2	2.3	**3.1**	3.4	3.1	**3.3**	3.8	3.3	3.7	**3.6**	3.9	3.4	2.8	**3.3**	**8**
6	IHT 306	KBH 108 (Check)	3.1	3.5	3.4	3.7	3.5	2.4	**3.3**	3.4	3.3	**3.4**	3.9	3.4	3.7	**3.7**	3.7	3.4	3.3	**3.4**	**3**
7	IHT 307	MH 2939	3.3	3.4	3.2	3.3	3.4	2.6	**3.2**	3.5	3.1	**3.3**	3.4	3.2	4.0	**3.5**	3.2	3.2	2.6	**3.2**	**18**
8	IHT 308	MH 2940	3.1	3.1	3.3	3.6	3.2	2.4	**3.1**	3.2	3.1	**3.1**	3.7	3.5	3.9	**3.7**	3.8	3.2	3.1	**3.3**	**9**
9	IHT 309	MH 2941	2.7	3.4	3.1	3.1	3.2	2.4	**3.0**	3.5	3.4	**3.4**	3.8	3.3	3.8	**3.6**	3.6	3.2	3.0	**3.3**	**15**
10	IHT 310	MH 2942	3.1	3.2	3.0	3.2	3.3	2.7	**3.1**	2.9	3.1	**3.0**	3.7	3.1	3.6	**3.5**	3.5	3.4	2.7	**3.2**	**21**
11	IHT 311	MH 2943	2.8	3.4	3.0	3.2	3.5	2.4	**3.0**	3.1	3.1	**3.1**	3.8	4.4	3.7	**4.0**	3.2	2.5	3.0	**3.2**	**20**
12	IHT 312	MP 7878 (Check)	3.2	3.5	3.4	3.4	3.7	2.5	**3.3**	3.3	3.2	**3.3**	3.8	3.5	3.7	**3.7**	3.5	2.9	3.3	**3.3**	**7**
13	IHT 313	MH 2944	3.1	3.2	3.1	3.3	3.7	2.7	**3.2**	3.1	3.1	**3.1**	3.7	3.3	3.7	**3.6**	3.4	3.6	3.0	**3.3**	**11**
14	IHT 314	MH 2945	3.5	3.3	3.3	3.2	3.4	2.4	**3.2**	3.4	3.2	**3.3**	3.8	3.2	4.1	**3.7**	3.9	3.2	4.0	**3.4**	**1**
15	IHT 315	MH 2946	2.9	3.6	3.1	3.5	3.4	2.4	**3.2**	3.2	3.2	**3.2**	3.6	3.0	3.7	**3.4**	3.8	3.1	3.5	**3.3**	**12**
16	IHT 316	MH 2947	2.9	3.6	3.6	3.8	3.4	2.6	**3.3**	3.5	3.3	**3.4**	3.9	3.7	3.7	**3.8**	3.5	3.1	3.2	**3.4**	**4**
17	IHT 317	MH 2948	2.7	3.5	3.2	3.3	3.3	2.5	**3.1**	3.2	3.2	**3.2**	3.8	3.4	3.5	**3.6**	3.8	2.7	3.2	**3.2**	**17**
18	IHT 318	86M84 (Check)	2.7	3.5	3.1	3.6	3.3	2.4	**3.1**	3.4	3.2	**3.3**	3.7	3.2	3.8	**3.6**	3.7	2.6	3.0	**3.2**	**19**
19	IHT 319	MH 2949	2.6	3.2	2.9	3.1	3.1	2.4	**2.9**	3.1	2.9	**3.0**	3.7	3.1	3.4	**3.4**	3.2	3.1	2.8	**3.0**	**23**
20	IHT 320	MH 2950	2.7	3.8	3.4	3.6	3.4	2.3	**3.2**	3.6	3.5	**3.5**	4.2	3.3	3.9	**3.8**	3.9	3.2	3.0	**3.4**	**2**
21	IHT 321	MH 2951	2.9	3.6	2.9	3.7	3.5	2.4	**3.2**	3.2	3.3	**3.3**	3.9	3.1	3.8	**3.6**	3.8	2.5	3.2	**3.3**	**12**
22	IHT 322	MH 2952	2.9	3.6	3.2	3.2	3.5	2.6	**3.2**	3.0	3.3	**3.2**	3.6	3.1	3.9	**3.5**	3.8	3.1	3.2	**3.3**	**10**
23	IHT 323	MH 2953	2.7	3.9	3.6	3.5	3.6	2.4	**3.3**	3.5	3.3	**3.4**	3.9	3.3	4.3	**3.8**	3.8	2.7	2.9	**3.4**	**6**
24	IHT 324	AHB 1200 (Check)	2.8	3.5	3.3	3.8	3.3	2.4	**3.2**	3.1	3.1	**3.1**	3.8	3.2	3.7	**3.6**	3.5	2.8	3.2	**3.3**	**15**
25	IHT 325	MH 2954	3.1	3.7	3.2	3.5	3.3	2.4	**3.2**	3.3	3.4	**3.3**	3.7	3.2	3.6	**3.5**	3.4	2.6	3.3	**3.3**	**13**
26	IHT 326	MH 2955	2.8	3.3	3.0	3.2	3.2	2.5	**3.0**	3.0	3.1	**3.0**	3.5	3.3	3.5	**3.5**	3.4	2.9	3.0	**3.1**	**22**
27	IHT 327	MH 2956	3.5	3.4	3.2	3.3	3.3	2.4	**3.2**	3.3	3.3	**3.3**	3.7	3.3	3.7	**3.6**	3.9	3.4	3.7	**3.4**	**5**
		LOC. MEAN	**2.9**	**3.4**	**3.2**	**3.4**	**3.3**	**2.5**	**3.1**	**3.2**	**3.2**	**3.2**	**3.7**	**3.3**	**3.7**	**3.6**	**3.6**	**3.0**	**3.1**	**3.3**	
		C.D. (5%)	**0.2**	**0.2**	**0.3**	**0.1**	**0.2**	**0.3**	**0.2**	**0.3**	**0.3**	**0.2**	**0.2**	**0.7**	**0.3**	**0.3**	**0.5**	**0.2**	**0.4**	**0.2**	
		C.D. (1%)	**0.2**	**0.3**	**0.5**	**0.1**	**0.3**	**0.5**	**0.3**	**0.4**	**0.4**	**0.3**	**0.2**	**0.9**	**0.4**	**0.5**	**0.6**	**0.3**	**0.5**	**0.2**	
		C.V. (%)	**3.3**	**4.3**	**6.6**	**1.2**	**3.5**	**8.6**	**6.2**	**5.9**	**5.4**	**3.4**	**2.6**	**12.0**	**4.5**	**5.8**	**8.2**	**4.5**	**7.7**	**6.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.061**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.70: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 1000-SEED Wt.(g) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	9.8	10.8	10.3	10.1	10.4	12.0	**10.6**	10.5	12.3	**11.4**	9.3	10.6	**10.0**	13.2	18.4	10.0	**11.4**	**6**
2	IHT 302	MH 2935	9.2	14.2	10.6	11.5	11.2	10.2	**11.1**	12.7	14.7	**13.7**	10.5	9.9	**10.2**	12.2	11.8	10.3	**11.5**	**5**
3	IHT 303	MH 2936	9.0	10.3	11.6	9.9	9.9	11.4	**10.3**	9.6	10.1	**9.9**	9.8	10.4	**10.1**	12.1	10.9	9.2	**10.3**	**19**
4	IHT 304	MH 2937	7.7	10.9	10.6	9.5	9.4	12.1	**10.0**	9.7	10.6	**10.1**	9.1	10.7	**9.9**	11.2	10.6	9.6	**10.1**	**21**
5	IHT 305	MH 2938	8.9	11.0	11.1	10.0	10.1	12.6	**10.6**	11.8	13.8	**12.8**	9.7	10.9	**10.3**	11.3	12.4	10.3	**11.1**	**9**
6	IHT 306	KBH 108 (Check)	9.8	13.1	10.5	12.1	11.4	12.1	**11.5**	11.6	13.0	**12.3**	11.8	11.0	**11.4**	12.1	19.8	10.0	**12.2**	**2**
7	IHT 307	MH 2939	8.4	10.8	11.6	9.5	11.0	10.2	**10.3**	10.9	10.6	**10.8**	9.0	11.7	**10.4**	10.1	10.9	8.9	**10.3**	**20**
8	IHT 308	MH 2940	9.2	11.9	11.8	10.6	10.5	10.2	**10.7**	11.0	11.7	**11.4**	11.4	11.0	**11.2**	13.0	12.4	10.9	**11.2**	**7**
9	IHT 309	MH 2941	7.2	9.9	11.6	9.6	10.3	11.2	**10.0**	9.6	10.5	**10.0**	10.0	10.3	**10.2**	10.6	10.8	9.3	**10.1**	**24**
10	IHT 310	MH 2942	8.6	10.9	10.6	10.2	10.7	9.5	**10.1**	10.5	12.3	**11.4**	9.4	10.3	**9.9**	13.0	11.6	8.9	**10.5**	**16**
11	IHT 311	MH 2943	7.8	11.2	10.2	9.2	9.3	12.0	**10.0**	10.3	13.1	**11.7**	8.6	10.3	**9.5**	10.2	9.7	9.1	**10.1**	**23**
12	IHT 312	MP 7878 (Check)	8.4	12.2	11.0	11.6	13.6	10.1	**11.1**	12.3	13.0	**12.7**	10.5	10.3	**10.4**	11.9	14.4	9.7	**11.5**	**4**
13	IHT 313	MH 2944	9.0	11.3	10.6	10.1	9.4	12.1	**10.4**	10.7	12.6	**11.7**	8.8	10.8	**9.8**	14.0	12.4	9.0	**10.8**	**12**
14	IHT 314	MH 2945	7.2	10.5	10.6	9.9	9.2	9.3	**9.4**	10.2	11.0	**10.6**	8.5	10.6	**9.5**	10.1	10.6	10.0	**9.8**	**26**
15	IHT 315	MH 2946	9.7	10.6	10.4	10.2	9.4	11.2	**10.2**	10.2	15.8	**13.0**	9.7	10.4	**10.0**	14.0	11.7	10.6	**11.1**	**8**
16	IHT 316	MH 2947	10.6	13.7	11.4	11.0	13.6	10.2	**11.7**	12.0	15.0	**13.5**	10.3	11.1	**10.7**	13.6	12.0	8.7	**11.8**	**3**
17	IHT 317	MH 2948	8.9	10.0	11.6	9.9	7.7	12.3	**10.1**	10.0	12.0	**11.0**	8.6	11.2	**9.9**	10.7	10.1	8.2	**10.1**	**22**
18	IHT 318	86M84 (Check)	8.0	11.4	10.8	10.3	11.1	11.3	**10.5**	12.0	13.3	**12.7**	8.4	10.6	**9.5**	12.0	13.6	9.9	**11.0**	**11**
19	IHT 319	MH 2949	7.0	10.2	10.5	9.4	8.4	11.2	**9.5**	9.7	10.9	**10.3**	9.5	10.3	**9.9**	10.1	11.1	9.5	**9.8**	**25**
20	IHT 320	MH 2950	7.5	11.1	10.1	9.1	10.0	12.3	**10.0**	12.0	13.7	**12.8**	9.0	9.8	**9.4**	12.2	12.2	9.3	**10.6**	**15**
21	IHT 321	MH 2951	6.8	12.1	11.1	11.5	10.2	9.1	**10.1**	12.1	12.1	**12.1**	10.4	11.1	**10.8**	12.5	11.4	9.5	**10.8**	**14**
22	IHT 322	MH 2952	6.8	11.6	10.4	10.6	10.4	12.3	**10.4**	11.0	13.9	**12.5**	10.0	10.9	**10.4**	11.8	15.9	8.2	**11.1**	**10**
23	IHT 323	MH 2953	6.5	9.3	10.3	9.1	7.5	10.4	**8.8**	9.1	12.8	**11.0**	8.8	10.4	**9.6**	9.9	10.3	8.0	**9.4**	**27**
24	IHT 324	AHB 1200 (Check)	8.3	10.6	10.4	9.8	10.4	11.0	**10.1**	11.2	11.3	**11.2**	9.0	10.6	**9.8**	12.4	13.3	8.2	**10.5**	**17**
25	IHT 325	MH 2954	7.5	11.7	10.8	10.4	10.5	10.4	**10.2**	11.7	14.4	**13.1**	9.3	10.5	**9.9**	10.9	13.1	9.3	**10.8**	**13**
26	IHT 326	MH 2955	8.0	9.4	11.4	10.2	10.4	11.2	**10.1**	10.7	11.5	**11.1**	11.0	11.1	**11.0**	11.6	11.3	8.7	**10.5**	**18**
27	IHT 327	MH 2956	10.9	14.7	11.0	12.1	13.6	10.8	**12.2**	13.2	14.6	**13.9**	12.8	11.1	**12.0**	13.5	13.9	10.1	**12.5**	**1**
		LOC. MEAN	**8.4**	**11.3**	**10.9**	**10.3**	**10.3**	**11.1**	**10.4**	**11.0**	**12.6**	**11.8**	**9.7**	**10.7**	**10.2**	**11.9**	**12.5**	**9.4**	**10.8**	
		C.D. (5%)	**0.6**	**1.0**	**1.0**	**1.1**	**0.3**	**2.1**	**1.1**	**0.9**	**2.1**	**1.8**	**1.5**	**0.4**	**1.5**	**1.7**	**0.8**	**0.6**	**0.9**	
		C.D. (1%)	**0.8**	**1.4**	**1.3**	**1.4**	**0.4**	**2.7**	**1.4**	**1.2**	**2.7**	**2.4**	**2.0**	**0.5**	**2.0**	**2.2**	**1.1**	**0.8**	**1.1**	
		C.V. (%)	**4.4**	**5.5**	**5.5**	**6.3**	**1.8**	**11.3**	**9.1**	**4.9**	**10.0**	**7.5**	**9.4**	**2.3**	**9.4**	**8.7**	**4.0**	**3.9**	**9.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.71: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	92	76	91	96	78	64	**83**	106	70	**88**	79	88	83	**83**	65	64	82	**81**	**10**
2	IHT 302	MH 2935	117	79	113	105	79	63	**93**	91	74	**83**	78	82	84	**81**	67	58	81	**84**	**3**
3	IHT 303	MH 2936	105	77	79	108	79	76	**87**	102	73	**88**	78	88	67	**78**	52	28	81	**78**	**21**
4	IHT 304	MH 2937	112	80	72	110	79	58	**85**	104	70	**87**	78	88	84	**83**	59	32	81	**79**	**16**
5	IHT 305	MH 2938	90	81	75	99	79	74	**83**	105	77	**91**	80	80	84	**81**	60	37	81	**79**	**18**
6	IHT 306	KBH 108 (Check)	103	78	86	107	76	55	**84**	101	69	**85**	79	85	84	**82**	48	47	82	**79**	**20**
7	IHT 307	MH 2939	96	80	93	108	80	63	**87**	99	77	**88**	80	83	84	**82**	60	58	81	**82**	**9**
8	IHT 308	MH 2940	86	76	65	110	81	71	**81**	104	60	**82**	80	86	83	**83**	60	29	80	**76**	**25**
9	IHT 309	MH 2941	92	78	58	107	79	63	**79**	93	73	**83**	79	82	83	**82**	50	27	81	**75**	**26**
10	IHT 310	MH 2942	76	80	84	108	76	62	**81**	89	74	**81**	78	87	83	**83**	59	41	81	**77**	**24**
11	IHT 311	MH 2943	86	80	72	89	78	60	**77**	79	72	**76**	78	82	78	**79**	52	25	81	**72**	**27**
12	IHT 312	MP 7878 (Check)	111	80	90	115	81	56	**89**	86	74	**80**	79	83	84	**82**	55	51	81	**80**	**13**
13	IHT 313	MH 2944	107	79	104	105	80	70	**91**	87	72	**80**	79	86	83	**83**	58	29	80	**80**	**15**
14	IHT 314	MH 2945	82	80	74	109	78	65	**81**	94	75	**84**	80	82	84	**82**	58	42	81	**77**	**23**
15	IHT 315	MH 2946	111	78	86	99	80	63	**86**	104	68	**86**	79	83	83	**82**	61	53	81	**81**	**12**
16	IHT 316	MH 2947	117	81	80	107	79	67	**89**	108	81	**94**	79	81	84	**81**	61	64	80	**84**	**4**
17	IHT 317	MH 2948	119	81	91	116	81	68	**93**	97	73	**85**	76	83	84	**81**	56	69	81	**84**	**2**
18	IHT 318	86M84 (Check)	113	81	92	110	80	79	**92**	92	79	**85**	80	83	83	**82**	56	42	81	**82**	**6**
19	IHT 319	MH 2949	82	76	96	104	76	76	**85**	86	79	**82**	79	83	83	**82**	62	39	80	**79**	**19**
20	IHT 320	MH 2950	95	80	84	107	80	58	**84**	107	79	**93**	78	85	84	**82**	65	23	80	**79**	**17**
21	IHT 321	MH 2951	100	80	98	115	79	71	**91**	106	79	**93**	78	83	84	**82**	62	33	81	**82**	**8**
22	IHT 322	MH 2952	123	80	92	106	78	72	**92**	106	77	**92**	77	86	84	**82**	60	47	81	**83**	**5**
23	IHT 323	MH 2953	118	81	102	114	80	60	**92**	108	74	**91**	80	84	83	**83**	66	48	81	**84**	**1**
24	IHT 324	AHB 1200 (Check)	78	80	80	91	78	78	**81**	96	72	**84**	81	85	83	**83**	53	50	80	**78**	**22**
25	IHT 325	MH 2954	87	78	99	106	80	64	**86**	101	77	**89**	81	84	83	**83**	58	51	81	**81**	**11**
26	IHT 326	MH 2955	108	78	86	108	80	70	**88**	110	77	**94**	79	83	84	**82**	60	45	81	**82**	**7**
27	IHT 327	MH 2956	94	79	86	108	79	71	**86**	91	77	**84**	80	84	84	**83**	65	40	81	**80**	**14**
		LOC. MEAN	**100**	**79**	**86**	**106**	**79**	**67**	**86**	**98**	**74**	**86**	**79**	**84**	**83**	**82**	**59**	**43**	**81**	**80**	
		C.D. (5%)	**20.0**	**4.0**	**20.0**	**11.0**	**3.0**	**13.0**	**9.0**	**19.0**	**10.0**	**14.0**	**3.0**	**8.0**	**4.0**	**4.0**	**11.0**	**14.0**	**2.0**	**5.0**	
		C.D. (1%)	**26.0**	**5.0**	**26.0**	**15.0**	**5.0**	**17.0**	**12.0**	**25.0**	**14.0**	**18.0**	**4.0**	**11.0**	**6.0**	**6.0**	**15.0**	**19.0**	**2.0**	**7.0**	
		C.V. (%)	**12.0**	**2.9**	**14.0**	**6.5**	**2.7**	**12.0**	**9.3**	**11.8**	**8.6**	**7.7**	**2.4**	**6.0**	**3.1**	**3.1**	**11.6**	**20.3**	**1.2**	**8.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.014**	**0.000**	**0.000**	**0.458**	**0.000**	**0.000**	**0.000**	**0.863**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.72: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	BHP	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	HTR**	MTR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	IHT 301	MH 2934	65	70	63	70	100	100	**78**	71	47	**59**	63	67	43	**53**	88	87	93	**74**	**24**
2	IHT 302	MH 2935	87	47	80	90	98	100	**83**	86	85	**85**	77	50	89	**83**	91	100	78	**85**	**13**
3	IHT 303	MH 2936	82	67	77	90	97	100	**85**	60	85	**72**	77	80	92	**84**	87	100	82	**84**	**15**
4	IHT 304	MH 2937	85	15	67	90	97	100	**76**	56	70	**63**	63	63	33	**48**	94	100	62	**72**	**25**
5	IHT 305	MH 2938	95	87	83	90	99	99	**92**	81	85	**83**	83	47	93	**88**	92	100	83	**90**	**4**
6	IHT 306	KBH 108 (Check)	95	57	77	90	98	99	**86**	79	72	**75**	87	70	58	**73**	91	83	77	**82**	**18**
7	IHT 307	MH 2939	98	77	37	90	93	99	**82**	72	77	**74**	77	60	68	**73**	89	100	73	**81**	**20**
8	IHT 308	MH 2940	90	87	53	90	95	99	**86**	80	75	**78**	87	40	90	**88**	93	97	93	**87**	**9**
9	IHT 309	MH 2941	80	83	80	90	93	99	**88**	71	82	**77**	83	70	-	**83**	87	100	85	**86**	**11**
10	IHT 310	MH 2942	77	98	80	87	95	100	**89**	72	77	**74**	77	30	77	**77**	89	100	78	**85**	**14**
11	IHT 311	MH 2943	87	78	57	90	97	99	**85**	67	80	**73**	70	83	83	**77**	87	63	63	**79**	**21**
12	IHT 312	MP 7878 (Check)	87	67	80	90	97	99	**87**	83	88	**86**	83	52	92	**88**	89	100	83	**87**	**8**
13	IHT 313	MH 2944	80	78	70	90	93	99	**85**	67	63	**65**	70	8	10	**40**	88	100	87	**77**	**23**
14	IHT 314	MH 2945	82	82	37	90	95	99	**81**	80	78	**79**	87	90	73	**80**	86	100	85	**83**	**16**
15	IHT 315	MH 2946	83	5	-	60	98	99	**69**	48	53	**51**	60	60	26	**43**	93	87	92	**67**	**27**
16	IHT 316	MH 2947	88	85	85	90	98	100	**91**	81	83	**82**	83	73	93	**88**	87	97	70	**88**	**6**
17	IHT 317	MH 2948	90	100	87	90	100	100	**94**	81	85	**83**	90	80	90	**90**	91	97	83	**91**	**3**
18	IHT 318	86M84 (Check)	85	73	87	90	92	98	**87**	73	83	**78**	83	38	85	**84**	93	100	82	**86**	**10**
19	IHT 319	MH 2949	98	78	80	90	68	99	**86**	79	80	**80**	83	75	27	**55**	89	100	88	**82**	**19**
20	IHT 320	MH 2950	85	93	87	90	97	98	**92**	75	83	**79**	90	70	82	**86**	89	100	83	**89**	**5**
21	IHT 321	MH 2951	87	98	83	90	100	98	**93**	90	93	**92**	87	75	90	**88**	91	100	77	**91**	**2**
22	IHT 322	MH 2952	80	100	70	90	92	99	**88**	83	85	**84**	87	53	87	**87**	88	100	78	**88**	**7**
23	IHT 323	MH 2953	82	100	90	90	98	98	**93**	87	88	**88**	90	77	88	**89**	93	100	93	**92**	**1**
24	IHT 324	AHB 1200 (Check)	77	5	73	90	97	100	**74**	39	77	**58**	57	72	62	**59**	91	73	87	**71**	**26**
25	IHT 325	MH 2954	73	67	77	90	98	99	**84**	77	88	**83**	73	83	83	**78**	93	97	95	**85**	**12**
26	IHT 326	MH 2955	80	-	47	60	97	99	**76**	-	85	**85**	77	70	28	**53**	92	100	92	**78**	**22**
27	IHT 327	MH 2956	85	57	55	90	98	99	**81**	63	90	**77**	83	48	77	**80**	91	100	82	**82**	**17**
		LOC. MEAN	**85**	**71**	**72**	**87**	**96**	**99**	**85**	**73**	**79**	**76**	**79**	**62**	**70**	**74**	**90**	**96**	**82**	**83**	
		C.D. (5%)	**5.0**	**4.0**	**25.0**	**2.0**	**17.0**	**2.0**	**14.0**	**14.0**	**20.0**	**17.0**	**15.0**	**42.0**	**21.0**	**32.0**	**5.0**	**7.0**	**5.0**	**9.0**	
		C.D. (1%)	**6.0**	**6.0**	**34.0**	**2.0**	**23.0**	**2.0**	**18.0**	**19.0**	**26.0**	**23.0**	**19.0**	**56.0**	**28.0**	**43.0**	**6.0**	**9.0**	**6.0**	**11.0**	
		C.V. (%)	**3.5**	**3.6**	**21.5**	**1.3**	**11.1**	**1.1**	**14.2**	**11.8**	**15.2**	**11.1**	**11.3**	**40.8**	**18.3**	**20.7**	**3.2**	**4.5**	**3.3**	**13.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.287**	**0.000**	**0.000**	**0.007**	**0.000**	**0.000**	**0.000**	**0.029**	**0.000**	**0.000**	**0.000**	**0.000**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e. > 30%):HTR 40.8%**

Table I.73: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 GRAIN QUALITY: IRON CONTENT (ppm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	JMR	DEG1	ALR	HTR	MTR	HSR	LDA	ZONE MEAN	RANK
1	IHT 302	MH 2935	35	40	44	50	56	67	43	43	61	60	60	48	**50**	**2**
2	IHT 306	KBH 108 (Check)	29	29	27	59	47	45	29	28	43	42	57	37	**39**	**9**
3	IHT 312	MP 7878 (Check)	33	37	44	48	59	61	48	48	54	54	51	29	**47**	**3**
4	IHT 316	MH 2947	25	35	36	56	50	47	37	37	49	38	53	43	**42**	**7**
5	IHT 317	MH 2948	29	28	33	41	44	45	39	32	44	45	48	31	**38**	**10**
6	IHT 318	86M84 (Check)	38	34	39	45	52	56	38	41	52	55	51	41	**45**	**4**
7	IHT 321	MH 2951	36	30	27	50	50	38	40	34	47	41	65	36	**41**	**8**
8	IHT 322	MH 2952	39	39	37	45	46	52	39	44	51	46	53	39	**44**	**5**
9	IHT 323	MH 2953	30	33	34	56	42	54	40	33	50	43	67	32	**43**	**6**
10	IHT 324	AHB 1200 (Check)	48	40	51	47	66	62	53	53	58	67	82	30	**55**	**1**
11	IHT 325	MH 2954	35	35	40	49	46	48	37	33	43	48	55	24	**41**	**8**
12	IHT 326	MH 2955	31	30	30	48	37	42	33	31	45	35	44	24	**36**	**11**
13	IHT 327	MH 2956	30	36	32	42	47	41	34	32	53	46	44	26	**39**	**9**

Table I.74: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 GRAIN QUALITY: ZINC CONTENT (ppm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	AMR	ALW	DAS	JMR	DEG1	ALR	HTR	MTR	HSR	LDA	ZONE MEAN	RANK
1	IHT 302	MH 2935	31	39	28	37	29	52	31	34	47	21	38	55	**37**	**3**
2	IHT 306	KBH 108 (Check)	26	30	18	45	32	38	24	21	41	16	38	37	**31**	**6**
3	IHT 312	MP 7878 (Check)	34	38	43	38	40	54	36	34	48	23	40	48	**40**	**1**
4	IHT 316	MH 2947	31	40	32	41	40	43	32	24	39	18	39	52	**36**	**4**
5	IHT 317	MH 2948	30	36	22	42	34	41	31	26	43	19	35	46	**34**	**5**
6	IHT 318	86M84 (Check)	38	37	28	42	34	47	34	29	44	21	40	53	**37**	**3**
7	IHT 321	MH 2951	33	37	24	40	31	41	30	25	41	21	41	48	**34**	**5**
8	IHT 322	MH 2952	37	42	33	40	32	47	32	30	49	24	39	45	**37**	**3**
9	IHT 323	MH 2953	25	34	27	46	32	43	33	22	39	19	44	44	**34**	**5**
10	IHT 324	AHB 1200 (Check)	41	39	40	41	35	49	31	32	42	15	45	44	**38**	**2**
11	IHT 325	MH 2954	27	30	28	42	30	34	26	22	32	19	38	34	**30**	**7**
12	IHT 326	MH 2955	30	35	21	37	27	35	27	27	38	21	35	32	**30**	**7**
13	IHT 327	MH 2956	30	34	29	35	29	34	26	21	37	19	35	34	**30**	**7**

Table I.75: INITIAL HYBRID TRIAL (Late) KHARIF 2025 EXPERIMENTAL DETAILS ZONE B

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers (kg/ha.)			Insecticide
							N	P	K	
MAHARASHTRA										
Aurangabad (NARP)	MB	7.5	13.7.25	28.10.25	Nil	Nil	60	30	30	Nil
Aurangabad (Ajeet Seed)	M	-	26.7.25	27.10.25	27.8.25	Nil	60	30	30	Nil
Aurangabad (Seed works)	BC	-	01.7.25	08.10.25	24.7.25	01.7,12.7.25	80	40	40	Chloropyriphos
Dhule (MPKV)	MB	8.6	01.7.25	11.10.25	24.7.25	Nil	60	30	0	Nil
Jalna (Mahyco)	BC	7.0		17.7.25	20.10.25	Ni	80	40	40	Coragen
Pachora (Nirmal Seed)	MB	7.6	02.7.25	04.11.25	31.7.25	02.7.25	100	50	50	Nil
Gangapur (Ganga Kaveri)	BS	6.5	07.8.25	10.12.25	13.8.25	Nil	40	20	20	Coragen
KARNATAKA										
Vijayapur (UAS, Dharwad)	SB	8.7	09.7.25	04.11.25	19.8.25	Nil	50	25	0	Nil
ANDHRA PRADESH										
Ananthapuram (ANGRAU)	A	6.7	21.7.25	26.10.25	09.8.25	Nil	60	30	20	Nil
TAMIL NADU										
Coimbatore (TNAU)	CL	7.8	02.7.25	10.10.25	-	02.7,05.7,06.8,20.8.25	80	40	40	Nil

SB = Shallow Black, MB = Medium Black, CL = Clay Loam, A = Alfisols, BC = Black Cotton, BS=Black Soil, M = Medium.

Table I.76: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG**	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	3246	2478	3209	2354	4928	2138	1942	**3059**	1779	2022	3733	**2876**	18
2	IHT 302	MH 2935	4497	3110	5102	3705	7081	3003	1767	**4416**	2244	2365	3767	**3875**	3
3	IHT 303	MH 2936	3584	1877	2379	2327	3403	1441	1108	**2502**	1438	1006	5317	**2530**	22
4	IHT 304	MH 2937	1919	1830	2642	2486	3203	1366	789	**2241**	2007	1575	4833	**2429**	24
5	IHT 305	MH 2938	4896	3126	4246	2923	4478	2523	1653	**3699**	2682	2063	5217	**3573**	8
6	IHT 306	Kaveri S Boss (Check)	1874	1744	3912	2522	4269	2222	1306	**2757**	2501	1970	4128	**2794**	21
7	IHT 307	MH 2939	2867	2444	4353	2995	6953	2631	2371	**3707**	2098	1603	4711	**3406**	11
8	IHT 308	MH 2940	2302	1683	2231	2341	2994	1667	1147	**2203**	2093	1451	3778	**2282**	26
9	IHT 309	MH 2941	5256	1972	2880	2268	4369	1739	714	**3081**	2013	1657	3522	**2853**	20
10	IHT 310	MH 2942	5248	2430	4112	2713	4578	2342	2189	**3571**	2188	2120	4911	**3405**	12
11	IHT 311	MH 2943	2883	1953	1979	2169	2453	1261	878	**2116**	1539	1692	3089	**2113**	27
12	IHT 312	NBH 4903 (Check)	3642	3064	4578	3816	3656	3604	3317	**3727**	3715	1883	5389	**3705**	5
13	IHT 313	MH 2944	4845	2347	2975	2528	4714	2102	2725	**3252**	2201	1626	3911	**3028**	16
14	IHT 314	MH 2945	3428	2443	3826	2303	5058	1994	1311	**3175**	2359	1974	3372	**2973**	17
15	IHT 315	MH 2946	4179	2421	3826	2930	5378	2523	2489	**3543**	2671	3150	2833	**3323**	14
16	IHT 316	MH 2947	4258	2553	3735	3193	4067	3321	1358	**3521**	3552	2302	5233	**3579**	7
17	IHT 317	MH 2948	2922	2624	4281	3745	5114	2823	2306	**3585**	1646	2007	5000	**3351**	13
18	IHT 318	86M86 (Check)	2083	2277	3966	2299	3533	2162	1600	**2720**	2294	2532	4650	**2866**	19
19	IHT 319	MH 2949	1398	2346	3224	2270	3986	1778	2878	**2500**	2000	1638	3578	**2469**	23
20	IHT 320	MH 2950	2452	2937	3143	2637	5256	2601	2253	**3171**	2003	1993	4528	**3061**	15
21	IHT 321	MH 2951	5019	2999	5202	3313	4692	2318	2272	**3924**	2468	2201	5250	**3718**	4
22	IHT 322	MH 2952	4419	2467	4207	4233	5431	5219	2721	**4329**	2241	2784	4728	**3970**	2
23	IHT 323	MH 2953	4078	2769	4056	3105	3908	2826	1697	**3457**	2547	3012	5100	**3489**	10
24	IHT 324	AHB 1200 (Check)	3314	2018	2283	2263	2442	1342	1056	**2277**	1631	1379	4617	**2365**	25
25	IHT 325	MH 2954	5170	2696	5277	3668	6247	3063	3292	**4353**	3134	2268	4983	**4056**	1
26	IHT 326	MH 2955	4818	2175	4499	3075	4811	2336	1908	**3619**	2552	3068	4950	**3587**	6
27	IHT 327	MH 2956	4033	2292	4066	3081	4775	3096	1711	**3557**	2477	3368	4783	**3552**	9
		LOC. MEAN	**3653**	**2410**	**3711**	**2862**	**4510**	**2424**	**1880**	**3262**	**2299**	**2100**	**4441**	**3157**	
		C.D. (5%)	**321**	**481**	**599**	**699**	**977**	**723**	**1366**	**739**	**366**	**555**	**671**	**589**	
		C.D. (1%)	**428**	**641**	**798**	**932**	**1302**	**964**	**1819**	**977**	**488**	**739**	**894**	**777**	
		C.V. (%)	**5.4**	**12.2**	**9.9**	**14.9**	**13.2**	**18.2**	**44.3**	**19.8**	**9.7**	**16.1**	**9.2**	**20.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**6.00**	**6.00**	**5.55**	**6.00**	**5.55**	**6.00**	**-**	**6.00**	**6.00**	**6.00**	**-**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e. > 30%): GNG 44.3 %**

Table I.77: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	9167	6484	6709	4264	15978	4655	**7876**	3556	4489	4778	**6675**	18
2	IHT 302	MH 2935	8389	7405	10141	4685	15931	6577	**8854**	3722	4750	5683	**7476**	12
3	IHT 303	MH 2936	9278	5551	8303	4324	13264	6997	**7953**	3389	4889	6139	**6904**	14
4	IHT 304	MH 2937	8556	4473	8861	4024	13275	4955	**7357**	4056	5672	7122	**6777**	16
5	IHT 305	MH 2938	9833	6190	9056	4805	16292	5856	**8672**	4111	4761	6439	**7482**	11
6	IHT 306	Kaveri S Boss (Check)	9222	4733	7668	5586	11169	5405	**7297**	3333	4567	5522	**6356**	23
7	IHT 307	MH 2939	9833	5711	10884	5646	17347	8198	**9603**	3833	5161	8172	**8310**	6
8	IHT 308	MH 2940	8889	4437	7154	6486	10842	5766	**7262**	3444	4967	7372	**6595**	19
9	IHT 309	MH 2941	8667	4537	6731	5165	11167	4084	**6725**	3333	6211	6411	**6256**	24
10	IHT 310	MH 2942	9167	3403	8736	5526	14456	5946	**7872**	3056	6056	6600	**6994**	13
11	IHT 311	MH 2943	9889	4131	3589	4444	8264	2222	**5423**	3111	6028	4506	**5132**	27
12	IHT 312	NBH 4903 (Check)	9167	4463	13440	8168	21744	8318	**10883**	3833	5694	9456	**9365**	2
13	IHT 313	MH 2944	8556	4371	5732	5345	14242	3514	**6960**	3222	4322	4506	**5979**	25
14	IHT 314	MH 2945	9611	4620	7807	4264	12436	5135	**7312**	3556	5517	4844	**6421**	21
15	IHT 315	MH 2946	9167	4624	6631	6126	11908	5075	**7255**	3722	6078	4811	**6460**	20
16	IHT 316	MH 2947	8500	4584	10918	6366	17989	8979	**9556**	3778	5128	6067	**8034**	8
17	IHT 317	MH 2948	8778	6799	11411	6366	19194	10120	**10445**	3111	6528	6911	**8802**	3
18	IHT 318	86M86 (Check)	9167	4316	8027	4084	15128	4625	**7558**	3611	6883	4833	**6742**	17
19	IHT 319	MH 2949	8944	4589	7176	4565	14039	4294	**7268**	3444	5489	4883	**6380**	22
20	IHT 320	MH 2950	9333	6773	7587	4985	12653	5345	**7779**	3611	5561	5578	**6825**	15
21	IHT 321	MH 2951	8500	6569	15816	8048	19969	9159	**11344**	3833	5378	7600	**9430**	1
22	IHT 322	MH 2952	10056	5062	10032	8889	16594	7658	**9715**	3444	6478	7067	**8364**	5
23	IHT 323	MH 2953	8944	5609	9821	7568	15017	6727	**8947**	3278	5767	6911	**7738**	9
24	IHT 324	AHB 1200 (Check)	8056	4348	4941	6006	10147	3634	**6189**	3167	3983	5106	**5487**	26
25	IHT 325	MH 2954	8722	6969	11312	6366	18189	6577	**9689**	4444	5856	5989	**8269**	7
26	IHT 326	MH 2955	8611	4634	9151	4985	14925	6306	**8102**	4333	6933	7561	**7493**	10
27	IHT 327	MH 2956	9889	7289	10884	6186	16839	6787	**9646**	4222	6972	7850	**8547**	4
		LOC. MEAN	**9070**	**5284**	**8834**	**5677**	**14778**	**6034**	**8279**	**3613**	**5560**	**6249**	**7233**	
		C.D. (5%)	**1962**	**1117**	**1788**	**1599**	**3788**	**2411**	**1705**	**472**	**925**	**969**	**1408**	
		C.D. (1%)	**2614**	**1489**	**2382**	**2131**	**5048**	**3212**	**2253**	**628**	**1233**	**1291**	**1858**	
		C.V. (%)	**13.2**	**12.9**	**12.4**	**17.2**	**15.7**	**24.4**	**18.0**	**8.0**	**10.2**	**9.5**	**19.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**6.00**	**6.00**	**6.00**	**5.55**	**6.00**	**5.55**	**-**	**6.00**	**6.00**	**6.00**	**-**	

Table I.78: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	54	54	52	54	58	54	58	**55**	50	44	49	**53**	**22**
2	IHT 302	MH 2935	54	56	54	56	58	54	60	**56**	51	48	53	**54**	**16**
3	IHT 303	MH 2936	58	55	57	60	60	56	61	**58**	51	45	49	**55**	**13**
4	IHT 304	MH 2937	55	53	55	59	60	56	58	**57**	51	44	49	**54**	**18**
5	IHT 305	MH 2938	60	57	57	60	62	57	62	**59**	52	51	50	**57**	**4**
6	IHT 306	Kaveri S Boss (Check)	53	59	53	56	61	54	61	**57**	50	44	48	**54**	**19**
7	IHT 307	MH 2939	56	59	53	58	61	58	60	**58**	51	45	51	**55**	**14**
8	IHT 308	MH 2940	60	59	57	60	60	55	59	**59**	52	46	52	**56**	**10**
9	IHT 309	MH 2941	59	61	58	60	61	57	60	**59**	52	45	49	**56**	**9**
10	IHT 310	MH 2942	59	56	56	59	62	54	60	**58**	52	45	53	**56**	**12**
11	IHT 311	MH 2943	54	59	49	50	58	52	61	**55**	49	37	46	**51**	**24**
12	IHT 312	NBH 4903 (Check)	63	59	61	60	63	57	64	**61**	50	51	57	**59**	**1**
13	IHT 313	MH 2944	58	57	53	54	58	55	58	**56**	50	41	48	**53**	**20**
14	IHT 314	MH 2945	57	57	54	56	58	57	62	**57**	51	48	48	**55**	**15**
15	IHT 315	MH 2946	56	55	53	53	58	55	58	**55**	49	44	49	**53**	**21**
16	IHT 316	MH 2947	59	57	58	58	61	57	61	**59**	52	48	52	**56**	**7**
17	IHT 317	MH 2948	58	57	60	61	62	56	59	**59**	52	48	57	**57**	**3**
18	IHT 318	86M86 (Check)	58	59	56	60	61	55	63	**59**	52	45	50	**56**	**11**
19	IHT 319	MH 2949	52	56	48	55	58	55	58	**54**	49	43	49	**52**	**23**
20	IHT 320	MH 2950	56	53	54	58	59	56	60	**57**	51	45	49	**54**	**17**
21	IHT 321	MH 2951	62	58	59	60	62	54	60	**59**	51	47	52	**57**	**5**
22	IHT 322	MH 2952	59	57	57	59	62	57	59	**59**	52	49	51	**56**	**8**
23	IHT 323	MH 2953	59	58	57	58	61	58	59	**59**	52	48	53	**56**	**7**
24	IHT 324	AHB 1200 (Check)	52	52	49	53	58	53	59	**54**	49	36	47	**51**	**25**
25	IHT 325	MH 2954	59	59	56	58	62	56	61	**59**	52	49	52	**56**	**6**
26	IHT 326	MH 2955	59	60	59	62	63	56	60	**60**	52	52	55	**58**	**2**
27	IHT 327	MH 2956	63	59	60	61	62	56	63	**61**	53	50	52	**58**	**2**
		LOC. MEAN	**57**	**57**	**55**	**58**	**60**	**56**	**60**	**58**	**51**	**46**	**51**	**55**	
		C.D. (5%)	**2.0**	**2.0**	**1.0**	**3.0**	**2.0**	**3.0**	**3.0**	**2.0**	**1.0**	**3.0**	**1.0**	**2.0**	
		C.D. (1%)	**3.0**	**2.0**	**1.0**	**4.0**	**3.0**	**4.0**	**5.0**	**2.0**	**1.0**	**4.0**	**2.0**	**2.0**	
		C.V. (%)	**2.1**	**2.0**	**1.2**	**3.1**	**2.0**	**3.0**	**3.5**	**2.9**	**0.8**	**3.9**	**1.4**	**3.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.79: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO MATURITY ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	91	89	79	89	83	81	82	**85**	88	82	84	**85**	**23**
2	IHT 302	MH 2935	92	92	80	91	83	73	84	**85**	89	84	93	**86**	**21**
3	IHT 303	MH 2936	95	94	84	95	85	79	85	**88**	89	81	84	**87**	**15**
4	IHT 304	MH 2937	91	90	82	94	85	82	85	**87**	89	81	84	**86**	**20**
5	IHT 305	MH 2938	99	93	84	95	87	79	85	**89**	90	88	90	**89**	**5**
6	IHT 306	Kaveri S Boss (Check)	92	95	80	91	86	82	85	**87**	88	81	84	**86**	**19**
7	IHT 307	MH 2939	92	94	80	93	86	81	84	**87**	89	80	90	**87**	**16**
8	IHT 308	MH 2940	99	95	85	95	85	77	84	**89**	90	82	91	**88**	**8**
9	IHT 309	MH 2941	96	97	85	95	86	77	84	**89**	90	82	86	**88**	**13**
10	IHT 310	MH 2942	94	92	84	94	87	80	84	**88**	90	82	91	**88**	**14**
11	IHT 311	MH 2943	91	95	76	85	83	83	85	**85**	87	73	82	**84**	**25**
12	IHT 312	NBH 4903 (Check)	102	95	89	95	88	81	87	**91**	88	91	93	**91**	**1**
13	IHT 313	MH 2944	95	93	80	89	83	84	82	**86**	88	75	82	**85**	**22**
14	IHT 314	MH 2945	95	93	82	91	83	81	86	**87**	89	85	82	**87**	**18**
15	IHT 315	MH 2946	94	90	80	88	83	79	81	**85**	87	80	83	**84**	**24**
16	IHT 316	MH 2947	97	94	86	93	86	81	85	**89**	90	86	84	**88**	**10**
17	IHT 317	MH 2948	96	95	87	96	87	80	83	**89**	90	88	90	**89**	**4**
18	IHT 318	86M86 (Check)	97	95	83	95	86	84	86	**89**	90	81	84	**88**	**11**
19	IHT 319	MH 2949	89	82	75	90	83	80	82	**83**	87	78	83	**83**	**26**
20	IHT 320	MH 2950	96	92	80	93	84	81	85	**87**	89	83	84	**87**	**17**
21	IHT 321	MH 2951	99	95	87	95	87	83	84	**90**	89	84	84	**89**	**7**
22	IHT 322	MH 2952	97	94	85	94	87	84	84	**89**	90	87	84	**89**	**6**
23	IHT 323	MH 2953	96	95	85	93	86	81	83	**88**	90	84	85	**88**	**12**
24	IHT 324	AHB 1200 (Check)	89	90	76	88	83	79	83	**84**	87	73	81	**83**	**27**
25	IHT 325	MH 2954	95	95	83	93	87	84	85	**89**	90	86	85	**88**	**9**
26	IHT 326	MH 2955	99	97	87	97	88	85	85	**91**	91	91	87	**91**	**2**
27	IHT 327	MH 2956	102	95	88	96	87	80	86	**90**	90	89	85	**90**	**3**
		LOC. MEAN	**95**	**93**	**83**	**93**	**85**	**81**	**84**	**88**	**89**	**83**	**86**	**87**	
		C.D. (5%)	**2.0**	**2.0**	**2.0**	**3.0**	**2.0**	**2.0**	**3.0**	**2.0**	**1.0**	**3.0**	**1.0**	**2.0**	
		C.D. (1%)	**3.0**	**2.0**	**2.0**	**4.0**	**3.0**	**3.0**	**4.0**	**3.0**	**1.0**	**4.0**	**2.0**	**3.0**	
		C.V. (%)	**1.2**	**1.1**	**1.3**	**2.0**	**1.4**	**1.8**	**2.1**	**2.3**	**0.7**	**2.2**	**1.0**	**2.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.80: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PLANT HEIGHT (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	180	192	213	223	191	198	190	**198**	162	117	167	**183**	**24**
2	IHT 302	MH 2935	190	207	263	249	218	217	185	**218**	176	124	194	**202**	**15**
3	IHT 303	MH 2936	205	220	253	266	233	244	200	**232**	170	144	192	**213**	**7**
4	IHT 304	MH 2937	190	229	237	256	215	217	205	**221**	175	143	183	**205**	**11**
5	IHT 305	MH 2938	205	202	270	266	245	229	210	**232**	188	140	203	**216**	**6**
6	IHT 306	Kaveri S Boss (Check)	165	165	223	245	191	193	192	**196**	171	131	183	**186**	**21**
7	IHT 307	MH 2939	190	203	237	267	208	216	217	**219**	172	132	194	**203**	**13**
8	IHT 308	MH 2940	165	151	240	258	200	202	210	**204**	195	126	206	**195**	**18**
9	IHT 309	MH 2941	233	187	260	264	197	209	195	**221**	166	130	186	**203**	**14**
10	IHT 310	MH 2942	197	155	247	243	217	221	213	**213**	180	124	185	**198**	**17**
11	IHT 311	MH 2943	157	153	200	210	161	172	195	**178**	134	113	156	**165**	**27**
12	IHT 312	NBH 4903 (Check)	217	235	283	272	241	241	243	**247**	194	138	214	**228**	**2**
13	IHT 313	MH 2944	192	197	223	224	198	180	202	**202**	172	130	156	**187**	**20**
14	IHT 314	MH 2945	180	172	247	253	199	202	192	**206**	184	128	164	**192**	**19**
15	IHT 315	MH 2946	155	164	220	227	183	254	205	**201**	158	123	159	**185**	**22**
16	IHT 316	MH 2947	197	193	243	265	214	336	192	**234**	199	132	195	**217**	**5**
17	IHT 317	MH 2948	248	252	287	292	242	234	242	**257**	193	127	206	**232**	**1**
18	IHT 318	86M86 (Check)	210	182	243	258	208	208	203	**216**	166	126	181	**199**	**16**
19	IHT 319	MH 2949	155	165	220	239	189	169	171	**187**	160	117	161	**175**	**25**
20	IHT 320	MH 2950	165	167	220	237	204	192	197	**197**	192	108	154	**184**	**23**
21	IHT 321	MH 2951	217	250	290	289	240	232	230	**250**	169	131	200	**225**	**3**
22	IHT 322	MH 2952	215	240	270	265	215	232	235	**239**	173	146	186	**218**	**4**
23	IHT 323	MH 2953	195	223	253	264	215	219	218	**227**	178	116	189	**207**	**9**
24	IHT 324	AHB 1200 (Check)	165	185	190	212	164	171	195	**183**	162	104	158	**171**	**26**
25	IHT 325	MH 2954	190	221	253	251	211	211	235	**225**	164	126	172	**203**	**12**
26	IHT 326	MH 2955	190	190	263	277	207	205	222	**222**	186	134	189	**206**	**10**
27	IHT 327	MH 2956	205	225	267	270	216	212	208	**229**	192	138	188	**212**	**8**
		LOC. MEAN	**192**	**197**	**245**	**253**	**208**	**215**	**207**	**217**	**175**	**128**	**182**	**200**	
		C.D. (5%)	**10.0**	**6.0**	**13.0**	**18.0**	**17.0**	**77.0**	**35.0**	**17.0**	**10.0**	**12.0**	**10.0**	**14.0**	
		C.D. (1%)	**13.0**	**8.0**	**18.0**	**24.0**	**22.0**	**103.0**	**47.0**	**23.0**	**13.0**	**16.0**	**13.0**	**18.0**	
		C.V. (%)	**3.1**	**1.9**	**3.3**	**4.4**	**4.9**	**21.8**	**10.4**	**7.5**	**3.4**	**5.9**	**3.2**	**7.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.81: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE B

S.No.	TEST CODE	ENTRY	ABD1**	ABD3	ABD7	DHL	JLN1**	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	2.3	1.6	1.3	1.5	2.7	2.3	1.6	**1.7**	2.8	1.3	2.7	**1.9**	**17**
2	IHT 302	MH 2935	1.3	1.8	1.7	1.8	2.3	2.9	2.0	**2.0**	2.7	1.5	2.3	**2.1**	**4**
3	IHT 303	MH 2936	1.3	1.4	2.1	2.3	2.7	2.7	1.9	**2.1**	2.5	2.7	2.3	**2.2**	**2**
4	IHT 304	MH 2937	1.3	2.4	2.7	2.1	2.3	2.0	1.4	**2.1**	2.7	3.0	2.3	**2.3**	**1**
5	IHT 305	MH 2938	2.3	1.6	1.8	1.7	2.3	2.8	1.7	**1.9**	2.9	1.4	2.2	**2.0**	**6**
6	IHT 306	Kaveri S Boss (Check)	1.3	1.0	1.9	2.1	1.3	1.9	1.9	**1.8**	2.7	1.8	2.5	**2.0**	**8**
7	IHT 307	MH 2939	1.0	2.3	1.9	1.7	2.3	2.6	1.5	**2.0**	2.7	1.9	2.1	**2.1**	**3**
8	IHT 308	MH 2940	2.0	1.3	2.1	2.2	3.0	2.7	1.5	**1.9**	2.7	1.5	2.1	**2.0**	**7**
9	IHT 309	MH 2941	1.7	1.4	1.7	1.5	2.7	1.7	1.5	**1.6**	2.9	2.0	2.3	**1.9**	**19**
10	IHT 310	MH 2942	2.0	1.3	1.6	2.0	2.3	2.4	1.7	**1.8**	2.6	1.5	2.4	**1.9**	**13**
11	IHT 311	MH 2943	1.3	1.7	1.7	1.8	2.0	1.7	1.7	**1.7**	2.9	1.5	2.5	**1.9**	**15**
12	IHT 312	NBH 4903 (Check)	2.0	1.2	1.4	2.5	1.7	2.0	1.5	**1.7**	2.6	1.5	2.3	**1.9**	**18**
13	IHT 313	MH 2944	1.3	1.3	1.9	1.8	1.7	2.3	1.9	**1.9**	2.5	1.2	2.0	**1.9**	**20**
14	IHT 314	MH 2945	2.3	1.3	1.9	1.9	1.7	2.2	1.5	**1.8**	2.8	1.7	2.1	**1.9**	**12**
15	IHT 315	MH 2946	1.7	1.3	1.3	1.7	1.7	2.3	1.5	**1.6**	2.9	1.7	2.4	**1.9**	**16**
16	IHT 316	MH 2947	1.0	1.1	1.7	1.7	2.0	2.4	2.0	**1.8**	2.5	1.3	2.0	**1.8**	**22**
17	IHT 317	MH 2948	1.7	1.2	1.5	2.1	1.7	2.2	1.4	**1.7**	2.6	1.6	2.3	**1.9**	**21**
18	IHT 318	86M86 (Check)	1.0	1.7	1.3	1.7	1.3	2.1	1.4	**1.6**	2.7	1.7	2.1	**1.8**	**24**
19	IHT 319	MH 2949	1.7	1.7	2.0	1.8	2.3	1.9	1.9	**1.8**	2.5	1.5	2.3	**1.9**	**14**
20	IHT 320	MH 2950	1.7	1.4	1.5	1.7	1.0	2.7	1.3	**1.7**	2.5	1.3	2.1	**1.8**	**23**
21	IHT 321	MH 2951	2.3	1.7	1.2	1.6	1.3	1.8	1.6	**1.6**	2.6	1.7	2.2	**1.8**	**25**
22	IHT 322	MH 2952	2.0	1.1	1.3	2.7	2.0	2.0	1.8	**1.8**	2.8	1.8	2.1	**1.9**	**11**
23	IHT 323	MH 2953	1.3	1.3	1.1	1.4	2.0	2.3	1.5	**1.5**	3.0	1.5	2.3	**1.8**	**26**
24	IHT 324	AHB 1200 (Check)	1.3	1.3	1.7	1.9	1.0	3.1	1.5	**1.9**	2.6	1.5	2.0	**1.9**	**10**
25	IHT 325	MH 2954	1.3	2.3	1.6	2.0	2.0	2.8	1.4	**2.0**	2.5	1.6	2.5	**2.1**	**4**
26	IHT 326	MH 2955	2.0	1.7	2.3	1.5	1.0	2.5	1.7	**1.9**	2.8	1.5	2.4	**2.1**	**5**
27	IHT 327	MH 2956	1.3	1.7	1.4	1.4	2.0	3.0	1.6	**1.8**	2.7	1.9	2.0	**2.0**	**9**
		LOC. MEAN	**1.6**	**1.5**	**1.7**	**1.9**	**1.9**	**2.3**	**1.6**	**1.8**	**2.7**	**1.7**	**2.3**	**2.0**	
		C.D. (5%)	**0.8**	**0.6**	**0.3**	**0.3**	**1.0**	**0.9**	**0.5**	**0.4**	**0.4**	**0.5**	**0.4**	**0.3**	
		C.D. (1%)	**1.1**	**0.8**	**0.4**	**0.4**	**1.3**	**1.1**	**0.6**	**0.5**	**0.5**	**0.7**	**0.6**	**0.4**	
		C.V. (%)	**30.2**	**24.4**	**12.0**	**10.0**	**31.2**	**22.3**	**18.3**	**18.2**	**8.2**	**18.4**	**11.9**	**15.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.222**	**0.000**	**0.000**	**0.000**	**0.091**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e. > 30%): ABD1 30.2 %, JLN1 31.2 %**

Table I.82: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PANICLE LENGTH (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	24	24	30	29	22	26	27	**26**	25	21	27	**25**	**3**
2	IHT 302	MH 2935	21	24	25	26	22	27	23	**24**	21	15	24	**23**	**22**
3	IHT 303	MH 2936	22	23	27	27	23	27	24	**25**	22	20	24	**24**	**17**
4	IHT 304	MH 2937	24	24	25	28	27	29	24	**26**	23	17	23	**24**	**11**
5	IHT 305	MH 2938	25	24	26	27	25	28	26	**26**	26	20	26	**25**	**6**
6	IHT 306	Kaveri S Boss (Check)	24	26	23	27	22	27	24	**25**	21	19	23	**24**	**21**
7	IHT 307	MH 2939	24	20	27	28	21	29	25	**25**	22	20	26	**24**	**14**
8	IHT 308	MH 2940	23	25	25	28	25	28	23	**25**	24	21	26	**25**	**10**
9	IHT 309	MH 2941	24	22	32	31	23	30	25	**27**	25	21	28	**26**	**2**
10	IHT 310	MH 2942	26	25	31	30	29	30	27	**28**	30	23	28	**28**	**1**
11	IHT 311	MH 2943	22	24	21	25	21	26	25	**24**	17	19	22	**22**	**24**
12	IHT 312	NBH 4903 (Check)	24	25	25	27	24	28	27	**26**	23	21	27	**25**	**8**
13	IHT 313	MH 2944	21	26	23	26	24	27	24	**25**	22	19	23	**24**	**21**
14	IHT 314	MH 2945	24	23	28	28	23	27	23	**25**	23	18	24	**24**	**15**
15	IHT 315	MH 2946	25	24	26	28	22	28	24	**25**	24	18	24	**24**	**12**
16	IHT 316	MH 2947	24	26	26	26	25	27	23	**25**	23	19	23	**24**	**13**
17	IHT 317	MH 2948	24	23	25	27	23	26	24	**25**	21	18	24	**24**	**20**
18	IHT 318	86M86 (Check)	21	24	27	27	24	27	24	**25**	21	19	23	**24**	**19**
19	IHT 319	MH 2949	22	22	27	27	23	27	23	**24**	24	20	22	**24**	**18**
20	IHT 320	MH 2950	22	23	23	26	20	25	24	**23**	23	16	20	**22**	**24**
21	IHT 321	MH 2951	25	26	27	28	28	27	27	**27**	21	20	24	**25**	**7**
22	IHT 322	MH 2952	23	25	27	28	25	28	26	**26**	25	22	25	**25**	**5**
23	IHT 323	MH 2953	25	23	25	27	21	26	26	**25**	24	17	23	**24**	**16**
24	IHT 324	AHB 1200 (Check)	23	23	23	26	24	27	25	**24**	19	16	22	**23**	**23**
25	IHT 325	MH 2954	24	25	30	29	26	28	25	**27**	23	19	25	**25**	**4**
26	IHT 326	MH 2955	23	21	22	24	21	26	23	**23**	21	18	21	**22**	**25**
27	IHT 327	MH 2956	23	24	27	28	25	27	25	**26**	23	21	25	**25**	**9**
		LOC. MEAN	**23**	**24**	**26**	**27**	**24**	**27**	**25**	**25**	**23**	**19**	**24**	**24**	
		C.D. (5%)	**1.0**	**2.0**	**2.0**	**2.0**	**3.0**	**4.0**	**3.0**	**1.0**	**2.0**	**2.0**	**2.0**	**1.0**	
		C.D. (1%)	**2.0**	**2.0**	**3.0**	**2.0**	**4.0**	**5.0**	**4.0**	**2.0**	**3.0**	**3.0**	**3.0**	**2.0**	
		C.V. (%)	**3.4**	**4.2**	**5.2**	**3.6**	**8.4**	**8.0**	**7.4**	**5.5**	**5.1**	**6.2**	**5.4**	**5.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.83: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	3.2	3.7	3.2	3.6	3.5	3.2	1.1	**3.1**	2.2	2.6	3.3	**3.0**	**14**
2	IHT 302	MH 2935	3.0	3.7	3.4	3.5	3.2	3.1	1.0	**3.0**	2.2	2.6	3.2	**2.9**	**22**
3	IHT 303	MH 2936	2.8	2.9	2.7	3.2	2.9	3.0	0.9	**2.6**	2.2	2.2	3.0	**2.6**	**26**
4	IHT 304	MH 2937	2.2	2.6	2.5	3.0	3.2	3.1	1.1	**2.5**	2.2	2.0	2.8	**2.5**	**27**
5	IHT 305	MH 2938	3.1	3.7	3.4	3.7	3.6	3.5	1.2	**3.2**	2.4	2.6	3.6	**3.1**	**5**
6	IHT 306	Kaveri S Boss (Check)	3.0	3.1	3.5	3.7	4.0	3.5	1.1	**3.1**	2.6	2.8	3.4	**3.1**	**7**
7	IHT 307	MH 2939	2.8	3.5	3.0	3.6	3.4	3.5	1.1	**3.0**	2.3	2.5	3.3	**2.9**	**20**
8	IHT 308	MH 2940	2.9	3.2	3.5	3.6	3.7	3.4	1.1	**3.0**	2.3	2.8	3.5	**3.0**	**12**
9	IHT 309	MH 2941	3.1	3.6	3.4	3.8	3.2	3.7	1.1	**3.1**	2.3	2.7	3.5	**3.0**	**8**
10	IHT 310	MH 2942	3.0	3.3	3.0	3.6	3.6	3.3	1.1	**3.0**	2.2	2.7	3.1	**2.9**	**23**
11	IHT 311	MH 2943	3.6	3.7	3.2	3.4	3.1	3.4	1.2	**3.1**	2.2	2.7	3.2	**3.0**	**13**
12	IHT 312	NBH 4903 (Check)	3.4	3.7	3.8	3.6	4.0	3.5	1.2	**3.3**	2.5	2.5	3.6	**3.2**	**1**
13	IHT 313	MH 2944	2.7	3.3	3.2	3.4	3.4	3.3	1.2	**2.9**	2.3	2.9	3.2	**2.9**	**21**
14	IHT 314	MH 2945	3.2	3.2	3.3	3.5	3.3	3.4	1.1	**3.0**	2.4	2.5	3.1	**2.9**	**18**
15	IHT 315	MH 2946	3.2	3.4	3.7	3.7	3.2	3.4	1.1	**3.1**	2.5	2.7	3.3	**3.0**	**10**
16	IHT 316	MH 2947	3.4	3.5	3.7	3.6	4.0	3.4	1.1	**3.3**	2.4	2.7	3.4	**3.1**	**2**
17	IHT 317	MH 2948	3.2	3.4	3.4	3.7	3.1	3.3	1.0	**3.0**	2.2	2.5	3.3	**2.9**	**19**
18	IHT 318	86M86 (Check)	3.1	3.2	3.2	3.7	3.4	3.4	1.1	**3.0**	2.3	2.4	3.2	**2.9**	**17**
19	IHT 319	MH 2949	2.6	3.3	3.1	3.4	3.0	3.2	1.0	**2.8**	2.3	2.4	3.0	**2.7**	**25**
20	IHT 320	MH 2950	3.5	3.8	3.7	3.5	3.7	3.6	1.2	**3.3**	2.3	2.7	3.2	**3.1**	**3**
21	IHT 321	MH 2951	3.3	3.6	3.5	3.6	3.5	3.5	1.2	**3.1**	2.4	2.6	3.3	**3.0**	**9**
22	IHT 322	MH 2952	2.8	3.6	3.4	3.7	3.6	3.4	1.1	**3.1**	2.4	2.8	3.2	**3.0**	**11**
23	IHT 323	MH 2953	3.7	3.5	3.6	3.7	3.6	3.3	1.1	**3.2**	2.3	2.5	3.3	**3.1**	**4**
24	IHT 324	AHB 1200 (Check)	3.4	3.5	3.2	3.4	3.6	3.5	1.1	**3.1**	2.2	2.3	3.2	**3.0**	**15**
25	IHT 325	MH 2954	3.3	4.0	3.5	3.7	3.6	3.5	1.1	**3.2**	2.4	2.5	3.2	**3.1**	**6**
26	IHT 326	MH 2955	2.5	3.2	2.9	3.5	3.2	3.5	1.0	**2.8**	2.2	2.5	3.0	**2.8**	**24**
27	IHT 327	MH 2956	3.3	3.5	3.3	3.5	3.5	3.1	1.1	**3.0**	2.3	2.5	3.2	**2.9**	**16**
		LOC. MEAN	**3.1**	**3.4**	**3.3**	**3.6**	**3.4**	**3.4**	**1.1**	**3.0**	**2.3**	**2.6**	**3.2**	**2.9**	
		C.D. (5%)	**0.1**	**0.3**	**0.3**	**0.2**	**0.4**	**0.4**	**0.1**	**0.2**	**0.2**	**0.3**	**0.2**	**0.2**	
		C.D. (1%)	**0.2**	**0.4**	**0.4**	**0.3**	**0.6**	**0.5**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	
		C.V. (%)	**2.4**	**4.9**	**5.1**	**4.1**	**7.5**	**6.7**	**6.6**	**6.1**	**5.5**	**6.2**	**4.5**	**5.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.84: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 1000-SEED Wt.(g) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	12.3	12.2	9.0	12.8	14.0	9.4	11.4	**11.6**	12.3	8.6	11.2	**11.3**	**15**
2	IHT 302	MH 2935	14.9	12.3	14.3	13.0	12.4	9.8	12.5	**12.8**	12.2	12.8	11.5	**12.6**	**5**
3	IHT 303	MH 2936	13.1	11.6	9.3	12.0	11.8	10.8	11.0	**11.4**	11.7	9.0	10.5	**11.1**	**18**
4	IHT 304	MH 2937	10.7	11.4	11.0	12.8	10.6	10.4	10.9	**11.1**	11.4	11.4	11.7	**11.2**	**16**
5	IHT 305	MH 2938	11.2	7.2	7.3	11.2	9.0	10.2	11.4	**9.6**	12.2	8.4	10.5	**9.9**	**27**
6	IHT 306	Kaveri S Boss (Check)	11.0	11.3	9.7	10.2	9.9	8.6	11.2	**10.3**	12.9	10.4	10.7	**10.6**	**23**
7	IHT 307	MH 2939	8.6	11.1	9.0	9.2	10.8	10.5	12.2	**10.2**	12.3	10.4	9.5	**10.4**	**24**
8	IHT 308	MH 2940	12.6	13.0	11.7	12.0	11.9	11.2	12.2	**12.1**	12.8	11.6	12.2	**12.1**	**7**
9	IHT 309	MH 2941	10.5	12.0	8.7	10.4	11.4	8.9	11.3	**10.4**	13.4	9.9	9.8	**10.6**	**22**
10	IHT 310	MH 2942	10.5	11.6	9.0	10.4	13.1	8.4	12.0	**10.7**	14.1	9.6	9.6	**10.8**	**20**
11	IHT 311	MH 2943	10.3	11.4	10.0	12.1	12.8	9.5	12.2	**11.2**	13.3	9.7	10.4	**11.2**	**17**
12	IHT 312	NBH 4903 (Check)	15.6	14.0	12.0	14.2	14.6	10.0	14.2	**13.5**	13.8	10.4	14.2	**13.3**	**1**
13	IHT 313	MH 2944	10.1	11.7	11.0	10.6	14.3	8.4	12.7	**11.3**	13.6	11.3	11.6	**11.5**	**12**
14	IHT 314	MH 2945	10.3	14.0	10.0	10.4	12.8	9.3	10.3	**11.0**	13.5	11.9	11.2	**11.4**	**14**
15	IHT 315	MH 2946	14.3	12.3	16.0	12.7	15.7	8.1	14.0	**13.3**	13.5	10.3	11.1	**12.8**	**4**
16	IHT 316	MH 2947	14.9	11.3	13.3	13.5	13.1	10.7	12.8	**12.8**	13.8	11.8	13.2	**12.8**	**3**
17	IHT 317	MH 2948	12.6	11.0	10.3	11.7	12.0	10.0	11.9	**11.4**	13.4	10.7	12.1	**11.6**	**11**
18	IHT 318	86M86 (Check)	11.8	11.2	12.3	12.5	14.1	10.3	10.8	**11.9**	13.5	10.6	12.3	**11.9**	**10**
19	IHT 319	MH 2949	9.7	6.9	10.7	10.1	12.4	9.7	11.3	**10.1**	13.6	9.7	9.6	**10.4**	**25**
20	IHT 320	MH 2950	11.2	13.9	10.0	10.1	12.7	9.8	11.7	**11.3**	13.9	10.9	10.1	**11.4**	**13**
21	IHT 321	MH 2951	16.0	14.1	13.0	10.1	13.6	10.1	15.1	**13.1**	14.2	11.3	11.5	**12.9**	**2**
22	IHT 322	MH 2952	13.1	11.3	11.7	15.4	13.1	10.2	8.3	**11.9**	13.7	11.4	12.0	**12.0**	**9**
23	IHT 323	MH 2953	13.4	10.6	9.0	11.1	11.2	10.4	12.4	**11.2**	12.6	8.7	8.9	**10.8**	**21**
24	IHT 324	AHB 1200 (Check)	9.8	13.2	7.7	9.6	12.4	8.6	11.6	**10.4**	14.7	9.6	11.9	**10.9**	**19**
25	IHT 325	MH 2954	13.7	12.3	12.7	15.3	11.6	9.2	13.1	**12.6**	15.6	10.0	12.0	**12.6**	**6**
26	IHT 326	MH 2955	10.3	9.7	7.0	10.3	9.0	11.3	11.7	**9.9**	12.7	10.8	10.3	**10.3**	**26**
27	IHT 327	MH 2956	13.7	14.6	12.0	12.5	8.6	8.8	12.4	**11.8**	14.5	12.5	11.4	**12.1**	**8**
		LOC. MEAN	**12.1**	**11.7**	**10.7**	**11.7**	**12.2**	**9.7**	**11.9**	**11.4**	**13.3**	**10.5**	**11.2**	**11.5**	
		C.D. (5%)	**0.6**	**2.6**	**1.5**	**0.6**	**0.9**	**0.4**	**2.8**	**1.5**	**0.4**	**1.4**	**0.9**	**1.2**	
		C.D. (1%)	**0.8**	**3.5**	**2.1**	**0.8**	**1.2**	**0.6**	**3.7**	**2.0**	**0.5**	**1.8**	**1.2**	**1.5**	
		C.V. (%)	**2.9**	**13.7**	**8.9**	**3.2**	**4.5**	**2.8**	**14.2**	**12.5**	**1.8**	**8.0**	**5.0**	**11.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.85: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	73	60	81	44	50	39	44	**56**	80	72	**60**	**6**
2	IHT 302	MH 2935	74	51	80	49	49	49	34	**55**	79	69	**59**	**9**
3	IHT 303	MH 2936	75	50	81	51	38	35	22	**50**	76	69	**55**	**21**
4	IHT 304	MH 2937	72	48	81	53	47	32	22	**51**	78	59	**55**	**23**
5	IHT 305	MH 2938	72	50	82	53	48	46	40	**56**	80	74	**61**	**4**
6	IHT 306	Kaveri S Boss (Check)	74	59	81	56	43	36	30	**54**	77	74	**59**	**11**
7	IHT 307	MH 2939	75	55	75	57	39	41	41	**55**	77	74	**59**	**10**
8	IHT 308	MH 2940	75	47	56	47	40	32	29	**47**	80	53	**51**	**26**
9	IHT 309	MH 2941	75	46	74	53	45	23	26	**49**	81	66	**54**	**24**
10	IHT 310	MH 2942	75	52	82	46	46	45	39	**55**	82	56	**58**	**15**
11	IHT 311	MH 2943	76	42	72	46	30	33	32	**47**	79	70	**53**	**25**
12	IHT 312	NBH 4903 (Check)	74	57	77	51	40	49	58	**58**	81	59	**61**	**5**
13	IHT 313	MH 2944	74	40	76	54	53	29	40	**52**	79	63	**57**	**19**
14	IHT 314	MH 2945	74	49	74	48	42	36	28	**50**	80	65	**55**	**20**
15	IHT 315	MH 2946	74	56	81	42	48	46	46	**56**	82	78	**61**	**3**
16	IHT 316	MH 2947	73	58	81	46	48	51	40	**57**	79	61	**60**	**8**
17	IHT 317	MH 2948	74	60	83	55	58	46	50	**61**	81	63	**63**	**1**
18	IHT 318	86M86 (Check)	73	58	82	45	43	39	39	**54**	84	67	**59**	**12**
19	IHT 319	MH 2949	72	48	78	37	48	40	51	**54**	78	67	**58**	**16**
20	IHT 320	MH 2950	73	58	79	48	36	40	46	**54**	74	73	**59**	**13**
21	IHT 321	MH 2951	75	50	84	49	45	46	48	**56**	78	68	**60**	**7**
22	IHT 322	MH 2952	75	59	82	52	46	47	43	**58**	83	69	**62**	**2**
23	IHT 323	MH 2953	74	59	71	45	45	44	36	**53**	84	68	**58**	**14**
24	IHT 324	AHB 1200 (Check)	74	57	77	33	39	37	36	**50**	78	65	**55**	**22**
25	IHT 325	MH 2954	74	57	81	47	47	43	49	**57**	75	81	**61**	**3**
26	IHT 326	MH 2955	74	53	79	42	48	37	40	**53**	83	64	**58**	**17**
27	IHT 327	MH 2956	73	58	77	42	35	43	33	**52**	81	74	**57**	**18**
		LOC. MEAN	**74**	**53**	**78**	**48**	**44**	**40**	**39**	**54**	**80**	**67**	**58**	
		C.D. (5%)	**2.0**	**7.0**	**8.0**	**6.0**	**8.0**	**11.0**	**15.0**	**6.0**	**3.0**	**7.0**	**5.0**	
		C.D. (1%)	**3.0**	**9.0**	**11.0**	**7.0**	**10.0**	**14.0**	**20.0**	**8.0**	**5.0**	**10.0**	**7.0**	
		C.V. (%)	**1.8**	**8.1**	**6.2**	**7.1**	**10.6**	**16.4**	**24.1**	**10.1**	**2.7**	**6.7**	**9.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.86: INITIAL HYBRID TRIAL (Late) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	PCR	GNG	MS MEAN	APR	CBE	ZONE MEAN	RANK
1	IHT 301	MH 2934	99	82	53	93	80	67	90	**81**	71	62	**77**	**15**
2	IHT 302	MH 2935	96	88	67	96	88	63	99	**86**	81	60	**82**	**9**
3	IHT 303	MH 2936	96	62	73	83	83	83	90	**82**	70	65	**78**	**13**
4	IHT 304	MH 2937	96	63	67	100	88	82	75	**82**	70	5	**72**	**21**
5	IHT 305	MH 2938	97	92	95	92	93	47	98	**88**	77	84	**86**	**3**
6	IHT 306	Kaveri S Boss (Check)	98	75	48	94	85	73	92	**81**	70	43	**75**	**18**
7	IHT 307	MH 2939	99	62	73	96	78	60	100	**81**	69	22	**73**	**20**
8	IHT 308	MH 2940	98	82	48	90	73	42	95	**75**	67	50	**72**	**22**
9	IHT 309	MH 2941	99	13	-	94	73	80	75	**72**	69	37	**68**	**25**
10	IHT 310	MH 2942	98	73	88	93	55	30	83	**74**	80	62	**74**	**19**
11	IHT 311	MH 2943	99	30	82	90	87	85	100	**82**	68	46	**76**	**17**
12	IHT 312	NBH 4903 (Check)	99	90	82	89	97	63	100	**89**	70	91	**87**	**2**
13	IHT 313	MH 2944	98	93	60	91	77	73	68	**80**	68	60	**77**	**16**
14	IHT 314	MH 2945	98	82	88	100	92	48	97	**86**	68	74	**83**	**7**
15	IHT 315	MH 2946	98	70	57	83	63	58	62	**70**	71	48	**68**	**24**
16	IHT 316	MH 2947	98	70	88	91	83	73	99	**86**	69	88	**84**	**4**
17	IHT 317	MH 2948	99	80	82	94	95	27	95	**82**	73	79	**80**	**12**
18	IHT 318	86M86 (Check)	98	75	77	95	83	73	100	**86**	66	77	**83**	**8**
19	IHT 319	MH 2949	92	85	80	87	77	63	99	**83**	70	51	**78**	**14**
20	IHT 320	MH 2950	96	72	88	91	83	80	100	**87**	67	79	**84**	**5**
21	IHT 321	MH 2951	98	83	95	90	93	63	100	**89**	70	92	**87**	**1**
22	IHT 322	MH 2952	98	85	88	97	93	58	88	**87**	68	80	**84**	**6**
23	IHT 323	MH 2953	98	83	85	96	88	67	98	**88**	71	87	**86**	**3**
24	IHT 324	AHB 1200 (Check)	99	72	42	88	67	62	83	**73**	77	31	**69**	**23**
25	IHT 325	MH 2954	98	40	77	85	93	73	100	**81**	71	86	**80**	**11**
26	IHT 326	MH 2955	99	12	57	95	43	73	55	**62**	71	25	**59**	**26**
27	IHT 327	MH 2956	98	58	92	90	92	60	93	**83**	73	79	**82**	**10**
		LOC. MEAN	**98**	**69**	**74**	**92**	**82**	**64**	**90**	**81**	**71**	**62**	**78**	
		C.D. (5%)	**2.0**	**6.0**	**18.0**	**7.0**	**16.0**	**6.0**	**26.0**	**13.0**	**7.0**	**7.0**	**12.0**	
		C.D. (1%)	**3.0**	**7.0**	**24.0**	**9.0**	**21.0**	**8.0**	**34.0**	**17.0**	**9.0**	**10.0**	**15.0**	
		C.V. (%)	**1.3**	**4.9**	**14.6**	**4.6**	**11.6**	**5.7**	**17.4**	**15.1**	**6.0**	**7.1**	**14.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.014**	**0.000**	**0.000**	**0.021**	

Table I.87: INITIAL HYBRID TRIAL (Late) KHARIF - 2025: GRAIN QUALITY: IRON CONTENT (ppm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	VYP	CBE	ZONE MEAN	RANK
1	IHT 302	MH 2935	60	59	52	54	64	48	41	**54**	**2**
2	IHT 306	Kaveri S Boss (Check)	34	52	43	44	41	35	40	**41**	**6**
3	IHT 312	NBH 4903 (Check)	53	55	43	48	53	38	43	**48**	**4**
4	IHT 318	86M86 (Check)	42	58	58	59	52	42	45	**51**	**3**
5	IHT 321	MH 2951	64	54	42	55	51	32	39	**48**	**4**
6	IHT 322	MH 2952	58	50	48	50	46	38	49	**48**	**4**
7	IHT 324	AHB 1200 (Check)	72	70	58	59	68	53	60	**63**	**1**
8	IHT 325	MH 2954	39	44	41	64	32	33	38	**42**	**5**

Table I.88: INITIAL HYBRID TRIAL (Late) KHARIF - 2025: GRAIN QUALITY: ZINC CONTENT (ppm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	JLN1	VYP	CBE	ZONE MEAN	RANK
1	IHT 302	MH 2935	47	44	39	38	41	32	44	**41**	**3**
2	IHT 306	Kaveri S Boss (Check)	32	39	33	33	32	32	42	**35**	**6**
3	IHT 312	NBH 4903 (Check)	42	45	40	42	44	35	48	**42**	**2**
4	IHT 318	86M86 (Check)	40	41	39	39	45	35	45	**41**	**3**
5	IHT 321	MH 2951	42	39	37	41	39	28	41	**38**	**4**
6	IHT 322	MH 2952	38	36	32	38	38	30	45	**37**	**5**
7	IHT 324	AHB 1200 (Check)	46	46	44	40	45	32	52	**44**	**1**
8	IHT 325	MH 2954	28	32	30	37	29	24	31	**30**	**7**

Table I.89: ADVANCE HYBRID TRIAL (Medium) KHARIF 2025 EXPERIMENTAL DETAILS ZONE B

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers (kg/ha.)			Insecticide
							N	P	K	
MAHARASHTRA										
Aurangabad (NARP)	MB	7.5	15.7.25	29.10.25	-	Nil	60	30	30	Nil
Dhule (MPKV)	MB	8.6	01.7.25	11.10.25	24.7.25	Nil	60	30	0	Nil
Pachora (Nirmal Seed)	MB	7.8	02.7.25	04.11.25	31.7.25	02.7.25	100	50	50	Nil
KARNATAKA										
Vijayapur (UAS, Dharwad)	SB	8.7	09.7.25	05.11.25	19.8.25	Nil	50	25	0	Nil
ANDHRA PRADESH										
Ananthapuram (ANGRAU)	A	6.7	21.7.25	26.10.25	09.8.25	Nil	60	30	20	Nil
Vizianagaram (ANGRAU)	RSL	6.7	12.7.25	10.5.25	29.7.25	Nil	60	40	30	Nil
TAMIL NADU										
Coimbatore (TNAU)	CL	7.8	02.7.25	10.11.25	-	02.7,05.7,07.8,20.8.25	80	40	40	Nil

SB = Shallow Black, MB = Medium Black, CL = Clay Loam, RSL = Red Sandy Loam, A = Alfisols.

Table I.90: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	4111	2680	2748	**3179**	1892	2842	2814	**2828**	4553	**3091**	8
2	AHT 402 B	*MH 2705	4683	2175	2477	**3112**	1993	2239	3514	**2876**	4342	**3060**	10
3	AHT 403 B	MH 2773	4947	2821	2523	**3430**	1832	2742	3673	**3207**	4917	**3351**	2
4	AHT 404 B	MH 2775	4689	3413	4009	**4037**	2255	2681	2444	**2562**	4681	**3453**	1
5	AHT 405 B	86M01 (Check)	3544	2348	2437	**2776**	2191	3396	2680	**3038**	4506	**3014**	11
6	AHT 406 B	MH 2777	4636	2295	3153	**3361**	1881	2607	2914	**2760**	3086	**2939**	12
7	AHT 407 B	MH 2784	4092	2944	1865	**2967**	2069	3597	2768	**3183**	4731	**3152**	7
8	AHT 408 B	Pratap (Check)	2942	2468	2252	**2554**	1948	2642	2280	**2461**	3372	**2558**	14
9	AHT 409 B	MH 2842	4603	3023	2523	**3383**	2041	3200	2732	**2966**	4033	**3165**	5
10	AHT 410 B	MH 2846	4917	2453	1757	**3042**	2122	2703	3137	**2920**	4364	**3065**	9
11	AHT 411 B	MH 2852	5089	2941	3266	**3765**	1921	2793	2417	**2605**	4722	**3307**	3
12	AHT 412 B	AHB 1269 (Check)	3186	2703	1793	**2561**	1663	2082	2241	**2162**	3606	**2468**	15
13	AHT 413 B	MH 2859	4764	2698	2126	**3196**	1929	2606	3360	**2983**	4647	**3162**	6
14	AHT 414 B	MH 2863	4097	3528	3018	**3548**	1704	3610	3252	**3431**	3692	**3272**	4
15	AHT 415 B	AHB 1200 (Check)	2833	3769	1423	**2675**	1531	2042	2526	**2284**	3808	**2562**	13
		LOC. MEAN	**4209**	**2817**	**2491**	**3172**	**1931**	**2785**	**2850**	**2818**	**4204**	**3041**	
		C.D. (5%)	**657**	**692**	**651**	**979**	**363**	**672**	**643**	**943**	**495**	**518**	
		C.D. (1%)	**886**	**934**	**878**	**1321**	**489**	**906**	**867**	**1309**	**668**	**687**	
		C.V. (%)	**9.3**	**14.7**	**15.6**	**18.5**	**11.2**	**14.4**	**13.5**	**15.6**	**7.0**	**16.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.131**	**0.000**	**0.000**	**0.000**	**0.327**	**0.000**	**0.004**	
		PLOT SIZE (m^2)	**12.00**	**11.10**	**7.40**	**-**	**12.00**	**12.00**	**11.10**	**-**	**12.00**	**-**	

Table I.91: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	7667	5586	5732	**6328**	4944	7108	5952	**6530**	8439	**6490**	1
2	AHT 402 B	*MH 2705	7278	4414	4212	**5301**	3972	5414	4712	**5063**	6231	**5176**	11
3	AHT 403 B	MH 2773	7667	3664	5822	**5717**	3889	7539	5892	**6715**	8764	**6177**	4
4	AHT 404 B	MH 2775	6944	5045	5417	**5802**	4111	6286	3883	**5084**	5806	**5356**	9
5	AHT 405 B	86M01 (Check)	7861	3784	4437	**5361**	3861	7025	5036	**6031**	4675	**5240**	10
6	AHT 406 B	MH 2777	7611	3694	3986	**5097**	3278	6556	4586	**5571**	4797	**4930**	12
7	AHT 407 B	MH 2784	7722	5826	3930	**5826**	4917	7592	4838	**6215**	5969	**5828**	5
8	AHT 408 B	Pratap (Check)	7806	3333	2320	**4486**	3889	5447	3757	**4602**	4811	**4480**	15
9	AHT 409 B	MH 2842	8278	5856	5664	**6599**	4972	7269	4189	**5729**	7461	**6241**	2
10	AHT 410 B	MH 2846	8306	4084	4550	**5646**	4444	7492	4144	**5818**	4619	**5377**	8
11	AHT 411 B	MH 2852	7778	7327	4516	**6540**	4278	6578	2817	**4697**	7481	**5825**	6
12	AHT 412 B	AHB 1269 (Check)	8306	3423	3618	**5116**	3222	5308	3829	**4569**	4981	**4669**	14
13	AHT 413 B	MH 2859	8028	6246	5721	**6665**	4444	6964	4405	**5685**	7458	**6181**	3
14	AHT 414 B	MH 2863	7139	5706	5811	**6218**	4222	7467	4393	**5930**	4931	**5667**	7
15	AHT 415 B	AHB 1200 (Check)	7833	6036	2793	**5554**	3472	4728	3297	**4013**	5561	**4817**	13
		LOC. MEAN	**7748**	**4935**	**4568**	**5751**	**4128**	**6585**	**4382**	**5483**	**6132**	**5497**	
		C.D. (5%)	**1675**	**1282**	**1064**	**1578**	**734**	**1036**	**1251**	**1337**	**940**	**895**	
		C.D. (1%)	**2259**	**1730**	**1436**	**2129**	**990**	**1397**	**1687**	**1855**	**1268**	**1186**	
		C.V. (%)	**12.9**	**15.5**	**13.9**	**16.4**	**10.6**	**9.4**	**17.1**	**11.4**	**9.2**	**15.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.246**	**0.000**	**0.000**	**0.000**	**0.020**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**12.00**	**11.10**	**7.40**	**-**	**12.00**	**12.00**	**11.10**	**-**	**12.00**	**-**	

Table I.92: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL*	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	51	52	53	**52**	52	48	56	**52**	54	**52**	**1**
2	AHT 402 B	*MH 2705	51	55	52	**51**	49	44	58	**51**	46	**50**	**6**
3	AHT 403 B	MH 2773	51	54	56	**53**	52	46	56	**51**	50	**52**	**2**
4	AHT 404 B	MH 2775	51	51	47	**49**	51	46	48	**47**	48	**49**	**11**
5	AHT 405 B	86M01 (Check)	51	52	49	**50**	49	44	52	**48**	48	**49**	**10**
6	AHT 406 B	MH 2777	51	53	52	**52**	52	46	48	**47**	51	**50**	**7**
7	AHT 407 B	MH 2784	51	51	53	**52**	49	46	50	**48**	51	**50**	**5**
8	AHT 408 B	Pratap (Check)	50	56	51	**51**	49	41	50	**46**	49	**48**	**13**
9	AHT 409 B	MH 2842	52	53	52	**52**	48	47	49	**48**	50	**50**	**8**
10	AHT 410 B	MH 2846	51	55	50	**50**	52	50	48	**49**	55	**51**	**3**
11	AHT 411 B	MH 2852	51	51	49	**50**	52	47	47	**47**	54	**50**	**5**
12	AHT 412 B	AHB 1269 (Check)	52	54	49	**51**	53	39	48	**44**	49	**48**	**12**
13	AHT 413 B	MH 2859	50	55	53	**52**	50	47	51	**49**	53	**51**	**4**
14	AHT 414 B	MH 2863	51	54	48	**50**	53	46	49	**48**	48	**49**	**9**
15	AHT 415 B	AHB 1200 (Check)	50	49	50	**50**	54	40	48	**44**	46	**48**	**14**
		LOC. MEAN	**51**	**53**	**51**	**51**	**51**	**45**	**51**	**48**	**50**	**50**	
		C.D. (5%)	**2.0**	**2.0**	**3.0**	**4.0**	**1.0**	**3.0**	**3.0**	**6.0**	**1.0**	**3.0**	
		C.D. (1%)	**2.0**	**3.0**	**4.0**	**5.0**	**1.0**	**4.0**	**5.0**	**9.0**	**2.0**	**4.0**	
		C.V. (%)	**1.8**	**2.3**	**3.1**	**3.3**	**1.0**	**3.9**	**4.0**	**6.2**	**1.7**	**4.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.512**	**0.000**	**0.000**	**0.000**	**0.309**	**0.000**	**0.058**	

***LOCATION REJECTED DUE TO DELAYED FLOWERING IN CHECKS**

Table I.93: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 DAYS TO MATURITY ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	95	87	80	**87**	88	85	79	**82**	85	**85**	**4**
2	AHT 402 B	*MH 2705	94	90	79	**88**	84	81	79	**80**	80	**84**	**12**
3	AHT 403 B	MH 2773	94	89	81	**88**	88	83	79	**81**	81	**85**	**6**
4	AHT 404 B	MH 2775	92	86	75	**84**	87	82	79	**81**	80	**83**	**14**
5	AHT 405 B	86M01 (Check)	92	87	77	**85**	85	80	79	**80**	80	**83**	**15**
6	AHT 406 B	MH 2777	93	88	79	**87**	88	83	79	**81**	82	**85**	**8**
7	AHT 407 B	MH 2784	95	86	80	**87**	86	85	80	**82**	83	**85**	**7**
8	AHT 408 B	Pratap (Check)	91	91	78	**87**	85	79	81	**80**	81	**84**	**13**
9	AHT 409 B	MH 2842	96	88	80	**88**	84	83	84	**84**	83	**85**	**5**
10	AHT 410 B	MH 2846	95	90	78	**88**	88	89	84	**87**	88	**87**	**1**
11	AHT 411 B	MH 2852	95	86	77	**86**	88	83	85	**84**	87	**86**	**3**
12	AHT 412 B	AHB 1269 (Check)	91	89	78	**86**	88	76	85	**81**	82	**84**	**10**
13	AHT 413 B	MH 2859	97	90	80	**89**	86	84	89	**86**	85	**87**	**2**
14	AHT 414 B	MH 2863	96	89	77	**87**	88	83	88	**85**	71	**85**	**9**
15	AHT 415 B	AHB 1200 (Check)	89	84	78	**84**	89	76	93	**85**	79	**84**	**11**
		LOC. MEAN	**94**	**88**	**78**	**87**	**87**	**82**	**83**	**83**	**82**	**85**	
		C.D. (5%)	**1.0**	**2.0**	**2.0**	**3.0**	**1.0**	**3.0**	**4.0**	**9.0**	**2.0**	**3.0**	
		C.D. (1%)	**2.0**	**3.0**	**3.0**	**4.0**	**1.0**	**5.0**	**6.0**	**13.0**	**2.0**	**4.0**	
		C.V. (%)	**0.9**	**1.4**	**1.7**	**1.9**	**0.7**	**2.5**	**3.1**	**5.2**	**1.1**	**3.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.035**	**0.000**	**0.000**	**0.000**	**0.836**	**0.000**	**0.111**	

Table I.94: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 PLANT HEIGHT (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	255	282	243	**260**	228	138	183	**161**	233	**223**	1
2	AHT 402 B	*MH 2705	150	221	182	**184**	182	111	152	**132**	181	**169**	14
3	AHT 403 B	MH 2773	175	276	200	**217**	197	133	169	**151**	214	**195**	5
4	AHT 404 B	MH 2775	165	229	183	**192**	172	130	147	**138**	186	**173**	12
5	AHT 405 B	86M01 (Check)	175	235	187	**199**	150	144	166	**155**	188	**178**	11
6	AHT 406 B	MH 2777	185	244	203	**210**	194	127	197	**162**	199	**193**	6
7	AHT 407 B	MH 2784	195	257	200	**217**	172	134	180	**157**	195	**190**	8
8	AHT 408 B	Pratap (Check)	155	202	170	**176**	162	125	152	**138**	164	**161**	15
9	AHT 409 B	MH 2842	215	251	194	**220**	191	131	174	**153**	190	**192**	7
10	AHT 410 B	MH 2846	210	285	209	**235**	195	125	202	**163**	203	**204**	4
11	AHT 411 B	MH 2852	245	276	228	**250**	205	134	213	**173**	234	**219**	2
12	AHT 412 B	AHB 1269 (Check)	210	243	187	**213**	181	118	157	**137**	192	**184**	10
13	AHT 413 B	MH 2859	205	295	226	**242**	184	142	185	**164**	238	**211**	3
14	AHT 414 B	MH 2863	175	253	202	**210**	182	132	168	**150**	182	**185**	9
15	AHT 415 B	AHB 1200 (Check)	177	223	179	**193**	161	114	159	**137**	171	**169**	13
		LOC. MEAN	**193**	**251**	**200**	**215**	**184**	**129**	**174**	**151**	**198**	**190**	
		C.D. (5%)	**9.0**	**17.0**	**25.0**	**21.0**	**11.0**	**16.0**	**15.0**	**28.0**	**8.0**	**14.0**	
		C.D. (1%)	**12.0**	**23.0**	**33.0**	**29.0**	**15.0**	**22.0**	**20.0**	**38.0**	**11.0**	**18.0**	
		C.V. (%)	**2.8**	**4.1**	**7.4**	**6.0**	**3.6**	**7.5**	**5.1**	**8.5**	**2.4**	**6.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.131**	**0.000**	**0.000**	

Table I.95: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	2.3	1.2	1.1	**1.5**	2.6	2.3	2.4	**2.3**	2.5	**2.1**	**15**
2	AHT 402 B	*MH 2705	1.7	2.1	1.2	**1.6**	2.7	1.9	2.5	**2.2**	2.8	**2.1**	**13**
3	AHT 403 B	MH 2773	2.7	1.6	1.0	**1.7**	2.8	2.1	3.5	**2.8**	2.1	**2.2**	**8**
4	AHT 404 B	MH 2775	2.3	2.3	1.9	**2.2**	2.9	2.1	2.5	**2.3**	2.3	**2.3**	**4**
5	AHT 405 B	86M01 (Check)	2.3	2.0	1.1	**1.8**	2.7	3.0	3.5	**3.2**	2.6	**2.5**	**2**
6	AHT 406 B	MH 2777	2.0	1.7	1.4	**1.7**	2.9	1.9	3.3	**2.6**	2.1	**2.2**	**10**
7	AHT 407 B	MH 2784	1.7	1.8	1.1	**1.5**	2.8	1.9	3.3	**2.6**	2.1	**2.1**	**14**
8	AHT 408 B	Pratap (Check)	1.7	2.0	1.0	**1.5**	2.7	2.1	4.4	**3.3**	2.6	**2.4**	**3**
9	AHT 409 B	MH 2842	1.7	1.8	1.3	**1.6**	2.9	2.4	2.9	**2.7**	2.5	**2.2**	**9**
10	AHT 410 B	MH 2846	1.3	1.5	1.4	**1.4**	2.8	2.2	3.5	**2.8**	2.4	**2.2**	**12**
11	AHT 411 B	MH 2852	2.7	1.4	1.6	**1.9**	2.8	2.4	3.9	**3.2**	2.3	**2.5**	**1**
12	AHT 412 B	AHB 1269 (Check)	2.3	1.9	1.4	**1.9**	2.7	2.2	3.0	**2.6**	2.3	**2.3**	**6**
13	AHT 413 B	MH 2859	2.3	1.6	1.1	**1.7**	2.8	2.1	2.9	**2.5**	2.4	**2.2**	**11**
14	AHT 414 B	MH 2863	1.3	1.9	1.0	**1.4**	2.9	2.7	3.3	**3.0**	2.7	**2.3**	**5**
15	AHT 415 B	AHB 1200 (Check)	1.3	2.5	1.2	**1.7**	2.7	1.6	3.9	**2.7**	2.7	**2.3**	**7**
		LOC. MEAN	**2.0**	**1.8**	**1.3**	**1.7**	**2.8**	**2.2**	**3.2**	**2.7**	**2.4**	**2.2**	
		C.D. (5%)	**1.0**	**0.4**	**0.2**	**0.6**	**0.4**	**0.6**	**0.9**	**1.0**	**0.5**	**0.4**	
		C.D. (1%)	**1.3**	**0.5**	**0.3**	**0.8**	**0.5**	**0.8**	**1.2**	**1.4**	**0.7**	**0.5**	
		C.V. (%)	**29.3**	**12.3**	**11.5**	**22.1**	**7.9**	**15.9**	**16.0**	**17.4**	**12.8**	**16.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.573**	**0.000**	**0.000**	**0.000**	**0.534**	**0.000**	**0.742**	

Table I.96: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE LENGTH (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	24	28	31	**28**	24	19	26	**23**	28	**26**	**4**
2	AHT 402 B	*MH 2705	26	29	28	**27**	27	23	25	**24**	30	**27**	**3**
3	AHT 403 B	MH 2773	24	26	27	**26**	24	23	25	**24**	26	**25**	**8**
4	AHT 404 B	MH 2775	25	31	29	**28**	24	21	28	**25**	31	**27**	**2**
5	AHT 405 B	86M01 (Check)	25	28	28	**27**	18	21	27	**24**	28	**25**	**8**
6	AHT 406 B	MH 2777	24	28	28	**26**	24	18	27	**22**	28	**25**	**7**
7	AHT 407 B	MH 2784	24	25	25	**24**	21	20	26	**23**	25	**24**	**11**
8	AHT 408 B	Pratap (Check)	22	24	24	**23**	19	19	24	**22**	22	**22**	**13**
9	AHT 409 B	MH 2842	24	27	27	**26**	23	20	27	**23**	27	**25**	**9**
10	AHT 410 B	MH 2846	27	30	29	**29**	23	25	28	**27**	28	**27**	**1**
11	AHT 411 B	MH 2852	25	28	26	**26**	24	21	28	**24**	27	**25**	**5**
12	AHT 412 B	AHB 1269 (Check)	22	26	25	**24**	20	22	23	**23**	26	**24**	**12**
13	AHT 413 B	MH 2859	26	27	29	**27**	23	21	23	**22**	27	**25**	**6**
14	AHT 414 B	MH 2863	25	26	24	**25**	23	21	27	**24**	26	**25**	**10**
15	AHT 415 B	AHB 1200 (Check)	24	28	27	**26**	19	23	26	**25**	27	**25**	**8**
		LOC. MEAN	**24**	**27**	**27**	**26**	**22**	**21**	**26**	**24**	**27**	**25**	
		C.D. (5%)	**1.0**	**2.0**	**4.0**	**2.0**	**2.0**	**3.0**	**4.0**	**4.0**	**2.0**	**2.0**	
		C.D. (1%)	**2.0**	**2.0**	**6.0**	**2.0**	**3.0**	**4.0**	**5.0**	**5.0**	**3.0**	**2.0**	
		C.V. (%)	**3.0**	**4.0**	**9.1**	**4.2**	**5.1**	**8.3**	**8.1**	**7.4**	**5.0**	**5.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.489**	**0.000**	**0.000**	

Table I.97: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	3.1	3.6	3.7	**3.5**	2.3	2.5	2.4	**2.4**	2.9	**2.9**	**5**
2	AHT 402 B	*MH 2705	3.0	3.6	3.6	**3.4**	2.3	2.8	2.3	**2.5**	2.7	**2.9**	**8**
3	AHT 403 B	MH 2773	3.3	3.5	3.5	**3.4**	2.4	2.8	2.0	**2.4**	2.7	**2.9**	**7**
4	AHT 404 B	MH 2775	3.2	3.4	3.2	**3.3**	2.3	2.5	2.0	**2.3**	2.6	**2.8**	**13**
5	AHT 405 B	86M01 (Check)	2.7	3.5	3.3	**3.2**	1.9	2.3	3.3	**2.8**	2.6	**2.8**	**11**
6	AHT 406 B	MH 2777	3.3	3.6	3.4	**3.4**	2.5	2.5	2.3	**2.4**	2.9	**2.9**	**4**
7	AHT 407 B	MH 2784	3.1	3.6	3.6	**3.4**	2.2	2.7	2.5	**2.6**	2.7	**2.9**	**6**
8	AHT 408 B	Pratap (Check)	3.1	3.4	3.4	**3.3**	2.2	2.7	1.9	**2.3**	2.6	**2.8**	**12**
9	AHT 409 B	MH 2842	3.3	3.6	3.8	**3.6**	2.5	2.6	2.7	**2.7**	2.8	**3.1**	**1**
10	AHT 410 B	MH 2846	3.3	3.6	3.5	**3.5**	2.6	2.7	2.5	**2.6**	2.8	**3.0**	**2**
11	AHT 411 B	MH 2852	3.2	3.5	3.1	**3.3**	2.1	2.5	2.0	**2.3**	2.8	**2.7**	**14**
12	AHT 412 B	AHB 1269 (Check)	3.1	3.5	3.0	**3.2**	2.3	2.4	2.6	**2.5**	2.7	**2.8**	**11**
13	AHT 413 B	MH 2859	3.4	3.5	3.7	**3.5**	2.4	2.5	2.6	**2.5**	2.7	**3.0**	**3**
14	AHT 414 B	MH 2863	3.2	3.6	3.1	**3.3**	2.3	2.8	2.5	**2.6**	2.6	**2.9**	**10**
15	AHT 415 B	AHB 1200 (Check)	3.1	3.9	3.5	**3.5**	2.2	2.7	2.2	**2.4**	2.7	**2.9**	**9**
		LOC. MEAN	**3.2**	**3.6**	**3.4**	**3.4**	**2.3**	**2.6**	**2.4**	**2.5**	**2.7**	**2.9**	
		C.D. (5%)	**0.2**	**0.1**	**0.5**	**0.3**	**0.2**	**0.3**	**0.7**	**0.7**	**0.1**	**0.2**	
		C.D. (1%)	**0.2**	**0.2**	**0.7**	**0.4**	**0.2**	**0.3**	**0.9**	**1.0**	**0.2**	**0.3**	
		C.V. (%)	**3.3**	**2.3**	**9.2**	**5.0**	**4.0**	**5.8**	**16.5**	**13.0**	**3.2**	**6.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.155**	**0.000**	**0.000**	**0.000**	**0.943**	**0.000**	**0.118**	

Table I.98: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 1000 SEED Wt.(g) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	10.3	11.2	11.5	**11.0**	13.2	12.2	7.1	**9.7**	12.2	**11.1**	**14**
2	AHT 402 B	*MH 2705	12.8	13.5	11.3	**12.5**	14.5	11.4	8.2	**9.8**	12.1	**12.0**	**6**
3	AHT 403 B	MH 2773	10.7	12.7	12.8	**12.1**	14.7	13.7	8.2	**11.0**	11.0	**12.0**	**5**
4	AHT 404 B	MH 2775	11.5	13.2	11.0	**11.9**	15.7	11.4	4.8	**8.1**	8.7	**10.9**	**15**
5	AHT 405 B	86M01 (Check)	14.5	12.6	12.0	**13.0**	13.4	14.0	9.3	**11.7**	12.5	**12.6**	**1**
6	AHT 406 B	MH 2777	14.2	11.1	11.3	**12.2**	14.3	12.7	8.4	**10.5**	12.6	**12.1**	**3**
7	AHT 407 B	MH 2784	10.3	12.7	12.3	**11.8**	13.2	12.7	7.9	**10.3**	9.8	**11.3**	**13**
8	AHT 408 B	Pratap (Check)	13.2	12.3	11.1	**12.2**	15.0	13.3	5.7	**9.5**	14.2	**12.1**	**2**
9	AHT 409 B	MH 2842	13.0	12.6	11.6	**12.4**	14.5	11.8	6.8	**9.3**	12.8	**11.9**	**7**
10	AHT 410 B	MH 2846	12.7	13.4	12.7	**12.9**	14.5	12.9	7.4	**10.1**	10.8	**12.0**	**4**
11	AHT 411 B	MH 2852	14.2	12.2	11.7	**12.7**	13.9	12.2	6.6	**9.4**	11.7	**11.8**	**8**
12	AHT 412 B	AHB 1269 (Check)	12.3	11.4	11.3	**11.7**	13.5	11.7	7.6	**9.7**	12.8	**11.5**	**12**
13	AHT 413 B	MH 2859	12.5	12.2	12.4	**12.4**	13.7	11.6	8.0	**9.8**	11.2	**11.7**	**10**
14	AHT 414 B	MH 2863	12.7	12.7	11.3	**12.2**	13.3	12.3	7.6	**10.0**	11.0	**11.6**	**11**
15	AHT 415 B	AHB 1200 (Check)	12.6	13.9	12.4	**13.0**	13.5	10.9	6.3	**8.6**	12.7	**11.8**	**9**
		LOC. MEAN	**12.5**	**12.5**	**11.8**	**12.3**	**14.1**	**12.3**	**7.3**	**9.8**	**11.8**	**11.8**	
		C.D. (5%)	**0.3**	**0.6**	**1.3**	**1.6**	**1.5**	**1.8**	**0.8**	**1.7**	**1.5**	**1.1**	
		C.D. (1%)	**0.4**	**0.8**	**1.8**	**2.2**	**2.0**	**2.4**	**1.0**	**2.3**	**2.0**	**1.4**	
		C.V. (%)	**1.5**	**2.8**	**6.7**	**7.9**	**6.2**	**8.6**	**6.2**	**8.0**	**7.4**	**8.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.527**	**0.000**	**0.000**	**0.000**	**0.054**	**0.000**	**0.211**	

Table I.99: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	151	134	76	**120**	54	158	146	**152**	92	**116**	**5**
2	AHT 402 B	*MH 2705	152	64	78	**98**	50	151	145	**148**	141	**111**	**10**
3	AHT 403 B	MH 2773	152	74	82	**103**	49	156	146	**151**	149	**115**	**6**
4	AHT 404 B	MH 2775	153	106	75	**111**	48	152	147	**149**	142	**117**	**2**
5	AHT 405 B	86M01 (Check)	152	87	72	**104**	49	162	146	**154**	118	**112**	**9**
6	AHT 406 B	MH 2777	154	93	76	**108**	48	151	146	**149**	90	**108**	**13**
7	AHT 407 B	MH 2784	153	44	76	**91**	50	161	147	**154**	137	**110**	**12**
8	AHT 408 B	Pratap (Check)	153	95	61	**103**	54	161	144	**153**	109	**111**	**11**
9	AHT 409 B	MH 2842	152	85	71	**103**	54	160	145	**153**	149	**117**	**3**
10	AHT 410 B	MH 2846	153	89	66	**103**	50	152	145	**149**	84	**106**	**15**
11	AHT 411 B	MH 2852	152	102	84	**113**	50	155	143	**149**	111	**114**	**8**
12	AHT 412 B	AHB 1269 (Check)	153	96	56	**102**	47	150	144	**147**	98	**106**	**14**
13	AHT 413 B	MH 2859	152	104	69	**108**	53	162	149	**155**	128	**117**	**4**
14	AHT 414 B	MH 2863	152	116	82	**117**	46	162	145	**154**	123	**118**	**1**
15	AHT 415 B	AHB 1200 (Check)	152	127	64	**114**	46	151	145	**148**	117	**115**	**7**
		LOC. MEAN	**152**	**94**	**73**	**106**	**50**	**156**	**146**	**151**	**119**	**113**	
		C.D. (5%)	**2.0**	**17.0**	**22.0**	**24.0**	**7.0**	**2.0**	**6.0**	**7.0**	**13.0**	**14.0**	
		C.D. (1%)	**3.0**	**23.0**	**29.0**	**33.0**	**9.0**	**3.0**	**8.0**	**9.0**	**18.0**	**18.0**	
		C.V. (%)	**0.8**	**11.0**	**17.8**	**13.6**	**8.4**	**0.9**	**2.5**	**2.1**	**6.8**	**11.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.638**	**0.000**	**0.000**	**0.000**	**0.277**	**0.000**	**0.782**	

Table I.100: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	PCR	MS MEAN	APR	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	98	93	80	**90**	70	69	**82**	**12**
2	AHT 402 B	*MH 2705	98	98	80	**92**	72	61	**82**	**13**
3	AHT 403 B	MH 2773	98	87	82	**89**	69	83	**84**	**6**
4	AHT 404 B	MH 2775	99	89	88	**92**	75	81	**86**	**2**
5	AHT 405 B	86M01 (Check)	98	95	82	**92**	72	66	**83**	**9**
6	AHT 406 B	MH 2777	99	91	77	**89**	71	82	**84**	**7**
7	AHT 407 B	MH 2784	98	90	77	**88**	70	77	**83**	**10**
8	AHT 408 B	Pratap (Check)	98	95	77	**90**	70	77	**83**	**8**
9	AHT 409 B	MH 2842	98	97	77	**91**	69	84	**85**	**5**
10	AHT 410 B	MH 2846	99	98	77	**91**	70	67	**82**	**11**
11	AHT 411 B	MH 2852	100	96	85	**93**	71	81	**86**	**3**
12	AHT 412 B	AHB 1269 (Check)	99	88	82	**89**	70	50	**78**	**14**
13	AHT 413 B	MH 2859	98	100	77	**92**	78	85	**87**	**1**
14	AHT 414 B	MH 2863	99	94	78	**90**	71	83	**85**	**4**
15	AHT 415 B	AHB 1200 (Check)	99	99	77	**92**	74	71	**84**	**7**
		LOC. MEAN	**99**	**94**	**80**	**91**	**71**	**75**	**84**	
		C.D. (5%)	**1.0**	**7.0**	**5.0**	**6.0**	**9.0**	**11.0**	**4.0**	
		C.D. (1%)	**2.0**	**10.0**	**7.0**	**8.0**	**12.0**	**15.0**	**6.0**	
		C.V. (%)	**0.9**	**4.5**	**3.9**	**3.8**	**7.4**	**8.8**	**3.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.917**	**0.000**	**0.000**	**0.557**	

Table I.101: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 ZONE B
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD1	DHL	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	59	47	36	52	40	**47**	**7**
2	AHT 402 B	*MH 2705	40	46	31	37	33	**37**	**9**
3	AHT 403 B	MH 2773	56	52	34	44	42	**46**	**8**
4	AHT 404 B	MH 2775	50	52	41	53	53	**50**	**6**
5	AHT 405 B	86M01 (Check)	53	47	40	47	49	**47**	**7**
6	AHT 406 B	MH 2777	55	48	38	55	36	**46**	**8**
7	AHT 407 B	MH 2784	53	57	40	42	43	**47**	**7**
8	AHT 408 B	Pratap (Check)	61	60	47	58	41	**54**	**4**
9	AHT 409 B	MH 2842	48	44	43	56	43	**47**	**7**
10	AHT 410 B	MH 2846	66	71	45	68	56	**61**	**2**
11	AHT 411 B	MH 2852	54	52	50	54	46	**51**	**5**
12	AHT 412 B	AHB 1269 (Check)	69	64	47	57	53	**58**	**3**
13	AHT 413 B	MH 2859	49	51	44	54	50	**50**	**6**
14	AHT 414 B	MH 2863	59	55	49	60	50	**54**	**4**
15	AHT 415 B	AHB 1200 (Check)	72	76	54	62	58	**65**	**1**

Table I.102: ADVANCE HYBRID TRIAL (Medium) KHARIF - 2025 ZONE B
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD1	DHL	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 401 B	MH 2767	38	31	27	27	34	**31**	**8**
2	AHT 402 B	*MH 2705	27	34	27	19	34	**28**	**9**
3	AHT 403 B	MH 2773	37	38	27	25	42	**34**	**6**
4	AHT 404 B	MH 2775	27	37	30	24	49	**33**	**7**
5	AHT 405 B	86M01 (Check)	37	33	29	23	50	**34**	**6**
6	AHT 406 B	MH 2777	37	34	31	23	37	**33**	**7**
7	AHT 407 B	MH 2784	41	36	25	20	42	**33**	**7**
8	AHT 408 B	Pratap (Check)	43	34	30	32	46	**37**	**3**
9	AHT 409 B	MH 2842	35	31	26	25	40	**31**	**8**
10	AHT 410 B	MH 2846	48	44	30	28	55	**41**	**1**
11	AHT 411 B	MH 2852	36	38	32	26	45	**36**	**4**
12	AHT 412 B	AHB 1269 (Check)	38	38	30	21	47	**35**	**5**
13	AHT 413 B	MH 2859	40	38	30	25	45	**36**	**4**
14	AHT 414 B	MH 2863	34	34	30	29	42	**34**	**6**
15	AHT 415 B	AHB 1200 (Check)	49	45	33	22	48	**39**	**2**

Table I.103: ADVANCE HYBRID TRIAL (Late) KHARIF 2025 EXPERIMENTAL DETAILS ZONE A

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizer			Insecticide
							N	P	K	
RAJASTHAN										
Jaipur (SKNAU)	SL	-	05.7.25	06.10.25	21.7.25	Nil	40	30	0	Nil
Jaipur (Seed works)	MSL	7.2	30.6.25	28.9.25	18.7.25	30.7,12.8.25	80	60	40	Chloropyriphos, Coragen,
Alwar (Corteva)	L	7.5	04.7.25	05.10.25	10.8.25	Life Saving	90	60	30	Chloropyriphos+Imidachlorpid
GUJARAT										
Jamnagar (JAU)	MB	7.6	30.6.25	10.10.25	13.7,22.7,28.7.25	09.8.25	80	40	0	Nil
Dehgam (Kaveri Seeds)	SL	-	16.7.25	16.10.25	25.7,14.8.25	16.7.25	128	92	0	Coragen
UTTAR PRADESH										
Aligarh (Hytech)	SL	-	28.6.25	01.10.25	21.7,23.8.25	-	65	30	15	Monocrotophos, Bavistin
Agra (Mahindra)	SL	-	22.7.25	14.10.25	-	22.8,24.9.25	85	60	50	Nil
Bichpuri(Kaveri Seeds)	SL	-	21.7.25	15.10.25	12.8.25	21.7.25	148	22.5	22.5	Nil
HARYANA										
Hisar (CCSHAU)	SL	-	07.7.25	10.10.25	-	25.7.25	100	40	0	Nil
MADHYA PRADESH										
Gwalior (RVSKVV)	SL	7.1	19.7.25	23.10.25	19.8.25	Nil	60	40	20	Nil
PUNJAB										
Ludhiana (PAU)	SL	-	04.7.25	22.11.25	30.7.29.8.25	30.7, 30.8, 01.10.25	100	60	0	Nil

SL = Sandy Loam, MB = Medium Black, MSL = Medium Sandy Loam, L = Loam.

Table I.104: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR***	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	3244	3451	2238	**2978**	3576	5161	**4369**	2374	3535	5806	**3905**	3360	2000	4344	**3709**	**10**
2	AHT 502 A	MH 2796	5103	3696	3347	**4049**	4465	5711	**5088**	3178	4569	7142	**4963**	4537	1988	3517	**4527**	**3**
3	AHT 503 A	MH 2797	4092	3947	3031	**3690**	3755	5697	**4726**	3114	3938	7290	**4781**	3829	1781	4535	**4323**	**6**
4	AHT 504 A	MH 2798	5014	4385	3753	**4384**	4521	5822	**5172**	3016	4393	7478	**4962**	4596	1403	4657	**4763**	**1**
5	AHT 505 A	86M84 (Check)	3881	4406	3331	**3872**	3935	5408	**4672**	2793	4154	6614	**4520**	3562	2913	3707	**4179**	**7**
6	AHT 506 A	MH 2806	4944	3838	4036	**4273**	4037	5922	**4980**	2577	4488	7982	**5016**	3692	2067	3577	**4509**	**4**
7	AHT 507 A	MH 2808	3908	4239	3592	**3913**	4618	5772	**5195**	2903	4092	7738	**4911**	3511	2837	4934	**4531**	**2**
8	AHT 508 A	AHB 1200 (Check)	2600	2339	2533	**2491**	2009	3247	**2628**	1613	2790	3783	**2729**	2225	996	3547	**2669**	**11**
9	AHT 509 A	MP 7878 (Check)	3850	3564	3715	**3710**	3748	5444	**4596**	3152	3597	6256	**4335**	3592	1985	3913	**4083**	**8**
10	AHT 510 A	MH 2878	4089	2975	4503	**3856**	3981	5889	**4935**	3345	4572	7600	**5172**	3417	2154	3449	**4382**	**5**
11	AHT 511 A	KBH 108 (Check)	3589	2909	2818	**3105**	3368	5375	**4372**	3182	3652	6397	**4410**	2242	1966	3777	**3731**	**9**
		LOC. MEAN	**4029**	**3614**	**3354**	**3665**	**3819**	**5405**	**4612**	**2841**	**3980**	**6735**	**4519**	**3506**	**2008**	**3996**	**4128**	
		C.D. (5%)	**1055**	**356**	**935**	**821**	**464**	**424**	**505**	**265**	**604**	**577**	**855**	**765**	**306**	**431**	**412**	
		C.D. (1%)	**1439**	**486**	**1275**	**1120**	**633**	**578**	**718**	**361**	**824**	**788**	**1167**	**1044**	**417**	**587**	**546**	
		C.V. (%)	**15.4**	**5.8**	**16.4**	**13.2**	**7.1**	**4.6**	**4.9**	**5.5**	**8.9**	**5.0**	**11.1**	**12.8**	**8.9**	**6.3**	**11.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.003**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**12.00**	**12.00**	**12.00**	**-**	**14.40**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**-**	

*****TEST LOCATION REJECTED DUE TO LOW AVERAGE YIELD (2008 kg/ha), THAN THE STATE AVERAGE YIELD (2166 kg/ha) TAKEN OVER 10 YEARS**

Table I.105: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	9639	8236	8383	**8753**	8000	9611	**8806**	8582	19789	9282	**12551**	12528	7833	17542	**10857**	**10**
2	AHT 502 A	MH 2796	10139	7778	9864	**9260**	8111	10208	**9160**	10158	26639	11822	**16206**	15444	11250	15486	**12445**	**3**
3	AHT 503 A	MH 2797	9056	8106	9508	**8890**	9574	10389	**9981**	9661	22794	13633	**15363**	12639	14722	16125	**12382**	**4**
4	AHT 504 A	MH 2798	8306	9228	9236	**8923**	7241	8928	**8084**	10550	21272	10475	**14099**	15806	12222	17764	**11912**	**6**
5	AHT 505 A	86M84 (Check)	11139	9211	7108	**9153**	8685	10564	**9625**	10250	24528	11333	**15370**	13028	15000	14819	**12333**	**5**
6	AHT 506 A	MH 2806	9139	7386	6172	**7566**	7463	11206	**9334**	8164	22356	10599	**13706**	13997	9028	17994	**11228**	**9**
7	AHT 507 A	MH 2808	8056	8697	9822	**8858**	10259	11506	**10882**	8977	22261	12376	**14538**	11861	14722	20267	**12619**	**2**
8	AHT 508 A	AHB 1200 (Check)	7500	5689	5792	**6327**	5176	6136	**5656**	5724	18178	6257	**10053**	9639	5694	15808	**8327**	**11**
9	AHT 509 A	MP 7878 (Check)	9056	9169	8469	**8898**	8167	11717	**9942**	10379	22300	11853	**14844**	12111	10556	11417	**11381**	**7**
10	AHT 510 A	MH 2878	9417	9267	11883	**10189**	11537	14447	**12992**	12011	23789	14663	**16821**	11861	10833	13733	**13040**	**1**
11	AHT 511 A	KBH 108 (Check)	9833	8697	9333	**9288**	7815	11186	**9500**	11747	24694	9471	**15304**	9250	6333	16736	**11372**	**8**
		LOC. MEAN	**9207**	**8315**	**8688**	**8737**	**8366**	**10536**	**9451**	**9655**	**22600**	**11069**	**14441**	**12560**	**10745**	**16154**	**11627**	
		C.D. (5%)	**1908**	**1194**	**905**	**1834**	**1630**	**1269**	**1664**	**693**	**3746**	**1017**	**2212**	**2028**	**1556**	**3356**	**1429**	
		C.D. (1%)	**2603**	**1629**	**1235**	**2502**	**2224**	**1731**	**2367**	**945**	**5110**	**1387**	**3018**	**2767**	**2123**	**4578**	**1892**	
		C.V. (%)	**12.2**	**8.4**	**6.1**	**12.3**	**11.4**	**7.1**	**7.9**	**4.2**	**9.7**	**5.4**	**9.0**	**9.5**	**8.5**	**12.2**	**14.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.032**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**12.00**	**12.00**	**12.00**	**-**	**14.40**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**-**	

Table I.106: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	48	52	59	**53**	52	58	**55**	56	60	55	**57**	56	45	51	**54**	**9**
2	AHT 502 A	MH 2796	50	54	58	**54**	53	57	**55**	56	59	54	**56**	55	52	50	**54**	**7**
3	AHT 503 A	MH 2797	52	53	59	**54**	51	58	**55**	57	60	56	**58**	55	50	51	**55**	**6**
4	AHT 504 A	MH 2798	52	52	58	**54**	53	57	**55**	59	58	53	**57**	56	47	50	**54**	**8**
5	AHT 505 A	86M84 (Check)	54	53	59	**55**	55	59	**57**	58	66	57	**60**	57	52	50	**56**	**4**
6	AHT 506 A	MH 2806	51	52	59	**54**	52	57	**55**	58	59	54	**57**	54	47	50	**54**	**10**
7	AHT 507 A	MH 2808	57	58	62	**59**	57	60	**59**	59	66	59	**61**	58	52	53	**58**	**1**
8	AHT 508 A	AHB 1200 (Check)	45	41	54	**47**	44	50	**47**	51	49	49	**50**	47	38	44	**47**	**11**
9	AHT 509 A	MP 7878 (Check)	54	53	58	**55**	55	57	**56**	56	59	56	**57**	54	54	52	**55**	**5**
10	AHT 510 A	MH 2878	55	53	59	**56**	56	60	**58**	59	63	57	**60**	57	55	48	**57**	**2**
11	AHT 511 A	KBH 108 (Check)	55	53	61	**56**	54	59	**57**	58	63	56	**59**	58	52	51	**56**	**3**
		LOC. MEAN	**52**	**52**	**59**	**54**	**53**	**57**	**55**	**57**	**60**	**55**	**57**	**55**	**50**	**50**	**55**	
		C.D. (5%)	**2.0**	**1.0**	**2.0**	**3.0**	**2.0**	**3.0**	**2.0**	**1.0**	**1.0**	**1.0**	**3.0**	**3.0**	**2.0**	**1.0**	**1.0**	
		C.D. (1%)	**3.0**	**1.0**	**2.0**	**4.0**	**3.0**	**4.0**	**3.0**	**2.0**	**2.0**	**1.0**	**4.0**	**3.0**	**2.0**	**2.0**	**2.0**	
		C.V. (%)	**2.2**	**1.0**	**1.7**	**2.8**	**2.5**	**3.1**	**1.9**	**1.2**	**1.2**	**0.8**	**2.9**	**2.7**	**2.0**	**1.6**	**2.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.107: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO MATURITY ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	80	83	86	**83**	80	89	**85**	82	89	81	**84**	88	88	94	**86**	**7**
2	AHT 502 A	MH 2796	82	83	87	**84**	81	89	**85**	78	88	80	**82**	87	91	90	**85**	**10**
3	AHT 503 A	MH 2797	84	84	87	**85**	80	91	**85**	79	91	83	**84**	86	90	93	**86**	**6**
4	AHT 504 A	MH 2798	83	83	85	**84**	81	89	**85**	81	87	80	**83**	88	87	93	**85**	**9**
5	AHT 505 A	86M84 (Check)	81	85	87	**84**	83	89	**86**	81	94	83	**86**	89	89	94	**87**	**5**
6	AHT 506 A	MH 2806	86	84	87	**85**	80	87	**84**	82	89	80	**84**	86	87	95	**86**	**8**
7	AHT 507 A	MH 2808	77	86	90	**84**	85	90	**88**	82	96	84	**87**	91	91	94	**88**	**1**
8	AHT 508 A	AHB 1200 (Check)	84	82	80	**82**	73	81	**77**	75	80	75	**77**	79	85	91	**80**	**11**
9	AHT 509 A	MP 7878 (Check)	86	85	86	**86**	83	91	**87**	81	89	82	**84**	86	94	93	**87**	**4**
10	AHT 510 A	MH 2878	85	84	88	**86**	84	90	**87**	82	93	83	**86**	89	94	86	**87**	**3**
11	AHT 511 A	KBH 108 (Check)	86	84	89	**86**	83	90	**86**	83	92	84	**86**	90	93	90	**87**	**2**
		LOC. MEAN	**83**	**84**	**86**	**84**	**81**	**89**	**85**	**81**	**90**	**81**	**84**	**87**	**90**	**92**	**86**	
		C.D. (5%)	**1.0**	**1.0**	**3.0**	**4.0**	**1.0**	**2.0**	**3.0**	**2.0**	**1.0**	**1.0**	**3.0**	**3.0**	**2.0**	**4.0**	**2.0**	
		C.D. (1%)	**1.0**	**1.0**	**4.0**	**5.0**	**2.0**	**2.0**	**4.0**	**2.0**	**2.0**	**1.0**	**4.0**	**5.0**	**2.0**	**5.0**	**2.0**	
		C.V. (%)	**0.8**	**0.7**	**2.1**	**2.7**	**1.0**	**1.2**	**1.4**	**1.3**	**0.8**	**0.5**	**1.9**	**2.3**	**1.2**	**2.4**	**2.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.469**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.108: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PLANT HEIGHT (cm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	227	267	233	**242**	225	212	**219**	226	254	232	**237**	229	192	210	**228**	**9**
2	AHT 502 A	MH 2796	225	260	223	**236**	220	210	**215**	235	259	230	**241**	246	209	215	**230**	**7**
3	AHT 503 A	MH 2797	212	253	238	**235**	220	200	**210**	231	241	223	**232**	216	230	207	**225**	**10**
4	AHT 504 A	MH 2798	215	275	228	**239**	227	217	**222**	242	268	240	**250**	246	218	193	**234**	**6**
5	AHT 505 A	86M84 (Check)	237	263	218	**239**	224	220	**222**	243	266	237	**248**	244	222	212	**235**	**5**
6	AHT 506 A	MH 2806	218	253	208	**227**	226	208	**217**	235	261	235	**244**	257	204	210	**229**	**8**
7	AHT 507 A	MH 2808	242	282	232	**252**	238	232	**235**	238	261	238	**246**	256	225	220	**242**	**4**
8	AHT 508 A	AHB 1200 (Check)	221	230	207	**219**	178	187	**183**	194	225	198	**206**	213	171	190	**201**	**11**
9	AHT 509 A	MP 7878 (Check)	253	277	237	**255**	243	230	**237**	250	280	243	**258**	239	223	213	**244**	**3**
10	AHT 510 A	MH 2878	204	283	243	**244**	254	242	**248**	258	296	265	**273**	266	232	238	**253**	**1**
11	AHT 511 A	KBH 108 (Check)	225	283	248	**252**	231	235	**233**	256	280	252	**263**	247	232	242	**248**	**2**
		LOC. MEAN	**225**	**266**	**229**	**240**	**226**	**217**	**222**	**237**	**263**	**236**	**245**	**242**	**214**	**214**	**234**	
		C.D. (5%)	**16.0**	**9.0**	**36.0**	**21.0**	**17.0**	**12.0**	**13.0**	**6.0**	**8.0**	**7.0**	**7.0**	**21.0**	**4.0**	**13.0**	**8.0**	
		C.D. (1%)	**22.0**	**12.0**	**49.0**	**28.0**	**23.0**	**16.0**	**19.0**	**8.0**	**11.0**	**9.0**	**9.0**	**29.0**	**6.0**	**18.0**	**11.0**	
		C.V. (%)	**4.3**	**1.9**	**9.1**	**5.0**	**4.5**	**3.2**	**2.7**	**1.4**	**1.8**	**1.7**	**1.7**	**5.1**	**1.2**	**3.5**	**4.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.042**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.109: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	1.0	1.0	1.2	**1.1**	1.5	1.7	**1.6**	1.1	1.0	**1.1**	2.6	2.5	3.6	**1.7**	**2**
2	AHT 502 A	MH 2796	1.0	1.3	1.4	**1.2**	1.9	1.6	**1.8**	1.2	1.0	**1.1**	2.3	2.4	3.2	**1.7**	**1**
3	AHT 503 A	MH 2797	1.0	1.0	1.7	**1.2**	1.7	1.8	**1.7**	1.2	1.0	**1.1**	2.8	1.6	2.5	**1.6**	**4**
4	AHT 504 A	MH 2798	1.2	1.0	1.3	**1.2**	1.6	1.3	**1.4**	1.1	1.0	**1.0**	2.1	1.3	2.3	**1.4**	**9**
5	AHT 505 A	86M84 (Check)	1.0	1.0	1.3	**1.1**	1.5	1.5	**1.5**	1.0	1.0	**1.0**	2.5	1.9	3.2	**1.6**	**5**
6	AHT 506 A	MH 2806	1.0	1.0	1.4	**1.1**	1.4	2.3	**1.8**	1.1	1.0	**1.1**	2.3	1.8	3.0	**1.6**	**3**
7	AHT 507 A	MH 2808	1.0	1.0	1.3	**1.1**	1.6	1.5	**1.6**	1.1	1.0	**1.1**	2.4	1.3	2.5	**1.5**	**8**
8	AHT 508 A	AHB 1200 (Check)	1.2	1.7	1.4	**1.4**	1.8	1.0	**1.4**	1.1	1.0	**1.1**	1.9	1.6	3.7	**1.6**	**3**
9	AHT 509 A	MP 7878 (Check)	1.1	1.0	1.3	**1.1**	1.4	1.7	**1.6**	1.1	1.0	**1.1**	2.3	2.0	2.6	**1.6**	**6**
10	AHT 510 A	MH 2878	1.2	1.7	1.4	**1.4**	1.4	2.0	**1.7**	1.2	1.0	**1.1**	2.1	1.7	2.7	**1.6**	**3**
11	AHT 511 A	KBH 108 (Check)	1.0	1.0	1.3	**1.1**	1.4	1.7	**1.6**	1.0	1.0	**1.0**	2.7	1.7	2.5	**1.5**	**7**
		LOC. MEAN	**1.1**	**1.2**	**1.4**	**1.2**	**1.6**	**1.6**	**1.6**	**1.1**	**1.0**	**1.1**	**2.4**	**1.8**	**2.9**	**1.6**	
		C.D. (5%)	**0.2**	**0.5**	**0.2**	**0.3**	**0.2**	**0.5**	**0.7**	**0.1**	**0.0**	**0.1**	**0.6**	**0.4**	**0.5**	**0.2**	
		C.D. (1%)	**0.3**	**0.7**	**0.3**	**0.4**	**0.3**	**0.7**	**1.0**	**0.1**	**0.1**	**0.1**	**0.8**	**0.6**	**0.7**	**0.3**	
		C.V. (%)	**13.3**	**24.4**	**9.4**	**13.8**	**8.6**	**18.4**	**20.5**	**4.5**	**2.5**	**4.5**	**14.7**	**14.2**	**9.9**	**15.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.129**	**0.000**	**0.000**	**0.948**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.110: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PANICLE LENGTH (cm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	29	27	27	**28**	26	25	**26**	24	29	26	**27**	27	25	24	**26**	**6**
2	AHT 502 A	MH 2796	29	25	25	**26**	24	24	**24**	24	26	25	**25**	25	25	27	**25**	**9**
3	AHT 503 A	MH 2797	21	24	21	**22**	22	20	**21**	23	24	22	**23**	23	20	22	**22**	**11**
4	AHT 504 A	MH 2798	25	29	29	**28**	26	25	**26**	25	30	27	**27**	26	25	27	**27**	**5**
5	AHT 505 A	86M84 (Check)	31	31	31	**31**	28	26	**27**	28	32	31	**30**	29	28	29	**29**	**1**
6	AHT 506 A	MH 2806	26	29	30	**28**	26	27	**27**	26	29	30	**28**	27	26	25	**27**	**3**
7	AHT 507 A	MH 2808	36	28	29	**31**	28	27	**27**	27	29	30	**29**	28	27	27	**29**	**2**
8	AHT 508 A	AHB 1200 (Check)	28	26	31	**28**	21	22	**22**	21	26	26	**24**	25	23	27	**25**	**10**
9	AHT 509 A	MP 7878 (Check)	31	28	27	**28**	29	26	**27**	26	27	28	**27**	26	24	27	**27**	**4**
10	AHT 510 A	MH 2878	24	27	27	**26**	27	25	**26**	26	27	25	**26**	26	24	29	**26**	**7**
11	AHT 511 A	KBH 108 (Check)	26	26	26	**26**	25	23	**24**	25	27	27	**26**	26	24	28	**26**	**8**
		LOC. MEAN	**28**	**27**	**28**	**28**	**26**	**25**	**25**	**25**	**28**	**27**	**27**	**26**	**25**	**27**	**26**	
		C.D. (5%)	**2.0**	**2.0**	**0.0**	**4.0**	**2.0**	**2.0**	**2.0**	**1.0**	**1.0**	**1.0**	**2.0**	**3.0**	**1.0**	**2.0**	**1.0**	
		C.D. (1%)	**3.0**	**2.0**	**1.0**	**5.0**	**3.0**	**2.0**	**3.0**	**1.0**	**2.0**	**1.0**	**3.0**	**4.0**	**2.0**	**3.0**	**2.0**	
		C.V. (%)	**3.9**	**3.6**	**1.1**	**8.4**	**5.1**	**4.1**	**3.3**	**2.3**	**2.6**	**1.9**	**4.5**	**6.7**	**3.0**	**4.6**	**5.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.008**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.111: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	3.9	3.4	3.3	**3.5**	3.2	3.4	**3.3**	1.2	4.2	3.4	**3.0**	3.5	2.9	3.8	**3.3**	**3**
2	AHT 502 A	MH 2796	4.0	3.8	4.0	**3.9**	3.3	3.8	**3.6**	1.2	4.3	3.7	**3.1**	4.0	3.2	3.5	**3.5**	**1**
3	AHT 503 A	MH 2797	3.7	3.2	3.1	**3.3**	2.9	3.1	**3.0**	1.0	3.6	3.3	**2.7**	3.5	2.4	3.1	**3.0**	**10**
4	AHT 504 A	MH 2798	3.4	3.7	3.6	**3.6**	3.4	3.6	**3.5**	1.2	4.1	3.7	**3.0**	3.8	3.0	3.1	**3.3**	**2**
5	AHT 505 A	86M84 (Check)	3.7	3.4	3.5	**3.6**	3.2	3.3	**3.2**	1.2	4.0	3.4	**2.9**	3.7	2.7	3.9	**3.3**	**5**
6	AHT 506 A	MH 2806	3.7	3.4	3.5	**3.6**	3.3	3.5	**3.4**	1.1	3.9	3.5	**2.9**	3.6	2.4	3.0	**3.2**	**7**
7	AHT 507 A	MH 2808	3.5	3.3	2.7	**3.1**	3.2	3.3	**3.2**	1.1	3.7	3.5	**2.8**	3.7	2.4	3.1	**3.0**	**9**
8	AHT 508 A	AHB 1200 (Check)	3.4	3.2	3.7	**3.4**	3.1	3.2	**3.2**	1.0	4.0	3.2	**2.7**	3.5	2.2	3.1	**3.1**	**8**
9	AHT 509 A	MP 7878 (Check)	3.6	3.5	3.5	**3.6**	3.4	3.5	**3.5**	1.2	3.9	3.5	**2.9**	3.9	2.4	3.1	**3.2**	**6**
10	AHT 510 A	MH 2878	3.6	3.4	3.5	**3.5**	3.2	3.4	**3.3**	1.2	3.8	3.6	**2.9**	3.7	2.4	3.3	**3.2**	**7**
11	AHT 511 A	KBH 108 (Check)	3.5	3.4	3.6	**3.5**	3.2	3.4	**3.3**	1.2	4.0	3.7	**3.0**	3.7	3.2	3.5	**3.3**	**4**
		LOC. MEAN	**3.6**	**3.4**	**3.4**	**3.5**	**3.2**	**3.4**	**3.3**	**1.2**	**4.0**	**3.5**	**2.9**	**3.7**	**2.7**	**3.3**	**3.2**	
		C.D. (5%)	**0.2**	**0.2**	**0.1**	**0.4**	**0.3**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**	**0.3**	**0.2**	**0.4**	**0.2**	
		C.D. (1%)	**0.3**	**0.3**	**0.1**	**0.5**	**0.4**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**	**0.3**	**0.4**	**0.3**	**0.5**	**0.2**	
		C.V. (%)	**3.2**	**3.4**	**1.2**	**6.0**	**5.3**	**3.1**	**2.4**	**3.8**	**2.8**	**2.4**	**4.3**	**4.3**	**4.2**	**6.2**	**5.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.048**	**0.000**	**0.000**	**0.002**	**0.000**	**0.000**	**0.000**	**0.023**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.112: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 1000-SEED Wt.(g) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	BCR	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	9.7	12.3	11.9	**11.3**	11.7	12.2	**12.0**	9.4	12.6	11.6	9.1	**11.2**	**9**
2	AHT 502 A	MH 2796	10.1	12.0	11.1	**11.1**	11.7	13.2	**12.5**	9.9	10.6	12.0	10.3	**11.2**	**8**
3	AHT 503 A	MH 2797	9.3	11.9	11.4	**10.9**	13.3	12.9	**13.1**	10.0	11.8	11.8	10.5	**11.4**	**6**
4	AHT 504 A	MH 2798	9.0	13.5	13.2	**11.9**	12.5	13.8	**13.1**	11.3	13.7	14.7	10.7	**12.5**	**1**
5	AHT 505 A	86M84 (Check)	9.7	13.1	11.2	**11.3**	11.5	12.1	**11.8**	9.8	12.3	12.4	9.8	**11.3**	**7**
6	AHT 506 A	MH 2806	9.9	12.3	12.0	**11.4**	13.3	13.9	**13.6**	11.6	12.2	12.9	10.5	**12.1**	**2**
7	AHT 507 A	MH 2808	10.3	14.3	12.7	**12.4**	12.5	12.6	**12.6**	10.5	12.9	12.8	9.8	**12.0**	**3**
8	AHT 508 A	AHB 1200 (Check)	8.6	12.5	10.0	**10.4**	11.0	12.9	**11.9**	10.2	11.9	11.0	9.4	**10.8**	**10**
9	AHT 509 A	MP 7878 (Check)	9.5	13.0	11.6	**11.4**	12.4	12.3	**12.4**	10.0	12.6	14.0	9.6	**11.7**	**4**
10	AHT 510 A	MH 2878	7.8	11.6	10.5	**9.9**	10.0	13.5	**11.8**	8.4	10.6	13.2	8.4	**10.4**	**11**
11	AHT 511 A	KBH 108 (Check)	6.9	14.1	12.6	**11.2**	11.2	12.9	**12.0**	9.5	12.4	13.6	10.0	**11.5**	**5**
		LOC. MEAN	**9.2**	**12.8**	**11.6**	**11.2**	**11.9**	**12.9**	**12.4**	**10.1**	**12.1**	**12.7**	**9.8**	**11.5**	
		C.D. (5%)	**0.7**	**0.7**	**1.0**	**1.4**	**0.9**	**1.5**	**1.8**	**1.1**	**1.6**	**0.5**	**0.3**	**0.8**	
		C.D. (1%)	**0.9**	**1.0**	**1.4**	**2.0**	**1.2**	**2.1**	**2.5**	**1.5**	**2.2**	**0.7**	**0.4**	**1.1**	
		C.V. (%)	**4.3**	**3.4**	**5.2**	**7.6**	**4.2**	**7.0**	**6.4**	**6.3**	**7.8**	**2.3**	**1.8**	**6.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.115**	**0.000**	**0.000**	**0.387**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.113: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	AGR2	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	270	161	133	**188**	183	159	**171**	127	159	175	**153**	153	69	164	**159**	**10**
2	AHT 502 A	MH 2796	280	161	214	**218**	196	162	**179**	130	160	178	**156**	160	86	163	**172**	**1**
3	AHT 503 A	MH 2797	234	161	207	**201**	196	158	**177**	133	158	187	**159**	153	94	164	**168**	**5**
4	AHT 504 A	MH 2798	254	162	195	**204**	184	158	**171**	134	158	178	**157**	153	72	164	**165**	**8**
5	AHT 505 A	86M84 (Check)	203	162	182	**182**	192	162	**177**	129	158	168	**151**	140	85	163	**158**	**11**
6	AHT 506 A	MH 2806	242	156	225	**208**	210	165	**188**	130	158	193	**160**	138	107	163	**172**	**2**
7	AHT 507 A	MH 2808	236	160	211	**202**	200	157	**179**	131	156	203	**163**	138	122	162	**171**	**3**
8	AHT 508 A	AHB 1200 (Check)	209	161	225	**198**	204	153	**179**	128	157	183	**156**	149	98	164	**167**	**7**
9	AHT 509 A	MP 7878 (Check)	245	157	222	**208**	202	165	**184**	133	157	175	**155**	144	93	163	**169**	**4**
10	AHT 510 A	MH 2878	210	160	232	**201**	202	163	**183**	133	157	170	**153**	149	92	164	**167**	**6**
11	AHT 511 A	KBH 108 (Check)	250	160	185	**198**	191	153	**172**	131	157	184	**157**	148	65	165	**163**	**9**
		LOC. MEAN	**239**	**160**	**203**	**201**	**196**	**160**	**178**	**131**	**158**	**181**	**157**	**148**	**89**	**164**	**166**	
		C.D. (5%)	**30.0**	**3.0**	**27.0**	**41.0**	**27.0**	**15.0**	**13.0**	**6.0**	**5.0**	**21.0**	**11.0**	**16.0**	**13.0**	**3.0**	**11.0**	
		C.D. (1%)	**41.0**	**4.0**	**36.0**	**55.0**	**37.0**	**21.0**	**18.0**	**8.0**	**7.0**	**28.0**	**15.0**	**22.0**	**18.0**	**4.0**	**15.0**	
		C.V. (%)	**7.3**	**1.0**	**7.7**	**11.9**	**8.0**	**5.5**	**3.2**	**2.5**	**1.8**	**6.7**	**4.1**	**6.4**	**8.8**	**1.1**	**7.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.877**	**0.000**	**0.000**	**0.188**	**0.000**	**0.000**	**0.000**	**0.568**	**0.000**	**0.000**	**0.000**	**0.217**	

Table I.114: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE A

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	RAJ MEAN	JMR	DEG1	GUJ MEAN	ALR	BCR	UP MEAN	HSR	GLR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	77	85	90	**84**	85	83	**84**	87	82	**84**	93	96	87	**86**	**7**
2	AHT 502 A	MH 2796	92	98	90	**93**	84	92	**88**	90	90	**90**	96	100	90	**92**	**1**
3	AHT 503 A	MH 2797	90	32	37	**53**	49	40	**44**	60	78	**69**	93	93	97	**67**	**11**
4	AHT 504 A	MH 2798	90	98	90	**93**	82	92	**87**	90	77	**83**	93	100	98	**91**	**2**
5	AHT 505 A	86M84 (Check)	97	93	90	**93**	82	78	**80**	90	83	**87**	92	100	92	**90**	**3**
6	AHT 506 A	MH 2806	95	83	90	**89**	76	90	**83**	87	85	**86**	94	97	95	**89**	**4**
7	AHT 507 A	MH 2808	88	75	90	**84**	86	88	**87**	80	82	**81**	96	100	94	**88**	**5**
8	AHT 508 A	AHB 1200 (Check)	82	67	87	**78**	46	60	**53**	47	57	**52**	94	100	93	**73**	**10**
9	AHT 509 A	MP 7878 (Check)	80	68	87	**78**	82	83	**83**	80	80	**80**	93	92	93	**84**	**8**
10	AHT 510 A	MH 2878	85	70	90	**82**	83	83	**83**	83	88	**86**	94	97	98	**87**	**6**
11	AHT 511 A	KBH 108 (Check)	93	73	90	**86**	64	73	**69**	77	77	**77**	93	100	93	**83**	**9**
		LOC. MEAN	**88**	**77**	**85**	**83**	**74**	**78**	**76**	**79**	**80**	**79**	**94**	**98**	**94**	**85**	
		C.D. (5%)	**4.0**	**7.0**	**5.0**	**19.0**	**15.0**	**14.0**	**12.0**	**8.0**	**14.0**	**8.0**	**5.0**	**7.0**	**6.0**	**9.0**	
		C.D. (1%)	**6.0**	**10.0**	**7.0**	**26.0**	**20.0**	**19.0**	**17.0**	**11.0**	**19.0**	**11.0**	**7.0**	**10.0**	**8.0**	**12.0**	
		C.V. (%)	**3.0**	**5.4**	**3.6**	**13.7**	**11.8**	**10.3**	**6.9**	**6.2**	**10.2**	**6.2**	**3.2**	**4.2**	**3.5**	**11.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.016**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.115: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 ZONE A
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	JMR	DEG1	ALR	BCR	HSR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	38	52	67	48	53	56	57	69	43	**54**	**2**
2	AHT 502 A	MH 2796	37	41	57	58	44	45	38	67	41	**48**	**4**
3	AHT 503 A	MH 2797	21	29	48	46	33	35	36	39	30	**35**	**10**
4	AHT 504 A	MH 2798	25	34	47	43	34	36	40	54	34	**39**	**7**
5	AHT 505 A	86M84 (Check)	54	48	53	54	42	38	42	61	35	**47**	**5**
6	AHT 506 A	MH 2806	33	36	36	48	35	27	40	41	37	**37**	**9**
7	AHT 507 A	MH 2808	27	32	47	43	36	33	38	48	36	**38**	**8**
8	AHT 508 A	AHB 1200 (Check)	43	66	69	63	64	54	62	94	64	**64**	**1**
9	AHT 509 A	MP 7878 (Check)	31	52	60	59	48	48	45	57	37	**49**	**3**
10	AHT 510 A	MH 2878	26	38	49	51	42	31	39	54	37	**41**	**6**
11	AHT 511 A	KBH 108 (Check)	21	39	49	38	31	29	34	59	33	**37**	**9**

Table I.116: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 ZONE A
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	JPR	JPR1	ALW	JMR	DEG1	ALR	BCR	HSR	LDA	ZONE MEAN	RANK
1	AHT 501 A	86M86 (Check)	32	38	51	43	35	33	32	38	52	**39**	**2**
2	AHT 502 A	MH 2796	27	36	46	42	31	29	28	42	49	**37**	**3**
3	AHT 503 A	MH 2797	26	29	44	37	28	24	26	36	47	**33**	**6**
4	AHT 504 A	MH 2798	26	35	49	39	35	24	26	42	49	**36**	**4**
5	AHT 505 A	86M84 (Check)	30	38	46	41	30	30	25	44	50	**37**	**3**
6	AHT 506 A	MH 2806	26	28	37	41	25	25	25	28	44	**31**	**7**
7	AHT 507 A	MH 2808	28	33	41	37	30	26	27	33	43	**33**	**6**
8	AHT 508 A	AHB 1200 (Check)	34	38	47	49	32	28	33	44	61	**41**	**1**
9	AHT 509 A	MP 7878 (Check)	33	43	49	49	37	35	29	42	53	**41**	**1**
10	AHT 510 A	MH 2878	28	34	44	42	30	25	29	34	44	**34**	**5**
11	AHT 511 A	KBH 108 (Check)	25	31	42	39	21	23	22	36	37	**31**	**7**

Table I.117: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 ZONE A
GRAIN QUALITY (Protein and Fat)

S. No.	TEST CODE	ENTRY	Protein (%)	Fat (%)
			HSR	HSR
1	AHT 501 A	86M86 (Check)	10.5	5.1
2	AHT 502 A	MH 2796	10.0	5.5
3	AHT 503 A	MH 2797	8.8	5.5
4	AHT 504 A	MH 2798	10.3	4.7
5	AHT 505 A	86M84 (Check)	10.0	5.4
6	AHT 506 A	MH 2806	9.0	4.5
7	AHT 507 A	MH 2808	9.5	5.5
8	AHT 508 A	AHB 1200 (Check)	11.5	5.0
9	AHT 509 A	MP 7878 (Check)	9.7	5.3
10	AHT 510 A	MH 2878	11.1	6.8
11	AHT 511 A	KBH 108 (Check)	12.0	5.6

Table I.118: ADVANCE HYBRID TRIAL (Late) KHARIF 2025 EXPERIMENTAL DETAILS ZONE B

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers (kg/ha.)			Insecticide
							N	P	K	
MAHARASHTRA										
Aurangabad (NARP)	MB	7.5	15.7.25	29.10.25	Nil	Nil	60	30	30	Nil
Aurangabad (Ajeet Seed)	M	-	26.7.25	27.10.25	27.8.25	Nil	60	30	30	Nil
Aurangabad (Seed Works)	BCS	-	01.7.25	08.10.25	24.7.25	01.7,12.7.25	80	40	40	Chloropyriphos
Dhule (MPKV)	MB	8.6	01.7.25	11.10.25	24.7.25	Nil	60	30	0	Nil
KARNATAKA										
Vijayapur (UAS, Dharwad)	SB	8.7	09.7.25	04.11.25	19.8.25	Nil	50	25	0	Nil
ANDHRA PRADESH										
Ananthapuram (ANGRAU)	A	6.7	21.7.25	24.10.25	09.8.25	Nil	60	30	20	Nil
TAMIL NADU										
Coimbatore (TNAU)	CL	7.8	02.7.25	10.10.25	Nil	02.7,05.7,07.8,20.8.25	80	40	40	Nil

SB = Shallow Black, MB = Medium Black, CL = Clay Loam, BCS = Black Cotton Soil., M = Medium, A = Alfisols.

Table I.119: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	3942	2844	3648	2486	**3230**	2024	2864	4575	**3198**	4
2	AHT 502 B	MH 2798	4564	2841	4673	4089	**4042**	3168	3542	4647	**3932**	1
3	AHT 503 B	NBH 4903 (Check)	4538	4279	4697	3099	**4153**	2825	2500	4925	**3838**	2
4	AHT 504 B	Kaveri Super Boss (Check)	3033	2494	4065	2511	**3026**	2456	3328	4222	**3159**	5
5	AHT 505 B	MH 2875	3888	3660	3940	3169	**3664**	2421	3136	4439	**3522**	3
6	AHT 506 B	AHB 1200 (Check)	3496	2592	3109	2653	**2963**	2301	2144	3050	**2764**	6
		LOC. MEAN	**3910**	**3118**	**4022**	**3001**	**3513**	**2532**	**2919**	**4310**	**3402**	
		C.D. (5%)	**309**	**763**	**292**	**749**	**628**	**382**	**577**	**573**	**461**	
		C.D. (1%)	**439**	**1086**	**416**	**1065**	**868**	**543**	**820**	**816**	**621**	
		C.V. (%)	**4.3**	**13.5**	**4.0**	**13.7**	**11.9**	**8.3**	**10.9**	**7.3**	**12.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.003**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**12.00**	**12.00**	**8.00**	**11.10**	**-**	**12.00**	**12.00**	**12.00**	**-**	

Table I.120:ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	8083	6976	8701	4024	**6946**	2667	6042	5428	**5989**	4
2	AHT 502 B	MH 2798	8139	5208	11185	6517	**7762**	2972	7136	5022	**6597**	2
3	AHT 503 B	NBH 4903 (Check)	7750	10991	12484	6006	**9308**	3389	5197	7767	**7655**	1
4	AHT 504 B	Kaveri Super Boss (Check)	7111	4848	8049	4264	**6068**	3389	6808	4094	**5509**	5
5	AHT 505 B	MH 2875	6889	7932	8993	5465	**7320**	2917	6456	6303	**6422**	3
6	AHT 506 B	AHB 1200 (Check)	8361	4310	6130	3423	**5556**	2528	4992	3756	**4786**	6
		LOC. MEAN	**7722**	**6711**	**9257**	**4950**	**7160**	**2977**	**6105**	**5395**	**6160**	
		C.D. (5%)	**1243**	**1194**	**1588**	**1444**	**2172**	**642**	**836**	**1058**	**1379**	
		C.D. (1%)	**1768**	**1699**	**2259**	**2054**	**3003**	**913**	**1189**	**1506**	**1857**	
		C.V. (%)	**8.9**	**9.8**	**9.4**	**16.0**	**20.1**	**11.9**	**7.5**	**10.8**	**20.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.030**	**0.000**	**0.000**	**0.000**	**0.005**	
		PLOT SIZE (m^2)	**12.00**	**12.00**	**8.00**	**11.10**	**-**	**12.00**	**12.00**	**12.00**	**-**	

Table I.121: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	56	59	57	53	**56**	53	47	48	**53**	3
2	AHT 502 B	MH 2798	56	60	55	54	**56**	51	47	52	**54**	2
3	AHT 503 B	NBH 4903 (Check)	61	59	61	55	**59**	52	56	57	**57**	1
4	AHT 504 B	Kaveri Super Boss (Check)	51	57	55	56	**55**	49	45	49	**52**	5
5	AHT 505 B	MH 2875	54	58	54	55	**55**	51	46	50	**53**	4
6	AHT 506 B	AHB 1200 (Check)	51	59	51	52	**53**	49	40	46	**50**	6
		LOC. MEAN	**55**	**59**	**56**	**54**	**56**	**51**	**47**	**50**	**53**	
		C.D. (5%)	**2.0**	**2.0**	**1.0**	**2.0**	**3.0**	**0.0**	**3.0**	**2.0**	**2.0**	
		C.D. (1%)	**3.0**	**3.0**	**2.0**	**2.0**	**5.0**	**1.0**	**4.0**	**2.0**	**3.0**	
		C.V. (%)	**2.1**	**1.8**	**1.4**	**1.5**	**3.9**	**0.5**	**3.1**	**1.7**	**4.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.030**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.122: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 DAYS TO MATURITY ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	96	94	84	88	**91**	89	88	80	**88**	**2**
2	AHT 502 B	MH 2798	95	95	82	89	**90**	87	82	85	**88**	**3**
3	AHT 503 B	NBH 4903 (Check)	99	97	90	90	**94**	88	92	90	**92**	**1**
4	AHT 504 B	Kaveri Super Boss (Check)	89	92	82	91	**88**	85	82	82	**86**	**5**
5	AHT 505 B	MH 2875	95	95	82	90	**91**	87	84	83	**88**	**4**
6	AHT 506 B	AHB 1200 (Check)	91	92	77	87	**87**	85	80	79	**84**	**6**
		LOC. MEAN	**94**	**94**	**83**	**89**	**90**	**87**	**85**	**83**	**88**	
		C.D. (5%)	**3.0**	**2.0**	**2.0**	**2.0**	**3.0**	**1.0**	**3.0**	**2.0**	**2.0**	
		C.D. (1%)	**4.0**	**2.0**	**3.0**	**2.0**	**4.0**	**1.0**	**4.0**	**2.0**	**3.0**	
		C.V. (%)	**1.8**	**1.0**	**1.2**	**0.9**	**2.4**	**0.6**	**2.0**	**1.0**	**2.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.004**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.123: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PLANT HEIGHT (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	177	197	240	234	**212**	179	131	177	**191**	**4**
2	AHT 502 B	MH 2798	173	207	257	258	**224**	181	143	189	**201**	**3**
3	AHT 503 B	NBH 4903 (Check)	220	214	270	275	**245**	192	137	205	**216**	**1**
4	AHT 504 B	Kaveri Super Boss (Check)	182	179	223	235	**205**	158	142	169	**184**	**5**
5	AHT 505 B	MH 2875	192	223	250	260	**231**	185	125	184	**203**	**2**
6	AHT 506 B	AHB 1200 (Check)	182	160	213	221	**194**	151	119	165	**173**	**6**
		LOC. MEAN	**188**	**197**	**242**	**247**	**218**	**174**	**133**	**182**	**195**	
		C.D. (5%)	**16.0**	**9.0**	**10.0**	**15.0**	**16.0**	**15.0**	**12.0**	**10.0**	**11.0**	
		C.D. (1%)	**22.0**	**13.0**	**15.0**	**21.0**	**22.0**	**21.0**	**18.0**	**14.0**	**15.0**	
		C.V. (%)	**4.6**	**2.6**	**2.3**	**3.3**	**4.8**	**4.7**	**5.2**	**2.9**	**5.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.124: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE B

S.No.	TEST CODE	ENTRY	ABD1**	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	3.0	1.4	1.9	1.9	**1.7**	2.7	2.3	2.9	**2.2**	**2**
2	AHT 502 B	MH 2798	2.3	1.6	1.5	2.1	**1.7**	2.6	2.4	2.1	**2.0**	**4**
3	AHT 503 B	NBH 4903 (Check)	2.0	1.4	1.4	1.5	**1.4**	2.3	1.5	2.3	**1.7**	**6**
4	AHT 504 B	Kaveri Super Boss (Check)	2.0	1.7	2.1	1.8	**1.9**	2.8	2.4	3.3	**2.4**	**1**
5	AHT 505 B	MH 2875	1.7	1.3	1.9	2.0	**1.7**	2.9	1.8	2.9	**2.1**	**3**
6	AHT 506 B	AHB 1200 (Check)	2.7	1.8	2.1	1.4	**1.7**	2.3	1.9	2.5	**2.0**	**5**
		LOC. MEAN	**2.3**	**1.5**	**1.8**	**1.8**	**1.7**	**2.6**	**2.0**	**2.6**	**2.1**	
		C.D. (5%)	**1.6**	**0.5**	**0.4**	**0.2**	**0.5**	**0.4**	**0.6**	**0.7**	**0.3**	
		C.D. (1%)	**2.3**	**0.7**	**0.6**	**0.3**	**0.7**	**0.6**	**0.9**	**1.0**	**0.4**	
		C.V. (%)	**39.0**	**18.0**	**12.4**	**6.5**	**15.8**	**8.3**	**16.7**	**14.6**	**12.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.551**	**0.000**	**0.000**	**0.000**	**0.012**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e. > 30%): ABD1 39.0%**

Table I.125: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PANICLE LENGTH (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	22	25	26	26	**25**	22	22	24	**24**	**4**
2	AHT 502 B	MH 2798	25	25	29	28	**27**	24	25	26	**26**	**1**
3	AHT 503 B	NBH 4903 (Check)	27	22	26	27	**26**	27	22	25	**25**	**2**
4	AHT 504 B	Kaveri Super Boss (Check)	24	24	23	26	**24**	19	20	22	**23**	**6**
5	AHT 505 B	MH 2875	27	25	27	27	**27**	22	24	24	**25**	**3**
6	AHT 506 B	AHB 1200 (Check)	26	25	23	25	**25**	25	20	22	**24**	**5**
		LOC. MEAN	**25**	**24**	**26**	**27**	**25**	**23**	**22**	**24**	**24**	
		C.D. (5%)	**2.0**	**2.0**	**3.0**	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	
		C.D. (1%)	**2.0**	**3.0**	**4.0**	**2.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.0**	
		C.V. (%)	**3.6**	**4.0**	**6.0**	**3.0**	**6.3**	**5.5**	**5.8**	**5.4**	**6.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.219**	**0.000**	**0.000**	**0.000**	**0.005**	

Table I.126: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	3.4	3.6	3.4	3.5	**3.5**	2.3	2.8	3.1	**3.2**	**6**
2	AHT 502 B	MH 2798	3.6	3.7	3.8	3.8	**3.7**	2.4	3.1	3.6	**3.4**	**1**
3	AHT 503 B	NBH 4903 (Check)	3.4	3.7	3.7	3.6	**3.6**	2.4	2.7	3.7	**3.3**	**2**
4	AHT 504 B	Kaveri Super Boss (Check)	3.5	3.7	3.4	3.5	**3.5**	2.4	3.0	3.5	**3.3**	**3**
5	AHT 505 B	MH 2875	3.2	3.7	3.3	3.7	**3.5**	2.3	2.8	3.3	**3.2**	**5**
6	AHT 506 B	AHB 1200 (Check)	3.3	3.8	3.5	3.5	**3.5**	2.2	2.9	3.4	**3.2**	**4**
		LOC. MEAN	**3.4**	**3.7**	**3.5**	**3.6**	**3.5**	**2.3**	**2.9**	**3.4**	**3.3**	
		C.D. (5%)	**0.2**	**0.2**	**0.3**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**0.1**	
		C.D. (1%)	**0.2**	**0.3**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**	**0.2**	**0.2**	
		C.V. (%)	**2.6**	**3.2**	**4.2**	**2.4**	**3.3**	**2.7**	**4.1**	**2.6**	**3.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.106**	**0.000**	**0.000**	**0.000**	**0.003**	

Table I.127: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 1000 SEED Wt.(g) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	11.7	12.5	10.3	13.2	**11.9**	14.0	12.0	12.7	**12.4**	**5**
2	AHT 502 B	MH 2798	13.7	14.1	14.0	14.8	**14.1**	14.1	13.3	13.2	**13.9**	**1**
3	AHT 503 B	NBH 4903 (Check)	14.7	14.0	14.3	14.3	**14.3**	15.2	11.0	12.6	**13.7**	**2**
4	AHT 504 B	Kaveri Super Boss (Check)	11.8	13.4	9.0	9.5	**10.9**	12.8	12.5	9.8	**11.3**	**6**
5	AHT 505 B	MH 2875	13.6	14.0	11.0	13.3	**13.0**	14.7	11.9	17.1	**13.7**	**3**
6	AHT 506 B	AHB 1200 (Check)	12.5	11.8	10.7	12.5	**11.9**	15.1	10.7	13.7	**12.4**	**4**
		LOC. MEAN	**13.0**	**13.3**	**11.6**	**12.9**	**12.7**	**14.3**	**11.9**	**13.2**	**12.9**	
		C.D. (5%)	**0.8**	**0.7**	**2.0**	**2.2**	**1.5**	**0.3**	**1.0**	**1.7**	**1.4**	
		C.D. (1%)	**1.1**	**1.0**	**2.8**	**3.2**	**2.1**	**0.4**	**1.4**	**2.4**	**1.9**	
		C.V. (%)	**3.2**	**3.0**	**9.3**	**9.4**	**7.9**	**1.1**	**4.7**	**6.9**	**10.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.003**	

Table I.128: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	152	110	103	115	**120**	46	141	94	**109**	**6**
2	AHT 502 B	MH 2798	152	116	95	134	**124**	49	149	140	**119**	**2**
3	AHT 503 B	NBH 4903 (Check)	154	123	102	124	**126**	53	153	119	**118**	**3**
4	AHT 504 B	Kaveri Super Boss (Check)	146	112	101	119	**120**	50	146	91	**109**	**5**
5	AHT 505 B	MH 2875	148	117	104	132	**125**	50	150	151	**122**	**1**
6	AHT 506 B	AHB 1200 (Check)	152	109	102	127	**123**	45	147	123	**115**	**4**
		LOC. MEAN	**151**	**114**	**101**	**125**	**123**	**49**	**148**	**120**	**115**	
		C.D. (5%)	**6.0**	**11.0**	**5.0**	**9.0**	**7.0**	**6.0**	**15.0**	**15.0**	**10.0**	
		C.D. (1%)	**8.0**	**16.0**	**8.0**	**13.0**	**10.0**	**8.0**	**22.0**	**22.0**	**13.0**	
		C.V. (%)	**2.2**	**5.3**	**3.0**	**4.1**	**4.0**	**6.4**	**5.8**	**7.0**	**7.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.377**	**0.000**	**0.000**	**0.000**	**0.056**	

Table I.129: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 SEED SET (%) UNDER BAG ZONE B

S.No.	TEST CODE	ENTRY	ABD1	ABD3	ABD7	DHL	MS MEAN	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	99	93	80	90	**91**	69	73	**84**	**3**
2	AHT 502 B	MH 2798	99	92	92	88	**92**	66	75	**85**	**2**
3	AHT 503 B	NBH 4903 (Check)	99	87	83	99	**92**	52	75	**83**	**4**
4	AHT 504 B	Kaveri Super Boss (Check)	99	62	57	94	**78**	72	48	**72**	**6**
5	AHT 505 B	MH 2875	99	87	88	97	**93**	65	86	**87**	**1**
6	AHT 506 B	AHB 1200 (Check)	99	83	52	86	**80**	69	48	**73**	**5**
		LOC. MEAN	**99**	**84**	**75**	**92**	**88**	**66**	**68**	**81**	
		C.D. (5%)	**2.0**	**6.0**	**12.0**	**7.0**	**14.0**	**12.0**	**8.0**	**13.0**	
		C.D. (1%)	**2.0**	**8.0**	**17.0**	**10.0**	**19.0**	**17.0**	**12.0**	**18.0**	
		C.V. (%)	**0.9**	**3.7**	**8.7**	**4.1**	**10.6**	**9.9**	**6.8**	**11.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.115**	**0.000**	**0.000**	**0.357**	

Table I.130: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 ZONE B
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD3	ABD7	DHL	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	51	46	58	46	62	55	**53**	**2**
2	AHT 502 B	MH 2798	64	39	37	37	39	40	**43**	**5**
3	AHT 503 B	NBH 4903 (Check)	71	49	50	37	43	52	**50**	**3**
4	AHT 504 B	Kaveri Super Boss (Check)	37	43	48	38	44	38	**41**	**6**
5	AHT 505 B	MH 2875	51	50	47	37	43	45	**45**	**4**
6	AHT 506 B	AHB 1200 (Check)	79	57	70	43	64	58	**62**	**1**

Table I.131: ADVANCE HYBRID TRIAL (Late) KHARIF - 2025 ZONE B
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD3	ABD7	DHL	VYP	APR	CBE	ZONE MEAN	RANK
1	AHT 501 B	86M86 (Check)	38	36	37	34	27	44	**36**	**3**
2	AHT 502 B	MH 2798	44	35	35	31	25	40	**35**	**4**
3	AHT 503 B	NBH 4903 (Check)	60	36	38	28	27	49	**40**	**1**
4	AHT 504 B	Kaveri Super Boss (Check)	30	34	33	30	24	38	**32**	**6**
5	AHT 505 B	MH 2875	38	36	35	31	27	39	**34**	**5**
6	AHT 506 B	AHB 1200 (Check)	50	44	42	33	24	41	**39**	**2**

Table I.132: POPULATION TRIAL KHARIF 2025 EXPERIMENTAL DETAILS ZONE A

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizer			Insecticide
							N	P	K	
RAJASTHAN										
Mandor (ARS,AU Jodhpur)	SL	8.1	09.7.25	As Per Maturity	12.8.25	Nil	40	20	0	Nil
Bikaner (SKRAU)	S	8.0	10.7.25	28.10.25	18.8.25	30.9.25	40	20	0	Nil
Jaipur (SKNAU)	SL	-	05.7.25	06.10.25	21.7.25	Nil	40	30	0	Nil
GUJARAT										
Jamnagar (JAU)	MB	7.6	30.6.25	11.10.25	13.7,22.7,28.7.25	10.8.25	80	40	0	Nil
HARYANA										
Hisar (CCSHAU)	SL	-	01.7.25	10.10.25	-	25.7.25	100	40	0	Nil
MADHYA PRADESH										
Gwalior (RVSKVV)	SL	7.1	19.7.25	25.10.25	19.8.25	Nil	60	40	20	Nil
Morena (RVSKVV)	SL	7.8	14.7.25	28.10.25	-	Nil	100	50	20	Nil
PUNJAB										
Ludhiana (PAU)	SL	-	04.7.25	22.11.25	30.7,29.8.25	30.7, 30.8, 01.10.25	100	60	0	Nil
DELHI										
New Delhi (ICAR-IARI)	SL	7.8	27.6.25	21.10.25	-	Nil	60	40	40	Nil

MB = Medium Black, SL = Sandy Loam, S = Sandy.

Table I.133: POPULATION TRIAL KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	MDR***	BKR***	JPR	RAJ MEAN	JMR	HSR***	GLR***	MRN***	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	794	1028	2783	**2783**	3444	1937	2376	2125	3656	2702	**3146**	**1**
2	PT 602 A	MP 653	909	671	2139	**2139**	2046	1469	1629	2131	2696	2843	**2431**	**9**
3	PT 603 A	Pusa Comp. 383 (Check)	556	926	2172	**2172**	2680	1898	2370	2130	2728	2591	**2543**	**6**
4	PT 604 A	MP 654	656	532	2108	**2108**	2425	1397	1740	1961	2508	2200	**2310**	**10**
5	PT 605 A	MP 655	757	402	1406	**1406**	1810	1054	1450	912	2570	2822	**2152**	**12**
6	PT 606 A	Pusa Comp. 701 (Check)	1637	891	2169	**2169**	2411	2114	1966	2061	2895	2305	**2445**	**8**
7	PT 607 A	MP 656	1085	405	1611	**1611**	1370	1602	1199	1899	3163	1817	**1990**	**13**
8	PT 608 A	MP 657	1086	903	1908	**1908**	2653	2121	2726	1954	3147	3048	**2689**	**5**
9	PT 609 A	Dhanshakti (Check)	902	671	1833	**1833**	1669	1302	1097	1820	2381	1798	**1920**	**15**
10	PT 610 A	MP 658	1033	856	2044	**2044**	2345	1832	1909	1808	3624	2132	**2536**	**7**
11	PT 611 A	ICMV 221 (Check)	1194	567	2167	**2167**	1634	1490	1084	1358	2173	1873	**1962**	**14**
12	PT 612 A	MP 659	1008	856	2564	**2564**	2917	1787	2094	2033	2870	3007	**2839**	**3**
13	PT 613 A	JBV 2 (Check)	791	961	2339	**2339**	2442	1610	2017	2071	3117	2985	**2721**	**4**
14	PT 614 A	MP 660	530	486	778	**778**	792	1063	1058	2011	2910	1639	**1529**	**16**
15	PT 615 A	Raj 171 (Check)	608	683	1528	**1528**	1912	1625	1039	2008	2688	2762	**2222**	**11**
16	PT 616 A	MP 661	884	764	2575	**2575**	2902	1588	2106	1983	3603	2835	**2979**	**2**
		LOC. MEAN	**902**	**725**	**2008**	**2008**	**2216**	**1618**	**1741**	**1892**	**2921**	**2460**	**2401**	
		C.D. (5%)	**105**	**158**	**588**	**588**	**528**	**394**	**418**	**294**	**317**	**342**	**516**	
		C.D. (1%)	**142**	**213**	**792**	**792**	**711**	**531**	**563**	**396**	**427**	**460**	**689**	
		C.V. (%)	**7.0**	**13.1**	**17.6**	**17.6**	**14.3**	**14.6**	**14.4**	**9.3**	**6.5**	**8.3**	**15.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**14.40**	**14.40**	**12.00**	**-**	**14.40**	**12.00**	**12.00**	**12.00**	**12.00**	**18.00**	**-**	

*****TEST LOCATION REJECTED DUE TO LOW AVERAGE YIELD (902, 725, 1618, 1741 & 1892 kg/ha), THAN THE STATE AVERAGE YIELD (970, 1992 & 2166 kg/ha) TAKEN OVER 10 YEARS**

Table I.134: POPULATION TRIAL KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	5438	3137	6667	**5080**	8289	6111	13194	5536	**9365**	17078	10163	**8401**	1
2	PT 602 A	MP 653	3887	3241	5944	**4357**	6350	3306	11250	4818	**8034**	14431	7953	**6798**	10
3	PT 603 A	Pusa Comp. 383 (Check)	4125	3009	5667	**4267**	7315	5833	14028	4456	**9242**	13642	11786	**7762**	4
4	PT 604 A	MP 654	3657	3553	7056	**4755**	7269	3056	10500	4277	**7389**	12178	11079	**6958**	9
5	PT 605 A	MP 655	5498	1725	5194	**4139**	5609	5861	5778	2888	**4333**	13708	7720	**5998**	12
6	PT 606 A	Pusa Comp. 701 (Check)	5340	3773	8028	**5714**	7685	4983	10972	5267	**8119**	14239	10697	**7887**	3
7	PT 607 A	MP 656	3877	2639	5167	**3894**	4889	5278	4722	5482	**5102**	14667	7162	**5987**	13
8	PT 608 A	MP 657	4692	4132	5778	**4867**	6731	5833	12639	5429	**9034**	15250	12713	**8133**	2
9	PT 609 A	Dhanshakti (Check)	3850	2627	4361	**3613**	5380	4722	7361	3486	**5424**	11014	6779	**5509**	15
10	PT 610 A	MP 658	1493	2940	5000	**3144**	6387	5972	12500	4463	**8481**	15778	9082	**7068**	8
11	PT 611 A	ICMV 221 (Check)	2313	2477	6722	**3837**	5012	4694	6333	3836	**5085**	11183	7512	**5565**	14
12	PT 612 A	MP 659	2731	3565	5833	**4043**	7708	5972	14306	5199	**9752**	12361	11135	**7646**	6
13	PT 613 A	JBV 2 (Check)	2958	3704	7000	**4554**	6694	4918	13667	5684	**9676**	15328	8954	**7656**	5
14	PT 614 A	MP 660	1118	2569	2750	**2146**	3616	2917	6611	4288	**5450**	13489	5600	**4773**	16
15	PT 615 A	Raj 171 (Check)	5428	3634	4889	**4650**	6204	5194	10833	5139	**7986**	11494	7301	**6680**	11
16	PT 616 A	MP 661	4845	2940	5389	**4391**	6968	4278	10694	5367	**8031**	15294	9589	**7263**	7
		LOC. MEAN	**3828**	**3104**	**5715**	**4216**	**6382**	**4933**	**10337**	**4726**	**7531**	**13821**	**9076**	**6880**	
		C.D. (5%)	**765**	**563**	**1818**	**1603**	**962**	**1104**	**1954**	**415**	**4242**	**2575**	**1478**	**1260**	
		C.D. (1%)	**1030**	**758**	**2448**	**2158**	**1295**	**1487**	**2631**	**558**	**5865**	**3467**	**1990**	**1666**	
		C.V. (%)	**12.0**	**10.9**	**19.1**	**22.8**	**9.0**	**13.4**	**11.3**	**5.3**	**26.4**	**11.2**	**9.8**	**19.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.033**	**0.000**	**0.000**	**0.000**	**0.000**	**0.153**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**14.40**	**14.40**	**12.00**	**-**	**14.40**	**12.00**	**12.00**	**12.00**	**-**	**12.00**	**18.00**	**-**	

Table I.135: POPULATION TRIAL KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	50	53	48	**50**	49	48	47	52	**49**	55	55	**51**	**4**
2	PT 602 A	MP 653	52	51	45	**50**	46	55	41	50	**46**	52	53	**50**	**8**
3	PT 603 A	Pusa Comp. 383 (Check)	53	54	42	**50**	43	50	40	57	**49**	49	48	**49**	**12**
4	PT 604 A	MP 654	44	54	45	**48**	46	54	39	54	**47**	52	51	**49**	**11**
5	PT 605 A	MP 655	49	52	57	**53**	57	55	54	60	**57**	56	67	**56**	**1**
6	PT 606 A	Pusa Comp. 701 (Check)	49	55	44	**49**	44	49	41	54	**48**	51	53	**49**	**10**
7	PT 607 A	MP 656	51	52	51	**51**	51	53	56	60	**58**	55	55	**54**	**2**
8	PT 608 A	MP 657	53	54	44	**51**	47	52	48	45	**46**	51	53	**50**	**7**
9	PT 609 A	Dhanshakti (Check)	50	54	41	**49**	39	50	37	49	**43**	49	47	**46**	**15**
10	PT 610 A	MP 658	46	50	44	**47**	44	51	42	55	**48**	48	50	**48**	**14**
11	PT 611 A	ICMV 221 (Check)	55	50	42	**49**	38	47	35	43	**39**	45	42	**44**	**16**
12	PT 612 A	MP 659	45	54	46	**48**	46	55	41	56	**48**	50	53	**49**	**9**
13	PT 613 A	JBV 2 (Check)	52	50	46	**50**	45	51	47	56	**52**	53	54	**50**	**5**
14	PT 614 A	MP 660	46	52	47	**48**	51	56	52	60	**56**	55	59	**53**	**3**
15	PT 615 A	Raj 171 (Check)	51	50	44	**48**	44	51	47	47	**47**	48	50	**48**	**13**
16	PT 616 A	MP 661	51	54	47	**51**	45	53	46	43	**45**	56	53	**50**	**6**
		LOC. MEAN	**50**	**52**	**46**	**49**	**46**	**52**	**45**	**53**	**49**	**52**	**53**	**50**	
		C.D. (5%)	**2.0**	**1.0**	**2.0**	**6.0**	**1.0**	**4.0**	**2.0**	**2.0**	**9.0**	**1.0**	**2.0**	**3.0**	
		C.D. (1%)	**2.0**	**1.0**	**2.0**	**8.0**	**1.0**	**6.0**	**3.0**	**3.0**	**13.0**	**2.0**	**2.0**	**4.0**	
		C.V. (%)	**2.0**	**1.1**	**2.1**	**6.8**	**1.3**	**5.2**	**2.7**	**2.3**	**9.0**	**1.5**	**2.0**	**6.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.868**	**0.000**	**0.000**	**0.000**	**0.000**	**0.031**	**0.000**	**0.000**	**0.000**	

Table I.136: POPULATION TRIAL KHARIF - 2025 DAYS TO MATURITY ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	80	84	79	**81**	80	77	85	82	**84**	96	86	**83**	**6**
2	PT 602 A	MP 653	83	81	77	**80**	77	83	83	80	**82**	95	85	**83**	**8**
3	PT 603 A	Pusa Comp. 383 (Check)	83	84	74	**80**	74	79	80	83	**82**	90	80	**81**	**12**
4	PT 604 A	MP 654	74	84	75	**78**	77	83	79	83	**81**	92	83	**81**	**10**
5	PT 605 A	MP 655	78	82	85	**82**	87	84	89	85	**87**	100	97	**87**	**1**
6	PT 606 A	Pusa Comp. 701 (Check)	79	85	74	**80**	75	78	81	80	**81**	94	83	**81**	**11**
7	PT 607 A	MP 656	81	82	80	**81**	81	82	92	84	**88**	99	89	**86**	**2**
8	PT 608 A	MP 657	83	85	76	**81**	77	80	85	81	**83**	100	83	**83**	**5**
9	PT 609 A	Dhanshakti (Check)	80	84	73	**79**	69	78	81	84	**83**	94	75	**80**	**13**
10	PT 610 A	MP 658	76	80	74	**77**	74	80	82	81	**81**	89	81	**80**	**14**
11	PT 611 A	ICMV 221 (Check)	85	80	73	**79**	69	76	80	81	**81**	86	75	**78**	**15**
12	PT 612 A	MP 659	75	84	75	**78**	76	84	83	83	**83**	97	86	**83**	**7**
13	PT 613 A	JBV 2 (Check)	82	80	77	**80**	75	81	86	83	**85**	99	85	**83**	**5**
14	PT 614 A	MP 660	76	82	78	**79**	81	85	91	84	**88**	98	89	**85**	**3**
15	PT 615 A	Raj 171 (Check)	81	80	75	**79**	75	80	86	85	**85**	89	82	**81**	**9**
16	PT 616 A	MP 661	81	84	78	**81**	75	82	86	82	**84**	99	83	**83**	**4**
		LOC. MEAN	**80**	**83**	**77**	**80**	**76**	**81**	**84**	**83**	**84**	**95**	**84**	**82**	
		C.D. (5%)	**4.0**	**1.0**	**1.0**	**5.0**	**1.0**	**5.0**	**2.0**	**2.0**	**5.0**	**2.0**	**2.0**	**3.0**	
		C.D. (1%)	**5.0**	**1.0**	**1.0**	**7.0**	**2.0**	**7.0**	**2.0**	**3.0**	**7.0**	**3.0**	**2.0**	**4.0**	
		C.V. (%)	**2.7**	**0.8**	**0.9**	**3.8**	**0.9**	**3.7**	**1.1**	**1.7**	**2.8**	**1.2**	**1.1**	**3.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.799**	**0.000**	**0.000**	**0.000**	**0.000**	**0.069**	**0.000**	**0.000**	**0.000**	

Table I.137: POPULATION TRIAL KHARIF - 2025 PLANT HEIGHT (cm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	186	173	209	**190**	229	262	213	176	**194**	200	258	**212**	**10**
2	PT 602 A	MP 653	194	172	211	**192**	243	247	207	231	**219**	190	263	**217**	**6**
3	PT 603 A	Pusa Comp. 383 (Check)	192	182	218	**197**	237	281	221	200	**211**	232	259	**224**	**2**
4	PT 604 A	MP 654	188	157	246	**197**	235	248	211	186	**199**	205	241	**213**	**8**
5	PT 605 A	MP 655	176	138	186	**167**	203	213	186	158	**172**	153	233	**183**	**14**
6	PT 606 A	Pusa Comp. 701 (Check)	199	187	269	**218**	247	329	222	226	**224**	197	256	**237**	**1**
7	PT 607 A	MP 656	183	142	171	**165**	207	221	181	149	**165**	148	228	**181**	**15**
8	PT 608 A	MP 657	197	178	212	**196**	233	282	225	201	**213**	190	253	**219**	**5**
9	PT 609 A	Dhanshakti (Check)	196	158	202	**185**	201	240	187	181	**184**	160	239	**196**	**12**
10	PT 610 A	MP 658	154	172	239	**188**	218	288	222	168	**195**	200	257	**213**	**7**
11	PT 611 A	ICMV 221 (Check)	181	165	202	**183**	188	237	164	176	**170**	173	231	**191**	**13**
12	PT 612 A	MP 659	176	150	214	**180**	246	259	270	199	**234**	213	269	**222**	**3**
13	PT 613 A	JBV 2 (Check)	180	180	215	**192**	237	266	226	207	**217**	203	261	**220**	**4**
14	PT 614 A	MP 660	146	110	138	**131**	237	254	133	163	**148**	145	167	**166**	**16**
15	PT 615 A	Raj 171 (Check)	180	180	199	**187**	222	271	218	194	**206**	192	251	**212**	**9**
16	PT 616 A	MP 661	200	158	204	**187**	206	244	213	201	**207**	167	231	**203**	**11**
		LOC. MEAN	**183**	**163**	**209**	**185**	**224**	**259**	**206**	**189**	**197**	**186**	**244**	**207**	
		C.D. (5%)	**18.0**	**15.0**	**14.0**	**25.0**	**28.0**	**40.0**	**4.0**	**10.0**	**40.0**	**10.0**	**16.0**	**15.0**	
		C.D. (1%)	**24.0**	**21.0**	**18.0**	**34.0**	**38.0**	**53.0**	**6.0**	**14.0**	**55.0**	**14.0**	**22.0**	**20.0**	
		C.V. (%)	**5.9**	**5.7**	**3.9**	**8.3**	**7.5**	**9.2**	**1.3**	**3.3**	**9.5**	**3.3**	**4.0**	**8.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.014**	**0.000**	**0.000**	**0.000**	

Table I.138: POPULATION TRIAL KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A

S.No.	TEST CODE	ENTRY	MDR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	2.5	1.0	**1.8**	2.4	3.3	2.2	4.8	**3.5**	3.0	2.9	**2.8**	**4**
2	PT 602 A	MP 653	2.4	1.0	**1.7**	2.5	3.5	1.7	4.9	**3.3**	1.7	2.9	**2.6**	**11**
3	PT 603 A	Pusa Comp. 383 (Check)	2.5	1.1	**1.8**	3.1	3.3	2.0	4.2	**3.1**	1.7	2.9	**2.6**	**10**
4	PT 604 A	MP 654	2.5	1.1	**1.8**	2.8	3.1	1.8	3.4	**2.6**	2.6	2.9	**2.5**	**13**
5	PT 605 A	MP 655	2.5	1.4	**1.9**	2.3	2.9	2.7	3.5	**3.1**	1.6	2.9	**2.5**	**14**
6	PT 606 A	Pusa Comp. 701 (Check)	3.3	1.1	**2.2**	3.9	3.7	2.0	3.5	**2.8**	1.6	2.7	**2.7**	**5**
7	PT 607 A	MP 656	2.9	1.0	**2.0**	2.3	3.1	1.0	3.3	**2.2**	1.3	2.8	**2.2**	**16**
8	PT 608 A	MP 657	2.4	1.1	**1.8**	3.1	3.0	1.6	5.5	**3.5**	3.1	2.7	**2.8**	**2**
9	PT 609 A	Dhanshakti (Check)	2.1	1.1	**1.6**	2.7	2.8	2.4	4.5	**3.5**	2.6	2.9	**2.6**	**8**
10	PT 610 A	MP 658	2.3	1.1	**1.7**	2.8	2.9	1.1	3.8	**2.5**	2.2	2.9	**2.4**	**15**
11	PT 611 A	ICMV 221 (Check)	2.3	2.1	**2.2**	3.1	2.9	2.0	3.8	**2.9**	3.3	2.9	**2.8**	**3**
12	PT 612 A	MP 659	2.4	1.0	**1.7**	3.5	3.1	2.5	4.7	**3.6**	1.6	2.9	**2.7**	**6**
13	PT 613 A	JBV 2 (Check)	2.1	1.0	**1.5**	3.4	3.0	2.0	3.5	**2.8**	3.2	2.9	**2.6**	**9**
14	PT 614 A	MP 660	1.4	1.9	**1.6**	3.6	3.4	2.7	3.8	**3.3**	3.2	2.8	**2.8**	**1**
15	PT 615 A	Raj 171 (Check)	1.1	1.0	**1.1**	4.0	4.0	2.5	4.1	**3.3**	2.3	2.6	**2.7**	**7**
16	PT 616 A	MP 661	2.7	1.1	**1.9**	2.8	2.9	1.8	4.2	**3.0**	2.0	2.9	**2.6**	**12**
		LOC. MEAN	**2.3**	**1.2**	**1.8**	**3.0**	**3.2**	**2.0**	**4.1**	**3.1**	**2.3**	**2.8**	**2.6**	
		C.D. (5%)	**0.2**	**0.2**	**0.2**	**0.7**	**1.0**	**0.3**	**0.4**	**0.8**	**0.5**	**0.4**	**0.6**	
		C.D. (1%)	**0.2**	**0.3**	**0.2**	**1.0**	**1.4**	**0.3**	**0.5**	**1.1**	**0.7**	**0.6**	**0.7**	
		C.V. (%)	**4.4**	**12.0**	**4.4**	**14.7**	**19.6**	**7.6**	**5.7**	**15.0**	**13.2**	**9.2**	**20.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.245**	**0.000**	**0.000**	**0.493**	

Table I.139: POPULATION TRIAL KHARIF - 2025 PANICLE LENGTH (cm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	20	19	31	**23**	29	29	27	27	**27**	23	23	**25**	**4**
2	PT 602 A	MP 653	19	24	20	**21**	33	28	25	26	**26**	24	28	**25**	**6**
3	PT 603 A	Pusa Comp. 383 (Check)	20	27	22	**23**	31	28	26	25	**26**	25	25	**25**	**7**
4	PT 604 A	MP 654	22	20	26	**23**	25	24	23	26	**25**	21	26	**24**	**11**
5	PT 605 A	MP 655	24	19	19	**21**	22	24	19	19	**19**	21	20	**21**	**15**
6	PT 606 A	Pusa Comp. 701 (Check)	21	24	26	**24**	28	34	25	28	**27**	26	26	**26**	**3**
7	PT 607 A	MP 656	24	21	21	**22**	24	24	24	23	**24**	22	22	**23**	**13**
8	PT 608 A	MP 657	21	23	24	**23**	27	30	30	25	**28**	22	24	**25**	**8**
9	PT 609 A	Dhanshakti (Check)	17	21	27	**22**	23	25	22	24	**23**	25	28	**24**	**12**
10	PT 610 A	MP 658	22	24	34	**27**	27	32	23	26	**25**	24	25	**26**	**2**
11	PT 611 A	ICMV 221 (Check)	16	22	20	**19**	19	25	18	21	**19**	21	22	**20**	**16**
12	PT 612 A	MP 659	22	25	26	**24**	29	31	25	27	**26**	21	21	**25**	**9**
13	PT 613 A	JBV 2 (Check)	18	26	25	**23**	28	27	26	27	**26**	26	27	**25**	**5**
14	PT 614 A	MP 660	19	17	23	**20**	24	31	21	20	**21**	21	21	**22**	**14**
15	PT 615 A	Raj 171 (Check)	20	28	30	**26**	31	28	29	27	**28**	25	27	**27**	**1**
16	PT 616 A	MP 661	19	22	24	**22**	24	26	25	26	**26**	24	25	**24**	**10**
		LOC. MEAN	**20**	**23**	**25**	**23**	**27**	**28**	**24**	**25**	**25**	**23**	**24**	**24**	
		C.D. (5%)	**2.0**	**4.0**	**2.0**	**5.0**	**3.0**	**7.0**	**1.0**	**2.0**	**3.0**	**1.0**	**2.0**	**2.0**	
		C.D. (1%)	**2.0**	**5.0**	**3.0**	**7.0**	**4.0**	**9.0**	**2.0**	**3.0**	**5.0**	**2.0**	**3.0**	**3.0**	
		C.V. (%)	**4.6**	**10.2**	**4.9**	**14.0**	**6.0**	**15.0**	**2.9**	**5.8**	**6.3**	**3.9**	**4.8**	**9.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.297**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.140: POPULATION TRIAL KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	1.4	2.8	2.9	**2.4**	3.2	3.6	2.2	1.1	**1.7**	2.4	3.0	**2.5**	**8**
2	PT 602 A	MP 653	2.2	2.6	2.5	**2.4**	3.3	3.0	2.5	1.1	**1.8**	2.4	2.6	**2.5**	**10**
3	PT 603 A	Pusa Comp. 383 (Check)	1.8	2.3	2.7	**2.3**	2.6	3.2	2.3	1.0	**1.7**	2.9	2.5	**2.4**	**13**
4	PT 604 A	MP 654	1.7	2.7	2.9	**2.5**	3.1	3.4	2.5	1.1	**1.8**	2.6	3.1	**2.6**	**1**
5	PT 605 A	MP 655	2.0	3.0	2.7	**2.6**	2.8	3.0	1.9	1.0	**1.5**	2.8	2.7	**2.4**	**11**
6	PT 606 A	Pusa Comp. 701 (Check)	2.3	2.2	2.9	**2.4**	2.7	2.9	2.5	1.0	**1.8**	2.6	2.5	**2.4**	**12**
7	PT 607 A	MP 656	2.4	2.7	2.4	**2.5**	2.9	2.9	2.5	1.0	**1.8**	3.0	3.1	**2.6**	**2**
8	PT 608 A	MP 657	2.4	2.7	2.8	**2.6**	3.1	3.1	2.0	1.0	**1.5**	3.1	2.6	**2.5**	**4**
9	PT 609 A	Dhanshakti (Check)	2.2	2.2	2.8	**2.4**	2.7	3.3	2.2	1.1	**1.7**	2.9	2.5	**2.4**	**11**
10	PT 610 A	MP 658	2.2	2.6	2.4	**2.4**	3.5	2.8	2.3	1.0	**1.6**	2.9	3.1	**2.5**	**5**
11	PT 611 A	ICMV 221 (Check)	2.4	2.7	2.9	**2.7**	2.9	3.2	1.5	1.0	**1.2**	3.3	2.6	**2.5**	**9**
12	PT 612 A	MP 659	2.1	2.3	3.2	**2.5**	3.0	3.3	2.3	1.1	**1.7**	2.6	2.8	**2.5**	**7**
13	PT 613 A	JBV 2 (Check)	2.2	2.3	2.4	**2.3**	2.8	3.2	2.5	1.0	**1.8**	3.0	3.2	**2.5**	**6**
14	PT 614 A	MP 660	1.6	2.1	2.2	**2.0**	3.1	3.0	2.2	0.9	**1.6**	2.8	2.3	**2.2**	**14**
15	PT 615 A	Raj 171 (Check)	2.2	1.9	2.4	**2.2**	2.0	2.9	1.5	0.9	**1.2**	3.1	2.1	**2.1**	**15**
16	PT 616 A	MP 661	2.3	2.4	2.9	**2.5**	2.9	3.0	2.5	1.0	**1.7**	3.2	2.8	**2.5**	**3**
		LOC. MEAN	**2.1**	**2.5**	**2.7**	**2.4**	**2.9**	**3.1**	**2.2**	**1.0**	**1.6**	**2.8**	**2.7**	**2.5**	
		C.D. (5%)	**0.1**	**0.3**	**0.2**	**0.5**	**0.3**	**0.5**	**0.2**	**0.1**	**0.5**	**0.5**	**0.4**	**0.2**	
		C.D. (1%)	**0.2**	**0.4**	**0.3**	**0.6**	**0.4**	**0.7**	**0.3**	**0.1**	**0.7**	**0.7**	**0.5**	**0.3**	
		C.V. (%)	**4.0**	**7.5**	**4.3**	**11.6**	**5.5**	**10.0**	**5.5**	**6.4**	**13.7**	**11.4**	**8.9**	**10.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.289**	**0.000**	**0.000**	**0.000**	**0.000**	**0.234**	**0.000**	**0.000**	**0.017**	

Table I.141: POPULATION TRIAL KHARIF - 2025 1000-SEED Wt.(g) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	8.3	11.6	7.7	**9.2**	10.9	11.5	9.9	8.4	**9.2**	8.4	9.2	**9.5**	**4**
2	PT 602 A	MP 653	9.3	8.9	7.4	**8.5**	9.7	9.1	8.9	7.1	**8.0**	10.1	10.0	**9.0**	**9**
3	PT 603 A	Pusa Comp. 383 (Check)	8.5	8.6	7.2	**8.1**	10.4	10.1	9.6	7.5	**8.5**	8.4	9.3	**8.8**	**11**
4	PT 604 A	MP 654	9.3	11.8	8.8	**10.0**	10.0	12.9	9.2	6.4	**7.8**	8.4	8.5	**9.5**	**5**
5	PT 605 A	MP 655	7.4	11.9	7.3	**8.9**	7.6	7.3	7.4	6.5	**6.9**	7.5	8.6	**7.9**	**15**
6	PT 606 A	Pusa Comp. 701 (Check)	8.4	8.6	7.8	**8.2**	9.3	10.4	11.2	9.7	**10.4**	7.6	9.3	**9.1**	**8**
7	PT 607 A	MP 656	6.6	11.6	6.3	**8.1**	8.2	8.0	7.6	7.4	**7.5**	8.6	9.3	**8.2**	**14**
8	PT 608 A	MP 657	9.1	9.5	9.8	**9.4**	11.4	10.0	9.0	8.4	**8.7**	8.3	9.1	**9.4**	**6**
9	PT 609 A	Dhanshakti (Check)	8.3	11.0	10.7	**10.0**	11.5	12.1	11.1	8.8	**9.9**	8.3	9.0	**10.1**	**1**
10	PT 610 A	MP 658	9.4	9.0	10.4	**9.6**	9.6	10.0	8.9	7.5	**8.2**	8.5	9.0	**9.1**	**7**
11	PT 611 A	ICMV 221 (Check)	8.1	10.4	11.3	**9.9**	11.6	12.8	10.2	8.1	**9.2**	9.2	8.4	**10.0**	**2**
12	PT 612 A	MP 659	8.5	10.2	10.0	**9.6**	10.1	12.3	8.5	9.4	**9.0**	8.4	9.1	**9.6**	**3**
13	PT 613 A	JBV 2 (Check)	7.5	8.2	8.4	**8.0**	8.8	9.4	10.0	9.3	**9.6**	8.2	8.6	**8.7**	**13**
14	PT 614 A	MP 660	8.7	8.1	6.4	**7.7**	7.6	9.2	6.5	8.4	**7.5**	7.9	7.0	**7.8**	**16**
15	PT 615 A	Raj 171 (Check)	8.5	9.5	9.5	**9.1**	8.6	8.9	8.7	8.4	**8.5**	8.0	9.1	**8.8**	**12**
16	PT 616 A	MP 661	8.7	8.6	9.3	**8.8**	9.7	9.0	8.9	8.7	**8.8**	8.2	9.1	**8.9**	**10**
		LOC. MEAN	**8.4**	**9.8**	**8.6**	**9.0**	**9.7**	**10.2**	**9.1**	**8.1**	**8.6**	**8.4**	**8.9**	**9.0**	
		C.D. (5%)	**0.4**	**1.3**	**0.7**	**2.1**	**1.2**	**2.6**	**0.8**	**0.5**	**1.9**	**0.4**	**0.6**	**1.0**	
		C.D. (1%)	**0.5**	**1.8**	**1.0**	**2.8**	**1.6**	**3.5**	**1.1**	**0.6**	**2.6**	**0.5**	**0.8**	**1.3**	
		C.V. (%)	**2.6**	**8.1**	**5.2**	**14.0**	**7.5**	**15.4**	**5.6**	**3.5**	**10.2**	**2.7**	**3.8**	**11.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.396**	**0.000**	**0.000**	**0.000**	**0.000**	**0.056**	**0.000**	**0.000**	**0.000**	

Table I.142: POPULATION TRIAL KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	136	135	133	**135**	193	150	126	134	**130**	162	152	**147**	9
2	PT 602 A	MP 653	140	135	199	**158**	191	142	117	138	**127**	164	156	**154**	4
3	PT 603 A	Pusa Comp. 383 (Check)	140	130	186	**152**	188	151	146	133	**140**	163	153	**154**	2
4	PT 604 A	MP 654	118	138	185	**147**	181	149	117	122	**119**	163	155	**148**	8
5	PT 605 A	MP 655	112	135	116	**121**	194	153	127	120	**124**	165	155	**142**	12
6	PT 606 A	Pusa Comp. 701 (Check)	128	142	213	**161**	200	160	135	142	**139**	164	153	**160**	1
7	PT 607 A	MP 656	128	134	119	**127**	203	157	92	125	**109**	162	160	**142**	11
8	PT 608 A	MP 657	102	135	138	**125**	199	156	133	130	**132**	164	158	**146**	10
9	PT 609 A	Dhanshakti (Check)	104	130	120	**118**	190	150	120	135	**128**	163	159	**141**	14
10	PT 610 A	MP 658	87	133	192	**138**	183	160	131	130	**130**	163	158	**149**	7
11	PT 611 A	ICMV 221 (Check)	91	133	155	**126**	197	145	108	135	**122**	162	155	**142**	11
12	PT 612 A	MP 659	75	132	119	**109**	184	160	147	138	**142**	162	159	**142**	13
13	PT 613 A	JBV 2 (Check)	99	132	234	**155**	187	148	132	135	**134**	164	159	**154**	3
14	PT 614 A	MP 660	101	128	120	**116**	169	150	29	134	**81**	162	156	**128**	15
15	PT 615 A	Raj 171 (Check)	129	130	240	**166**	165	148	87	137	**112**	164	157	**151**	5
16	PT 616 A	MP 661	146	128	154	**142**	200	146	110	140	**125**	165	154	**149**	6
		LOC. MEAN	**115**	**133**	**164**	**137**	**189**	**152**	**116**	**133**	**125**	**163**	**156**	**147**	
		C.D. (5%)	**7.0**	**8.0**	**17.0**	**44.0**	**23.0**	**17.0**	**26.0**	**12.0**	**44.0**	**3.0**	**7.0**	**18.0**	
		C.D. (1%)	**10.0**	**10.0**	**24.0**	**59.0**	**31.0**	**23.0**	**35.0**	**16.0**	**61.0**	**3.0**	**9.0**	**23.0**	
		C.V. (%)	**3.9**	**3.4**	**6.4**	**19.2**	**7.4**	**6.9**	**13.5**	**5.5**	**16.6**	**0.9**	**2.5**	**12.9**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.227**	**0.000**	**0.000**	**0.000**	**0.000**	**0.482**	**0.000**	**0.000**	**0.151**	

Table I.143: POPULATION TRIAL KHARIF - 2025 GRAIN QUALITY: IRON CONTENT (ppm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JMR	HSR	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	36	52	37	55	65	43	60	**50**	**5**
2	PT 603 A	Pusa Comp. 383 (Check)	36	52	39	61	57	48	75	**53**	**3**
3	PT 606 A	Pusa Comp. 701 (Check)	38	42	40	56	59	45	56	**48**	**7**
4	PT 608 A	MP 657	39	46	37	54	64	48	55	**49**	**6**
5	PT 609 A	Dhanshakti (Check)	41	69	69	86	69	53	65	**65**	**1**
6	PT 611 A	ICMV 221 (Check)	34	59	67	76	74	53	61	**60**	**2**
7	PT 612 A	MP 659	38	47	38	65	67	43	74	**53**	**3**
8	PT 613 A	JBV 2 (Check)	31	52	39	50	67	42	66	**50**	**5**
9	PT 615 A	Raj 171 (Check)	41	42	42	51	56	35	57	**46**	**8**
10	PT 616 A	MP 661	38	56	38	53	66	34	71	**51**	**4**

Table I.144: POPULATION TRIAL KHARIF - 2025 GRAIN QUALITY: ZINC CONTENT (ppm) ZONE A

S.No.	TEST CODE	ENTRY	MDR	BKR	JPR	JMR	HSR	LDA	NDL	ZONE MEAN	RANK
1	PT 601 A	MP 652	31	60	32	47	53	54	35	**44**	**6**
2	PT 603 A	Pusa Comp. 383 (Check)	31	59	35	50	49	62	48	**48**	**3**
3	PT 606 A	Pusa Comp. 701 (Check)	36	57	31	48	50	56	32	**44**	**6**
4	PT 608 A	MP 657	37	54	34	46	53	58	38	**46**	**4**
5	PT 609 A	Dhanshakti (Check)	34	71	46	62	55	61	34	**52**	**1**
6	PT 611 A	ICMV 221 (Check)	34	67	40	56	51	65	33	**49**	**2**
7	PT 612 A	MP 659	35	54	35	48	56	55	41	**46**	**4**
8	PT 613 A	JBV 2 (Check)	31	60	38	44	55	50	40	**45**	**5**
9	PT 615 A	Raj 171 (Check)	37	60	33	45	52	51	32	**44**	**6**
10	PT 616 A	MP 661	33	55	31	45	57	42	31	**42**	**7**

Table I.145: POPULATION TRIAL KHARIF 2025 ZONE A
GRAIN QUALITY(Protein and Fat)

S.No.	TEST CODE	ENTRY	Protein (%)	Fat (%)
			HSR	HSR
1	PT 601 A	MP 652	10.5	6.0
2	PT 602 A	MP 653	10.7	5.9
3	PT 603 A	Pusa Comp. 383 (Check)	10.5	6.2
4	PT 604 A	MP 654	11.0	5.7
5	PT 605 A	MP 655	9.9	5.4
6	PT 606 A	Pusa Comp. 701 (Check)	11.5	5.8
7	PT 607 A	MP 656	11.5	5.9
8	PT 608 A	MP 657	10.7	5.3
9	PT 609 A	Dhanshakti (Check)	10.7	6.1
10	PT 610 A	MP 658	9.6	5.1
11	PT 611 A	ICMV 221 (Check)	9.6	6.0
12	PT 612 A	MP 659	11.3	5.2
13	PT 613 A	JBV 2 (Check)	9.4	5.1
14	PT 614 A	MP 660	10.1	5.9
15	PT 615 A	Raj 171 (Check)	11.0	5.4
16	PT 616 A	MP 661	11.5	5.6

Table I.146: POPULATION TRIAL KHARIF 2025 EXPERIMENTAL DETAILS ZONE B

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizer			Insecticide
							N	P	K	
MAHARASHTRA										
Aurangabad (NARP)	MB	7.5	16.7.25	30.10.25	-	Nil	60	30	30	Nil
Dhule (MPKV)	MB	8.6	01.7.25	11.10.25	24.7.25	Nil	60	30	0	Nil
KARNATAKA										
Vijayapur (UAS, Dharwad)	SB	8.7	29.6.25	03.11.25	18.8.25	Nil	50	25	0	Nil
ANDHRA PRADESH										
Ananthapuram (ANGRAU)	A	6.7	21.7.25	24.10.25	29.8.25	Nil	60	30	20	Nil
Perumallapalle (ANGRAU)	SCL	-	02.7.25	01.10.25	-	Nil	60	40	30	Nil
Vizianagaram (ANGRAU)	RSL	6.7	12.7.25	05.7.25	29.7.25	Nil	60	40	30	Nil
TELANGANA										
Palem (PJTSAU)	RSL	7.0	20.7.25	01.11.25	22.8,06.9.25	Nil	60	40	40	Nil
TAMIL NADU										
Coimbatore (TNAU)	CL	7.8	02.7.25	10.10.25	-	02.7,05.7,07.8,20.8.25	105	35	35	Nil
ODISHA										
Semiliguda (OUAT)	SL	-	19.7.25	-	-	Nil	60	30	30	Nil

MB = Medium Black, CL = Clay Loam, SB = Shallow Black, RSL = Red Sandy Loam, SL= Sandy Loam, SCL = Sandy Clay Loam, A = Alfisols.

Table I.147: POPULATION TRIAL KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	1900	1587	**1744**	1480	2797	2337	2777	**2637**	2753	2875	1142	**2183**	**10**
2	PT 602 B	MP 652	2658	2162	**2410**	2057	2894	3017	1854	**2588**	3404	3722	1669	**2604**	**1**
3	PT 603 B	MP 653	1712	1621	**1666**	1549	2167	2934	2359	**2486**	2756	3039	1117	**2139**	**12**
4	PT 604 B	MP 654	2188	1745	**1966**	1589	2842	2728	1901	**2490**	2958	2914	1289	**2239**	**9**
5	PT 605 B	Dhanshakti (Check)	1201	1436	**1319**	1386	1307	2674	2458	**2146**	1768	2433	739	**1711**	**15**
6	PT 606 B	MP 655	1139	1554	**1347**	1595	1622	1295	1829	**1582**	2692	2922	700	**1705**	**16**
7	PT 607 B	MP 656	1866	1365	**1616**	1079	2000	560	3158	**1906**	2289	1972	522	**1646**	**17**
8	PT 608 B	ICMV 155 (Check)	3289	1726	**2508**	1249	2650	2955	3261	**2956**	2676	3506	1269	**2509**	**4**
9	PT 609 B	MP 657	1951	1690	**1821**	1516	2596	3516	3063	**3058**	2343	3903	1875	**2495**	**7**
10	PT 610 B	ICMV 221 (Check)	887	1572	**1230**	1303	1354	1657	2312	**1774**	1822	2594	458	**1551**	**18**
11	PT 611 B	Raj 171 (Check)	1925	1623	**1774**	1273	2572	3139	1972	**2561**	1843	2997	1144	**2054**	**13**
12	PT 612 B	MP 647	2326	1820	**2073**	2690	3300	2612	2179	**2697**	3656	3675	1127	**2598**	**2**
13	PT 613 B	MP 648	2987	1939	**2463**	1622	2625	3470	2605	**2900**	2719	3333	1169	**2497**	**6**
14	PT 614 B	MP 658	2977	1957	**2467**	1859	2293	3657	2434	**2795**	2504	3411	1244	**2482**	**8**
15	PT 615 B	MP 659	3268	2074	**2671**	1525	2788	2858	3025	**2890**	2497	3817	1278	**2570**	**3**
16	PT 616 B	ABV 04 (Check)	2468	2087	**2278**	2478	3293	3008	2302	**2868**	2415	3433	1008	**2499**	**5**
17	PT 617 B	MP 660	1323	-	**1323**	996	919	484	2062	**1155**	2169	675	425	**1132**	**19**
18	PT 618 B	Pusa Comp. 612 (Check)	2481	1844	**2162**	1899	2014	1576	2190	**1927**	1619	3178	1086	**1987**	**14**
19	PT 619 B	MP 661	2856	1480	**2168**	1414	2833	2356	1919	**2369**	1881	3650	889	**2142**	**11**
		LOC. MEAN	**2179**	**1738**	**1959**	**1608**	**2361**	**2465**	**2403**	**2410**	**2461**	**3055**	**1061**	**2148**	
		C.D. (5%)	**324**	**376**	**891**	**347**	**460**	**611**	**631**	**988**	**478**	**441**	**289**	**410**	
		C.D. (1%)	**435**	**505**	**1224**	**465**	**617**	**819**	**847**	**1325**	**641**	**591**	**387**	**541**	
		C.V. (%)	**9.0**	**13.0**	**21.3**	**13.0**	**11.8**	**15.0**	**15.9**	**24.8**	**11.7**	**8.7**	**16.4**	**20.0**	
		F (Prob)	**0.000**	**0.000**	**0.057**	**0.000**	**0.000**	**0.000**	**0.000**	**0.015**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**12.00**	**-**	

Table I.148: POPULATION TRIAL KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	ZONE MEAN	RANK
1	PT 601 B	MP 640	4722	2793	**3758**	2139	6178	10622	5870	**7557**	6147	5083	**5444**	**10**
2	PT 602 B	MP 652	5333	4234	**4784**	2944	8386	10120	4741	**7749**	7619	5203	**6073**	**2**
3	PT 603 B	MP 653	4611	3183	**3897**	2167	6997	10088	5814	**7633**	6173	6292	**5666**	**9**
4	PT 604 B	MP 654	4972	2613	**3792**	2194	7381	7143	4530	**6351**	6662	3806	**4912**	**13**
5	PT 605 B	Dhanshakti (Check)	5750	3063	**4407**	1944	6319	6394	5742	**6152**	3975	4614	**4725**	**15**
6	PT 606 B	MP 655	4722	3213	**3968**	1778	6328	6494	5697	**6173**	6016	7072	**5165**	**11**
7	PT 607 B	MP 656	5694	2913	**4304**	2222	5714	4837	4702	**5084**	5157	4314	**4444**	**17**
8	PT 608 B	ICMV 155 (Check)	5889	3724	**4806**	2083	6681	10903	5126	**7570**	5960	8264	**6079**	**1**
9	PT 609 B	MP 657	5444	3423	**4434**	1778	6861	10533	5572	**7655**	5235	8017	**5858**	**4**
10	PT 610 B	ICMV 221 (Check)	4972	3033	**4003**	2444	5764	5423	5348	**5511**	4089	3906	**4372**	**18**
11	PT 611 B	Raj 171 (Check)	4083	1982	**3033**	2528	5806	10733	4581	**7040**	4107	3992	**4727**	**14**
12	PT 612 B	MP 647	5639	3423	**4531**	2472	5858	8379	4980	**6406**	8200	7061	**5752**	**7**
13	PT 613 B	MP 648	4722	4414	**4568**	2278	7131	9858	4770	**7253**	6091	7003	**5783**	**5**
14	PT 614 B	MP 658	5056	3423	**4239**	3083	6606	10872	4274	**7250**	5621	7256	**5774**	**6**
15	PT 615 B	MP 659	4139	5015	**4577**	2556	7675	8121	4796	**6864**	5538	7989	**5729**	**8**
16	PT 616 B	ABV 04 (Check)	4778	3904	**4341**	2667	6978	5470	4886	**5778**	5391	6933	**5126**	**12**
17	PT 617 B	MP 660	5583	-	**5583**	944	2125	3244	5434	**3601**	4861	2817	**3573**	**19**
18	PT 618 B	Pusa Comp. 612 (Check)	4917	5766	**5341**	3361	7178	10422	4440	**7346**	3611	8475	**6021**	**3**
19	PT 619 B	MP 661	4889	2853	**3871**	2944	6358	5606	4760	**5575**	4197	5297	**4613**	**16**
		LOC. MEAN	**5048**	**3498**	**4273**	**2344**	**6438**	**8172**	**5056**	**6555**	**5508**	**5968**	**5254**	
		C.D. (5%)	**1245**	**1218**	**1585**	**574**	**1211**	**2087**	**1035**	**2473**	**1104**	**1023**	**1096**	
		C.D. (1%)	**1670**	**1636**	**2178**	**770**	**1624**	**2798**	**1387**	**3316**	**1481**	**1372**	**1449**	
		C.V. (%)	**14.9**	**21.0**	**17.6**	**14.8**	**11.4**	**15.4**	**12.4**	**22.8**	**12.1**	**10.4**	**20.7**	
		F (Prob)	**0.000**	**0.000**	**0.555**	**0.000**	**0.000**	**0.000**	**0.000**	**0.107**	**0.000**	**0.000**	**0.005**	
		PLOT SIZE (m^2)	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**-**	

Table I.149: POPULATION TRIAL KHARIF - 2025 DAYS TO 50% FLOWERING ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	54	54	**54**	50	42	49	51	**47**	47	46	56	**50**	**12**
2	PT 602 B	MP 652	54	55	**55**	51	46	51	50	**49**	50	52	59	**52**	**4**
3	PT 603 B	MP 653	54	51	**53**	51	45	48	47	**47**	47	48	59	**50**	**8**
4	PT 604 B	MP 654	52	53	**52**	49	44	49	49	**47**	49	49	57	**50**	**9**
5	PT 605 B	Dhanshakti (Check)	50	50	**50**	46	35	44	46	**41**	47	44	53	**46**	**18**
6	PT 606 B	MP 655	53	49	**51**	53	47	55	51	**51**	51	57	62	**53**	**3**
7	PT 607 B	MP 656	59	57	**58**	51	48	53	47	**49**	53	53	63	**54**	**1**
8	PT 608 B	ICMV 155 (Check)	53	56	**54**	52	44	48	47	**46**	50	48	59	**51**	**6**
9	PT 609 B	MP 657	54	55	**55**	51	44	48	48	**47**	47	49	58	**50**	**7**
10	PT 610 B	ICMV 221 (Check)	51	50	**51**	44	35	42	46	**41**	41	42	53	**45**	**19**
11	PT 611 B	Raj 171 (Check)	56	54	**55**	50	41	45	48	**45**	51	46	55	**50**	**13**
12	PT 612 B	MP 647	54	56	**55**	48	44	46	48	**46**	46	48	58	**50**	**11**
13	PT 613 B	MP 648	51	56	**54**	48	40	47	49	**45**	49	46	56	**49**	**15**
14	PT 614 B	MP 658	52	55	**53**	47	39	46	52	**46**	50	47	57	**49**	**14**
15	PT 615 B	MP 659	52	55	**54**	46	42	47	47	**45**	52	49	60	**50**	**10**
16	PT 616 B	ABV 04 (Check)	52	55	**54**	48	43	51	49	**48**	50	49	60	**51**	**5**
17	PT 617 B	MP 660	52	-	**52**	52	50	55	47	**50**	53	57	62	**53**	**2**
18	PT 618 B	Pusa Comp. 612 (Check)	52	56	**54**	46	40	47	47	**45**	46	44	57	**48**	**17**
19	PT 619 B	MP 661	51	55	**53**	46	41	44	48	**44**	53	45	57	**49**	**16**
		LOC. MEAN	**53**	**54**	**53**	**49**	**43**	**48**	**48**	**46**	**49**	**48**	**58**	**50**	
		C.D. (5%)	**2.0**	**2.0**	**4.0**	**1.0**	**2.0**	**2.0**	**3.0**	**4.0**	**3.0**	**1.0**	**3.0**	**2.0**	
		C.D. (1%)	**3.0**	**3.0**	**5.0**	**1.0**	**3.0**	**3.0**	**4.0**	**5.0**	**4.0**	**2.0**	**4.0**	**2.0**	
		C.V. (%)	**2.6**	**2.5**	**3.4**	**1.1**	**2.7**	**2.5**	**3.7**	**5.0**	**3.3**	**1.7**	**3.3**	**4.0**	
		F (Prob)	**0.000**	**0.000**	**0.081**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.150: POPULATION TRIAL KHARIF - 2025 DAYS TO MATURITY ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	93	89	**91**	87	78	82	83	**81**	77	76	87	**83**	**11**
2	PT 602 B	MP 652	94	91	**92**	88	83	84	80	**82**	81	84	86	**86**	**4**
3	PT 603 B	MP 653	95	88	**92**	89	82	81	78	**80**	77	80	87	**84**	**9**
4	PT 604 B	MP 654	91	89	**90**	86	81	82	80	**81**	80	80	86	**84**	**9**
5	PT 605 B	Dhanshakti (Check)	92	85	**89**	83	71	77	77	**75**	78	76	89	**81**	**16**
6	PT 606 B	MP 655	94	84	**89**	90	84	88	83	**85**	81	89	88	**87**	**3**
7	PT 607 B	MP 656	99	92	**96**	88	87	86	79	**84**	82	84	85	**87**	**2**
8	PT 608 B	ICMV 155 (Check)	92	91	**92**	89	82	81	78	**81**	80	79	87	**84**	**7**
9	PT 609 B	MP 657	96	90	**93**	88	81	81	81	**81**	78	80	88	**85**	**5**
10	PT 610 B	ICMV 221 (Check)	92	86	**89**	81	71	75	77	**74**	74	75	87	**80**	**17**
11	PT 611 B	Raj 171 (Check)	100	89	**94**	87	78	78	79	**79**	80	78	86	**84**	**10**
12	PT 612 B	MP 647	98	91	**95**	85	81	79	80	**80**	75	80	85	**84**	**10**
13	PT 613 B	MP 648	92	91	**92**	85	77	80	81	**79**	79	78	87	**83**	**13**
14	PT 614 B	MP 658	94	90	**92**	84	76	79	84	**80**	82	80	89	**84**	**8**
15	PT 615 B	MP 659	93	90	**92**	83	78	80	78	**79**	80	81	88	**83**	**12**
16	PT 616 B	ABV 04 (Check)	94	91	**92**	85	81	84	81	**82**	79	81	87	**85**	**6**
17	PT 617 B	MP 660	98	-	**98**	89	89	88	78	**85**	82	88	87	**88**	**1**
18	PT 618 B	Pusa Comp. 612 (Check)	92	91	**92**	84	77	80	79	**79**	75	77	87	**82**	**15**
19	PT 619 B	MP 661	94	91	**92**	83	78	77	79	**78**	82	76	86	**83**	**14**
		LOC. MEAN	**94**	**89**	**92**	**86**	**80**	**81**	**80**	**80**	**79**	**80**	**87**	**84**	
		C.D. (5%)	**1.0**	**2.0**	**4.0**	**1.0**	**3.0**	**3.0**	**4.0**	**4.0**	**4.0**	**1.0**	**2.0**	**2.0**	
		C.D. (1%)	**1.0**	**3.0**	**6.0**	**2.0**	**4.0**	**4.0**	**5.0**	**6.0**	**5.0**	**2.0**	**3.0**	**3.0**	
		C.V. (%)	**0.6**	**1.5**	**2.3**	**0.8**	**2.1**	**2.2**	**2.9**	**3.2**	**3.1**	**1.0**	**1.3**	**2.7**	
		F (Prob)	**0.000**	**0.000**	**0.174**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.151: POPULATION TRIAL KHARIF - 2025 PLANT HEIGHT (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	165	220	**192**	178	130	195	218	**181**	164	160	196	**181**	**13**
2	PT 602 B	MP 652	153	243	**198**	160	140	209	217	**189**	154	183	192	**183**	**10**
3	PT 603 B	MP 653	172	253	**212**	180	145	214	209	**189**	170	206	214	**196**	**3**
4	PT 604 B	MP 654	155	231	**193**	180	127	208	215	**183**	159	184	223	**187**	**9**
5	PT 605 B	Dhanshakti (Check)	145	229	**187**	180	132	194	195	**174**	125	172	181	**173**	**16**
6	PT 606 B	MP 655	177	202	**189**	160	115	165	200	**160**	131	178	167	**166**	**18**
7	PT 607 B	MP 656	165	220	**193**	151	126	177	175	**159**	144	171	172	**167**	**17**
8	PT 608 B	ICMV 155 (Check)	202	269	**235**	195	137	231	203	**190**	191	184	223	**204**	**1**
9	PT 609 B	MP 657	170	231	**201**	169	137	196	206	**180**	138	181	210	**182**	**12**
10	PT 610 B	ICMV 221 (Check)	227	232	**229**	189	135	203	198	**179**	124	155	178	**182**	**11**
11	PT 611 B	Raj 171 (Check)	200	222	**211**	203	140	217	208	**188**	155	174	203	**191**	**7**
12	PT 612 B	MP 647	157	271	**214**	205	130	220	203	**184**	155	191	215	**194**	**4**
13	PT 613 B	MP 648	212	267	**240**	175	141	216	200	**185**	137	170	224	**194**	**5**
14	PT 614 B	MP 658	185	243	**214**	191	148	205	203	**185**	157	180	219	**192**	**6**
15	PT 615 B	MP 659	195	254	**225**	198	139	223	210	**191**	135	190	221	**196**	**2**
16	PT 616 B	ABV 04 (Check)	182	243	**213**	187	124	192	209	**175**	141	157	186	**180**	**14**
17	PT 617 B	MP 660	150	-	**150**	163	87	116	178	**127**	141	146	156	**142**	**19**
18	PT 618 B	Pusa Comp. 612 (Check)	157	282	**219**	200	137	203	210	**183**	129	171	206	**188**	**8**
19	PT 619 B	MP 661	152	246	**199**	175	132	203	220	**185**	112	170	191	**178**	**15**
		LOC. MEAN	**175**	**242**	**208**	**181**	**132**	**199**	**204**	**178**	**145**	**175**	**199**	**184**	
		C.D. (5%)	**13.0**	**18.0**	**45.0**	**10.0**	**19.0**	**32.0**	**15.0**	**19.0**	**15.0**	**10.0**	**22.0**	**13.0**	
		C.D. (1%)	**17.0**	**24.0**	**62.0**	**14.0**	**25.0**	**43.0**	**20.0**	**26.0**	**20.0**	**13.0**	**29.0**	**17.0**	
		C.V. (%)	**4.5**	**4.5**	**10.3**	**3.4**	**8.7**	**9.8**	**4.5**	**6.5**	**6.4**	**3.3**	**6.5**	**7.6**	
		F (Prob)	**0.000**	**0.000**	**0.404**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.152: POPULATION TRIAL KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	3.7	2.1	**2.9**	2.5	2.9	1.4	1.7	**2.0**	3.9	2.9	2.9	**2.7**	**3**
2	PT 602 B	MP 652	2.7	2.5	**2.6**	2.7	2.7	1.7	1.6	**2.0**	2.3	2.7	2.6	**2.4**	**13**
3	PT 603 B	MP 653	2.7	2.2	**2.4**	2.5	2.5	1.1	1.5	**1.7**	4.5	2.5	2.7	**2.5**	**6**
4	PT 604 B	MP 654	3.3	2.1	**2.7**	3.0	2.3	1.4	1.7	**1.8**	3.3	2.4	3.1	**2.5**	**5**
5	PT 605 B	Dhanshakti (Check)	2.3	2.3	**2.3**	2.3	1.9	1.3	1.7	**1.6**	3.5	2.5	2.6	**2.3**	**17**
6	PT 606 B	MP 655	2.0	2.0	**2.0**	2.4	1.5	1.9	1.9	**1.7**	4.5	2.2	2.9	**2.4**	**15**
7	PT 607 B	MP 656	3.0	2.3	**2.7**	2.6	1.8	1.5	1.4	**1.6**	2.5	2.4	2.5	**2.2**	**18**
8	PT 608 B	ICMV 155 (Check)	2.7	2.2	**2.5**	2.5	2.9	1.7	1.8	**2.1**	4.5	3.1	3.6	**2.8**	**2**
9	PT 609 B	MP 657	3.0	2.1	**2.6**	3.0	2.8	1.6	1.5	**2.0**	2.5	2.4	2.5	**2.4**	**14**
10	PT 610 B	ICMV 221 (Check)	2.7	2.0	**2.3**	2.8	2.3	1.3	2.3	**2.0**	3.9	2.5	2.3	**2.4**	**7**
11	PT 611 B	Raj 171 (Check)	3.7	2.6	**3.1**	3.0	4.4	1.5	2.5	**2.8**	4.1	2.8	2.6	**3.0**	**1**
12	PT 612 B	MP 647	3.0	1.9	**2.4**	2.7	2.3	1.5	2.1	**2.0**	2.6	2.3	3.3	**2.4**	**9**
13	PT 613 B	MP 648	2.3	2.1	**2.2**	2.7	1.7	1.7	1.5	**1.7**	3.7	2.5	3.3	**2.4**	**10**
14	PT 614 B	MP 658	2.3	2.3	**2.3**	2.7	3.3	1.5	1.8	**2.2**	2.2	2.3	3.2	**2.4**	**11**
15	PT 615 B	MP 659	3.7	2.4	**3.0**	2.7	1.9	1.2	1.9	**1.6**	2.6	2.7	3.0	**2.4**	**8**
16	PT 616 B	ABV 04 (Check)	2.7	2.2	**2.4**	2.6	2.4	1.3	1.5	**1.8**	2.6	2.7	2.9	**2.3**	**16**
17	PT 617 B	MP 660	1.3	-	**1.3**	2.5	4.2	1.2	2.0	**2.5**	3.2	3.3	2.5	**2.5**	**4**
18	PT 618 B	Pusa Comp. 612 (Check)	2.3	2.3	**2.3**	2.5	3.5	1.4	2.1	**2.3**	2.7	2.5	3.3	**2.5**	**5**
19	PT 619 B	MP 661	2.7	2.1	**2.4**	2.7	3.0	1.4	1.5	**2.0**	2.4	2.8	2.9	**2.4**	**12**
		LOC. MEAN	**2.7**	**2.2**	**2.5**	**2.6**	**2.7**	**1.4**	**1.8**	**2.0**	**3.2**	**2.6**	**2.9**	**2.5**	
		C.D. (5%)	**1.2**	**0.3**	**0.7**	**0.5**	**1.1**	**0.5**	**0.4**	**0.8**	**0.5**	**0.6**	**0.6**	**0.4**	
		C.D. (1%)	**1.6**	**0.3**	**1.0**	**0.7**	**1.4**	**0.6**	**0.6**	**1.1**	**0.7**	**0.9**	**0.8**	**0.5**	
		C.V. (%)	**25.7**	**6.8**	**13.8**	**11.6**	**24.4**	**20.2**	**15.0**	**24.3**	**9.7**	**14.9**	**12.4**	**17.7**	
		F (Prob)	**0.000**	**0.000**	**0.275**	**0.000**	**0.000**	**0.000**	**0.000**	**0.235**	**0.000**	**0.000**	**0.000**	**0.059**	

Table I.153: POPULATION TRIAL KHARIF - 2025 PANICLE LENGTH (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	23	27	**25**	23	22	24	20	**22**	25	25	21	**23**	**10**
2	PT 602 B	MP 652	22	28	**25**	21	24	29	20	**24**	20	28	21	**24**	**8**
3	PT 603 B	MP 653	21	28	**24**	27	25	24	20	**23**	21	28	22	**24**	**7**
4	PT 604 B	MP 654	19	26	**22**	22	22	27	19	**23**	20	26	22	**23**	**13**
5	PT 605 B	Dhanshakti (Check)	20	26	**23**	18	20	25	22	**22**	16	23	18	**21**	**16**
6	PT 606 B	MP 655	20	21	**21**	21	17	18	18	**18**	18	21	18	**19**	**18**
7	PT 607 B	MP 656	26	27	**27**	21	24	24	19	**22**	21	24	21	**23**	**11**
8	PT 608 B	ICMV 155 (Check)	24	29	**27**	21	24	28	21	**25**	22	27	24	**24**	**3**
9	PT 609 B	MP 657	25	30	**27**	24	24	26	20	**23**	18	26	21	**24**	**8**
10	PT 610 B	ICMV 221 (Check)	26	25	**25**	24	21	25	18	**21**	13	21	18	**21**	**15**
11	PT 611 B	Raj 171 (Check)	26	28	**27**	23	22	27	20	**23**	21	27	24	**24**	**5**
12	PT 612 B	MP 647	25	30	**27**	22	24	24	21	**23**	23	28	22	**24**	**4**
13	PT 613 B	MP 648	24	27	**26**	22	21	23	16	**20**	18	23	19	**22**	**14**
14	PT 614 B	MP 658	26	28	**27**	27	24	24	21	**23**	21	26	21	**24**	**6**
15	PT 615 B	MP 659	25	29	**27**	24	23	28	20	**24**	23	29	21	**24**	**2**
16	PT 616 B	ABV 04 (Check)	25	27	**26**	31	22	24	18	**21**	22	23	21	**24**	**9**
17	PT 617 B	MP 660	26	-	**26**	19	17	23	19	**20**	23	21	18	**21**	**17**
18	PT 618 B	Pusa Comp. 612 (Check)	27	30	**29**	31	24	30	19	**24**	24	26	22	**26**	**1**
19	PT 619 B	MP 661	21	28	**25**	24	22	25	20	**22**	20	25	20	**23**	**12**
		LOC. MEAN	**24**	**27**	**26**	**23**	**22**	**25**	**20**	**22**	**20**	**25**	**21**	**23**	
		C.D. (5%)	**1.0**	**2.0**	**4.0**	**2.0**	**4.0**	**5.0**	**2.0**	**3.0**	**1.0**	**2.0**	**2.0**	**2.0**	
		C.D. (1%)	**2.0**	**2.0**	**5.0**	**3.0**	**5.0**	**7.0**	**3.0**	**4.0**	**2.0**	**3.0**	**3.0**	**2.0**	
		C.V. (%)	**3.5**	**3.9**	**6.6**	**5.7**	**10.2**	**12.2**	**7.6**	**7.2**	**4.3**	**5.4**	**6.5**	**8.2**	
		F (Prob)	**0.000**	**0.000**	**0.017**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.154: POPULATION TRIAL KHARIF - 2025 PANICLE DIAMETER (cm) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	ZONE MEAN	RANK
1	PT 601 B	MP 640	2.7	3.1	**2.9**	2.2	2.5	2.7	1.1	**2.1**	2.6	2.8	**2.5**	**14**
2	PT 602 B	MP 652	2.8	3.3	**3.0**	2.2	2.7	3.2	1.2	**2.4**	2.8	3.0	**2.6**	**4**
3	PT 603 B	MP 653	3.0	3.2	**3.1**	2.4	2.7	2.9	1.1	**2.2**	3.0	3.1	**2.7**	**2**
4	PT 604 B	MP 654	2.9	3.2	**3.0**	2.1	2.7	3.0	1.1	**2.3**	3.0	3.1	**2.6**	**6**
5	PT 605 B	Dhanshakti (Check)	2.9	3.2	**3.1**	2.2	2.6	2.9	1.0	**2.2**	2.5	3.1	**2.6**	**10**
6	PT 606 B	MP 655	2.5	3.2	**2.9**	2.3	2.3	2.7	1.1	**2.0**	2.8	3.1	**2.5**	**12**
7	PT 607 B	MP 656	3.1	3.2	**3.1**	2.2	2.6	2.5	1.1	**2.1**	2.1	2.9	**2.5**	**13**
8	PT 608 B	ICMV 155 (Check)	2.7	3.0	**2.9**	2.1	2.5	2.5	0.9	**1.9**	3.1	2.7	**2.4**	**16**
9	PT 609 B	MP 657	3.0	3.1	**3.0**	2.2	2.6	2.8	1.1	**2.2**	2.6	2.9	**2.5**	**11**
10	PT 610 B	ICMV 221 (Check)	3.1	3.3	**3.2**	2.4	2.5	3.0	1.0	**2.2**	2.5	2.8	**2.6**	**8**
11	PT 611 B	Raj 171 (Check)	2.7	2.5	**2.6**	1.6	2.1	2.1	0.8	**1.6**	2.9	2.3	**2.1**	**19**
12	PT 612 B	MP 647	2.6	3.2	**2.9**	2.3	2.6	2.8	1.2	**2.2**	3.2	3.1	**2.6**	**7**
13	PT 613 B	MP 648	3.2	3.4	**3.3**	2.3	2.7	2.9	1.2	**2.2**	2.9	2.9	**2.7**	**1**
14	PT 614 B	MP 658	3.1	3.2	**3.2**	2.1	2.5	2.7	1.1	**2.1**	1.8	3.0	**2.5**	**15**
15	PT 615 B	MP 659	2.7	3.3	**3.0**	2.3	2.6	2.6	1.2	**2.1**	3.2	3.2	**2.6**	**5**
16	PT 616 B	ABV 04 (Check)	2.8	3.4	**3.1**	2.4	2.8	3.1	1.1	**2.3**	2.7	3.0	**2.7**	**3**
17	PT 617 B	MP 660	2.6	-	**2.6**	2.0	2.1	2.2	1.0	**1.8**	2.6	2.6	**2.2**	**18**
18	PT 618 B	Pusa Comp. 612 (Check)	2.7	2.9	**2.8**	2.3	2.1	2.5	1.0	**1.9**	2.1	2.5	**2.3**	**17**
19	PT 619 B	MP 661	2.9	3.2	**3.1**	2.3	2.7	2.6	1.2	**2.2**	2.7	2.9	**2.6**	**9**
		LOC. MEAN	**2.8**	**3.2**	**3.0**	**2.2**	**2.5**	**2.7**	**1.1**	**2.1**	**2.7**	**2.9**	**2.5**	
		C.D. (5%)	**0.1**	**0.2**	**0.3**	**0.2**	**0.3**	**0.4**	**0.2**	**0.2**	**0.3**	**0.3**	**0.2**	
		C.D. (1%)	**0.2**	**0.3**	**0.5**	**0.2**	**0.3**	**0.6**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	
		C.V. (%)	**2.6**	**4.0**	**5.3**	**5.0**	**6.1**	**9.5**	**11.1**	**6.7**	**6.7**	**5.4**	**7.6**	
		F (Prob)	**0.000**	**0.000**	**0.059**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.155: POPULATION TRIAL KHARIF - 2025 1000-SEED Wt.(g) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	MS MEAN	CBE	SMG	ZONE MEAN	RANK
1	PT 601 B	MP 640	10.3	10.7	**10.5**	14.1	10.6	9.5	7.1	**9.1**	11.9	9.7	**10.5**	**10**
2	PT 602 B	MP 652	13.0	14.2	**13.6**	13.4	12.2	8.1	7.0	**9.1**	12.0	10.0	**11.2**	**5**
3	PT 603 B	MP 653	12.4	11.7	**12.1**	13.1	10.6	9.8	7.4	**9.3**	8.9	12.0	**10.7**	**9**
4	PT 604 B	MP 654	11.3	12.3	**11.8**	14.4	12.2	10.3	6.2	**9.6**	10.7	10.8	**11.0**	**7**
5	PT 605 B	Dhanshakti (Check)	10.5	11.8	**11.2**	14.8	11.9	11.1	7.7	**10.2**	14.0	11.3	**11.6**	**1**
6	PT 606 B	MP 655	7.9	9.8	**8.8**	13.0	10.3	6.5	6.9	**7.9**	9.1	10.3	**9.2**	**17**
7	PT 607 B	MP 656	7.6	8.8	**8.2**	12.9	10.1	5.7	6.4	**7.4**	8.2	11.7	**8.9**	**18**
8	PT 608 B	ICMV 155 (Check)	10.3	10.2	**10.3**	13.6	9.4	7.9	5.0	**7.4**	9.6	12.5	**9.8**	**14**
9	PT 609 B	MP 657	8.5	11.1	**9.8**	13.3	9.8	9.5	7.1	**8.8**	12.1	12.2	**10.4**	**11**
10	PT 610 B	ICMV 221 (Check)	8.5	11.4	**10.0**	14.1	10.8	11.0	7.9	**9.9**	13.2	12.7	**11.2**	**6**
11	PT 611 B	Raj 171 (Check)	9.6	10.4	**10.0**	13.5	8.8	8.5	4.9	**7.4**	8.7	11.6	**9.5**	**16**
12	PT 612 B	MP 647	10.6	11.6	**11.1**	12.3	10.7	6.8	6.3	**7.9**	11.2	11.3	**10.1**	**13**
13	PT 613 B	MP 648	11.7	12.3	**12.0**	13.4	11.4	10.4	5.6	**9.1**	14.7	12.3	**11.5**	**3**
14	PT 614 B	MP 658	12.9	11.1	**12.0**	14.3	10.9	9.6	6.3	**8.9**	11.9	10.9	**11.0**	**8**
15	PT 615 B	MP 659	11.6	11.8	**11.7**	14.3	12.1	10.0	7.6	**9.9**	10.6	13.0	**11.4**	**4**
16	PT 616 B	ABV 04 (Check)	11.5	12.3	**11.9**	13.7	13.0	11.8	6.4	**10.4**	12.6	11.5	**11.6**	**2**
17	PT 617 B	MP 660	8.6	-	**8.6**	12.3	7.9	6.4	5.5	**6.6**	8.6	11.2	**8.6**	**19**
18	PT 618 B	Pusa Comp. 612 (Check)	10.7	9.2	**9.9**	13.0	9.5	7.4	6.5	**7.8**	10.7	11.2	**9.8**	**15**
19	PT 619 B	MP 661	8.7	10.5	**9.6**	12.5	11.3	10.8	5.5	**9.2**	11.1	10.7	**10.1**	**12**
		LOC. MEAN	**10.3**	**11.2**	**10.8**	**13.5**	**10.7**	**9.0**	**6.5**	**8.7**	**11.0**	**11.4**	**10.5**	
		C.D. (5%)	**0.4**	**0.3**	**1.9**	**0.3**	**2.1**	**1.7**	**1.7**	**1.7**	**1.5**	**1.4**	**1.1**	
		C.D. (1%)	**0.5**	**0.5**	**2.6**	**0.4**	**2.8**	**2.2**	**2.3**	**2.3**	**2.0**	**1.9**	**1.5**	
		C.V. (%)	**2.1**	**1.8**	**8.2**	**1.4**	**11.8**	**11.2**	**15.9**	**12.0**	**8.3**	**7.5**	**10.4**	
		F (Prob)	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	

Table I.156: POPULATION TRIAL KHARIF - 2025 POPULATION AT HARVEST(No./plot) ZONE B

S.No.	TEST CODE	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	PMP	VZN	AP MEAN	PLM	CBE	ZONE MEAN	RANK
1	PT 601 B	MP 640	152	83	**118**	30	143	134	133	**137**	156	100	**116**	**16**
2	PT 602 B	MP 652	154	112	**133**	46	157	134	134	**142**	149	86	**121**	**5**
3	PT 603 B	MP 653	153	88	**121**	45	145	131	136	**137**	153	86	**117**	**15**
4	PT 604 B	MP 654	152	109	**131**	44	149	139	135	**141**	149	82	**120**	**9**
5	PT 605 B	Dhanshakti (Check)	154	87	**120**	31	135	137	135	**135**	151	82	**114**	**17**
6	PT 606 B	MP 655	153	105	**129**	31	140	130	134	**135**	157	112	**120**	**8**
7	PT 607 B	MP 656	152	89	**121**	41	144	128	135	**136**	145	102	**117**	**14**
8	PT 608 B	ICMV 155 (Check)	151	96	**124**	35	159	130	136	**142**	156	108	**121**	**6**
9	PT 609 B	MP 657	152	103	**128**	36	139	137	135	**137**	147	126	**122**	**4**
10	PT 610 B	ICMV 221 (Check)	151	94	**123**	32	128	125	136	**130**	143	96	**113**	**18**
11	PT 611 B	Raj 171 (Check)	152	83	**117**	44	149	138	136	**141**	142	99	**118**	**13**
12	PT 612 B	MP 647	153	102	**128**	41	133	125	133	**130**	154	107	**118**	**11**
13	PT 613 B	MP 648	153	108	**131**	33	143	134	136	**138**	138	108	**119**	**10**
14	PT 614 B	MP 658	152	114	**133**	41	158	143	135	**145**	152	116	**126**	**1**
15	PT 615 B	MP 659	152	117	**135**	37	143	145	135	**141**	153	109	**124**	**2**
16	PT 616 B	ABV 04 (Check)	152	107	**130**	41	149	123	137	**136**	156	116	**122**	**3**
17	PT 617 B	MP 660	154	-	**154**	22	132	77	135	**115**	153	47	**103**	**19**
18	PT 618 B	Pusa Comp. 612 (Check)	154	85	**120**	43	160	121	135	**139**	145	104	**118**	**12**
19	PT 619 B	MP 661	152	84	**118**	39	154	130	135	**140**	153	123	**121**	**7**
		LOC. MEAN	**153**	**98**	**125**	**37**	**145**	**129**	**135**	**137**	**150**	**100**	**119**	
		C.D. (5%)	**2.0**	**14.0**	**17.0**	**11.0**	**14.0**	**24.0**	**3.0**	**15.0**	**11.0**	**14.0**	**8.0**	
		C.D. (1%)	**3.0**	**19.0**	**24.0**	**15.0**	**19.0**	**32.0**	**4.0**	**20.0**	**14.0**	**19.0**	**10.0**	
		C.V. (%)	**0.9**	**8.5**	**6.5**	**17.9**	**5.8**	**11.0**	**1.4**	**6.7**	**4.3**	**8.3**	**6.4**	
		F (Prob)	**0.000**	**0.000**	**0.447**	**0.000**	**0.000**	**0.000**	**0.000**	**0.131**	**0.000**	**0.000**	**0.092**	

Table I.157: POPULATION TRIAL KHARIF - 2025 ZONE B
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD1	DHL	VYP	APR	PMP	CBE	ZONE MEAN	RANK
1	PT 601 B	MP 640	48	50	44	47	43	45	**46**	**7**
2	PT 602 B	MP 652	63	55	33	40	58	42	**48**	**6**
3	PT 605 B	Dhanshakti (Check)	91	94	61	87	73	73	**80**	**1**
4	PT 608 B	ICMV 155 (Check)	40	52	48	40	43	43	**44**	**8**
5	PT 610 B	ICMV 221 (Check)	69	82	37	63	54	55	**60**	**3**
6	PT 611 B	Raj 171 (Check)	53	44	32	39	43	48	**43**	**9**
7	PT 612 B	MP 647	69	77	42	57	57	64	**61**	**2**
8	PT 613 B	MP 648	56	60	40	54	51	46	**51**	**4**
9	PT 615 B	MP 659	55	63	41	54	41	46	**50**	**5**
10	PT 616 B	ABV 04 (Check)	47	48	44	44	47	44	**46**	**7**
11	PT 618 B	Pusa Comp. 612 (Check)	45	47	36	47	46	36	**43**	**9**

Table I.158: POPULATION TRIAL KHARIF - 2025 ZONE B
GRAIN QUALITY:ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	ABD1	DHL	VYP	APR	PMP	CBE	ZONE MEAN	RANK
1	PT 601 B	MP 640	35	35	39	25	22	42	**33**	**6**
2	PT 602 B	MP 652	40	36	33	24	21	42	**33**	**6**
3	PT 605 B	Dhanshakti (Check)	61	51	46	26	32	59	**46**	**1**
4	PT 608 B	ICMV 155 (Check)	33	40	43	21	26	39	**34**	**5**
5	PT 610 B	ICMV 221 (Check)	47	45	36	19	31	54	**39**	**2**
6	PT 611 B	Raj 171 (Check)	41	35	31	21	32	47	**34**	**5**
7	PT 612 B	MP 647	40	45	36	25	28	54	**38**	**3**
8	PT 613 B	MP 648	38	45	35	19	26	49	**35**	**4**
9	PT 615 B	MP 659	34	38	34	20	25	44	**33**	**6**
10	PT 616 B	ABV 04 (Check)	39	34	42	19	26	40	**33**	**6**
11	PT 618 B	Pusa Comp. 612 (Check)	34	35	36	21	31	40	**33**	**6**

Table I.159: ADVANCE HYBRID AND POPULATION TRIAL (Early) KHARIF 2025 EXPERIMENTAL DETAILS ZONE A_1

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizers			Insecticide
							N	P	K	
RAJASTHAN										
Mandor (AICRP-PM)	SL	8.2	04.7.25	03.10.25	15.10.25	Nil	40	20	0	Nil
Jodhpur (CAZRI)	SL	7.6	08.7.25	01.10.25	22.7.25	Nil	40	20	0	Nil
Bikaner (SKRAU)	S	8.0	10.7.25	26.10.25	08.8.25	30.9.25	40	20	0	Nil
Fathehpur(SKNAU)	SL	8.0	06.7.25	As Per Maturity	As Per Pop	Nil	As Per Pop	As Per Pop	As Per Pop	Nil
Samdari (ARSS, AUJ)	SL	8.3	06.7.25	10.10.25	05.8.25	Nil	40	20	0	Nil
ARS, Jalore (AUJ)	-	-	10.7.25	As Per Maturity	-	Ni	-	-	-	Nil
Nagaur (AU, Jodhpur)	SL	7.9	15.7.25	As Per Maturity	09.8.25	Nil	40	20	0	Nil
Gudamalani (ICAR-IIMR)	S	7.9	01.7.25	17.10.25	-	Life Saving	40	20	0	Nil
GUJARAT										
Kothara(SDAU)	SL	7.5	15.7.25	12.11.25	15.8.25	Ni	80	40	0	Nil
Deesa(SDAU)	SL	-	02.7.25	24.10.25	23.7.25	Nil	80	40	0	Nil
HARYANA										
Bawal (CCSHAU)	LS	8.2	21.7.25	17.10.25	18.8,07.9.25	Nil	40	20	30	Nil
Hisar (CCSHAU)	SL	-	01.7.25	10.10.25	-	25.7.25	40	20	0	Nil

SL = Sandy Loam, S= Sandy, LS= Loamy Sand.

Table I.160: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	1713	-	-	1415	648	1542	2120	**1488**	-	-	**-**	-	-	**-**	**1488**	**9**
2	AHPT 802	MH 2743	1782	2681	1250	1715	709	1755	2778	**1810**	2568	3532	**3050**	3708	2373	**3041**	**2259**	**2**
3	AHPT 803	HHB 67 Imp. (Check)	1551	1911	1042	1375	671	1634	2222	**1487**	1368	2861	**2114**	2778	1387	**2082**	**1709**	**8**
4	AHPT 804	MH 2744	1910	3232	1250	2076	694	2069	2458	**1956**	2236	3519	**2877**	3870	2630	**3250**	**2359**	**1**
5	AHPT 805	MPMH 35 (Check)	1817	3073	1134	2175	559	1514	2167	**1777**	1541	2389	**1965**	2891	1718	**2305**	**1907**	**6**
6	AHPT 806	MH 2747	1898	2590	1181	1662	365	1678	1977	**1621**	1462	3551	**2506**	3265	2595	**2930**	**2020**	**5**
7	AHPT 807	PB 1756 (Check)	1644	3379	1134	1657	593	1574	-	**1663**	2134	3671	**2902**	3804	2822	**3313**	**2241**	**3**
8	AHPT 808	MH 2758	1898	2632	984	2185	685	1769	2083	**1748**	2103	3347	**2725**	3250	2175	**2712**	**2101**	**4**
9	AHPT 809	AHB 1200 (Check)	1713	2443	1005	1907	637	1563	2175	**1634**	1459	2477	**1968**	2741	2243	**2492**	**1851**	**7**
		LOC. MEAN	**1770**	**2743**	**1122**	**1796**	**618**	**1677**	**2248**	**1711**	**1859**	**3168**	**2514**	**3288**	**2243**	**2766**	**2048**	
		C.D. (5%)	**195**	**814**	**171**	**258**	**99**	**700**	**728**	**228**	**287**	**515**	**668**	**558**	**614**	**530**	**233**	
		C.D. (1%)	**269**	**1130**	**238**	**356**	**137**	**964**	**1011**	**305**	**398**	**715**	**988**	**774**	**853**	**784**	**310**	
		C.V. (%)	**6.4**	**17.0**	**8.7**	**8.3**	**9.3**	**24.1**	**18.5**	**12.2**	**8.8**	**9.3**	**11.2**	**9.7**	**15.6**	**8.1**	**13.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.006**	**0.000**	**0.000**	**0.026**	**0.000**	**0.000**	**0.007**	**0.000**	
		PLOT SIZE (m^2)	**14.40**	**14.40**	**14.40**	**14.40**	**14.40**	**14.40**	**14.40**	**-**	**10.80**	**14.40**	**-**	**14.40**	**14.40**	**-**	**-**	

Table I.161: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	2454	-	-	3237	2461	2861	4588	**3120**	-	-	**-**	-	-	**-**	**3120**	**9**
2	AHPT 802	MH 2743	2824	3987	3021	3892	3021	4329	5185	**3751**	5401	3093	**4247**	8489	6713	**7601**	**4541**	**5**
3	AHPT 803	HHB 67 Imp. (Check)	2361	4378	2396	3506	2593	3269	4931	**3348**	5864	3282	**4573**	6906	6065	**6485**	**4141**	**8**
4	AHPT 804	MH 2744	3542	4412	3407	5819	2856	4606	5625	**4324**	5278	3736	**4507**	9134	7639	**8387**	**5096**	**1**
5	AHPT 805	MPMH 35 (Check)	2986	5721	3924	4282	2512	4120	4815	**4051**	5586	3574	**4580**	6570	5324	**5947**	**4492**	**6**
6	AHPT 806	MH 2747	3009	3819	3785	5399	1829	3819	4280	**3706**	5031	2875	**3953**	8178	8079	**8128**	**4555**	**4**
7	AHPT 807	PB 1756 (Check)	2523	4047	3565	5194	2933	4190	-	**3742**	4969	3361	**4165**	9401	7199	**8300**	**4738**	**3**
8	AHPT 808	MH 2758	3356	4709	3366	4509	2951	4259	4843	**3999**	5772	3458	**4615**	7675	7870	**7772**	**4797**	**2**
9	AHPT 809	AHB 1200 (Check)	2731	4350	2998	4459	2674	4259	4120	**3656**	4475	3065	**3770**	7256	6042	**6649**	**4221**	**7**
		LOC. MEAN	**2865**	**4428**	**3308**	**4478**	**2648**	**3968**	**4798**	**3785**	**5297**	**3306**	**4301**	**7951**	**6866**	**7409**	**4537**	
		C.D. (5%)	**461**	**1483**	**507**	**786**	**635**	**846**	**979**	**518**	**747**	**502**	**711**	**1656**	**1499**	**1356**	**482**	
		C.D. (1%)	**635**	**2058**	**704**	**1084**	**875**	**1166**	**1359**	**694**	**1037**	**696**	**1053**	**2299**	**2081**	**2007**	**641**	
		C.V. (%)	**9.3**	**19.1**	**8.8**	**10.2**	**13.9**	**12.3**	**11.7**	**12.5**	**8.1**	**8.7**	**7.0**	**11.9**	**12.5**	**7.7**	**12.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.015**	**0.000**	**0.000**	**0.151**	**0.000**	**0.000**	**0.022**	**0.004**	
		PLOT SIZE (m^2)	**14.40**	**14.40**	**14.40**	**14.40**	**14.40**	**14.40**	**14.40**	**-**	**10.80**	**14.40**	**-**	**14.40**	**14.40**	**-**	**-**	

Table I.162: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	45	-	-	54	41	44	46	**46**	-	-	**-**	-	-	**-**	**46**	**2**
2	AHPT 802	MH 2743	45	45	44	47	41	41	43	**44**	46	44	**45**	41	46	**44**	**44**	**4**
3	AHPT 803	HHB 67 Imp. (Check)	44	45	44	48	40	42	41	**43**	45	42	**44**	41	45	**43**	**43**	**7**
4	AHPT 804	MH 2744	45	45	44	43	42	41	43	**43**	48	43	**45**	40	46	**43**	**43**	**6**
5	AHPT 805	MPMH 35 (Check)	44	45	44	46	39	42	45	**44**	40	44	**42**	42	46	**44**	**43**	**8**
6	AHPT 806	MH 2747	45	46	44	46	37	43	46	**44**	46	44	**45**	40	45	**43**	**44**	**5**
7	AHPT 807	PB 1756 (Check)	45	46	45	54	38	42	-	**45**	45	43	**44**	40	45	**43**	**44**	**3**
8	AHPT 808	MH 2758	44	45	44	45	43	44	44	**44**	44	44	**44**	40	45	**42**	**44**	**5**
9	AHPT 809	AHB 1200 (Check)	45	47	46	54	46	43	50	**47**	47	44	**45**	43	49	**46**	**47**	**1**
		LOC. MEAN	**45**	**45**	**44**	**49**	**41**	**43**	**45**	**44**	**45**	**44**	**44**	**41**	**46**	**43**	**44**	
		C.D. (5%)	**3.0**	**1.0**	**1.0**	**4.0**	**2.0**	**3.0**	**3.0**	**2.0**	**2.0**	**2.0**	**4.0**	**2.0**	**2.0**	**2.0**	**1.0**	
		C.D. (1%)	**4.0**	**2.0**	**1.0**	**6.0**	**3.0**	**4.0**	**4.0**	**2.0**	**2.0**	**2.0**	**7.0**	**3.0**	**3.0**	**2.0**	**2.0**	
		C.V. (%)	**3.7**	**1.4**	**1.0**	**5.2**	**3.2**	**3.6**	**4.1**	**3.9**	**2.2**	**2.0**	**4.2**	**3.3**	**2.3**	**1.6**	**3.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.716**	**0.000**	**0.000**	**0.010**	**0.000**	

Table I.163: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 DAYS TO MATURITY ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	75	-	76	75	75	75	**75**	-	-	-	**-**	-	**-**	**75**	**3**
2	AHPT 802	MH 2743	74	74	71	74	72	74	**73**	80	77	78	**74**	75	**75**	**75**	**8**
3	AHPT 803	HHB 67 Imp. (Check)	75	74	68	75	73	75	**73**	87	77	82	**73**	72	**73**	**75**	**7**
4	AHPT 804	MH 2744	75	74	66	73	70	75	**72**	83	76	80	**77**	72	**74**	**74**	**9**
5	AHPT 805	MPMH 35 (Check)	74	74	66	74	75	76	**73**	84	76	80	**76**	74	**75**	**75**	**6**
6	AHPT 806	MH 2747	75	74	72	74	73	74	**74**	84	77	80	**73**	75	**74**	**75**	**4**
7	AHPT 807	PB 1756 (Check)	75	75	70	74	75	-	**74**	90	78	84	**77**	73	**75**	**76**	**2**
8	AHPT 808	MH 2758	75	74	68	74	74	75	**73**	83	76	80	**78**	73	**76**	**75**	**5**
9	AHPT 809	AHB 1200 (Check)	74	77	75	74	75	79	**76**	87	79	83	**74**	79	**77**	**77**	**1**
		LOC. MEAN	**75**	**74**	**70**	**74**	**74**	**76**	**74**	**85**	**77**	**81**	**75**	**74**	**75**	**75**	
		C.D. (5%)	**2.0**	**1.0**	**6.0**	**2.0**	**3.0**	**3.0**	**2.0**	**4.0**	**2.0**	**3.0**	**3.0**	**2.0**	**4.0**	**2.0**	
		C.D. (1%)	**3.0**	**1.0**	**9.0**	**2.0**	**5.0**	**4.0**	**3.0**	**5.0**	**3.0**	**5.0**	**4.0**	**3.0**	**6.0**	**2.0**	
		C.V. (%)	**1.9**	**0.8**	**5.1**	**1.3**	**2.7**	**1.9**	**2.0**	**2.6**	**1.8**	**1.6**	**1.9**	**1.4**	**2.2**	**2.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.060**	**0.000**	**0.000**	**0.061**	**0.000**	**0.000**	**0.649**	**0.026**	

Table I.164: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 PLANT HEIGHT (cm) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	188	-	-	164	134	130	179	**159**	-	-	**-**	-	-	**-**	**159**	**9**
2	AHPT 802	MH 2743	190	173	170	161	135	150	170	**164**	152	149	**151**	176	223	**200**	**168**	**3**
3	AHPT 803	HHB 67 Imp. (Check)	180	171	162	142	132	135	174	**157**	146	179	**163**	176	208	**192**	**164**	**7**
4	AHPT 804	MH 2744	182	163	165	158	135	155	179	**163**	166	182	**174**	181	229	**205**	**172**	**2**
5	AHPT 805	MPMH 35 (Check)	178	141	158	159	136	140	163	**153**	166	170	**168**	188	220	**204**	**165**	**5**
6	AHPT 806	MH 2747	176	152	157	150	133	146	182	**157**	137	159	**148**	179	230	**204**	**164**	**8**
7	AHPT 807	PB 1756 (Check)	185	175	167	166	138	139	-	**162**	181	166	**174**	194	232	**213**	**174**	**1**
8	AHPT 808	MH 2758	174	157	152	159	134	143	170	**156**	153	165	**159**	178	219	**199**	**164**	**6**
9	AHPT 809	AHB 1200 (Check)	162	155	150	166	135	149	178	**156**	154	169	**162**	186	230	**208**	**167**	**4**
		LOC. MEAN	**179**	**161**	**160**	**158**	**135**	**143**	**174**	**159**	**157**	**167**	**162**	**182**	**224**	**203**	**167**	
		C.D. (5%)	**13.0**	**27.0**	**10.0**	**14.0**	**7.0**	**14.0**	**6.0**	**8.0**	**8.0**	**18.0**	**25.0**	**10.0**	**28.0**	**12.0**	**7.0**	
		C.D. (1%)	**17.0**	**38.0**	**14.0**	**20.0**	**9.0**	**20.0**	**8.0**	**10.0**	**11.0**	**25.0**	**37.0**	**14.0**	**40.0**	**18.0**	**9.0**	
		C.V. (%)	**4.1**	**9.7**	**3.6**	**5.3**	**2.9**	**5.7**	**2.0**	**4.5**	**2.8**	**6.2**	**6.6**	**3.2**	**7.3**	**2.5**	**4.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.077**	**0.000**	**0.000**	**0.262**	**0.000**	**0.000**	**0.081**	**0.135**	

Table I.165: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	1.9	-	2.2	2.1	3.5	3.6	**2.7**	-	-	**-**	-	-	**-**	**2.7**	**8**
2	AHPT 802	MH 2743	2.1	3.0	2.5	2.5	5.3	3.9	**3.2**	2.7	3.9	**3.3**	2.5	2.4	**2.5**	**3.1**	**3**
3	AHPT 803	HHB 67 Imp. (Check)	2.1	2.7	2.5	2.3	4.8	3.9	**3.1**	2.3	3.3	**2.8**	2.2	2.9	**2.6**	**2.9**	**7**
4	AHPT 804	MH 2744	2.3	2.7	4.5	2.5	5.0	4.6	**3.6**	1.8	3.2	**2.5**	2.6	2.6	**2.6**	**3.2**	**1**
5	AHPT 805	MPMH 35 (Check)	1.9	3.3	3.0	2.7	4.7	3.9	**3.2**	2.5	3.9	**3.2**	2.2	2.1	**2.2**	**3.0**	**4**
6	AHPT 806	MH 2747	2.1	3.7	3.2	2.5	4.5	3.3	**3.2**	2.6	3.7	**3.2**	2.2	2.2	**2.2**	**3.0**	**5**
7	AHPT 807	PB 1756 (Check)	2.0	3.0	3.2	2.5	4.8	-	**3.1**	2.5	2.9	**2.7**	2.4	2.9	**2.6**	**2.9**	**6**
8	AHPT 808	MH 2758	1.9	3.3	3.5	2.4	4.7	3.1	**3.2**	3.1	4.6	**3.8**	2.2	2.5	**2.4**	**3.1**	**2**
9	AHPT 809	AHB 1200 (Check)	2.2	2.7	2.3	2.1	4.6	3.3	**2.9**	2.3	1.6	**2.0**	1.4	2.7	**2.1**	**2.5**	**9**
		LOC. MEAN	**2.0**	**3.0**	**3.0**	**2.4**	**4.7**	**3.7**	**3.1**	**2.5**	**3.4**	**2.9**	**2.2**	**2.5**	**2.4**	**2.9**	
		C.D. (5%)	**0.2**	**1.1**	**0.5**	**0.5**	**1.0**	**0.3**	**0.5**	**0.5**	**0.8**	**1.5**	**0.3**	**0.5**	**1.2**	**0.4**	
		C.D. (1%)	**0.3**	**1.5**	**0.8**	**0.7**	**1.4**	**0.5**	**0.7**	**0.7**	**1.1**	**2.2**	**0.5**	**0.7**	**1.8**	**0.6**	
		C.V. (%)	**6.2**	**20.9**	**10.6**	**12.2**	**12.6**	**5.2**	**12.2**	**11.9**	**13.7**	**19.5**	**8.4**	**10.8**	**18.2**	**15.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.298**	**0.000**	**0.000**	**0.981**	**0.000**	**0.000**	**0.125**	**0.021**	

Table I.166: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 PANICLE LENGTH (cm) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	23	-	-	23	26	26	25	**25**	-	-	**-**	-	-	**-**	**25**	**3**
2	AHPT 802	MH 2743	23	25	22	23	30	30	27	**26**	25	23	**24**	23	27	**25**	**25**	**1**
3	AHPT 803	HHB 67 Imp. (Check)	22	23	19	20	27	24	28	**23**	17	20	**18**	19	24	**21**	**22**	**8**
4	AHPT 804	MH 2744	22	26	22	22	27	30	26	**25**	23	22	**23**	23	23	**23**	**24**	**4**
5	AHPT 805	MPMH 35 (Check)	22	25	21	22	30	22	26	**24**	22	22	**22**	22	24	**23**	**24**	**5**
6	AHPT 806	MH 2747	22	20	18	19	29	27	22	**23**	20	19	**20**	21	22	**22**	**22**	**9**
7	AHPT 807	PB 1756 (Check)	23	24	23	23	30	27	-	**25**	25	24	**25**	24	24	**24**	**25**	**2**
8	AHPT 808	MH 2758	22	20	22	23	30	24	25	**24**	23	24	**24**	21	23	**22**	**23**	**6**
9	AHPT 809	AHB 1200 (Check)	22	24	22	20	30	26	20	**23**	20	21	**21**	23	27	**25**	**23**	**7**
		LOC. MEAN	**22**	**23**	**21**	**22**	**29**	**26**	**25**	**24**	**22**	**22**	**22**	**22**	**24**	**23**	**24**	
		C.D. (5%)	**2.0**	**4.0**	**3.0**	**2.0**	**2.0**	**5.0**	**4.0**	**2.0**	**2.0**	**3.0**	**2.0**	**2.0**	**4.0**	**3.0**	**2.0**	
		C.D. (1%)	**3.0**	**5.0**	**4.0**	**3.0**	**2.0**	**8.0**	**5.0**	**3.0**	**2.0**	**4.0**	**3.0**	**2.0**	**5.0**	**4.0**	**2.0**	
		C.V. (%)	**4.8**	**9.2**	**7.9**	**6.3**	**3.3**	**12.1**	**8.4**	**8.1**	**4.5**	**6.9**	**4.6**	**4.4**	**8.4**	**5.4**	**7.5**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.097**	**0.000**	**0.000**	**0.003**	**0.000**	**0.000**	**0.117**	**0.000**	

Table I.167: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	2.6	-	-	2.8	3.3	3.3	3.0	**3.0**	-	-	**-**	-	-	**-**	**3.0**	**2**
2	AHPT 802	MH 2743	2.6	2.9	2.7	2.7	3.5	3.4	2.3	**2.9**	2.7	2.8	**2.7**	3.0	3.6	**3.3**	**2.9**	**4**
3	AHPT 803	HHB 67 Imp. (Check)	2.6	2.3	2.1	2.3	3.3	3.2	3.5	**2.8**	2.0	2.3	**2.2**	2.5	2.9	**2.7**	**2.6**	**9**
4	AHPT 804	MH 2744	2.7	2.7	2.6	3.0	3.3	3.4	2.4	**2.9**	2.6	2.7	**2.7**	3.3	3.4	**3.3**	**2.9**	**3**
5	AHPT 805	MPMH 35 (Check)	2.5	2.4	2.3	2.5	3.4	3.3	3.4	**2.8**	2.2	2.4	**2.3**	2.6	3.5	**3.1**	**2.8**	**7**
6	AHPT 806	MH 2747	2.7	2.4	2.5	2.4	3.2	3.2	2.4	**2.7**	2.4	2.7	**2.6**	2.9	3.1	**3.0**	**2.7**	**8**
7	AHPT 807	PB 1756 (Check)	2.6	2.9	2.4	2.7	3.4	3.2	-	**2.9**	2.5	2.8	**2.7**	3.1	3.1	**3.1**	**2.9**	**6**
8	AHPT 808	MH 2758	2.6	2.5	2.4	2.7	3.6	3.3	3.1	**2.9**	2.6	2.7	**2.7**	2.9	3.4	**3.1**	**2.9**	**5**
9	AHPT 809	AHB 1200 (Check)	2.5	3.4	3.0	2.8	3.5	3.3	2.5	**3.0**	2.7	3.1	**2.9**	3.3	3.8	**3.6**	**3.1**	**1**
		LOC. MEAN	**2.6**	**2.7**	**2.5**	**2.6**	**3.4**	**3.3**	**2.8**	**2.9**	**2.5**	**2.7**	**2.6**	**3.0**	**3.3**	**3.1**	**2.9**	
		C.D. (5%)	**0.1**	**0.5**	**0.3**	**0.4**	**0.4**	**0.3**	**0.4**	**0.3**	**0.2**	**0.4**	**0.2**	**0.2**	**0.3**	**0.5**	**0.2**	
		C.D. (1%)	**0.2**	**0.7**	**0.5**	**0.5**	**0.6**	**0.4**	**0.6**	**0.4**	**0.3**	**0.5**	**0.3**	**0.3**	**0.5**	**0.8**	**0.3**	
		C.V. (%)	**3.0**	**10.1**	**7.4**	**7.6**	**7.4**	**4.7**	**8.7**	**10.3**	**5.1**	**8.2**	**3.2**	**4.2**	**5.8**	**6.9**	**9.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.595**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.076**	**0.003**	

Table I.168: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 1000-SEED Wt. (g) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	FTR	SDR	JLR	NGR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	8.2	-	-	8.1	6.1	7.8	5.0	**7.0**	**-**	**-**	**-**	-	-	**-**	**7.0**	**9**
2	AHPT 802	MH 2743	8.4	10.1	9.3	8.0	7.2	8.0	7.1	**8.3**	**8.7**	**10.2**	**9.5**	9.5	10.2	**9.8**	**8.8**	**3**
3	AHPT 803	HHB 67 Imp. (Check)	7.7	9.5	10.9	9.4	7.1	8.1	7.5	**8.6**	**7.4**	**9.2**	**8.3**	8.4	9.6	**9.0**	**8.6**	**5**
4	AHPT 804	MH 2744	8.6	10.2	10.4	10.0	6.0	7.8	6.8	**8.5**	**8.8**	**10.1**	**9.5**	9.7	9.4	**9.5**	**8.9**	**2**
5	AHPT 805	MPMH 35 (Check)	8.2	10.2	10.1	8.0	6.4	7.9	7.4	**8.3**	**7.4**	**9.5**	**8.5**	9.1	7.9	**8.5**	**8.4**	**7**
6	AHPT 806	MH 2747	8.2	10.0	10.7	7.9	6.8	8.1	5.3	**8.2**	**7.4**	**9.4**	**8.4**	8.5	11.8	**10.2**	**8.6**	**6**
7	AHPT 807	PB 1756 (Check)	8.2	10.8	9.1	8.9	6.6	8.0	-	**8.6**	**9.5**	**9.9**	**9.7**	9.3	13.0	**11.2**	**9.3**	**1**
8	AHPT 808	MH 2758	7.6	8.6	9.3	8.3	6.5	8.2	7.2	**8.0**	**7.5**	**10.6**	**9.0**	8.5	8.9	**8.7**	**8.3**	**8**
9	AHPT 809	AHB 1200 (Check)	7.9	10.7	10.1	8.7	6.1	8.2	5.3	**8.1**	**7.9**	**9.8**	**8.9**	8.5	13.1	**10.8**	**8.8**	**4**
		LOC. MEAN	**8.1**	**10.0**	**10.0**	**8.6**	**6.5**	**8.0**	**6.4**	**8.2**	**8.1**	**9.8**	**9.0**	**8.9**	**10.5**	**9.7**	**8.6**	
		C.D. (5%)	**1.1**	**1.1**	**1.1**	**0.7**	**1.2**	**0.3**	**0.7**	**0.7**	**0.8**	**0.4**	**1.3**	**0.7**	**1.2**	**3.4**	**0.7**	
		C.D. (1%)	**1.5**	**1.6**	**1.6**	**1.0**	**1.6**	**0.4**	**1.0**	**0.9**	**1.2**	**0.5**	**1.9**	**0.9**	**1.7**	**5.1**	**0.9**	
		C.V. (%)	**7.5**	**6.4**	**6.6**	**5.0**	**10.2**	**2.1**	**6.4**	**7.7**	**5.9**	**2.3**	**6.2**	**4.3**	**6.8**	**15.0**	**9.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.522**	**0.000**	**0.000**	**0.220**	**0.000**	**0.000**	**0.554**	**0.549**	

Table I.169: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 POPULATION AT HARVEST (No./plot) ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	SDR	JLR	RAJ MEAN	SKN	KTR	GUJ MEAN	BWL	HSR	HAR MEAN	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	157	-	-	146	82	**128**	-	-	**-**	-	-	**-**	**128**	**1**
2	AHPT 802	MH 2743	165	118	133	154	76	**129**	120	67	**93**	161	137	**149**	**125**	**6**
3	AHPT 803	HHB 67 Imp. (Check)	167	115	135	148	80	**129**	115	73	**94**	144	132	**138**	**123**	**8**
4	AHPT 804	MH 2744	166	132	132	138	74	**129**	115	95	**105**	154	138	**146**	**127**	**2**
5	AHPT 805	MPMH 35 (Check)	161	106	128	142	85	**124**	106	73	**90**	158	130	**144**	**121**	**9**
6	AHPT 806	MH 2747	152	129	132	152	76	**128**	113	65	**89**	166	141	**154**	**125**	**7**
7	AHPT 807	PB 1756 (Check)	154	111	125	153	82	**125**	123	85	**104**	162	140	**151**	**126**	**5**
8	AHPT 808	MH 2758	168	114	133	157	83	**131**	123	66	**95**	166	134	**150**	**127**	**3**
9	AHPT 809	AHB 1200 (Check)	152	123	128	136	92	**126**	124	96	**110**	145	140	**142**	**126**	**4**
		LOC. MEAN	**160**	**119**	**131**	**147**	**81**	**128**	**117**	**78**	**97**	**157**	**136**	**147**	**125**	
		C.D. (5%)	**21.0**	**17.0**	**10.0**	**14.0**	**15.0**	**10.0**	**12.0**	**12.0**	**15.0**	**16.0**	**11.0**	**21.0**	**9.0**	
		C.D. (1%)	**29.0**	**24.0**	**14.0**	**20.0**	**20.0**	**14.0**	**16.0**	**17.0**	**20.0**	**22.0**	**15.0**	**31.0**	**12.0**	
		C.V. (%)	**7.5**	**8.4**	**4.3**	**5.6**	**10.4**	**5.0**	**5.6**	**8.8**	**10.4**	**5.7**	**4.5**	**9.1**	**6.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.374**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.170: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025
SEED SET (%) UNDER BAG ZONE A_1

S.No.	TEST CODE	ENTRY	MDR	JDR	BKR	RAJ MEAN	SKN	HSR	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	71	-	-	**71**	-	-	**71**	**8**
2	AHPT 802	MH 2743	70	83	48	**67**	66	95	**72**	**7**
3	AHPT 803	HHB 67 Imp. (Check)	69	83	50	**68**	76	96	**75**	**2**
4	AHPT 804	MH 2744	72	80	52	**68**	75	93	**75**	**3**
5	AHPT 805	MPMH 35 (Check)	69	82	50	**67**	78	93	**74**	**4**
6	AHPT 806	MH 2747	69	85	45	**66**	49	93	**68**	**9**
7	AHPT 807	PB 1756 (Check)	69	82	45	**65**	78	94	**74**	**5**
8	AHPT 808	MH 2758	71	80	47	**66**	71	95	**73**	**6**
9	AHPT 809	AHB 1200 (Check)	71	80	47	**66**	81	97	**75**	**1**
		LOC. MEAN	**70**	**82**	**48**	**67**	**72**	**95**	**73**	
		C.D. (5%)	**5.0**	**7.0**	**11.0**	**4.0**	**10.0**	**4.0**	**4.0**	
		C.D. (1%)	**7.0**	**9.0**	**16.0**	**5.0**	**13.0**	**6.0**	**5.0**	
		C.V. (%)	**3.9**	**4.6**	**13.4**	**3.1**	**7.6**	**2.5**	**3.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.764**	**0.000**	**0.000**	**0.764**	

Table I.171: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 ZONE A1
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	FTR	NGR	SKN	KTR	HSR	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	32	35	-	-	-	**33**	**7**
2	AHPT 802	MH 2743	77	57	37	36	46	**51**	**2**
3	AHPT 803	HHB 67 Imp. (Check)	27	37	51	39	63	**43**	**4**
4	AHPT 804	MH 2744	67	54	38	34	39	**46**	**3**
5	AHPT 805	MPMH 35 (Check)	39	34	48	39	56	**43**	**4**
6	AHPT 806	MH 2747	35	34	39	34	40	**36**	**6**
7	AHPT 807	PB 1756 (Check)	28	-	40	40	50	**40**	**5**
8	AHPT 808	MH 2758	29	34	43	33	40	**36**	**6**
9	AHPT 809	AHB 1200 (Check)	31	53	59	64	78	**57**	**1**

Table I.172: ADVANCE HYBRID & POPULATION TRIAL (Early) KHARIF - 2025 ZONE A1
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	FTR	NGR	SKN	KTR	HSR	ZONE MEAN	RANK
1	AHPT 801	RHB 223 (Check)	25	28	-	-	-	**27**	**7**
2	AHPT 802	MH 2743	35	30	30	29	39	**33**	**5**
3	AHPT 803	HHB 67 Imp. (Check)	24	36	35	34	50	**36**	**2**
4	AHPT 804	MH 2744	33	32	34	33	45	**35**	**3**
5	AHPT 805	MPMH 35 (Check)	32	28	34	38	44	**35**	**3**
6	AHPT 806	MH 2747	23	27	35	33	39	**31**	**6**
7	AHPT 807	PB 1756 (Check)	25	-	34	32	43	**34**	**4**
8	AHPT 808	MH 2758	31	27	35	33	40	**33**	**5**
9	AHPT 809	AHB 1200 (Check)	22	31	38	41	56	**38**	**1**

Table I.173: ADVANCE HYB. & POP. TRIAL (Early) KHARIF - 2025 ZONE A1
GRAIN QUALITY (Protein and Fat)

S.No.	TEST CODE	ENTRY	Protein (%)			Fat (%)		
			HSR	BWL	MEAN	HSR	BWL	MEAN
1	AHPT 801	RHB 223 (Check)	-	-	**-**	-	-	**-**
2	AHPT 802	MH 2743	12.0	11.8	**11.9**	5.0	5.5	**5.3**
3	AHPT 803	HHB 67 Imp. (Check)	11.2	12.5	**11.8**	5.5	5.7	**5.6**
4	AHPT 804	MH 2744	12.0	12.6	**12.3**	5.3	5.1	**5.2**
5	AHPT 805	MPMH 35 (Check)	11.5	12.4	**11.9**	5.1	5.3	**5.2**
6	AHPT 806	MH 2747	12.1	11.6	**11.8**	5.0	5.6	**5.3**
7	AHPT 807	PB 1756 (Check)	12.4	11.4	**11.9**	5.0	5.2	**5.1**
8	AHPT 808	MH 2758	11.6	11.9	**11.8**	5.0	5.1	**5.0**
9	AHPT 809	AHB 1200 (Check)	10.3	10.7	**10.5**	6.1	6.2	**6.2**

Table I.174: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF 2025 EXPERIMENTAL DETAILS ZONE A

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizer			Insecticide
							N	P	K	
RAJASTHAN										
Mandor (ARS,AU Jodhpur)	SL	8.1	09.7.25	As Per Maturity	12.8.25	Nil	40	20	0	Nil
Bikaner (SKRAU)	S	8.0	11.7.25	30.10.25	16.8.25	30.9.25	40	20	0	Nil
Jaipur (SKNAU)	SL	-	05.7.25	06.10.25	21.7.25	Nil	40	30	0	Nil
Gudamalani (ICAR-IIMR)	S	7.9	01.7.25	17.10.25	-	Life Saving	40	20	0	Nil
GUJARAT										
Jamnagar (JAU)	MB	7.6	30.6.25	11.10.25	13.7,22.7,28.7.25	10.8..25	80	40	0	Nil
HARYANA										
Hisar (CCSHAU)	SL	-	03.7.25	15.10.25	-	27.7.25	100	40	0	Nil
MADHYA PRADESH										
Gwalior (RVSKVV)	SL	7.1	20.7.25	27.10.25	21.8.25	19.8.25	60	40	20	Nil
Morena (RVSKVV)	SL	7.8	16.7.25	28.10.25	-	Nil	100	50	20	Nil

SL = Sandy Loam, MB = Medium Black, S = Sandy.

Table I.175: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR***	GLR***	MRN***	ZONE MEAN	RANK
1	**GHB 1305**	1122	1794	3247	**2055**	2712	2599	402	2583	**2219**	**8**
2	**GHB 1294**	999	1771	2753	**1841**	2131	1642	355	2436	**1913**	**22**
3	**MPMH 42**	1912	1505	2653	**2023**	2064	1871	997	2983	**2033**	**16**
4	**MPMH 35**	1956	1556	1500	**1670**	2006	1058	924	2892	**1754**	**25**
5	**RHB 223**	-	-	2181	**2181**	-	-	-	-	**2181**	**9**
6	**PB 1756**	1684	1678	2417	**1926**	2734	2773	1033	2591	**2128**	**12**
7	**HHB 234**	1592	995	1736	**1441**	1789	1313	552	1920	**1528**	**29**
8	**GHB 538**	1457	1111	1528	**1365**	1426	1353	446	1881	**1380**	**30**
9	**HHB 67 Improved**	1285	907	1686	**1293**	1520	1537	536	2828	**1350**	**32**
10	**HHB 67 Imp 2**	998	1019	2625	**1547**	2009	1438	697	2209	**1663**	**27**
11	**86M94**	1992	1319	3792	**2368**	3487	2802	1060	1286	**2648**	**5**
12	**DHBH 1397**	1651	1169	2964	**1928**	2203	1913	961	2399	**1997**	**17**
13	**PB 1852**	1324	898	2792	**1671**	2601	1705	464	1314	**1904**	**23**
14	**86M01**	2019	1285	3764	**2356**	3060	2371	1433	2023	**2532**	**7**
15	**GHB 905**	2284	972	2386	**1881**	2545	1656	1293	2515	**2047**	**14**
16	**PB 1705**	2380	1065	3667	**2370**	3621	1816	521	2040	**2683**	**4**
17	**86M80**	1982	938	3789	**2236**	4174	1969	794	1354	**2721**	**3**
18	**MP 7878**	2091	1250	3389	**2243**	4184	2047	1509	1161	**2728**	**2**
19	**86M84**	1070	583	2325	**1326**	3821	1971	1352	1226	**1950**	**20**
20	**KBH 108**	2098	799	3789	**2229**	3507	1129	641	1214	**2548**	**6**
21	**Kaveri Super Boss**	1783	1817	3483	**2361**	3864	2693	1377	1817	**2737**	**1**
22	**86M86**	1569	949	2569	**1696**	3122	2486	999	1222	**2052**	**13**
23	**RHB 233**	1225	780	2856	**1620**	2955	1417	709	2230	**1954**	**19**
24	**RHB 234**	1461	1030	3250	**1914**	2396	1795	986	1180	**2034**	**15**
25	**AHB 1269**	1058	1169	2961	**1729**	2533	1493	433	1254	**1930**	**21**
26	**AHB 1200**	1432	914	2472	**1606**	2265	1166	391	1277	**1771**	**24**
27	**HHB 299**	2014	644	3031	**1896**	2939	1985	654	1365	**2157**	**10**
28	**Dhanshakti**	1354	560	1869	**1261**	1438	1087	513	1312	**1305**	**33**
29	**ICMV 221**	1403	648	1736	**1263**	1687	1125	698	1273	**1369**	**31**
30	**Pusa Composite 701**	1621	655	2081	**1452**	2225	1041	521	1771	**1645**	**28**
31	**Pusa Composite 383**	1609	1806	2567	**1994**	2586	1216	977	1093	**2142**	**11**
32	**JBV 2**	1016	1151	2444	**1537**	2249	979	1292	1771	**1715**	**26**
33	**Raj 171**	1476	1817	2478	**1924**	2170	1069	624	1421	**1985**	**18**
	LOC. MEAN	**1591**	**1142**	**2690**	**1808**	**2626**	**1704**	**817**	**1808**	**2012**	
	C.D. (5%)	**176**	**253**	**665**	**750**	**492**	**414**	**163**	**289**	**670**	
	C.D. (1%)	**234**	**336**	**884**	**997**	**654**	**551**	**217**	**384**	**888**	
	C.V. (%)	**6.8**	**13.6**	**15.2**	**25.3**	**11.5**	**14.9**	**12.3**	**9.8**	**23.7**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.031**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	
	PLOT SIZE (m^2)	**14.40**	**14.40**	**12.00**	**-**	**14.40**	**12.00**	**12.00**	**12.00**	**-**	

***TEST LOCATION REJECTED DUE TO LOW AVERAGE YIELD (1704, 817 & 1808 kg/ha), THAN THE STATE AVERAGE YIELD (1992 & 2166 kg/ha) TAKEN OVER 10 YEARS

Table I.176: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	**GHB 1305**	5648	3646	7306	**5533**	4861	7861	3472	7922	**5697**	**5817**	**15**
2	**GHB 1294**	5655	3426	7472	**5518**	5567	6418	4167	7911	**6039**	**5802**	**16**
3	**MPMH 42**	5743	3565	5861	**5056**	5058	6889	5556	7603	**6579**	**5753**	**17**
4	**MPMH 35**	5356	3715	6472	**5181**	4873	4000	6389	8003	**7196**	**5544**	**21**
5	**RHB 223**	-	-	7222	**7222**	-	-	-	-	**-**	**7222**	**2**
6	**PB 1756**	5708	3623	6528	**5286**	5426	8314	6806	7011	**6908**	**6202**	**12**
7	**HHB 234**	5847	2894	6417	**5052**	4336	5139	5278	7433	**6356**	**5335**	**23**
8	**GHB 538**	4780	2350	7417	**4849**	3475	4556	4583	7363	**5973**	**4932**	**29**
9	**HHB 67 Improved**	5854	2593	5778	**4742**	4525	3264	3611	6728	**5169**	**4622**	**31**
10	**HHB 67 Imp 2**	4866	3113	5694	**4558**	5347	4222	4306	8153	**6229**	**5100**	**26**
11	**86M94**	7259	3391	8639	**6430**	6782	9428	6667	8189	**7428**	**7194**	**3**
12	**DHBH 1397**	5600	2894	7583	**5359**	4363	5444	6806	8356	**7581**	**5864**	**13**
13	**PB 1852**	6896	3681	6556	**5711**	7928	7639	4028	7303	**5665**	**6290**	**11**
14	**86M01**	8465	3275	6806	**6182**	5053	7833	8750	8069	**8410**	**6893**	**6**
15	**GHB 905**	8447	2616	8083	**6382**	5016	6750	8056	7153	**7604**	**6589**	**10**
16	**PB 1705**	7646	4005	10306	**7319**	6845	5700	5556	7317	**6436**	**6768**	**8**
17	**86M80**	6243	3889	8972	**6368**	9873	6278	9861	7528	**8694**	**7521**	**1**
18	**MP 7878**	5093	5208	8389	**6230**	9113	6694	8611	7244	**7928**	**7193**	**4**
19	**86M84**	5069	3704	6778	**5184**	8333	7222	8333	8558	**8446**	**6857**	**7**
20	**KBH 108**	4278	4340	6889	**5169**	7461	2694	5694	8261	**6978**	**5660**	**20**
21	**Kaveri Super Boss**	8398	3611	7222	**6410**	7222	9333	5972	8189	**7081**	**7135**	**5**
22	**86M86**	6674	2523	6944	**5380**	6602	9056	6944	7753	**7349**	**6642**	**9**
23	**RHB 233**	4787	2639	6444	**4623**	5225	3583	7222	7161	**7192**	**5295**	**24**
24	**RHB 234**	4787	2905	6750	**4814**	4676	6500	6806	7317	**7061**	**5677**	**19**
25	**AHB 1269**	5178	2627	7528	**5111**	5294	4472	3611	7092	**5351**	**5115**	**25**
26	**AHB 1200**	3877	1991	5778	**3882**	4139	3642	3611	6997	**5304**	**4291**	**33**
27	**HHB 299**	4523	2778	5556	**4285**	4775	6544	4306	6531	**5418**	**5002**	**27**
28	**Dhanshakti**	7264	2350	4861	**4825**	4847	3106	4444	7169	**5807**	**4863**	**30**
29	**ICMV 221**	3588	2558	4389	**3512**	4299	3361	5556	7933	**6744**	**4526**	**32**
30	**Pusa Composite 701**	5914	3889	6333	**5379**	7188	3389	5000	9144	**7072**	**5837**	**14**
31	**Pusa Composite 383**	4808	3773	5167	**4583**	6491	4444	6944	8397	**7671**	**5718**	**18**
32	**JBV 2**	4500	3565	6222	**4762**	6366	3333	5833	7739	**6786**	**5365**	**22**
33	**Raj 171**	5336	4167	4833	**4779**	5648	2556	4722	7442	**6082**	**4958**	**28**
	LOC. MEAN	**5753**	**3291**	**6763**	**5269**	**5844**	**5615**	**5859**	**7655**	**6757**	**5826**	
	C.D. (5%)	**824**	**461**	**1246**	**1550**	**1405**	**1226**	**671**	**539**	**2400**	**1238**	
	C.D. (1%)	**1095**	**613**	**1656**	**2060**	**1867**	**1630**	**892**	**716**	**3229**	**1633**	
	C.V. (%)	**8.8**	**8.6**	**11.3**	**18.0**	**14.7**	**13.4**	**7.0**	**4.3**	**17.4**	**20.2**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.005**	**0.000**	**0.000**	**0.000**	**0.000**	**0.224**	**0.000**	
	PLOT SIZE (m^2)	**14.40**	**14.40**	**12.00**	**-**	**14.40**	**12.00**	**12.00**	**12.00**	**-**	**-**	

Table I.177: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 DAYS TO 50% FLOWERING ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	GHB 1305	46	52	42	**46**	43	45	45	49	**47**	**46**	**23**
2	GHB 1294	46	52	44	**47**	44	46	44	53	**48**	**47**	**22**
3	MPMH 42	44	51	42	**46**	41	44	46	45	**46**	**45**	**26**
4	MPMH 35	45	48	42	**45**	40	44	42	46	**44**	**44**	**27**
5	RHB 223	-	-	42	**42**	-	-	-	-	**-**	**42**	**31**
6	PB 1756	46	49	45	**47**	43	45	45	48	**47**	**46**	**24**
7	HHB 234	44	50	44	**46**	39	45	43	48	**46**	**45**	**26**
8	GHB 538	45	52	44	**47**	41	48	43	46	**45**	**46**	**25**
9	HHB 67 Improved	42	44	43	**43**	37	42	42	45	**44**	**42**	**32**
10	HHB 67 Imp 2	43	45	42	**43**	39	43	43	43	**43**	**43**	**30**
11	86M94	46	59	48	**51**	48	49	51	50	**51**	**50**	**11**
12	DHBH 1397	45	54	46	**49**	46	47	45	51	**48**	**48**	**20**
13	PB 1852	48	63	54	**55**	52	53	58	61	**59**	**55**	**3**
14	86M01	51	55	48	**51**	48	48	50	59	**55**	**51**	**9**
15	GHB 905	51	52	47	**50**	43	47	42	49	**46**	**47**	**21**
16	PB 1705	50	60	50	**53**	50	46	50	54	**52**	**52**	**8**
17	86M80	50	64	55	**56**	55	51	53	60	**57**	**56**	**2**
18	MP 7878	49	62	54	**55**	54	53	47	60	**54**	**54**	**5**
19	86M84	54	63	54	**57**	54	56	52	60	**56**	**56**	**1**
20	KBH 108	47	62	53	**54**	52	55	53	59	**56**	**55**	**4**
21	Kaveri Super Boss	51	59	50	**53**	48	54	41	59	**50**	**52**	**7**
22	86M86	50	60	50	**53**	51	54	56	56	**56**	**54**	**6**
23	RHB 233	47	57	46	**50**	47	45	50	57	**53**	**50**	**12**
24	RHB 234	46	57	47	**50**	45	46	49	50	**49**	**48**	**17**
25	AHB 1269	49	57	45	**50**	45	45	50	55	**53**	**49**	**13**
26	AHB 1200	47	56	47	**50**	44	48	46	48	**47**	**48**	**18**
27	HHB 299	48	58	48	**51**	46	49	50	59	**54**	**51**	**10**
28	Dhanshakti	44	50	42	**45**	39	46	42	43	**43**	**44**	**28**
29	ICMV 221	45	49	44	**46**	40	44	44	39	**41**	**43**	**29**
30	Pusa Composite 701	50	53	45	**49**	45	48	48	53	**50**	**49**	**16**
31	Pusa Composite 383	51	54	46	**50**	44	47	45	49	**47**	**48**	**19**
32	JBV 2	50	54	47	**51**	46	47	48	50	**49**	**49**	**14**
33	Raj 171	53	53	44	**50**	43	50	48	51	**49**	**49**	**15**
	LOC. MEAN	**48**	**55**	**47**	**50**	**45**	**48**	**47**	**52**	**50**	**49**	
	C.D. (5%)	**2.0**	**2.0**	**2.0**	**4.0**	**2.0**	**3.0**	**2.0**	**2.0**	**6.0**	**2.0**	
	C.D. (1%)	**3.0**	**3.0**	**2.0**	**5.0**	**3.0**	**4.0**	**3.0**	**3.0**	**8.0**	**3.0**	
	C.V. (%)	**2.7**	**2.7**	**2.1**	**4.8**	**3.1**	**3.8**	**3.2**	**2.8**	**6.2**	**4.8**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.178: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 DAYS TO MATURITY ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	GHB 1305	77	83	73	**78**	71	76	87	81	**84**	**78**	**23**
2	GHB 1294	76	83	74	**78**	73	76	85	82	**83**	**78**	**22**
3	MPMH 42	74	82	73	**76**	69	74	85	79	**82**	**77**	**28**
4	MPMH 35	75	78	73	**76**	68	75	84	82	**83**	**76**	**30**
5	RHB 223	-	-	72	**72**	-	-	-	-	**-**	**72**	**33**
6	PB 1756	76	79	76	**77**	71	75	86	82	**84**	**78**	**24**
7	HHB 234	74	79	73	**75**	68	76	85	82	**83**	**77**	**27**
8	GHB 538	75	81	74	**77**	70	79	85	80	**83**	**78**	**25**
9	HHB 67 Improved	72	75	72	**73**	66	73	82	80	**81**	**74**	**32**
10	HHB 67 Imp 2	73	75	72	**73**	67	74	84	81	**83**	**75**	**31**
11	86M94	76	90	80	**82**	77	80	90	81	**86**	**82**	**9**
12	DHBH 1397	75	87	78	**80**	75	78	86	81	**84**	**80**	**18**
13	PB 1852	78	90	85	**84**	80	84	92	83	**88**	**85**	**5**
14	86M01	81	89	77	**83**	77	79	89	81	**85**	**82**	**10**
15	GHB 905	81	83	76	**80**	71	78	83	80	**82**	**79**	**21**
16	PB 1705	80	90	81	**84**	78	78	88	85	**87**	**83**	**8**
17	86M80	80	94	85	**86**	84	83	91	82	**87**	**85**	**2**
18	MP 7878	79	92	85	**85**	83	84	85	84	**85**	**84**	**6**
19	86M84	84	92	83	**86**	82	87	91	84	**88**	**86**	**1**
20	KBH 108	79	91	84	**85**	81	87	91	85	**88**	**85**	**3**
21	Kaveri Super Boss	79	91	79	**83**	77	85	85	84	**85**	**83**	**7**
22	86M86	80	90	80	**83**	79	85	90	88	**89**	**85**	**4**
23	RHB 233	78	85	77	**80**	75	77	86	89	**88**	**81**	**12**
24	RHB 234	76	85	78	**80**	74	77	86	84	**85**	**80**	**17**
25	AHB 1269	80	87	74	**80**	74	76	89	82	**86**	**80**	**16**
26	AHB 1200	77	85	77	**80**	73	80	86	84	**85**	**80**	**15**
27	HHB 299	78	88	80	**82**	75	80	87	83	**85**	**82**	**11**
28	Dhanshakti	74	80	74	**76**	67	77	83	80	**82**	**77**	**29**
29	ICMV 221	74	81	75	**77**	69	74	85	80	**83**	**77**	**26**
30	Pusa Composite 701	80	82	74	**79**	73	79	86	81	**84**	**79**	**20**
31	Pusa Composite 383	81	83	75	**80**	72	78	85	84	**84**	**80**	**19**
32	JBV 2	80	84	79	**81**	74	78	86	83	**85**	**80**	**14**
33	Raj 171	84	84	74	**81**	72	81	86	84	**85**	**81**	**13**
	LOC. MEAN	**78**	**85**	**77**	**80**	**74**	**79**	**87**	**83**	**85**	**80**	
	C.D. (5%)	**4.0**	**2.0**	**1.0**	**4.0**	**1.0**	**3.0**	**2.0**	**2.0**	**4.0**	**2.0**	
	C.D. (1%)	**5.0**	**3.0**	**1.0**	**5.0**	**2.0**	**5.0**	**3.0**	**3.0**	**5.0**	**3.0**	
	C.V. (%)	**3.0**	**1.6**	**0.7**	**3.1**	**1.2**	**2.7**	**1.4**	**1.5**	**2.4**	**2.8**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.024**	**0.000**	

Table I.179: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PLANT HEIGHT (cm.) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	GHB 1305	177	157	167	**167**	167	193	127	148	**138**	**162**	**33**
2	GHB 1294	166	172	206	**181**	183	215	149	156	**153**	**178**	**24**
3	MPMH 42	172	189	194	**185**	180	218	182	158	**170**	**185**	**18**
4	MPMH 35	177	174	208	**186**	162	222	180	153	**167**	**182**	**20**
5	RHB 223	-	-	191	**191**	-	-	-	-	**-**	**191**	**14**
6	PB 1756	180	185	202	**189**	190	221	164	161	**163**	**186**	**16**
7	HHB 234	143	185	200	**176**	165	224	135	143	**139**	**171**	**28**
8	GHB 538	151	169	193	**171**	167	204	131	124	**128**	**163**	**32**
9	HHB 67 Improved	157	170	196	**174**	154	202	140	156	**148**	**168**	**30**
10	HHB 67 Imp 2	146	176	194	**172**	171	213	162	169	**166**	**176**	**25**
11	86M94	173	200	215	**196**	191	238	190	188	**189**	**199**	**8**
12	DHBH 1397	170	192	197	**186**	189	212	169	164	**166**	**185**	**17**
13	PB 1852	171	189	216	**192**	226	227	157	180	**168**	**195**	**12**
14	86M01	167	182	226	**192**	203	213	164	179	**171**	**191**	**15**
15	GHB 905	171	168	178	**172**	172	207	149	157	**153**	**172**	**27**
16	PB 1705	178	189	216	**194**	212	227	191	180	**185**	**199**	**9**
17	86M80	195	184	230	**203**	234	236	189	177	**183**	**206**	**5**
18	MP 7878	168	191	224	**194**	233	232	196	202	**199**	**207**	**4**
19	86M84	167	181	195	**181**	230	222	189	184	**186**	**195**	**11**
20	KBH 108	186	184	237	**202**	231	213	211	194	**202**	**208**	**3**
21	Kaveri Super Boss	175	202	206	**194**	212	233	175	171	**173**	**196**	**10**
22	86M86	186	180	196	**187**	220	217	161	183	**172**	**192**	**13**
23	RHB 233	175	197	179	**184**	210	219	111	161	**136**	**179**	**22**
24	RHB 234	154	184	202	**180**	198	205	151	158	**155**	**179**	**23**
25	AHB 1269	166	195	188	**183**	199	212	124	176	**150**	**180**	**21**
26	AHB 1200	160	178	192	**177**	188	200	102	168	**135**	**170**	**29**
27	HHB 299	154	164	198	**172**	187	208	99	143	**121**	**165**	**31**
28	Dhanshakti	160	192	205	**186**	186	200	146	190	**168**	**183**	**19**
29	ICMV 221	166	185	192	**181**	180	209	110	187	**149**	**176**	**26**
30	Pusa Composite 701	182	224	256	**221**	247	227	163	210	**187**	**215**	**1**
31	Pusa Composite 383	193	215	216	**208**	236	233	183	200	**192**	**211**	**2**
32	JBV 2	194	211	193	**199**	233	222	174	193	**184**	**203**	**6**
33	Raj 171	199	193	211	**201**	233	203	179	188	**183**	**201**	**7**
	LOC. MEAN	**171**	**186**	**204**	**187**	**200**	**217**	**158**	**172**	**165**	**187**	
	C.D. (5%)	**15.0**	**12.0**	**8.0**	**19.0**	**22.0**	**25.0**	**27.0**	**9.0**	**37.0**	**15.0**	
	C.D. (1%)	**19.0**	**16.0**	**11.0**	**26.0**	**29.0**	**34.0**	**36.0**	**11.0**	**50.0**	**20.0**	
	C.V. (%)	**5.2**	**3.9**	**2.5**	**6.4**	**6.7**	**7.2**	**10.5**	**3.1**	**11.0**	**7.6**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.003**	**0.000**	

Table I.180: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	ZONE MEAN	RANK
1	GHB 1305	2.7	2.4	1.1	**2.1**	2.3	2.1	2.7	**2.2**	**14**
2	GHB 1294	2.9	2.3	1.1	**2.1**	2.9	2.1	2.5	**2.3**	**10**
3	MPMH 42	2.5	2.7	1.1	**2.1**	3.7	2.2	2.1	**2.4**	**7**
4	MPMH 35	3.2	2.5	2.3	**2.7**	4.1	2.1	2.6	**2.8**	**2**
5	RHB 223	-	-	2.6	**2.6**	-	-	-	**2.6**	**4**
6	PB 1756	2.5	2.1	1.0	**1.9**	2.9	2.2	2.3	**2.2**	**18**
7	HHB 234	2.9	3.7	1.1	**2.5**	4.3	2.2	2.4	**2.8**	**3**
8	GHB 538	2.8	2.9	1.9	**2.5**	2.7	2.2	1.5	**2.3**	**9**
9	HHB 67 Improved	3.2	2.0	2.0	**2.4**	4.1	2.1	1.9	**2.6**	**6**
10	HHB 67 Imp 2	2.9	2.3	3.0	**2.7**	4.5	2.4	2.1	**2.9**	**1**
11	86M94	3.1	1.7	1.0	**1.9**	1.6	2.3	2.2	**2.0**	**26**
12	DHBH 1397	3.3	1.7	1.0	**2.0**	1.9	2.2	2.1	**2.0**	**22**
13	PB 1852	3.3	1.6	1.2	**2.0**	2.3	2.4	1.3	**2.0**	**23**
14	86M01	3.5	2.2	1.0	**2.2**	1.9	2.4	1.5	**2.1**	**20**
15	GHB 905	3.0	3.5	1.0	**2.5**	3.7	2.2	2.0	**2.6**	**5**
16	PB 1705	3.1	2.1	1.1	**2.1**	2.8	2.1	2.0	**2.2**	**16**
17	86M80	2.7	1.3	1.1	**1.7**	1.5	2.0	2.0	**1.8**	**31**
18	MP 7878	2.5	1.8	1.0	**1.8**	1.5	2.3	2.0	**1.9**	**29**
19	86M84	2.0	1.7	1.1	**1.6**	1.7	2.1	2.2	**1.8**	**30**
20	KBH 108	1.4	1.5	1.0	**1.3**	1.9	2.1	2.1	**1.7**	**33**
21	Kaveri Super Boss	3.0	2.7	1.0	**2.2**	2.4	2.4	1.5	**2.2**	**17**
22	86M86	2.4	1.7	1.0	**1.7**	2.0	1.9	1.5	**1.8**	**32**
23	RHB 233	2.3	2.9	1.7	**2.3**	2.7	2.1	1.9	**2.3**	**11**
24	RHB 234	2.1	2.3	1.8	**2.1**	1.8	2.0	2.0	**2.0**	**24**
25	AHB 1269	2.9	1.5	1.0	**1.8**	2.5	2.2	1.8	**2.0**	**25**
26	AHB 1200	3.0	1.5	1.4	**2.0**	2.3	2.2	1.9	**2.1**	**21**
27	HHB 299	3.0	1.9	1.2	**2.0**	2.3	2.4	2.0	**2.1**	**19**
28	Dhanshakti	2.8	2.0	1.0	**1.9**	2.7	1.9	1.3	**1.9**	**27**
29	ICMV 221	2.2	1.6	1.5	**1.8**	2.5	2.2	1.6	**1.9**	**28**
30	Pusa Composite 701	2.7	2.3	1.1	**2.1**	3.3	2.0	2.0	**2.3**	**13**
31	Pusa Composite 383	2.5	2.3	1.1	**1.9**	3.2	2.3	1.9	**2.2**	**15**
32	JBV 2	2.7	2.7	1.5	**2.3**	3.1	2.1	2.0	**2.4**	**8**
33	Raj 171	2.9	2.2	2.0	**2.3**	3.4	2.0	1.3	**2.3**	**12**
	LOC. MEAN	**2.8**	**2.2**	**1.4**	**2.1**	**2.7**	**2.2**	**1.9**	**2.2**	
	C.D. (5%)	**0.3**	**0.5**	**0.4**	**0.8**	**0.8**	**0.5**	**0.3**	**0.5**	
	C.D. (1%)	**0.5**	**0.7**	**0.5**	**1.0**	**1.1**	**0.6**	**0.4**	**0.7**	
	C.V. (%)	**7.7**	**13.9**	**16.7**	**22.3**	**18.3**	**13.1**	**8.5**	**21.3**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.102**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.181: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PANICLE LENGTH (cm) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	GHB 1305	22	30	27	**26**	24	25	23	23	**23**	**25**	**12**
2	GHB 1294	21	23	25	**23**	20	24	23	22	**23**	**23**	**26**
3	MPMH 42	19	24	23	**22**	21	24	18	21	**20**	**21**	**29**
4	MPMH 35	20	22	25	**22**	22	26	22	21	**22**	**23**	**25**
5	RHB 223	-	-	21	**21**	-	-	-	-	**-**	**21**	**30**
6	PB 1756	24	25	24	**24**	23	27	22	23	**22**	**24**	**15**
7	HHB 234	21	27	21	**23**	24	28	25	23	**24**	**24**	**14**
8	GHB 538	19	22	25	**22**	22	26	18	20	**19**	**22**	**28**
9	HHB 67 Improved	18	22	26	**22**	20	25	19	19	**19**	**21**	**31**
10	HHB 67 Imp 2	18	23	29	**23**	21	26	24	24	**24**	**23**	**19**
11	86M94	21	25	30	**25**	28	26	25	27	**26**	**26**	**5**
12	DHBH 1397	21	26	23	**23**	24	26	23	23	**23**	**24**	**16**
13	PB 1852	19	22	25	**22**	23	25	22	23	**23**	**23**	**26**
14	86M01	20	27	24	**24**	27	28	25	25	**25**	**25**	**11**
15	GHB 905	21	26	22	**23**	25	26	23	23	**23**	**24**	**17**
16	PB 1705	20	24	25	**23**	24	25	23	22	**22**	**23**	**21**
17	86M80	23	21	33	**26**	32	30	26	32	**29**	**28**	**1**
18	MP 7878	20	28	26	**25**	27	25	27	26	**27**	**25**	**8**
19	86M84	19	26	25	**24**	29	26	27	29	**28**	**26**	**6**
20	KBH 108	20	25	30	**25**	26	25	28	24	**26**	**25**	**9**
21	Kaveri Super Boss	21	25	22	**23**	24	24	23	24	**24**	**23**	**20**
22	86M86	23	23	27	**24**	26	25	25	24	**25**	**25**	**13**
23	RHB 233	23	29	24	**26**	28	28	19	25	**22**	**25**	**10**
24	RHB 234	18	24	25	**23**	24	22	23	24	**23**	**23**	**23**
25	AHB 1269	21	21	21	**21**	24	24	20	23	**22**	**22**	**27**
26	AHB 1200	23	23	25	**24**	26	26	20	23	**21**	**24**	**18**
27	HHB 299	21	24	22	**22**	22	25	22	24	**23**	**23**	**24**
28	Dhanshakti	18	24	29	**24**	19	26	23	22	**23**	**23**	**22**
29	ICMV 221	22	23	17	**21**	19	26	18	21	**20**	**21**	**32**
30	Pusa Composite 701	26	29	23	**26**	28	28	28	30	**29**	**27**	**2**
31	Pusa Composite 383	21	30	27	**26**	29	28	28	24	**26**	**27**	**4**
32	JBV 2	23	26	24	**24**	32	27	24	23	**24**	**26**	**7**
33	Raj 171	25	25	28	**26**	29	26	27	28	**28**	**27**	**3**
	LOC. MEAN	**21**	**25**	**25**	**24**	**25**	**26**	**23**	**24**	**24**	**24**	
	C.D. (5%)	**2.0**	**2.0**	**2.0**	**4.0**	**3.0**	**3.0**	**1.0**	**2.0**	**3.0**	**2.0**	
	C.D. (1%)	**3.0**	**3.0**	**2.0**	**6.0**	**4.0**	**4.0**	**1.0**	**2.0**	**4.0**	**3.0**	
	C.V. (%)	**5.6**	**6.1**	**3.9**	**10.9**	**7.0**	**6.5**	**2.3**	**4.2**	**6.8**	**8.9**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.429**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.182: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PANICLE DIAMETER (cm) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	ZONE MEAN	RANK
1	GHB 1305	2.9	3.5	3.5	**3.3**	3.4	3.1	3.1	**3.3**	**4**
2	GHB 1294	2.3	3.1	3.0	**2.8**	2.9	3.0	2.4	**2.8**	**19**
3	MPMH 42	2.2	2.8	2.7	**2.6**	2.6	3.0	2.8	**2.7**	**23**
4	MPMH 35	2.1	2.6	2.3	**2.3**	2.3	3.0	2.5	**2.5**	**28**
5	RHB 223	-	-	2.5	**2.5**	-	-	-	**2.5**	**27**
6	PB 1756	2.8	2.8	2.6	**2.7**	2.8	3.1	2.5	**2.8**	**20**
7	HHB 234	1.8	2.0	2.0	**1.9**	1.9	2.7	2.4	**2.1**	**32**
8	GHB 538	2.2	2.8	2.7	**2.5**	2.4	2.9	2.4	**2.6**	**26**
9	HHB 67 Improved	1.9	2.6	2.3	**2.3**	2.1	2.8	1.9	**2.3**	**30**
10	HHB 67 Imp 2	1.5	2.6	2.2	**2.1**	2.2	2.8	2.4	**2.3**	**29**
11	86M94	2.8	3.4	3.3	**3.2**	3.5	3.7	3.4	**3.3**	**1**
12	DHBH 1397	2.9	3.6	3.4	**3.3**	3.0	3.3	3.2	**3.2**	**6**
13	PB 1852	2.8	3.1	3.3	**3.0**	3.2	3.3	3.2	**3.1**	**10**
14	86M01	2.4	3.3	2.9	**2.9**	3.1	3.1	2.5	**2.9**	**17**
15	GHB 905	2.4	2.8	2.8	**2.7**	2.2	2.9	2.7	**2.6**	**25**
16	PB 1705	2.5	3.1	2.2	**2.6**	2.9	3.1	2.7	**2.8**	**21**
17	86M80	2.8	3.0	3.3	**3.0**	3.5	3.3	2.7	**3.1**	**12**
18	MP 7878	2.8	3.7	3.0	**3.1**	3.5	3.3	3.4	**3.3**	**5**
19	86M84	2.7	3.4	4.1	**3.4**	3.3	3.3	3.1	**3.3**	**2**
20	KBH 108	2.7	3.7	3.3	**3.2**	3.3	3.2	3.3	**3.2**	**7**
21	Kaveri Super Boss	2.6	3.6	3.3	**3.2**	3.3	3.6	3.0	**3.2**	**6**
22	86M86	3.1	3.6	2.5	**3.1**	3.4	3.4	3.2	**3.2**	**8**
23	RHB 233	2.7	3.2	3.1	**3.0**	2.9	3.0	2.5	**2.9**	**16**
24	RHB 234	2.3	3.4	3.4	**3.0**	3.2	3.1	2.5	**3.0**	**14**
25	AHB 1269	2.9	3.4	3.9	**3.4**	3.6	3.3	2.6	**3.3**	**3**
26	AHB 1200	3.4	3.5	3.3	**3.4**	3.2	3.2	2.4	**3.2**	**9**
27	HHB 299	3.2	3.5	3.2	**3.3**	3.2	3.2	2.5	**3.1**	**11**
28	Dhanshakti	2.8	3.3	2.9	**3.0**	3.0	3.3	2.5	**3.0**	**15**
29	ICMV 221	2.7	3.3	2.6	**2.9**	2.9	3.3	3.1	**3.0**	**13**
30	Pusa Composite 701	3.0	3.1	2.3	**2.8**	2.3	2.9	2.4	**2.7**	**24**
31	Pusa Composite 383	2.3	3.1	2.4	**2.6**	2.7	3.1	2.6	**2.7**	**22**
32	JBV 2	2.8	3.4	2.6	**2.9**	2.4	3.4	2.6	**2.9**	**18**
33	Raj 171	1.8	2.5	2.3	**2.2**	2.1	2.7	1.6	**2.2**	**31**
	LOC. MEAN	**2.6**	**3.1**	**2.9**	**2.9**	**2.9**	**3.1**	**2.7**	**2.9**	
	C.D. (5%)	**0.2**	**0.3**	**0.1**	**0.4**	**0.3**	**0.4**	**0.2**	**0.3**	
	C.D. (1%)	**0.3**	**0.4**	**0.1**	**0.6**	**0.4**	**0.5**	**0.2**	**0.4**	
	C.V. (%)	**5.6**	**6.4**	**2.2**	**9.3**	**6.1**	**7.1**	**3.9**	**8.9**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.183: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 1000- SEED Wt.(g) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	GHB 1305	11.7	9.1	8.9	**9.9**	11.7	9.9	9.2	7.9	**8.6**	**9.8**	**14**
2	GHB 1294	10.6	7.3	7.0	**8.3**	10.4	9.5	10.8	8.1	**9.4**	**9.1**	**20**
3	MPMH 42	9.5	7.0	7.1	**7.9**	8.1	7.2	9.3	7.8	**8.5**	**8.0**	**32**
4	MPMH 35	7.4	7.5	7.8	**7.6**	9.0	7.6	9.2	8.6	**8.9**	**8.2**	**29**
5	RHB 223	-	-	7.3	**7.3**	-	-	-	-	**-**	**7.3**	**33**
6	PB 1756	8.4	10.0	9.5	**9.3**	11.6	9.1	10.6	9.7	**10.1**	**9.8**	**13**
7	HHB 234	10.3	8.3	6.8	**8.5**	7.2	7.8	8.9	8.1	**8.5**	**8.2**	**28**
8	GHB 538	8.2	8.9	8.7	**8.6**	8.9	8.5	11.0	8.0	**9.5**	**8.9**	**22**
9	HHB 67 Improved	9.8	8.5	8.2	**8.8**	9.2	7.1	8.6	8.4	**8.5**	**8.6**	**25**
10	HHB 67 Imp 2	7.5	7.7	7.3	**7.5**	8.7	7.6	8.4	9.3	**8.8**	**8.0**	**30**
11	86M94	10.8	10.6	9.2	**10.2**	11.4	9.6	11.5	8.4	**10.0**	**10.2**	**9**
12	DHBH 1397	10.3	9.0	8.7	**9.4**	10.1	8.9	9.8	9.2	**9.5**	**9.4**	**19**
13	PB 1852	8.2	7.8	9.6	**8.6**	11.6	9.4	12.1	9.5	**10.8**	**9.8**	**15**
14	86M01	11.6	9.7	8.2	**9.8**	11.4	8.9	10.5	9.6	**10.1**	**10.0**	**11**
15	GHB 905	9.2	7.5	9.2	**8.6**	8.2	8.0	7.3	6.7	**7.0**	**8.0**	**31**
16	PB 1705	11.1	9.2	9.3	**9.9**	13.5	10.8	12.2	8.5	**10.3**	**10.7**	**5**
17	86M80	10.3	8.5	9.8	**9.6**	12.4	10.5	12.2	8.6	**10.4**	**10.3**	**8**
18	MP 7878	11.7	8.8	8.5	**9.7**	13.3	10.9	12.6	9.4	**11.0**	**10.7**	**4**
19	86M84	10.1	8.3	9.1	**9.2**	12.4	11.3	14.7	9.9	**12.3**	**10.8**	**3**
20	KBH 108	11.3	8.5	10.0	**9.9**	11.2	10.3	12.8	9.9	**11.4**	**10.6**	**6**
21	Kaveri Super Boss	12.7	8.9	9.1	**10.2**	10.7	9.6	10.9	8.2	**9.6**	**10.0**	**10**
22	86M86	11.7	8.2	9.6	**9.9**	12.1	10.4	11.5	9.6	**10.5**	**10.5**	**7**
23	RHB 233	9.3	8.1	9.8	**9.1**	11.8	10.8	10.2	8.0	**9.1**	**9.7**	**16**
24	RHB 234	10.2	8.1	10.0	**9.4**	8.5	8.0	9.3	8.5	**8.9**	**9.0**	**21**
25	AHB 1269	10.7	8.4	8.9	**9.3**	10.9	8.6	10.2	9.0	**9.6**	**9.5**	**18**
26	AHB 1200	9.6	9.8	9.3	**9.6**	11.1	10.3	8.7	9.0	**8.9**	**9.7**	**17**
27	HHB 299	11.6	8.7	11.1	**10.5**	12.7	10.6	14.2	8.5	**11.4**	**11.1**	**1**
28	Dhanshakti	11.2	10.2	9.8	**10.4**	12.1	9.5	13.6	10.0	**11.8**	**10.9**	**2**
29	ICMV 221	7.5	10.4	9.1	**9.0**	11.9	7.9	12.6	9.8	**11.2**	**9.9**	**12**
30	Pusa Composite 701	9.0	8.3	9.0	**8.8**	9.3	7.8	9.0	8.1	**8.5**	**8.6**	**24**
31	Pusa Composite 383	6.7	8.5	8.0	**7.7**	9.7	9.1	10.0	7.5	**8.8**	**8.5**	**26**
32	JBV 2	8.5	8.1	7.6	**8.1**	8.8	8.0	11.6	8.4	**10.0**	**8.7**	**23**
33	Raj 171	9.5	7.1	8.0	**8.2**	8.4	7.1	10.8	8.3	**9.5**	**8.5**	**27**
	LOC. MEAN	**9.9**	**8.6**	**8.8**	**9.1**	**10.6**	**9.1**	**10.8**	**8.7**	**9.7**	**9.5**	
	C.D. (5%)	**0.2**	**1.3**	**0.8**	**1.6**	**1.0**	**1.9**	**1.0**	**0.5**	**2.1**	**1.1**	
	C.D. (1%)	**0.3**	**1.7**	**1.0**	**2.2**	**1.3**	**2.6**	**1.3**	**0.7**	**2.9**	**1.4**	
	C.V. (%)	**1.5**	**9.2**	**5.5**	**11.0**	**5.6**	**13.0**	**5.5**	**3.5**	**10.8**	**10.5**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.005**	**0.000**	**0.000**	**0.000**	**0.000**	**0.007**	**0.000**	

Table I.184: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 POPULATION AT HARVEST (No./plot) ZONE A1 & A

S.No.	ENTRY	MDR	BKR	JPR	RAJ MEAN	JMR	HSR	GLR	MRN	MP MEAN	ZONE MEAN	RANK
1	GHB 1305	93	132	230	**152**	168	169	74	134	**104**	**143**	**8**
2	GHB 1294	94	134	181	**136**	154	130	58	135	**96**	**126**	**25**
3	MPMH 42	108	125	230	**154**	152	141	48	139	**94**	**135**	**16**
4	MPMH 35	137	122	250	**169**	169	122	89	149	**119**	**148**	**2**
5	RHB 223	-	-	166	**166**	-	-	-	-	**-**	**166**	**1**
6	PB 1756	163	134	187	**162**	166	155	55	133	**94**	**142**	**10**
7	HHB 234	179	131	193	**168**	167	124	77	124	**100**	**142**	**9**
8	GHB 538	123	137	155	**139**	163	128	46	124	**85**	**125**	**26**
9	HHB 67 Improved	123	133	175	**144**	175	113	48	127	**88**	**128**	**22**
10	HHB 67 Imp 2	89	128	235	**150**	176	126	49	132	**91**	**133**	**19**
11	86M94	162	134	183	**160**	173	153	86	143	**115**	**148**	**3**
12	DHBH 1397	120	126	175	**140**	174	135	75	133	**104**	**134**	**17**
13	PB 1852	107	129	194	**143**	132	135	34	137	**86**	**124**	**27**
14	86M01	125	131	269	**175**	167	136	58	136	**97**	**146**	**5**
15	GHB 905	165	133	208	**169**	166	138	74	125	**100**	**144**	**7**
16	PB 1705	161	133	245	**180**	166	138	47	132	**90**	**146**	**4**
17	86M80	153	128	206	**162**	167	115	49	143	**96**	**137**	**13**
18	MP 7878	168	124	206	**166**	177	127	62	128	**95**	**142**	**11**
19	86M84	152	134	174	**154**	165	147	83	134	**109**	**141**	**12**
20	KBH 108	167	130	208	**168**	149	88	68	135	**102**	**135**	**15**
21	Kaveri Super Boss	156	124	233	**171**	170	151	57	128	**93**	**146**	**6**
22	86M86	85	125	237	**149**	157	147	26	134	**80**	**130**	**20**
23	RHB 233	105	130	210	**148**	117	112	15	131	**73**	**117**	**31**
24	RHB 234	143	123	232	**166**	170	115	36	124	**80**	**135**	**14**
25	AHB 1269	106	135	209	**150**	173	92	36	143	**89**	**128**	**23**
26	AHB 1200	119	133	198	**150**	161	89	30	136	**83**	**124**	**29**
27	HHB 299	97	135	181	**138**	171	133	19	130	**75**	**124**	**28**
28	Dhanshakti	155	130	177	**154**	161	101	42	124	**83**	**127**	**24**
29	ICMV 221	95	127	153	**125**	154	120	30	127	**79**	**115**	**32**
30	Pusa Composite 701	98	132	189	**140**	175	133	47	136	**92**	**130**	**21**
31	Pusa Composite 383	108	128	229	**155**	160	115	51	144	**98**	**134**	**18**
32	JBV 2	94	126	186	**136**	164	97	41	137	**89**	**121**	**30**
33	Raj 171	109	130	144	**128**	172	88	25	127	**76**	**114**	**33**
	LOC. MEAN	**127**	**130**	**201**	**153**	**163**	**125**	**51**	**133**	**92**	**133**	
	C.D. (5%)	**8.0**	**11.0**	**30.0**	**40.0**	**31.0**	**34.0**	**11.0**	**16.0**	**28.0**	**20.0**	
	C.D. (1%)	**11.0**	**15.0**	**40.0**	**53.0**	**42.0**	**46.0**	**14.0**	**21.0**	**37.0**	**26.0**	
	C.V. (%)	**4.1**	**5.3**	**9.2**	**15.9**	**11.8**	**16.7**	**12.8**	**7.3**	**14.8**	**14.1**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.489**	**0.000**	**0.000**	**0.000**	**0.000**	**0.229**	**0.003**	

Table I.185: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 SEED SET (%) UNDER BAG ZONE A1 & A

S.No.	ENTRY	JPR	HSR	GLR	ZONE MEAN	RANK
1	GHB 1305	85	95	97	**92**	**18**
2	GHB 1294	77	93	70	**80**	**33**
3	MPMH 42	92	92	100	**95**	**14**
4	MPMH 35	80	95	100	**92**	**20**
5	RHB 223	97	-	-	**97**	**5**
6	PB 1756	85	95	100	**93**	**15**
7	HHB 234	92	95	100	**95**	**10**
8	GHB 538	88	92	83	**88**	**25**
9	HHB 67 Improved	95	93	100	**96**	**8**
10	HHB 67 Imp 2	95	95	100	**97**	**4**
11	86M94	95	92	100	**96**	**9**
12	DHBH 1397	85	94	100	**93**	**17**
13	PB 1852	92	94	100	**95**	**12**
14	86M01	93	94	63	**83**	**32**
15	GHB 905	100	95	77	**90**	**23**
16	PB 1705	92	96	87	**91**	**21**
17	86M80	100	96	100	**99**	**1**
18	MP 7878	93	94	70	**86**	**30**
19	86M84	90	94	87	**90**	**24**
20	KBH 108	100	94	67	**87**	**28**
21	Kaveri Super Boss	92	90	90	**91**	**22**
22	86M86	90	95	100	**95**	**11**
23	RHB 233	97	93	100	**97**	**6**
24	RHB 234	98	93	100	**97**	**2**
25	AHB 1269	85	94	100	**93**	**16**
26	AHB 1200	93	96	100	**96**	**7**
27	HHB 299	95	94	73	**87**	**26**
28	Dhanshakti	98	96	67	**87**	**27**
29	ICMV 221	97	92	87	**92**	**19**
30	Pusa Composite 701	90	94	75	**86**	**29**
31	Pusa Composite 383	95	95	63	**84**	**31**
32	JBV 2	92	93	100	**95**	**13**
33	Raj 171	98	92	100	**97**	**3**
	LOC. MEAN	**92**	**94**	**89**	**92**	
	C.D. (5%)	**4.0**	**4.0**	**12.0**	**4.0**	
	C.D. (1%)	**5.0**	**6.0**	**16.0**	**5.0**	
	C.V. (%)	**2.6**	**2.9**	**8.3**	**2.6**	
	F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.186: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 ZONE A1 & A
GRAIN QUALITY (Protein and Fat)

S.No.	TEST CODE	Protein (%) HSR	Fat (%) HSR
1	GHB 1305	10.1	5.0
2	GHB 1294	13.6	5.0
3	MPMH 42	14.3	5.3
4	MPMH 35	12.6	6.0
5	RHB 223	-	-
6	PB 1756	12.1	5.9
7	HHB 234	15.3	5.2
8	GHB 538	12.6	5.6
9	HHB 67 Improved	11.1	5.7
10	HHB 67 Imp 2	11.3	5.1
11	86M94	13.5	5.2
12	DHBH 1397	13.6	6.1
13	PB 1852	14.5	5.8
14	86M01	14.4	5.3
15	GHB 905	14.1	5.5
16	PB 1705	9.8	5.1
17	86M80	10.4	5.9
18	MP 7878	12.8	5.3
19	86M84	12.0	4.9
20	KBH 108	10.4	5.8
21	Kaveri Super Boss	11.0	5.6
22	86M86	10.9	5.0
23	RHB 233	13.3	5.1
24	RHB 234	12.1	4.9
25	AHB 1269	12.3	5.0
26	AHB 1200	13.0	5.1
27	HHB 299	11.5	6.2
28	Dhanshakti	13.7	5.7
29	ICMV 221	12.3	5.4
30	Pusa Composite 701	13.8	5.9
31	Pusa Composite 383	13.3	6.8
32	JBV 2	13.4	5.8
33	Raj 171	13.7	6.1

Table I.187: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF 2025 EXPERIMENTAL DETAILS ZONE B

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	Irrigation date	Fertilizer			Insecticide
							N	P	K	
MAHARASHTRA										
Aurangabad (NARP)	MB	7.5	16.7.25	30.10.25	-	Nil	60	30	30	Nil
Dhule (MPKV)	MB	8.6	02.7.25	11.10.25	24.7.25	Nil	60	30	0	Nil
KARNATAKA										
Vijayapur (UAS, Dharwad)	SB	8.7	09.7.25	04.11.25	19.8.25	Nil	50	25	0	Nil
ANDHRA PRADESH										
Ananthapuram (ANGRAU)	A	6.7	21.7.25	24.10.25	09.8.25	As Per Required	60	30	20	Nil
Vizianagaram (ANGRAU)	RSL	6.7	12.7.25	05.10.25	29.7.25	Nil	60	40	30	Nil
TAMIL NADU										
Coimbatore (TNAU)	CL	7.8	02.7.25	10.10.25	-	02.7,05.7,06.8,20.8.25	80	40	40	Nil
ODISHA										
Semiliguda (OUAT)	SL	-	19.7.25	As Per Maturity	-	Nil	60	30	30	Nil

A = Alfisols, MB = Medium Black, CL = Clay Loam, SB = Shallow Black, RSL = Red Sandy Loam, SL = Sandy Loam.

Table I.188: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 GRAIN YIELD (kg/ha) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	2569	1149	**1859**	1725	2561	2726	**2644**	3478	1331	**2220**	12
2	RHB 234	3031	2257	**2644**	1908	3111	2364	**2738**	3589	1481	**2534**	6
3	AHB 1269	3025	1695	**2360**	1794	3067	2717	**2892**	3772	986	**2437**	8
4	AHB 1200	3178	1673	**2425**	1696	2736	2265	**2500**	3900	1364	**2402**	10
5	HHB 299	2589	1984	**2286**	2164	2789	2604	**2696**	4247	908	**2469**	7
6	86M01	2133	2392	**2263**	2438	3681	3263	**3472**	5033	1803	**2963**	2
7	Pratap (MH 1642)	2850	1617	**2234**	2440	3022	3328	**3175**	4792	1925	**2853**	4
8	NBH 4903	3028	3268	**3148**	2661	3119	2738	**2929**	5142	2144	**3157**	1
9	86M86	3431	1747	**2589**	2246	3183	2708	**2946**	5069	2306	**2956**	3
10	Kaveri Super Boss	2778	2347	**2562**	2342	3033	3028	**3031**	4975	1228	**2819**	5
11	ABV 04	2850	2024	**2437**	2038	2667	2391	**2529**	3211	1694	**2411**	9
12	Dhanshakti	3103	1907	**2505**	1261	1728	1772	**1750**	2892	1363	**2004**	14
13	ICMV 155	2983	1457	**2220**	1494	2633	1653	**2143**	2936	1208	**2052**	13
14	ICMV 221	2000	1413	**1707**	1720	1967	2294	**2130**	2617	1508	**1931**	16
15	Pusa Comp. 612	2386	1619	**2002**	1787	2250	2868	**2559**	2775	1867	**2222**	11
16	Raj 171	2417	1403	**1910**	1761	2244	1964	**2104**	2625	1169	**1940**	15
	LOC. MEAN	**2772**	**1872**	**2322**	**1967**	**2737**	**2543**	**2640**	**3816**	**1518**	**2461**	
	C.D. (5%)	**364**	**353**	**881**	**368**	**486**	**625**	**628**	**559**	**356**	**440**	
	C.D. (1%)	**490**	**476**	**1218**	**495**	**655**	**842**	**868**	**752**	**480**	**583**	
	C.V. (%)	**7.9**	**11.3**	**17.8**	**11.2**	**10.7**	**14.8**	**11.2**	**8.8**	**14.1**	**16.8**	
	F (Prob)	**0.000**	**0.000**	**0.239**	**0.000**	**0.000**	**0.000**	**0.003**	**0.000**	**0.000**	**0.000**	
	PLOT SIZE (m^2)	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**-**	

Table I.189: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 DRY FODDER YIELD (kg/ha) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	RHB 233	6750	1832	**4291**	2444	4239	4465	**4352**	4372	**4017**	16
2	RHB 234	7528	3724	**5626**	2111	4606	5526	**5066**	5767	**4877**	8
3	AHB 1269	6611	3153	**4882**	2306	5411	4721	**5066**	4439	**4440**	15
4	AHB 1200	6833	4024	**5429**	2361	4719	5477	**5098**	4894	**4718**	9
5	HHB 299	7000	3754	**5377**	3028	5450	5489	**5470**	5469	**5032**	5
6	86M01	7444	3694	**5569**	3361	6861	5015	**5938**	5636	**5335**	4
7	Pratap (MH 1642)	7167	3003	**5085**	2500	5267	4144	**4706**	5144	**4538**	13
8	NBH 4903	7417	7838	**7627**	4361	8719	4021	**6370**	9378	**6956**	1
9	86M86	6778	3393	**5086**	3222	5867	4829	**5348**	6014	**5017**	6
10	Kaveri Super Boss	7306	4084	**5695**	3111	5589	4291	**4940**	4956	**4889**	7
11	ABV 04	6472	3453	**4963**	2444	5931	5345	**5638**	4619	**4711**	10
12	Dhanshakti	7056	3393	**5224**	2306	4014	5523	**4768**	4775	**4511**	14
13	ICMV 155	7111	5105	**6108**	3694	5969	4027	**4998**	6211	**5353**	3
14	ICMV 221	7500	3183	**5342**	3222	4756	5015	**4885**	4522	**4700**	11
15	Pusa Comp. 612	7806	5195	**6500**	3556	6519	4622	**5571**	6439	**5689**	2
16	Raj 171	7083	3003	**5043**	2722	4914	4526	**4720**	5675	**4654**	12
	LOC. MEAN	**7116**	**3864**	**5490**	**2922**	**5552**	**4815**	**5183**	**5519**	**4965**	
	C.D. (5%)	**1499**	**1089**	**1822**	**775**	**906**	**1088**	**2235**	**907**	**852**	
	C.D. (1%)	**2019**	**1466**	**2519**	**1044**	**1221**	**1465**	**3089**	**1221**	**1130**	
	C.V. (%)	**12.6**	**16.9**	**15.6**	**15.9**	**9.8**	**13.6**	**20.2**	**9.9**	**14.9**	
	F (Prob)	**0.000**	**0.000**	**0.187**	**0.000**	**0.000**	**0.000**	**0.916**	**0.000**	**0.000**	
	PLOT SIZE (m^2)	**12.00**	**11.10**	**-**	**12.00**	**12.00**	**11.10**	**-**	**12.00**	**-**	

Table I.190: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 DAYS TO 50% FLOWERING ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	57	55	**56**	49	42	49	**45**	43	43	**48**	**10**
2	RHB 234	54	53	**54**	49	42	50	**46**	48	39	**48**	**11**
3	AHB 1269	54	56	**55**	48	43	45	**44**	48	40	**48**	**12**
4	AHB 1200	55	55	**55**	48	42	46	**44**	44	43	**47**	**13**
5	HHB 299	55	55	**55**	49	45	46	**46**	47	45	**49**	**7**
6	86M01	54	54	**54**	49	45	50	**48**	48	43	**49**	**5**
7	Pratap (MH 1642)	51	57	**54**	49	43	48	**45**	47	44	**48**	**9**
8	NBH 4903	58	54	**56**	52	53	48	**51**	57	50	**53**	**1**
9	86M86	59	56	**58**	52	48	48	**48**	48	47	**51**	**2**
10	Kaveri Super Boss	52	54	**53**	52	45	48	**46**	48	42	**49**	**8**
11	ABV 04	55	57	**56**	51	45	48	**47**	49	44	**50**	**3**
12	Dhanshakti	52	44	**48**	50	36	45	**40**	42	35	**43**	**15**
13	ICMV 155	53	56	**55**	52	45	47	**46**	49	44	**49**	**4**
14	ICMV 221	52	51	**51**	53	35	47	**41**	41	35	**45**	**14**
15	Pusa Comp. 612	52	54	**53**	52	45	50	**47**	47	44	**49**	**6**
16	Raj 171	53	55	**54**	51	44	47	**46**	47	43	**49**	**7**
	LOC. MEAN	**54**	**54**	**54**	**50**	**44**	**48**	**46**	**47**	**42**	**48**	
	C.D. (5%)	**2.0**	**2.0**	**5.0**	**0.0**	**2.0**	**3.0**	**6.0**	**1.0**	**2.0**	**2.0**	
	C.D. (1%)	**3.0**	**3.0**	**7.0**	**1.0**	**2.0**	**4.0**	**8.0**	**1.0**	**2.0**	**3.0**	
	C.V. (%)	**2.1**	**2.5**	**4.1**	**0.6**	**2.4**	**3.6**	**6.1**	**1.3**	**2.5**	**4.7**	
	F (Prob)	**0.000**	**0.000**	**0.111**	**0.000**	**0.000**	**0.000**	**0.207**	**0.000**	**0.000**	**0.000**	

Table I.191: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 DAYS TO MATURITY ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	97	90	**93**	87	78	80	**79**	75	85	**85**	**12**
2	RHB 234	95	88	**92**	87	79	82	**80**	81	88	**86**	**9**
3	AHB 1269	96	91	**94**	86	80	76	**78**	81	86	**85**	**10**
4	AHB 1200	98	90	**94**	86	78	79	**79**	75	86	**85**	**13**
5	HHB 299	98	90	**94**	87	81	78	**80**	79	91	**86**	**8**
6	86M01	97	89	**93**	87	83	84	**84**	85	87	**87**	**4**
7	Pratap (MH 1642)	93	92	**92**	87	79	79	**79**	79	86	**85**	**11**
8	NBH 4903	99	89	**94**	90	91	80	**86**	89	88	**89**	**1**
9	86M86	100	91	**96**	90	85	78	**82**	81	89	**88**	**3**
10	Kaveri Super Boss	97	89	**93**	90	81	79	**80**	85	86	**87**	**6**
11	ABV 04	100	92	**96**	89	82	80	**81**	81	87	**87**	**5**
12	Dhanshakti	95	79	**87**	88	72	77	**75**	75	87	**82**	**15**
13	ICMV 155	96	91	**93**	90	82	80	**81**	89	86	**88**	**2**
14	ICMV 221	97	86	**91**	91	72	79	**75**	74	87	**83**	**14**
15	Pusa Comp. 612	98	89	**94**	90	82	82	**82**	80	86	**87**	**7**
16	Raj 171	97	90	**94**	89	81	79	**80**	80	89	**86**	**8**
	LOC. MEAN	**97**	**89**	**93**	**88**	**80**	**80**	**80**	**81**	**87**	**86**	
	C.D. (5%)	**1.0**	**2.0**	**5.0**	**1.0**	**2.0**	**4.0**	**6.0**	**1.0**	**2.0**	**3.0**	
	C.D. (1%)	**1.0**	**3.0**	**6.0**	**1.0**	**3.0**	**5.0**	**9.0**	**2.0**	**3.0**	**4.0**	
	C.V. (%)	**0.6**	**1.5**	**2.3**	**0.6**	**1.7**	**2.8**	**3.8**	**1.1**	**1.7**	**3.0**	
	F (Prob)	**0.000**	**0.000**	**0.150**	**0.000**	**0.000**	**0.000**	**0.191**	**0.000**	**0.000**	**0.000**	

Table I.192: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PLANT HEIGHT (cm.) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	170	204	**187**	152	124	175	**149**	167	199	**170**	**15**
2	RHB 234	165	213	**189**	152	122	178	**150**	174	186	**170**	**14**
3	AHB 1269	182	231	**207**	144	138	174	**156**	173	194	**177**	**9**
4	AHB 1200	188	226	**207**	151	111	167	**139**	168	185	**171**	**13**
5	HHB 299	177	226	**201**	164	114	175	**145**	170	195	**174**	**11**
6	86M01	165	224	**195**	154	111	175	**143**	185	193	**172**	**12**
7	Pratap (MH 1642)	167	209	**188**	138	112	171	**142**	165	196	**166**	**16**
8	NBH 4903	207	259	**233**	188	128	188	**158**	216	214	**200**	**1**
9	86M86	157	243	**200**	183	129	196	**162**	185	213	**186**	**4**
10	Kaveri Super Boss	167	219	**193**	150	130	189	**160**	173	205	**176**	**10**
11	ABV 04	170	240	**205**	147	126	171	**149**	175	210	**177**	**7**
12	Dhanshakti	170	221	**195**	171	132	170	**151**	171	203	**177**	**8**
13	ICMV 155	177	272	**224**	181	140	203	**171**	184	215	**196**	**3**
14	ICMV 221	158	231	**195**	154	135	170	**152**	196	201	**178**	**6**
15	Pusa Comp. 612	192	275	**234**	181	137	191	**164**	203	212	**199**	**2**
16	Raj 171	185	235	**210**	170	128	188	**158**	188	206	**186**	**5**
	LOC. MEAN	**175**	**233**	**204**	**161**	**126**	**180**	**153**	**181**	**202**	**180**	
	C.D. (5%)	**13.0**	**17.0**	**27.0**	**4.0**	**20.0**	**15.0**	**16.0**	**9.0**	**14.0**	**10.0**	
	C.D. (1%)	**17.0**	**23.0**	**37.0**	**5.0**	**27.0**	**21.0**	**21.0**	**13.0**	**19.0**	**14.0**	
	C.V. (%)	**4.4**	**4.5**	**6.2**	**1.4**	**9.5**	**5.1**	**4.8**	**3.1**	**4.3**	**5.4**	
	F (Prob)	**0.000**	**0.000**	**0.029**	**0.000**	**0.000**	**0.000**	**0.021**	**0.000**	**0.000**	**0.000**	

Table I.193: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PRODUCTIVE TILLERS (No./Plant) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	2.7	2.3	**2.5**	2.6	3.1	2.1	**2.6**	3.5	2.9	**2.7**	**3**
2	RHB 234	3.3	1.8	**2.6**	2.3	3.6	1.9	**2.7**	2.6	2.7	**2.6**	**5**
3	AHB 1269	3.7	2.0	**2.8**	2.6	3.1	2.0	**2.6**	3.0	2.8	**2.7**	**2**
4	AHB 1200	3.7	1.8	**2.8**	2.7	2.7	2.1	**2.4**	2.6	2.3	**2.5**	**7**
5	HHB 299	2.7	1.8	**2.2**	2.4	3.1	1.7	**2.4**	2.7	2.7	**2.4**	**12**
6	86M01	2.7	2.0	**2.4**	2.4	3.7	2.0	**2.9**	2.7	2.9	**2.6**	**4**
7	Pratap (MH 1642)	2.0	1.4	**1.7**	2.5	2.9	1.5	**2.2**	2.5	2.7	**2.2**	**15**
8	NBH 4903	2.7	2.5	**2.6**	2.7	3.5	2.0	**2.8**	2.5	3.3	**2.8**	**1**
9	86M86	2.7	1.6	**2.1**	2.7	2.9	1.6	**2.3**	2.5	3.4	**2.5**	**10**
10	Kaveri Super Boss	2.3	1.7	**2.0**	2.9	2.5	1.8	**2.1**	2.5	3.0	**2.4**	**13**
11	ABV 04	2.7	1.9	**2.3**	2.8	2.9	2.3	**2.6**	2.9	2.9	**2.6**	**5**
12	Dhanshakti	2.7	1.9	**2.3**	2.4	1.9	1.8	**1.9**	2.8	2.9	**2.3**	**14**
13	ICMV 155	2.3	2.1	**2.2**	2.6	3.8	1.7	**2.7**	2.5	2.7	**2.5**	**8**
14	ICMV 221	3.3	1.9	**2.6**	2.6	2.7	2.0	**2.4**	2.8	2.3	**2.5**	**9**
15	Pusa Comp. 612	2.7	2.3	**2.5**	3.1	2.6	1.9	**2.2**	2.7	2.9	**2.6**	**6**
16	Raj 171	2.3	2.7	**2.5**	2.9	2.3	1.8	**2.0**	2.9	2.5	**2.5**	**11**
	LOC. MEAN	**2.8**	**2.0**	**2.4**	**2.6**	**3.0**	**1.9**	**2.4**	**2.7**	**2.8**	**2.5**	
	C.D. (5%)	**0.9**	**0.2**	**0.9**	**0.5**	**0.7**	**0.4**	**0.8**	**0.6**	**0.4**	**0.4**	
	C.D. (1%)	**1.3**	**0.3**	**1.2**	**0.7**	**0.9**	**0.5**	**1.1**	**0.8**	**0.5**	**0.5**	
	C.V. (%)	**20.5**	**5.8**	**17.9**	**12.4**	**13.8**	**11.6**	**16.0**	**12.4**	**8.2**	**13.5**	
	F (Prob)	**0.000**	**0.000**	**0.576**	**0.000**	**0.000**	**0.000**	**0.415**	**0.000**	**0.000**	**0.221**	

Table I.194: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PANICLE LENGTH (cm) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	20	26	**23**	20	22	21	**21**	25	21	**22**	8
2	RHB 234	24	25	**25**	19	20	18	**19**	25	19	**22**	10
3	AHB 1269	24	25	**25**	20	26	18	**22**	25	20	**23**	6
4	AHB 1200	25	26	**25**	20	21	18	**19**	24	20	**22**	9
5	HHB 299	25	25	**25**	23	20	19	**19**	25	21	**23**	7
6	86M01	24	27	**26**	24	21	21	**21**	26	20	**23**	5
7	Pratap (MH 1642)	19	24	**22**	20	20	18	**19**	23	18	**20**	14
8	NBH 4903	26	27	**27**	25	22	22	**22**	27	21	**24**	3
9	86M86	23	26	**25**	22	23	21	**22**	26	22	**23**	5
10	Kaveri Super Boss	18	25	**22**	20	20	19	**20**	22	17	**20**	13
11	ABV 04	25	25	**25**	24	24	17	**21**	25	23	**23**	4
12	Dhanshakti	25	24	**25**	19	19	17	**18**	21	20	**21**	12
13	ICMV 155	27	31	**29**	27	21	20	**21**	28	21	**25**	1
14	ICMV 221	20	25	**23**	21	21	17	**19**	24	19	**21**	11
15	Pusa Comp. 612	27	30	**29**	23	22	20	**21**	29	22	**25**	2
16	Raj 171	23	30	**26**	31	22	20	**21**	27	22	**25**	2
	LOC. MEAN	**23**	**26**	**25**	**22**	**21**	**19**	**20**	**25**	**20**	**23**	
	C.D. (5%)	**2.0**	**2.0**	**4.0**	**1.0**	**3.0**	**2.0**	**3.0**	**3.0**	**2.0**	**2.0**	
	C.D. (1%)	**3.0**	**2.0**	**5.0**	**2.0**	**5.0**	**3.0**	**5.0**	**4.0**	**3.0**	**2.0**	
	C.V. (%)	**5.3**	**4.1**	**7.2**	**3.4**	**9.8**	**7.1**	**7.6**	**6.5**	**5.8**	**7.6**	
	F (Prob)	**0.000**	**0.000**	**0.029**	**0.000**	**0.000**	**0.000**	**0.239**	**0.000**	**0.000**	**0.000**	

Table I.195: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 PANICLE DIAMETER (cm) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	RHB 233	2.6	3.3	**2.9**	2.7	2.6	1.3	**1.9**	2.4	**2.5**	12
2	RHB 234	3.2	3.4	**3.3**	2.1	2.7	1.2	**2.0**	2.6	**2.5**	11
3	AHB 1269	2.8	3.5	**3.1**	2.2	2.9	1.3	**2.1**	2.8	**2.6**	9
4	AHB 1200	3.1	3.6	**3.4**	2.3	3.0	1.3	**2.2**	2.8	**2.7**	3
5	HHB 299	3.1	3.5	**3.3**	2.4	2.9	1.3	**2.1**	2.8	**2.7**	4
6	86M01	3.2	3.3	**3.2**	2.4	2.8	1.3	**2.1**	2.8	**2.6**	7
7	Pratap (MH 1642)	3.0	3.5	**3.3**	2.7	2.9	1.4	**2.2**	2.8	**2.7**	2
8	NBH 4903	3.1	3.6	**3.4**	2.6	3.0	1.5	**2.3**	3.1	**2.8**	1
9	86M86	3.0	3.6	**3.3**	2.5	2.8	1.2	**2.0**	2.8	**2.6**	5
10	Kaveri Super Boss	3.0	3.6	**3.3**	2.4	2.9	1.1	**2.0**	2.7	**2.6**	6
11	ABV 04	2.6	3.4	**3.0**	2.4	2.8	1.3	**2.0**	2.8	**2.5**	10
12	Dhanshakti	2.7	3.4	**3.1**	2.2	2.7	1.4	**2.0**	2.5	**2.5**	12
13	ICMV 155	2.6	3.0	**2.8**	2.3	2.2	0.9	**1.5**	2.7	**2.3**	14
14	ICMV 221	3.0	3.4	**3.2**	2.4	2.9	1.0	**1.9**	2.9	**2.6**	8
15	Pusa Comp. 612	2.8	3.3	**3.0**	2.4	2.2	1.1	**1.7**	2.5	**2.4**	13
16	Raj 171	2.6	2.7	**2.7**	2.3	1.9	0.8	**1.3**	1.9	**2.0**	15
	LOC. MEAN	**2.9**	**3.4**	**3.1**	**2.4**	**2.7**	**1.2**	**2.0**	**2.7**	**2.5**	
	C.D. (5%)	**0.1**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**	**0.3**	**0.2**	**0.2**	
	C.D. (1%)	**0.2**	**0.3**	**0.4**	**0.2**	**0.4**	**0.3**	**0.5**	**0.3**	**0.2**	
	C.V. (%)	**2.8**	**3.7**	**4.7**	**2.8**	**6.0**	**10.6**	**8.1**	**5.3**	**6.4**	
	F (Prob)	**0.000**	**0.000**	**0.006**	**0.000**	**0.000**	**0.000**	**0.002**	**0.000**	**0.000**	

Table I.196: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 1000-SEED Wt.(g) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	SMG	ZONE MEAN	RANK
1	RHB 233	9.1	13.9	**11.5**	14.6	14.2	7.1	**10.7**	13.6	11.2	**11.9**	5
2	RHB 234	8.3	9.0	**8.7**	14.1	10.2	5.6	**7.9**	8.0	11.8	**9.6**	16
3	AHB 1269	7.5	11.7	**9.6**	14.1	11.7	7.1	**9.4**	12.3	10.2	**10.7**	12
4	AHB 1200	9.2	10.4	**9.8**	14.8	12.4	7.2	**9.8**	11.5	10.7	**10.9**	11
5	HHB 299	8.0	13.9	**10.9**	14.5	13.9	7.4	**10.6**	13.8	11.3	**11.8**	7
6	86M01	14.4	11.0	**12.7**	15.5	14.4	6.3	**10.4**	14.3	11.8	**12.5**	1
7	Pratap (MH 1642)	11.5	13.0	**12.3**	14.6	13.1	7.8	**10.4**	13.6	10.8	**12.1**	3
8	NBH 4903	7.6	13.9	**10.8**	14.9	13.8	7.7	**10.7**	14.5	13.3	**12.2**	2
9	86M86	12.4	12.7	**12.5**	15.5	11.9	6.6	**9.2**	12.9	11.0	**11.8**	6
10	Kaveri Super Boss	11.5	10.4	**11.0**	14.0	12.1	6.8	**9.5**	12.5	12.7	**11.4**	9
11	ABV 04	12.7	11.1	**11.9**	13.2	12.3	5.8	**9.0**	12.1	10.0	**11.0**	10
12	Dhanshakti	11.8	11.3	**11.5**	15.4	12.9	8.0	**10.5**	13.5	11.0	**12.0**	4
13	ICMV 155	9.2	9.1	**9.2**	13.5	9.9	6.6	**8.3**	12.3	9.0	**9.9**	15
14	ICMV 221	12.7	13.5	**13.1**	13.9	11.9	6.7	**9.3**	11.3	11.0	**11.6**	8
15	Pusa Comp. 612	9.4	9.8	**9.6**	13.3	9.3	6.4	**7.9**	10.5	11.2	**10.0**	14
16	Raj 171	9.6	9.2	**9.4**	14.2	9.2	6.8	**8.0**	9.6	12.5	**10.1**	13
	LOC. MEAN	**10.3**	**11.5**	**10.9**	**14.4**	**12.1**	**6.9**	**9.5**	**12.3**	**11.2**	**11.2**	
	C.D. (5%)	**0.5**	**0.6**	**4.1**	**0.3**	**1.3**	**0.8**	**2.2**	**1.5**	**1.3**	**1.3**	
	C.D. (1%)	**0.6**	**0.8**	**5.7**	**0.4**	**1.8**	**1.1**	**3.1**	**2.0**	**1.8**	**1.8**	
	C.V. (%)	**2.8**	**3.2**	**17.8**	**1.3**	**6.5**	**7.3**	**11.1**	**7.2**	**7.1**	**11.3**	
	F (Prob)	**0.000**	**0.000**	**0.472**	**0.000**	**0.000**	**0.000**	**0.108**	**0.000**	**0.000**	**0.000**	

Table I.197: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025 POPULATION AT HARVEST (No./ plot) ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	VYP	APR	VZN	AP MEAN	CBE	ZONE MEAN	RANK
1	RHB 233	151	108	**130**	44	156	145	**151**	91	**116**	13
2	RHB 234	151	118	**135**	45	159	145	**152**	106	**121**	5
3	AHB 1269	153	112	**133**	33	157	145	**151**	99	**117**	12
4	AHB 1200	153	126	**140**	44	154	142	**148**	120	**123**	2
5	HHB 299	153	95	**124**	33	156	144	**150**	103	**114**	15
6	86M01	153	125	**139**	32	163	143	**153**	109	**121**	6
7	Pratap (MH 1642)	152	125	**139**	46	157	141	**149**	102	**121**	7
8	NBH 4903	152	120	**136**	53	160	146	**153**	119	**125**	1
9	86M86	152	114	**133**	49	161	143	**152**	113	**122**	3
10	Kaveri Super Boss	153	118	**136**	47	156	146	**151**	107	**121**	4
11	ABV 04	153	122	**138**	38	155	143	**149**	106	**120**	8
12	Dhanshakti	154	119	**136**	31	148	146	**147**	108	**118**	10
13	ICMV 155	153	91	**122**	49	142	145	**143**	110	**115**	14
14	ICMV 221	152	117	**135**	50	155	144	**149**	88	**118**	11
15	Pusa Comp. 612	152	119	**136**	48	145	145	**145**	100	**118**	9
16	Raj 171	152	112	**132**	30	157	145	**151**	100	**116**	13
	LOC. MEAN	**153**	**115**	**134**	**42**	**155**	**144**	**150**	**105**	**119**	
	C.D. (5%)	**3.0**	**12.0**	**15.0**	**6.0**	**4.0**	**6.0**	**9.0**	**14.0**	**7.0**	
	C.D. (1%)	**4.0**	**16.0**	**21.0**	**8.0**	**6.0**	**8.0**	**13.0**	**19.0**	**10.0**	
	C.V. (%)	**1.1**	**6.1**	**5.4**	**8.8**	**1.7**	**2.6**	**2.9**	**8.2**	**5.5**	
	F (Prob)	**0.000**	**0.000**	**0.535**	**0.000**	**0.000**	**0.000**	**0.641**	**0.000**	**0.170**	

Table I.198: RELEASED HYBRIDS & VARIETIES TRIAL KHARIF - 2025
SEED SET (%) UNDER BAG ZONE B

S.No.	ENTRY	ABD1	DHL	MS MEAN	APR	CBE	ZONE MEAN	RANK
1	RHB 233	99	94	**97**	73	80	**87**	**4**
2	RHB 234	100	93	**96**	66	17	**69**	**16**
3	AHB 1269	99	82	**91**	68	59	**77**	**14**
4	AHB 1200	99	96	**97**	61	84	**85**	**8**
5	HHB 299	100	93	**96**	73	85	**88**	**2**
6	86M01	98	94	**96**	65	85	**86**	**5**
7	Pratap (MH 1642)	99	91	**95**	66	77	**83**	**11**
8	NBH 4903	99	98	**98**	68	86	**88**	**1**
9	86M86	99	97	**98**	65	88	**87**	**3**
10	Kaveri Super Boss	98	98	**98**	45	55	**74**	**15**
11	ABV 04	99	97	**98**	65	81	**85**	**6**
12	Dhanshakti	99	93	**96**	64	70	**82**	**12**
13	ICMV 155	99	97	**98**	65	78	**85**	**9**
14	ICMV 221	99	86	**92**	68	74	**81**	**13**
15	Pusa Comp. 612	98	94	**96**	67	76	**84**	**10**
16	Raj 171	99	96	**98**	67	79	**85**	**7**
	LOC. MEAN	**99**	**94**	**96**	**65**	**73**	**83**	
	C.D. (5%)	**1.0**	**8.0**	**7.0**	**7.0**	**9.0**	**8.0**	
	C.D. (1%)	**2.0**	**10.0**	**9.0**	**10.0**	**12.0**	**11.0**	
	C.V. (%)	**0.7**	**4.9**	**3.2**	**6.8**	**7.5**	**5.5**	
	F (Prob)	**0.000**	**0.000**	**0.502**	**0.000**	**0.000**	**0.852**	

E. AICRP on Pearl Millet Summer Trials: SHT

One coordinated trial in summer 2025 *viz.* Summer Hybrid Trial comprising entries of first, second and third year of testing was conducted at 15 locations i.e. five locations in Gujarat, four in Maharashtra and one each in Rajasthan, U.P., Punjab, A.P., Telangana and Tamil Nadu. The results are presented below:

Seventeen hybrids along with five checks MP 7366, Nandi 75, Proagro 9444, 86M22 and 86M64 were evaluated in SHT (Summer Hybrid Trial). Mean performance of experimental hybrids for grain yield, dry fodder yield, days to 50% flowering and days to maturity are given in Tables I.199. Location-wise performance for grain yield and other ancillary characters are given in Tables I.201 to I.213. Two hybrids viz., MSH 432 (4719 kg/ha) recorded higher grain yield over the best check MP 7366 (4651 kg/ha). Dry fodder yield ranged from 9124 kg/ha to 11646 kg/ha.

Table I.199: MEAN PERFORMANCE: SUMMER HYBRID TRIAL SUMMER 2025

S.No.	Name of Entry (Year of testing)	Grain Yield (kg/ha)	Dry Fodder Yield (kg/ha)	Days to 50% Flower	Days to Maturity	DM (%) 60 DAS	Blast (score)	Ergot (%)	Smut (%)	Rust (%)	Fe (ppm)	Zn (ppm)
1	MSH 432	4719	11488	57	86	0.0	0.0	0.0	0.0	0.0	40	35
2	MP 7366 (C)	4651	11186	55	84	0.0	0.7	0.0	0.0	1.3	52	45
3	86M22 (C)	4607	10591	55	84	0.0	0.7	0.0	0.0	1.7	51	40
4	MSH 406	4556	11239	57	87	0.6	0.4	0.0	0.0	1.7	46	40
5	Nandi 75 (C)	4496	11646	55	84	0.2	0.8	0.0	0.0	2.5	39	33
6	MSH 433	4292	10053	54	84	0.0	0.0	0.0	0.0	0.0	54	39
7	MSH 416	4231	11170	56	86	0.0	0.0	0.0	0.0	1.7	48	41
8	86M64 (C)	4174	9660	55	85	0.4	0.8	0.0	0.0	3.0	52	38
9	MSH 435	4009	10220	56	86	0.2	0.3	0.0	0.0	1.0	45	35
10	MSH 429	3996	10169	56	86	0.0	0.0	0.0	0.0	1.2	49	39
11	MSH 431	3988	9616	53	83	0.0	1.0	0.0	0.0	3.3	45	33
12	MSH 434	3958	10555	55	84	0.0	0.8	0.0	0.0	0.8	47	42
13	Proagro 9444 (C)	3798	9892	54	84	0.0	1.2	0.0	0.0	2.2	41	36
14	MSH 430	3781	9124	49	79	0.2	1.0	0.0	0.0	3.0	61	43
	LOC. MEAN	4232	10472	55	84							

Promotion criteria as per 54th Annual group meet: Grain yield =higher than best check or 5% higher over relevant check, Disease (Across all zones): Downy Mildew (60 DAS): ≤ 5%, Blast (score): ≤ 3 (0-9 scale), Ergot (% severity): ≤ 20%, Smut (% severity): ≤ 20%, Rust (% leaf area): ≤ 20%, Iron content: ≥ 42 ppm and Zinc content: ≥ 32 ppm.

Table I.200: SUMMER HYBRID TRIAL SUMMER 2025 EXPERIMENTAL DETAILS

Locations	Soil	pH	Sowing date	Harvesting date	Interculture date	No. of Irrigations	Fertilizers			Insecticide
							N	P	K	
AICRP-PM, Mandor (AUJ)	SL	8.1	26.2.2025	28.5.2025	15.3 & 25.3.2025	As per requirement	60	40	0	Nil
Anand (AAU)	SL	7.2	18.2.2025	20.5.2025	13.3,20.3 & 28.3.2025	6	120	60	0	Emamectin Benzoate & Coragen
Jamnagar (JAU)	MB	7.6	15.2.2025	15.5.2025	07.3.25 & 15.3.2025	8	120	60	0	Nil
Deesa (SDAU)	SL	-	25.2.2025	06.6.2025	04.4.2025	As per requirement	120	60	0	Nil
Palanpur (Corteva)	A	-	04.3.2025	01.6.2025	26.3.2025	As per requirement	120	40	25	Emamectin Benzoate
Dehgam (Rallis)	SL	6.5	26.2.2025	25.5.2025	28.3.2025	9	40	20	20	Coragen
Agra (Kartik Bio Seeds)	SL	-	25.3.2025	29.6.2025	22.4.2025	5	0	0	0	Nil
Ludhiana (PAU)	SL	-	25.3.2025	25.7.2025	13.4.2025 & 17.5.2025	3	100	60	0	Nil
Aurangabad (NARP)	MB	7.5	20.2.2025	30.5.2025	15.3.2025 & 10.4.25	7	60	30	30	Nil
Aurangabad (Seed works)	BC	-	12.2.2025	15.5.2025	15.3.2025	7	80	40	40	Chloropyriphos
Dhule (MPKV)	MB	8.6	12.2.2025	31.5.2025	12.3.2025	6	90	45	45	Nil
Jalna (Mahyco)	MB	7.0	15.3.2025	10.6.2025	15.4.2025	6	80	40	40	Emamectin Benzoate
Perumallapalle(ANGRAU)	RSL	7.7	07.3.2025	-	07.4.2025	As per requirement	60	30	20	Nil
Palem (PJTSAU)	RSL	7.0	16.2.2025	29.5.2025	05.3.2025 & 18.3.2025	5	36	16	16	Nil
Coimbatore (TNAU)	CL	7.82	07.3.2025	09.6.2025	24.3.2025	4	80	40	40	Nil

SL = Sandy Loam, MB = Medium Black, CL = Clay Loam, BC = Black Cotton , RSL= Red Sandy Loam, A = Alluvial.

Table I.201: SUMMER HYBRID TRIAL - 2025 GRAIN YIELD (kg/ha)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	5019	5315	5486	5182	5136	3408	**4906**	3467	2762	4286	5948	2820	5753	**4702**	6078	3492	4190	**4556**	**4**
2	SHT 102	Proagro 9444 (Check)	4433	3714	4130	4809	4431	2822	**3981**	3269	2794	3647	5633	3549	3315	**4036**	4339	3271	2810	**3798**	**13**
3	SHT 103	MSH 429	4618	3784	4539	4272	4694	2914	**4041**	4053	2119	3877	5580	3617	4398	**4368**	4769	3286	3413	**3996**	**10**
4	SHT 104	MP 7366 (Check)	5125	4890	5778	5997	5075	3767	**5101**	3631	2760	3103	6021	2150	5165	**4110**	7036	4728	4536	**4651**	**2**
5	SHT 105	MSH 430	3773	3982	3440	4892	3783	3200	**3859**	4033	2698	2633	5128	2798	3864	**3606**	5711	2700	4075	**3781**	**14**
6	SHT 106	Nandi 75 (Check)	4863	4528	4905	5932	5119	3560	**4809**	2517	2925	3424	5595	3728	4805	**4388**	8672	4139	2723	**4496**	**5**
7	SHT 107	MSH 431	4620	3243	4792	5182	4469	2988	**4135**	4008	2820	3276	5551	3271	3312	**3853**	6711	3178	2396	**3988**	**11**
8	SHT 108	MSH 432	4942	4087	4880	6769	5269	3664	**4934**	3133	2890	3241	5398	3573	5719	**4483**	8428	4893	3900	**4719**	**1**
9	SHT 109	86M64 (Check)	4520	4633	4525	5302	4633	3418	**4503**	3975	2017	2709	4930	3535	3693	**3717**	6239	4682	3799	**4174**	**8**
10	SHT 110	MSH 433	4092	4297	4600	5784	4997	3268	**4589**	3725	2097	3474	5764	2082	4033	**3838**	6917	4856	4403	**4292**	**6**
11	SHT 111	86M22 (Check)	5064	4722	5711	6985	4736	3539	**5138**	3458	2209	4605	5796	3352	4641	**4598**	5814	4211	4266	**4607**	**3**
12	SHT 112	MSH 434	4464	3485	4076	4247	4336	3119	**3853**	3083	2079	3953	5026	2777	4082	**3959**	6522	4657	3463	**3958**	**12**
13	SHT 113	MSH 435	4253	3507	3993	3599	4544	3667	**3862**	3428	2213	4474	5566	2740	4320	**4275**	5147	4333	4351	**4009**	**9**
14	SHT 114	MSH 416	4493	4271	4995	5552	5019	3876	**4743**	2947	2104	3259	5572	2303	4568	**3925**	7469	4607	2424	**4231**	**7**
		LOC. MEAN	**4591**	**4176**	**4704**	**5322**	**4732**	**3372**	**4461**	**3481**	**2463**	**3568**	**5536**	**3021**	**4405**	**4133**	**6418**	**4074**	**3625**	**4232**	
		C.D. (5%)	**531**	**584**	**870**	**1207**	**337**	**989**	**561**	**84**	**172**	**506**	**644**	**697**	**1146**	**800**	**1871**	**1016**	**483**	**431**	
		C.D. (1%)	**717**	**789**	**1176**	**1631**	**456**	**1337**	**748**	**113**	**232**	**683**	**871**	**943**	**1550**	**1071**	**2529**	**1373**	**653**	**569**	
		C.V. (%)	**6.9**	**8.3**	**11.0**	**13.5**	**4.3**	**17.5**	**9.9**	**1.4**	**4.2**	**8.4**	**6.9**	**13.8**	**15.5**	**13.5**	**17.4**	**14.9**	**7.9**	**14.1**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.170**	**0.000**	**0.000**	**0.000**	**0.000**	
		PLOT SIZE (m^2)	**14.40**	**14.40**	**14.40**	**10.80**	**12.00**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**8.00**	**11.10**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**-**	

Table I.202: SUMMER HYBRID TRIAL - 2025 DRY FODDER YIELD (kg/ha)

S.No.	TEST CODE	ENTRY	MDR	JMR	SKN	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	8588	8205	14660	19222	**14029**	7903	11747	8250	13350	14745	16281	**13156**	9872	7253	6028	**11239**	3
2	SHT 102	Proagro 9444 (Check)	5845	7356	8951	18444	**11584**	6003	10381	8000	11069	16216	14397	**12421**	9908	6925	5106	**9892**	11
3	SHT 103	MSH 429	7523	7912	10957	20958	**13276**	9008	9978	6556	11571	13934	11772	**10958**	9278	7541	5208	**10169**	9
4	SHT 104	MP 7366 (Check)	8356	9188	10340	19286	**12938**	7292	10253	7083	10460	17387	17556	**13122**	10717	10754	6744	**11186**	4
5	SHT 105	MSH 430	6262	6145	8025	16569	**10246**	8833	11489	6306	9396	12222	10835	**9690**	11028	5692	5814	**9124**	14
6	SHT 106	Nandi 75 (Check)	7485	8542	11883	22944	**14456**	7014	14781	7389	13958	15826	11231	**12101**	13436	9038	7869	**11646**	1
7	SHT 107	MSH 431	7141	7370	9877	19472	**12240**	6842	10214	7167	11525	10991	9263	**9736**	12097	7285	5769	**9616**	13
8	SHT 108	MSH 432	7889	8524	12500	20367	**13797**	8614	14019	6917	12894	16757	11783	**12088**	10975	10570	7536	**11488**	2
9	SHT 109	86M64 (Check)	6472	6453	9568	21375	**12465**	8100	8336	5667	11525	15015	9668	**10469**	8717	9025	5658	**9660**	12
10	SHT 110	MSH 433	6141	6778	11574	20208	**12853**	7086	9156	7000	11677	14474	11011	**11041**	9311	9231	7039	**10053**	10
11	SHT 111	86M22 (Check)	7766	8521	12963	17964	**13149**	7669	8122	7389	11449	17027	11742	**11902**	9478	10407	7181	**10591**	6
12	SHT 112	MSH 434	7003	7391	10648	18547	**12196**	7175	10789	9722	13198	14895	10569	**12096**	11486	9884	5903	**10555**	7
13	SHT 113	MSH 435	7338	6801	11265	22636	**13567**	8075	8217	7889	12590	12492	10619	**10898**	11053	8280	5608	**10220**	8
14	SHT 114	MSH 416	7436	9338	11574	21861	**14258**	7331	8453	6944	11981	12853	16992	**12193**	12872	10201	7372	**11170**	5
		LOC. MEAN	**7232**	**7752**	**11056**	**19990**	**12932**	**7639**	**10424**	**7306**	**11903**	**14631**	**12408**	**11562**	**10731**	**8720**	**6345**	**10472**	
		C.D. (5%)	**1233**	**1606**	**1779**	**597**	**2190**	**89**	**811**	**1393**	**1643**	**3510**	**2380**	**1806**	**2876**	**1825**	**1754**	**1248**	
		C.D. (1%)	**1667**	**2171**	**2404**	**807**	**3054**	**120**	**1097**	**1884**	**2221**	**4745**	**3217**	**2417**	**3889**	**2468**	**2371**	**1648**	
		C.V. (%)	**10.2**	**12.4**	**9.6**	**1.8**	**10.8**	**0.7**	**4.6**	**11.4**	**8.2**	**14.3**	**11.4**	**13.6**	**16.0**	**12.5**	**16.5**	**13.4**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.036**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.120**	**0.000**	**0.000**	**0.000**	**0.001**	
		PLOT SIZE (m^2)	**14.40**	**14.40**	**10.80**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**8.00**	**11.10**	**12.00**	**-**	**12.00**	**12.00**	**12.00**	**-**	

Table I.203: SUMMER HYBRID TRIAL - 2025 DAYS TO 50% FLOWERING

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	56	56	56	59	59	61	**58**	64	57	60	55	65	60	**60**	46	53	47	**57**	**1**
2	SHT 102	Proagro 9444 (Check)	51	48	52	58	54	56	**54**	57	62	57	58	60	60	**59**	47	49	47	**54**	**10**
3	SHT 103	MSH 429	54	51	54	60	58	59	**57**	61	57	55	60	62	59	**59**	49	47	50	**56**	**5**
4	SHT 104	MP 7366 (Check)	53	49	53	57	56	57	**54**	59	55	57	58	63	59	**59**	50	49	46	**55**	**9**
5	SHT 105	MSH 430	46	43	42	45	48	49	**46**	61	51	48	51	55	58	**53**	45	41	45	**49**	**13**
6	SHT 106	Nandi 75 (Check)	54	48	53	57	57	59	**55**	62	60	55	59	53	60	**57**	49	48	51	**55**	**7**
7	SHT 107	MSH 431	52	46	51	56	53	57	**52**	60	55	50	56	59	59	**56**	45	48	40	**53**	**12**
8	SHT 108	MSH 432	55	51	53	57	56	58	**55**	65	60	59	59	64	62	**61**	51	51	51	**57**	**2**
9	SHT 109	86M64 (Check)	54	52	53	57	57	58	**55**	63	59	57	58	62	58	**59**	46	48	50	**55**	**6**
10	SHT 110	MSH 433	53	49	51	57	55	57	**54**	59	53	55	58	60	59	**58**	46	49	44	**54**	**11**
11	SHT 111	86M22 (Check)	56	53	53	57	56	58	**55**	56	57	54	59	64	58	**59**	46	50	46	**55**	**8**
12	SHT 112	MSH 434	53	52	50	57	54	56	**54**	62	59	57	58	61	58	**59**	48	51	47	**55**	**7**
13	SHT 113	MSH 435	55	54	56	58	57	60	**57**	66	57	56	58	61	60	**59**	48	51	48	**56**	**3**
14	SHT 114	MSH 416	56	53	54	58	56	60	**56**	67	55	55	59	63	60	**59**	47	49	50	**56**	**4**
		LOC. MEAN	**53**	**50**	**52**	**57**	**55**	**58**	**54**	**62**	**57**	**55**	**58**	**61**	**59**	**58**	**47**	**49**	**47**	**55**	
		C.D. (5%)	**1.0**	**2.0**	**1.0**	**2.0**	**2.0**	**1.0**	**2.0**	**1.0**	**2.0**	**1.0**	**1.0**	**2.0**	**2.0**	**3.0**	**3.0**	**2.0**	**2.0**	**1.0**	
		C.D. (1%)	**2.0**	**2.0**	**1.0**	**3.0**	**2.0**	**2.0**	**2.0**	**1.0**	**3.0**	**2.0**	**1.0**	**3.0**	**3.0**	**4.0**	**4.0**	**3.0**	**3.0**	**2.0**	
		C.V. (%)	**1.4**	**2.1**	**1.1**	**2.4**	**1.8**	**1.2**	**2.3**	**0.9**	**2.1**	**1.2**	**0.9**	**2.3**	**2.0**	**3.6**	**3.5**	**2.5**	**2.4**	**3.7**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.204: SUMMER HYBRID TRIAL - 2025 DAYS TO MATURITY

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	88	87	86	90	84	81	**86**	87	84	96	87	101	85	**92**	78	85	87	**87**	**1**
2	SHT 102	Proagro 9444 (Check)	86	79	81	86	79	77	**81**	77	91	90	87	96	85	**89**	78	79	87	**84**	**11**
3	SHT 103	MSH 429	86	82	84	87	83	80	**83**	87	85	92	88	98	84	**91**	80	76	90	**86**	**5**
4	SHT 104	MP 7366 (Check)	85	82	83	85	81	77	**81**	78	85	91	86	98	84	**90**	80	79	86	**84**	**9**
5	SHT 105	MSH 430	76	78	72	81	73	71	**75**	81	84	85	78	91	83	**84**	76	72	85	**79**	**14**
6	SHT 106	Nandi 75 (Check)	86	81	82	83	82	79	**82**	85	88	90	87	88	85	**88**	79	79	91	**84**	**7**
7	SHT 107	MSH 431	84	79	81	85	78	77	**80**	81	89	89	84	94	84	**88**	79	77	80	**83**	**13**
8	SHT 108	MSH 432	85	84	82	83	81	79	**82**	85	92	95	86	99	87	**92**	82	80	91	**86**	**3**
9	SHT 109	86M64 (Check)	84	85	82	81	82	78	**81**	83	94	95	86	97	83	**90**	78	78	90	**85**	**6**
10	SHT 110	MSH 433	83	82	81	78	80	78	**80**	84	86	93	86	95	84	**90**	78	80	84	**84**	**12**
11	SHT 111	86M22 (Check)	85	85	83	79	81	78	**81**	78	87	91	88	99	83	**90**	76	79	86	**84**	**10**
12	SHT 112	MSH 434	83	85	81	76	79	77	**79**	85	91	95	86	97	83	**90**	80	82	87	**84**	**8**
13	SHT 113	MSH 435	85	87	86	78	82	81	**83**	94	95	92	86	97	85	**90**	79	81	88	**86**	**2**
14	SHT 114	MSH 416	86	86	85	78	81	80	**82**	91	95	90	86	99	85	**90**	79	78	90	**86**	**4**
		LOC. MEAN	**84**	**83**	**82**	**82**	**80**	**78**	**81**	**84**	**89**	**92**	**86**	**96**	**84**	**90**	**79**	**79**	**87**	**84**	
		C.D. (5%)	**1.0**	**2.0**	**1.0**	**3.0**	**2.0**	**2.0**	**3.0**	**1.0**	**2.0**	**1.0**	**1.0**	**2.0**	**2.0**	**3.0**	**2.0**	**5.0**	**2.0**	**2.0**	
		C.D. (1%)	**2.0**	**2.0**	**1.0**	**4.0**	**2.0**	**3.0**	**4.0**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**4.0**	**3.0**	**6.0**	**3.0**	**2.0**	
		C.V. (%)	**1.1**	**1.2**	**0.7**	**2.1**	**1.3**	**1.6**	**3.0**	**1.0**	**1.2**	**0.8**	**1.0**	**1.5**	**1.4**	**2.2**	**1.5**	**3.6**	**1.3**	**3.0**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.205: SUMMER HYBRID TRIAL - 2025 PLANT HEIGHT (cm)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	186	182	187	186	212	202	**194**	251	177	147	242	230	213	**208**	187	174	207	**199**	**1**
2	SHT 102	Proagro 9444 (Check)	165	142	154	173	185	165	**164**	196	177	144	202	207	173	**182**	165	134	203	**172**	**12**
3	SHT 103	MSH 429	186	188	190	207	210	192	**197**	228	170	154	237	232	218	**210**	181	176	212	**199**	**2**
4	SHT 104	MP 7366 (Check)	185	166	174	178	175	182	**175**	204	152	144	212	212	200	**192**	179	174	208	**183**	**7**
5	SHT 105	MSH 430	168	152	141	152	143	152	**148**	168	152	109	173	184	177	**161**	156	126	170	**155**	**14**
6	SHT 106	Nandi 75 (Check)	176	183	183	198	193	183	**188**	236	188	154	247	221	208	**207**	188	179	215	**197**	**3**
7	SHT 107	MSH 431	165	162	154	172	167	150	**161**	205	187	130	213	199	180	**181**	161	141	176	**171**	**13**
8	SHT 108	MSH 432	174	188	170	188	188	180	**183**	214	185	140	223	225	228	**204**	191	148	208	**190**	**5**
9	SHT 109	86M64 (Check)	164	176	159	176	190	172	**174**	217	185	137	218	205	190	**188**	177	132	189	**179**	**8**
10	SHT 110	MSH 433	171	166	151	184	187	163	**170**	219	175	134	213	198	192	**184**	175	142	179	**177**	**10**
11	SHT 111	86M22 (Check)	181	173	173	191	185	173	**179**	219	157	148	227	205	207	**197**	172	144	203	**184**	**6**
12	SHT 112	MSH 434	176	162	156	177	178	165	**168**	197	187	144	218	202	187	**188**	187	144	192	**178**	**9**
13	SHT 113	MSH 435	168	157	148	176	177	170	**166**	219	182	132	207	196	190	**181**	167	142	177	**174**	**11**
14	SHT 114	MSH 416	184	180	185	193	200	185	**189**	227	175	151	235	217	215	**205**	193	150	211	**193**	**4**
		LOC. MEAN	**175**	**170**	**166**	**182**	**185**	**174**	**175**	**214**	**175**	**141**	**219**	**209**	**198**	**192**	**177**	**150**	**196**	**182**	
		C.D. (5%)	**7.0**	**10.0**	**16.0**	**12.0**	**13.0**	**16.0**	**9.0**	**1.0**	**8.0**	**9.0**	**9.0**	**15.0**	**10.0**	**11.0**	**20.0**	**15.0**	**10.0**	**6.0**	
		C.D. (1%)	**9.0**	**13.0**	**22.0**	**17.0**	**18.0**	**22.0**	**12.0**	**2.0**	**11.0**	**12.0**	**12.0**	**20.0**	**14.0**	**15.0**	**27.0**	**21.0**	**14.0**	**8.0**	
		C.V. (%)	**2.4**	**3.4**	**5.9**	**4.0**	**4.2**	**5.5**	**3.9**	**0.4**	**2.7**	**3.8**	**2.5**	**4.2**	**3.1**	**4.1**	**6.8**	**6.0**	**3.1**	**4.8**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.206: SUMMER HYBRID TRIAL - 2025 PRODUCTIVE TILLERS (No./Plant)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1**	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	1.9	3.3	1.9	2.9	1.1	2.3	**2.3**	1.3	2.0	1.6	1.0	1.8	1.5	**1.5**	1.8	2.3	2.8	**1.9**	**11**
2	SHT 102	Proagro 9444 (Check)	3.1	3.3	3.1	2.8	2.0	3.3	**2.8**	1.1	1.4	1.3	3.3	2.4	3.7	**2.7**	2.4	3.3	3.1	**2.6**	**1**
3	SHT 103	MSH 429	1.9	3.2	2.3	2.7	1.1	2.0	**2.3**	1.2	2.1	1.3	1.7	2.5	1.7	**1.8**	1.6	2.5	2.7	**2.0**	**8**
4	SHT 104	MP 7366 (Check)	2.1	3.2	2.3	2.7	1.3	3.0	**2.4**	1.5	3.0	1.1	2.3	2.3	1.8	**1.9**	1.7	4.3	2.6	**2.3**	**3**
5	SHT 105	MSH 430	2.1	3.3	1.9	2.9	1.6	3.0	**2.4**	1.8	2.4	1.5	2.0	1.9	2.5	**2.0**	2.1	3.7	2.4	**2.3**	**4**
6	SHT 106	Nandi 75 (Check)	1.9	3.5	1.8	3.3	1.1	4.0	**2.4**	1.1	4.0	1.1	1.7	2.7	2.5	**2.0**	2.0	2.5	2.7	**2.3**	**5**
7	SHT 107	MSH 431	2.2	3.3	2.6	2.7	1.3	2.7	**2.5**	1.2	2.4	1.0	1.7	2.0	2.2	**1.7**	2.1	2.6	2.3	**2.1**	**7**
8	SHT 108	MSH 432	2.1	2.5	1.8	3.0	1.3	2.0	**2.2**	1.2	2.1	1.2	1.7	2.6	1.5	**1.7**	2.0	2.5	2.5	**2.0**	**10**
9	SHT 109	86M64 (Check)	1.9	2.8	1.7	2.4	1.5	3.3	**2.1**	1.1	2.1	2.1	1.3	2.2	1.5	**1.8**	1.9	1.4	2.2	**1.9**	**13**
10	SHT 110	MSH 433	2.7	3.4	2.9	2.7	1.6	2.7	**2.6**	1.8	3.4	1.3	3.0	2.0	2.2	**2.1**	2.4	1.9	2.3	**2.4**	**2**
11	SHT 111	86M22 (Check)	1.9	2.5	1.7	2.5	1.1	1.3	**2.0**	1.1	1.5	1.3	1.0	1.9	1.8	**1.5**	1.4	3.1	2.1	**1.8**	**14**
12	SHT 112	MSH 434	2.1	3.7	1.9	2.5	1.4	2.3	**2.4**	1.2	3.9	1.0	2.0	2.1	1.8	**1.7**	2.4	2.3	2.4	**2.2**	**6**
13	SHT 113	MSH 435	2.1	3.5	2.1	3.1	1.0	2.0	**2.4**	1.3	2.1	1.4	1.0	1.7	1.5	**1.4**	1.4	2.3	2.1	**1.9**	**12**
14	SHT 114	MSH 416	2.3	3.3	2.1	2.1	1.1	2.7	**2.2**	1.3	3.2	1.3	1.0	2.3	1.5	**1.5**	1.5	3.2	2.3	**2.0**	**9**
		LOC. MEAN	**2.2**	**3.2**	**2.2**	**2.7**	**1.3**	**2.6**	**2.4**	**1.3**	**2.5**	**1.3**	**1.8**	**2.2**	**2.0**	**1.8**	**1.9**	**2.7**	**2.5**	**2.1**	
		C.D. (5%)	**0.2**	**0.4**	**0.5**	**0.5**	**0.3**	**1.6**	**0.5**	**0.0**	**0.3**	**0.3**	**0.8**	**0.3**	**0.6**	**0.7**	**0.6**	**0.4**	**0.5**	**0.3**	
		C.D. (1%)	**0.3**	**0.5**	**0.7**	**0.6**	**0.4**	**2.1**	**0.6**	**0.1**	**0.5**	**0.3**	**1.1**	**0.4**	**0.8**	**0.9**	**0.8**	**0.5**	**0.7**	**0.4**	
		C.V. (%)	**6.0**	**6.6**	**15.1**	**9.9**	**12.5**	**36.1**	**13.4**	**2.1**	**8.2**	**11.6**	**27.4**	**8.7**	**17.8**	**25.5**	**19.0**	**8.0**	**12.4**	**20.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.052**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.047**	**0.000**	**0.000**	**0.000**	**0.000**	

****LOCATION REJECTED DUE TO HIGH C.V. (i.e.> 30%): PNR1 36.1%**

Table I.207: SUMMER HYBRID TRIAL - 2025 PANICLE LENGTH (cm)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	27	27	29	32	29	30	**29**	29	28	29	28	29	29	**29**	34	27	31	**29**	**3**
2	SHT 102	Proagro 9444 (Check)	25	23	23	23	23	22	**23**	28	21	23	24	24	24	**24**	24	23	24	**24**	**13**
3	SHT 103	MSH 429	34	34	37	41	37	38	**37**	41	17	35	36	34	40	**36**	41	37	37	**36**	**1**
4	SHT 104	MP 7366 (Check)	28	26	26	25	25	26	**26**	26	22	25	25	27	26	**26**	33	26	28	**26**	**7**
5	SHT 105	MSH 430	25	23	23	21	24	21	**23**	27	23	22	25	24	24	**24**	25	22	23	**24**	**14**
6	SHT 106	Nandi 75 (Check)	26	26	26	27	27	25	**26**	29	23	27	28	29	27	**28**	31	26	28	**27**	**6**
7	SHT 107	MSH 431	27	25	27	26	25	25	**25**	30	23	23	28	25	27	**26**	30	23	28	**26**	**9**
8	SHT 108	MSH 432	27	25	26	27	26	27	**26**	28	29	25	25	28	27	**27**	33	28	27	**27**	**4**
9	SHT 109	86M64 (Check)	27	23	25	27	27	25	**25**	28	23	26	28	29	26	**27**	30	22	26	**26**	**8**
10	SHT 110	MSH 433	26	24	22	24	25	23	**24**	27	25	22	23	24	25	**24**	28	24	25	**25**	**12**
11	SHT 111	86M22 (Check)	28	24	26	24	24	25	**25**	28	19	25	24	26	26	**25**	28	22	26	**25**	**11**
12	SHT 112	MSH 434	27	25	26	26	25	24	**25**	28	19	27	26	26	26	**26**	33	26	26	**26**	**10**
13	SHT 113	MSH 435	30	30	32	29	30	32	**31**	34	18	30	30	28	30	**30**	35	23	33	**30**	**2**
14	SHT 114	MSH 416	27	27	28	27	28	27	**28**	29	21	28	27	28	28	**28**	31	26	27	**27**	**5**
		LOC. MEAN	**27**	**26**	**27**	**27**	**27**	**26**	**27**	**29**	**22**	**26**	**27**	**27**	**27**	**27**	**31**	**25**	**28**	**27**	
		C.D. (5%)	**2.0**	**3.0**	**2.0**	**2.0**	**3.0**	**4.0**	**1.0**	**1.0**	**2.0**	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**1.0**	
		C.D. (1%)	**3.0**	**4.0**	**3.0**	**3.0**	**4.0**	**5.0**	**2.0**	**1.0**	**2.0**	**1.0**	**3.0**	**3.0**	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**	**2.0**	
		C.V. (%)	**4.2**	**6.6**	**5.0**	**5.3**	**6.0**	**8.0**	**4.2**	**1.4**	**4.2**	**2.5**	**4.1**	**4.7**	**3.6**	**4.5**	**4.2**	**5.0**	**4.2**	**7.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.208: SUMMER HYBRID TRIAL - 2025 PANICLE DIAMETER (cm)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	3.2	3.2	3.6	3.6	3.4	3.3	**3.4**	3.7	3.5	3.2	3.7	3.6	3.6	**3.5**	3.9	2.9	3.5	**3.5**	**3**
2	SHT 102	Proagro 9444 (Check)	3.0	3.0	2.9	2.7	2.7	2.9	**2.8**	3.2	2.8	2.9	3.0	3.1	2.9	**3.0**	2.7	2.5	2.9	**2.9**	**14**
3	SHT 103	MSH 429	2.9	3.0	2.9	2.7	3.0	2.6	**2.8**	3.4	2.3	2.5	3.2	3.5	3.2	**3.1**	2.6	2.6	3.1	**2.9**	**13**
4	SHT 104	MP 7366 (Check)	3.2	3.3	3.4	3.1	3.2	3.8	**3.3**	3.5	3.4	3.2	3.4	3.6	3.5	**3.4**	3.3	3.6	3.2	**3.4**	**6**
5	SHT 105	MSH 430	2.9	3.3	2.9	2.8	3.1	3.1	**3.0**	3.3	3.1	2.9	3.4	3.4	3.4	**3.3**	3.1	3.2	2.9	**3.1**	**11**
6	SHT 106	Nandi 75 (Check)	3.2	3.1	3.3	3.4	3.4	3.3	**3.3**	3.5	3.2	3.2	3.4	3.6	3.5	**3.4**	3.2	3.2	3.7	**3.4**	**7**
7	SHT 107	MSH 431	3.2	3.3	3.3	3.1	3.3	3.4	**3.3**	3.6	3.2	3.1	3.6	3.6	3.6	**3.5**	3.2	2.7	3.4	**3.3**	**10**
8	SHT 108	MSH 432	3.1	3.1	3.2	3.2	3.3	3.5	**3.2**	3.6	3.4	3.0	3.3	3.7	3.6	**3.4**	3.4	3.2	3.4	**3.3**	**8**
9	SHT 109	86M64 (Check)	3.2	3.4	3.3	3.3	3.3	3.4	**3.3**	3.8	3.1	3.4	3.6	3.8	3.6	**3.6**	3.4	3.5	3.3	**3.4**	**4**
10	SHT 110	MSH 433	3.1	3.0	3.0	2.8	3.0	3.0	**3.0**	3.4	3.2	2.7	3.1	3.2	3.2	**3.0**	2.9	3.4	3.0	**3.1**	**12**
11	SHT 111	86M22 (Check)	3.3	3.3	3.7	3.4	3.4	3.5	**3.5**	3.7	3.3	3.3	3.7	3.7	3.8	**3.6**	3.2	3.9	3.6	**3.5**	**1**
12	SHT 112	MSH 434	3.0	3.2	3.2	3.3	3.4	3.3	**3.3**	3.4	3.2	3.1	3.6	3.6	3.7	**3.5**	3.6	3.3	3.0	**3.3**	**9**
13	SHT 113	MSH 435	3.5	3.4	3.5	3.6	3.5	4.0	**3.6**	3.6	3.3	3.5	3.7	3.5	3.7	**3.6**	3.2	3.0	3.5	**3.5**	**2**
14	SHT 114	MSH 416	3.3	3.5	3.6	3.3	3.4	3.5	**3.5**	3.7	3.5	3.5	3.5	3.5	3.7	**3.6**	3.3	2.6	3.3	**3.4**	**5**
		LOC. MEAN	**3.2**	**3.2**	**3.3**	**3.2**	**3.3**	**3.3**	**3.2**	**3.5**	**3.2**	**3.1**	**3.5**	**3.5**	**3.5**	**3.4**	**3.2**	**3.1**	**3.3**	**3.3**	
		C.D. (5%)	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.5**	**0.2**	**0.2**	**0.4**	**0.1**	**0.2**	**0.2**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.1**	
		C.D. (1%)	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.2**	**0.3**	**0.5**	**0.2**	**0.3**	**0.3**	**0.3**	**0.2**	**0.5**	**0.4**	**0.4**	**0.2**	
		C.V. (%)	**4.6**	**3.5**	**4.3**	**5.1**	**4.9**	**8.4**	**4.3**	**3.5**	**6.7**	**2.7**	**4.3**	**3.5**	**4.3**	**3.5**	**6.4**	**6.0**	**5.0**	**5.3**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.209: SUMMER HYBRID TRIAL - 2025 1000-SEED Wt. (g)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	12.4	9.5	14.0	10.2	12.9	**11.7**	9.0	9.9	12.3	12.0	11.2	12.7	**12.1**	12.0	11.2	**11.5**	**6**
2	SHT 102	Proagro 9444 (Check)	11.6	9.7	11.4	8.7	10.3	**10.0**	5.8	10.6	11.5	10.3	10.9	13.3	**11.5**	10.7	9.6	**10.3**	**13**
3	SHT 103	MSH 429	12.0	10.1	13.5	11.2	12.6	**11.9**	8.7	10.2	13.7	11.7	12.0	13.1	**12.6**	10.0	9.2	**11.4**	**8**
4	SHT 104	MP 7366 (Check)	12.4	11.9	16.4	11.1	13.7	**13.3**	11.7	12.6	12.3	13.7	9.8	13.5	**12.3**	11.3	10.9	**12.4**	**1**
5	SHT 105	MSH 430	12.3	9.7	14.6	12.1	12.0	**12.1**	10.2	11.8	13.1	14.0	11.7	15.1	**13.5**	12.7	11.9	**12.4**	**2**
6	SHT 106	Nandi 75 (Check)	11.1	9.6	13.8	10.1	11.7	**11.3**	9.5	11.1	12.3	12.3	12.0	13.7	**12.6**	10.0	10.2	**11.3**	**9**
7	SHT 107	MSH 431	11.0	9.9	13.5	9.2	14.3	**11.8**	8.0	10.7	11.8	12.7	11.7	15.0	**12.8**	10.7	10.5	**11.5**	**7**
8	SHT 108	MSH 432	11.8	10.9	14.1	12.4	13.2	**12.7**	7.6	11.1	11.5	11.7	11.2	13.2	**11.9**	12.0	10.6	**11.6**	**4**
9	SHT 109	86M64 (Check)	12.6	10.6	13.6	11.2	12.9	**12.1**	9.7	9.6	9.5	13.0	12.2	11.3	**11.5**	11.3	8.2	**11.2**	**11**
10	SHT 110	MSH 433	11.6	10.9	11.6	9.0	11.2	**10.7**	7.1	10.5	10.8	9.0	9.8	13.1	**10.7**	10.0	9.6	**10.3**	**14**
11	SHT 111	86M22 (Check)	12.3	10.8	14.7	12.1	12.7	**12.6**	10.8	9.9	9.0	12.0	11.7	12.8	**11.4**	12.0	8.7	**11.5**	**5**
12	SHT 112	MSH 434	12.6	10.8	12.9	10.2	11.1	**11.3**	7.1	8.9	11.6	11.0	12.0	13.9	**12.1**	10.0	9.6	**10.9**	**12**
13	SHT 113	MSH 435	11.9	11.3	14.1	11.6	14.1	**12.8**	9.1	10.3	13.7	13.7	12.0	14.2	**13.4**	11.3	12.5	**12.3**	**3**
14	SHT 114	MSH 416	12.8	11.2	13.9	9.4	11.9	**11.6**	9.7	11.2	11.6	13.0	10.6	9.9	**11.3**	11.3	10.4	**11.3**	**10**
		LOC. MEAN	**12.0**	**10.5**	**13.7**	**10.6**	**12.5**	**11.8**	**8.9**	**10.6**	**11.8**	**12.1**	**11.3**	**13.2**	**12.1**	**11.1**	**10.2**	**11.4**	
		C.D. (5%)	**0.8**	**0.8**	**1.2**	**0.7**	**2.0**	**1.2**	**0.2**	**0.5**	**0.6**	**1.6**	**1.1**	**0.5**	**1.5**	**2.7**	**1.2**	**0.8**	
		C.D. (1%)	**1.1**	**1.1**	**1.6**	**1.0**	**2.7**	**1.6**	**0.2**	**0.7**	**0.8**	**2.1**	**1.4**	**0.7**	**2.0**	**3.6**	**1.7**	**1.1**	
		C.V. (%)	**4.0**	**4.6**	**5.1**	**4.1**	**9.7**	**6.9**	**1.2**	**3.0**	**2.9**	**7.7**	**5.6**	**2.4**	**9.0**	**14.3**	**7.3**	**8.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.045**	**0.000**	**0.000**	**0.000**	

Table I.210: SUMMER HYBRID TRIAL - 2025 POPULATION AT HARVEST (No./plot)

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	PNR1	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	155	153	164	119	198	227	**172**	107	165	151	109	143	146	**137**	123	152	117	**149**	**11**
2	SHT 102	Proagro 9444 (Check)	166	159	168	115	166	279	**177**	112	165	153	101	137	123	**128**	114	143	138	**149**	**9**
3	SHT 103	MSH 429	165	152	162	120	205	228	**173**	109	165	153	105	136	134	**132**	135	154	133	**150**	**6**
4	SHT 104	MP 7366 (Check)	157	151	171	112	191	246	**174**	109	162	153	107	125	130	**129**	133	154	130	**149**	**10**
5	SHT 105	MSH 430	158	151	169	117	182	265	**177**	112	165	153	112	143	133	**135**	115	153	113	**149**	**8**
6	SHT 106	Nandi 75 (Check)	170	157	180	117	217	241	**182**	111	164	153	111	140	117	**130**	141	159	137	**154**	**1**
7	SHT 107	MSH 431	168	154	178	106	185	207	**166**	114	161	152	108	138	130	**132**	126	154	133	**147**	**13**
8	SHT 108	MSH 432	155	152	179	123	184	252	**178**	113	163	148	111	152	130	**135**	137	153	130	**152**	**3**
9	SHT 109	86M64 (Check)	164	157	171	111	145	236	**164**	110	165	148	111	136	124	**130**	141	154	131	**147**	**14**
10	SHT 110	MSH 433	153	157	186	120	179	269	**182**	112	163	150	108	134	139	**133**	134	155	136	**153**	**2**
11	SHT 111	86M22 (Check)	170	156	176	122	200	199	**170**	110	163	152	109	130	118	**127**	140	152	131	**148**	**12**
12	SHT 112	MSH 434	168	156	186	115	160	258	**175**	110	165	152	108	142	134	**134**	120	138	130	**149**	**7**
13	SHT 113	MSH 435	181	153	176	120	205	215	**174**	111	165	152	108	131	129	**130**	144	154	135	**152**	**5**
14	SHT 114	MSH 416	167	156	190	107	204	230	**177**	112	165	152	111	126	124	**128**	141	159	138	**152**	**4**
		LOC. MEAN	**164**	**155**	**175**	**116**	**187**	**239**	**174**	**111**	**164**	**152**	**109**	**137**	**129**	**132**	**132**	**152**	**131**	**150**	
		C.D. (5%)	**16.0**	**7.0**	**34.0**	**11.0**	**40.0**	**67.0**	**19.0**	**3.0**	**2.0**	**4.0**	**3.0**	**15.0**	**30.0**	**8.0**	**28.0**	**10.0**	**9.0**	**7.0**	
		C.D. (1%)	**22.0**	**9.0**	**46.0**	**15.0**	**54.0**	**91.0**	**26.0**	**5.0**	**3.0**	**5.0**	**4.0**	**20.0**	**40.0**	**10.0**	**38.0**	**14.0**	**13.0**	**9.0**	
		C.V. (%)	**5.8**	**2.6**	**11.5**	**5.6**	**12.6**	**16.7**	**8.7**	**1.8**	**0.9**	**1.6**	**1.5**	**6.4**	**13.7**	**4.1**	**12.6**	**4.0**	**4.3**	**6.6**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.835**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.257**	**0.000**	**0.000**	**0.000**	**0.694**	

Table I.211:SUMMER HYBRID TRIAL - 2025 SEED SET (%) UNDER BAG

S.No.	TEST CODE	ENTRY	MDR	AND	JMR	SKN	DEG	GUJ MEAN	AGR1	LDA	ABD1	ABD7	DHL	JLN1	MS MEAN	PMP	PLM	CBE	ZONE MEAN	RANK
1	SHT 101	MSH 406	82	81	84	87	47	**75**	97	92	95	72	92	73	**83**	87	97	87	**84**	**4**
2	SHT 102	Proagro 9444 (Check)	69	79	54	70	40	**61**	91	98	97	63	84	60	**76**	77	82	78	**74**	**8**
3	SHT 103	MSH 429	80	78	69	81	78	**76**	94	87	98	85	82	67	**83**	100	95	82	**84**	**3**
4	SHT 104	MP 7366 (Check)	73	20	30	78	22	**38**	92	92	95	48	90	60	**74**	80	92	87	**69**	**13**
5	SHT 105	MSH 430	63	62	8	80	20	**43**	89	96	96	45	85	50	**69**	77	92	83	**68**	**14**
6	SHT 106	Nandi 75 (Check)	72	74	62	72	32	**60**	87	90	98	37	92	67	**73**	93	93	81	**75**	**7**
7	SHT 107	MSH 431	72	27	20	70	48	**41**	96	96	92	47	98	63	**75**	97	90	89	**72**	**12**
8	SHT 108	MSH 432	63	87	63	80	72	**76**	93	92	96	82	96	63	**84**	93	96	84	**83**	**6**
9	SHT 109	86M64 (Check)	63	60	44	78	13	**49**	94	90	96	72	80	67	**79**	83	94	83	**73**	**10**
10	SHT 110	MSH 433	71	48	44	75	38	**51**	94	95	97	63	84	60	**76**	97	87	53	**72**	**11**
11	SHT 111	86M22 (Check)	71	74	64	71	35	**61**	59	83	96	67	87	77	**82**	93	95	67	**74**	**9**
12	SHT 112	MSH 434	72	73	74	89	93	**83**	91	77	96	83	96	80	**89**	100	90	80	**85**	**2**
13	SHT 113	MSH 435	76	78	75	88	88	**82**	98	92	94	82	91	73	**85**	87	97	81	**86**	**1**
14	SHT 114	MSH 416	78	85	77	73	62	**74**	93	93	93	73	89	80	**84**	93	88	91	**84**	**5**
		LOC. MEAN	**72**	**66**	**55**	**78**	**49**	**62**	**91**	**91**	**96**	**66**	**89**	**67**	**79**	**90**	**92**	**80**	**77**	
		C.D. (5%)	**6.0**	**12.0**	**20.0**	**10.0**	**15.0**	**21.0**	**4.0**	**4.0**	**2.0**	**15.0**	**6.0**	**17.0**	**13.0**	**13.0**	**8.0**	**7.0**	**9.0**	
		C.D. (1%)	**8.0**	**16.0**	**27.0**	**13.0**	**21.0**	**29.0**	**5.0**	**5.0**	**3.0**	**20.0**	**8.0**	**23.0**	**18.0**	**18.0**	**10.0**	**9.0**	**12.0**	
		C.V. (%)	**4.8**	**11.0**	**21.6**	**7.3**	**18.7**	**24.0**	**2.7**	**2.5**	**1.3**	**13.6**	**3.8**	**15.2**	**11.1**	**8.9**	**4.9**	**5.1**	**15.2**	
		F (Prob)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.870**	**0.000**	**0.000**	**0.000**	**0.000**	

Table I.212: SUMMER HYBRID TRIAL - 2025
GRAIN QUALITY: IRON CONTENT (ppm)

S.No.	TEST CODE	ENTRY	JMR	DEG	PNR1	ABD1	ABD7	ZONE MEAN	RANK
1	SHT 101	MSH 406	40	48	38	45	58	**46**	**8**
2	SHT 102	Proagro 9444 (Check)	34	41	40	43	46	**41**	**10**
3	SHT 103	MSH 429	44	53	43	47	60	**49**	**5**
4	SHT 104	MP 7366 (Check)	48	49	45	55	62	**52**	**3**
5	SHT 105	MSH 430	58	55	46	70	76	**61**	**1**
6	SHT 106	Nandi 75 (Check)	35	37	38	37	47	**39**	**12**
7	SHT 107	MSH 431	40	44	36	53	52	**45**	**9**
8	SHT 108	MSH 432	35	41	31	38	54	**40**	**11**
9	SHT 109	86M64 (Check)	42	48	37	77	57	**52**	**3**
10	SHT 110	MSH 433	43	47	43	69	67	**54**	**2**
11	SHT 111	86M22 (Check)	46	45	39	62	63	**51**	**4**
12	SHT 112	MSH 434	40	46	37	48	64	**47**	**7**
13	SHT 113	MSH 435	39	40	35	51	62	**45**	**9**
14	SHT 114	MSH 416	41	47	37	51	66	**48**	**6**

Table I.213: SUMMER HYBRID TRIAL - 2025
GRAIN QUALITY: ZINC CONTENT (ppm)

S.No.	TEST CODE	ENTRY	JMR	DEG	PNR1	ABD1	ABD7	ZONE MEAN	RANK
1	SHT 101	MSH 406	50	35	21	39	55	**40**	**5**
2	SHT 102	Proagro 9444 (Check)	43	31	27	37	44	**36**	**8**
3	SHT 103	MSH 429	47	33	21	39	53	**39**	**6**
4	SHT 104	MP 7366 (Check)	57	31	26	52	60	**45**	**1**
5	SHT 105	MSH 430	53	30	24	49	57	**43**	**2**
6	SHT 106	Nandi 75 (Check)	41	26	25	30	41	**33**	**10**
7	SHT 107	MSH 431	42	26	22	37	41	**33**	**10**
8	SHT 108	MSH 432	42	29	23	34	46	**35**	**9**
9	SHT 109	86M64 (Check)	50	32	24	36	48	**38**	**7**
10	SHT 110	MSH 433	46	25	25	46	51	**39**	**6**
11	SHT 111	86M22 (Check)	48	34	22	43	52	**40**	**5**
12	SHT 112	MSH 434	53	32	25	42	59	**42**	**3**
13	SHT 113	MSH 435	45	28	21	34	47	**35**	**9**
14	SHT 114	MSH 416	52	28	24	40	59	**41**	**4**

BREEDER SEED PRODUCTION

F. BREEDER SEED PRODUCTION (2025-2026)

In response to 13.64 q breeder seed indents received from the Department of Agriculture and Cooperation, Ministry of Agriculture and Farmer's Welfare (GOI), New Delhi, the target of production of 13.64 q breeder seed was assigned to different institutions for undertaking breeder seed production of 6 varieties and 35 parental lines of different hybrids during the year 2025-26. The breeder seed production programme was organized for two parental lines at SKNAU, Jaipur, three parental lines at AU, Jodhpur, one variety at Delhi (ICAR-IARI), two parental lines at CCSHAU, Hisar, one parental line at JAU, Jamnagar, one variety at PAU, Ludhiana, twenty parental lines at ICRISAT, two parental lines and one variety at NARP, Aurangabad, one variety (Dhanshakti) at MPKV, Dhule, three parental lines at MSSCL, Akola, one variety at ANGRAU, Ananthapuram, one parental line and one variety at RARS, UAS, Dharwad and one parental line at TNAU, Coimbatore.

The deficit breeder seed production in these cases is planned in summer 2026. The parental line/ variety-wise DAC indent, actual production and supply position as per BSP I issued is summarized in Table I.214-216.

A total of 23.22 q breeder seed was produced against the DAC indent while supply of breeder seed of some of parental lines was assured through carry over seed stock of the year 2025-2026.

Table I.214: Center-wise Breeder Seed Production Report Kharif 2025-26
Crop: Pearl millet

Year of Indent/ Production: 2025
Year of supply: February: 2026

S. No.	Name of Producing center/state	Name of parental line/ variety	DAC indent (q)	Actual allocation as per BSP-I Target (q)	Actual Production (q)	Production Surplus (+)/ Deficit (-) over BSP-I target (q)
A	**Varieties**					
1	PAU, Ludhiana	PCB 166 (FBL 4)	2.00	2.00	2.00	0.00
2	RARS, UAS (Dharwad), Vijyapur	VPMV 9	0.03	0.03	0.20	0.17
3	ANGRAU, Ananthapuram	ABV 04 (MP 552)	0.70	0.70	5.0	4.30
4	ICAR-IARI, New Delhi	Pusa Composite 701 (MP 535)	2.08	2.08	2.50	0.42
5	MPKV, Dhule	Dhanshakti (ICTP 8203 Fe 10-2)	1.85	1.85	2.30	0.45
6	NARP, Aurangabad	ABPC4-3 (MP 484)	2.05	2.05	1.50	-0.55
		Total (A)	**8.71**	**8.71**	**13.5**	**4.79**
B.	**Parental lines**					
7	ICRISAT, Patancheru	ICMA 92777 (A Line MPMH 42)	0.46	0.46	0.46	0.00
8	ICRISAT, Patancheru	ICMB 92777 (B Line MPMH 42)	0.11	0.11	0.11	0.00
9	ICRISAT, Patancheru	ICMA 93333 (A Line GHB 1294)	0.20	0.20	0.20	0.00
10	ICRISAT, Patancheru	ICMB 93333 (B Line GHB 1294)	0.00	0.00	0.10	0.10
11	ICRISAT, Patancheru	ICMA 98222 (A Line AHB 1200, AHB 1269, VPMH 14)	0.50	0.50	0.50	0.00
12	ICRISAT, Patancheru	ICMB 98222 (B Line AHB 1200, AHB 1269, VPMH 14)	0.00	0.00	0.25	0.25
13	ICRISAT, Patancheru	ICMA 94555 (A Line MPMH 35)	0.20	0.20	0.20	0.00
14	ICRISAT, Patancheru	ICMB 94555 (B Line MPMH 35)	0.10	0.10	0.10	0.00
15	ICRISAT, Patancheru	ICMA 99444 (A Line RHB 233)	0.26	0.26	0.26	0.00
16	ICRISAT, Patancheru	ICMB 99444 (B Line RHB 233)	0.11	0.11	0.11	0.00
17	ICRISAT, Patancheru	ICMA 10444 (A Line COH 10 (TNBH 1619)	0.60	0.60	0.00	-0.60
18	ICRISAT, Patancheru	ICMB 10444 (B Line COH 10 (TNBH 1619)	0.00	0.00	0.00	0.00
19	ICRISAT, Patancheru	ICMA 843-22 (A Line HHB 67 Improved 2)	0.40	0.40	0.40	0.00
20	ICRISAT, Patancheru	ICMB 843-22 (B Line HHB 67 Improved 2)	0.10	0.10	0.10	0.00
21	ICRISAT, Patancheru	ICMA 02333 (A Line RHB 234)	0.26	0.26	0.26	0.00
22	ICRISAT, Patancheru	ICMB 02333 (B Line RHB 234)	0.11	0.11	0.11	0.00
23	ICRISAT, Patancheru	ICMA 04888 (A Line HHB 299)	0.06	0.06	0.00	-0.06

S. No.	Name of Producing center/state	Name of parental line/ variety	DAC indent (q)	Actual allocation as per BSP-I Target (q)	Actual Production (q)	Production Surplus (+)/ Deficit (-) over BSP-I target (q)
24	ICRISAT, Patancheru	ICMB 04888 (B Line HHB 299)	0.01	0.01	0.00	-0.01
25	ICRISAT, Patancheru	ICMA 04999 (A Line MPMH 17)	0.20	0.20	0.20	0.00
26	ICRISAT, Patancheru	ICMB 04999 (B Line MPMH 17)	0.10	0.10	0.10	0.00
27	MSSCL, AKOLA	MBJ-2A (A Line Mahabeej 1005)	0.04	0.04	1.50	1.46
28	MSSCL, AKOLA	MBJ-2B (B Line Mahabeej 1005)	0.02	0.02	0.20	0.18
29	MSSCL, AKOLA	MBJ-1R (R Line Mahabeej 1005(MH 1852)	0.02	0.02	0.70	0.68
30	NARP, Aurangabad	AUBI 1105 (R Line AHB 1269)	0.00	0.00	0.32	0.32
31	NARP, Aurangabad	AUBI 1101 (R Line AHB 1200)	0.00	0.00	0.40	0.40
32	JAU, Jamnagar	J-2632 (R Line GHB 1294)	0.05	0.05	0.05	0.00
33	HAU, Hisar	H 77-833-2-202-6R (R Line HHB 67 Imp 2)	0.15	0.15	0.25	0.10
34	HAU, Hisar	H 13/0001 (R Line HHB 299)	0.03	0.03	0.03*	0.00
35	SKNAU, Jaipur	RIB 15176 (R Line RHB 233)	0.13	0.13	0.13	0.00
36	SKNAU, Jaipur	RIB 15177 (R Line RHB 234)	0.13	0.13	0.13	0.00
37	AU, Jodhpur	MIR 519-1 (R Line MPMH 42)	0.18	0.18	1.40	1.22
38	AU, Jodhpur	MIR 1252 (R Line MPMH 35)	0.10	0.10	0.45*	0.35
39	AU, Jodhpur	MIR 525-2 (R Line MPMH 17)	0.10	0.10	0.20	0.10
40	RARS, UAS (Dharwad), Vijyapur	VPMR 16 (R Line VPMH 14)	0.20	0.20	0.50	0.30
41	TNAU, Coimbatore	PT 6679 (R Line COH 10 (TNBH 1619)	0.00	0.00	0.00	0.00
		Total (B)	**4.93**	**4.93**	**9.72**	**4.79**
		Total (A)+(B)	**13.64**	**13.64**	**23.22**	**9.58**

*Carryover of Kharif 2024 season

Table I.215: State-wise Breeder Seed Production Report Kharif 2025-26
Crop: Pearl millet

Year of Indent/ Production: 2025
Year of supply: February 2026

S. No.	Name of Producing center/state	Hybrid/ Variety	Name of parental line	DAC indent (q)	Actual allocation as per BSP-I target (q)	Actual Production (q)	Production Surplus (+) Deficit (-) over BSP-I target (q)
	Rajasthan						
1	SKNAU, Jaipur	RHB 233 (R Line)	RIB 15176	0.13	0.13	0.13	0.00
2	SKNAU, Jaipur	RHB 234 (R Line)	RIB 15177	0.13	0.13	0.13	0.00
3	AU, Jodhpur	MPMH 42 (R Line)	MIR 519-1	0.18	0.18	1.40	1.22
4	AU, Jodhpur	MPMH 35 (R Line)	MIR 1252	0.10	0.10	0.45*	0.35
5	AU, Jodhpur	MPMH 17 (R Line)	MIR 525-2	0.10	0.10	0.20	0.10
		Total		**0.64**	**0.64**	**2.31**	**1.67**
	Delhi						
6	ICAR-IARI, New Delhi	Pusa Composite 701 (MP 535)	-	2.08	2.08	2.50	0.42
		Total		**2.08**	**2.08**	**2.50**	**0.42**
	Haryana						
7	HAU, Hisar	HHB 67 Imp 2 (R Line)	H 77-833-2-202-6R	0.15	0.15	0.25	0.10
8	HAU, Hisar	HHB 299 (R Line)	H 13/0001	0.03	0.03	0.03*	0.00
		Total		**0.18**	**0.18**	**0.28**	**0.10**
	Gujarat						
9	JAU, Jamnagar	GHB 1294 (R Line)	J-2632	0.05	0.05	0.05	0.00
		Total		**0.05**	**0.05**	**0.05**	**0.00**
	Punjab						
10	PAU, Ludhiana	PCB 166 (FBL 4)	-	2.00	2.00	2.00	0.00
		Total		**2.00**	**2.00**	**2.00**	**0.00**
	Maharashtra						
11	MPKV, Dhule	Dhanshakti (ICTP 8203 Fe 10-2)	-	1.85	1.85	2.30	0.45
12	NARP, Aurangabad	ABPC4-3 (MP 484)	-	2.05	2.05	1.50	-0.55
13	MSSCL, AKOLA	Mahabeej 1005 (A Line)	MBJ-2A	0.04	0.04	1.50	1.46
14	MSSCL, AKOLA	Mahabeej 1005 (B Line)	MBJ-2B	0.02	0.02	0.20	0.18
15	MSSCL, AKOLA	Mahabeej 1005 (R Line)	MBJ-1R	0.02	0.02	0.70	0.68
16	NARP, Aurangabad	AHB 1269 (R Line)	AUBI 1105	0.00	0.00	0.32	0.32

S. No.	Name of Producing center/state	Hybrid/ Variety	Name of parental line	DAC indent (q)	Actual allocation as per BSP-I target (q)	Actual Production (q)	Production Surplus (+) Deficit (-) over BSP-I target (q)
17	NARP, Aurangabad	AHB 1200 (R Line)	AUBI 1101	0.00	0.00	0.40	0.40
		Total		**3.98**	**3.98**	**6.92**	**2.94**
	Andhra Pradesh						
18	ANGRAU, Ananthapuram	ABV 04 (MP 552)	-	0.70	0.70	5.0	4.30
		Total		**0.70**	**0.70**	**5.0**	**4.30**
	Karnataka						
19	RARS, UAS (Dharwad), Vijyapur	VPMV 9	-	0.03	0.03	0.20	0.17
20	RARS, UAS (Dharwad), Vijyapur	VPMH 14 (R Line)	VPMR 16	0.20	0.20	0.50	0.30
		Total		**0.23**	**0.23**	**0.70**	**0.47**
	Tamil Nadu						
21	TNAU, Coimbatore	COH 10 (TNBH 1619) (R Line)	PT 6679	0.00	0.00	0.00	0.00
		Total		**0.00**	**0.00**	**0.00**	**0.00**
	Telangana						
22	ICRISAT, Patancheru	MPMH 42 (A Line)	ICMA 92777	0.46	0.46	0.46	0.00
23	ICRISAT, Patancheru	MPMH 42 (B Line)	ICMB 92777	0.11	0.11	0.11	0.00
24	ICRISAT, Patancheru	GHB 1294 (A Line)	ICMA 93333	0.20	0.20	0.20	0.00
25	ICRISAT, Patancheru	GHB 1294 (B Line)	ICMB 93333	0.00	0.00	0.10	0.10
26	ICRISAT, Patancheru	AHB 1200, AHB 1269, VPMH 14 (A Line)	ICMA 98222	0.50	0.50	0.50	0.00
27	ICRISAT, Patancheru	AHB 1200, AHB 1269, VPMH 14 (B Line)	ICMB 98222	0.00	0.00	0.25	0.25
28	ICRISAT, Patancheru	MPMH 35 (A Line)	ICMA 94555	0.20	0.20	0.20	0.00
29	ICRISAT, Patancheru	MPMH 35 (B Line)	ICMB 94555	0.10	0.10	0.10	0.00
30	ICRISAT, Patancheru	RHB 233 (A Line)	ICMA 99444	0.26	0.26	0.26	0.00
31	ICRISAT, Patancheru	RHB 233 (B Line)	ICMB 99444	0.11	0.11	0.11	0.00
32	ICRISAT, Patancheru	COH 10 (TNBH 1619) (A Line)	ICMA 10444	0.60	0.60	0.00	-0.60
33	ICRISAT, Patancheru	COH 10 (TNBH 1619) (B Line)	ICMB 10444	0.00	0.00	0.00	0.00
34	ICRISAT, Patancheru	HHB 67 Improved 2 (A Line)	ICMA 843-22	0.40	0.40	0.40	0.00
35	ICRISAT, Patancheru	HHB 67 Improved 2 (B Line)	ICMB 843-22	0.10	0.10	0.10	0.00
36	ICRISAT, Patancheru	RHB 234 (A Line)	ICMA 02333	0.26	0.26	0.26	0.00
37	ICRISAT, Patancheru	RHB 234 (B Line)	ICMB 02333	0.11	0.11	0.11	0.00
38	ICRISAT, Patancheru	HHB 299 (A Line)	ICMA 04888	0.06	0.06	0.00	-0.06

S. No.	Name of Producing center/state	Hybrid/ Variety	Name of parental line	DAC indent (q)	Actual allocation as per BSP-I target (q)	Actual Production (q)	Production Surplus (+) Deficit (-) over BSP-I target (q)
39	ICRISAT, Patancheru	HHB 299 (B Line)	ICMB 04888	0.01	0.01	0.00	-0.01
40	ICRISAT, Patancheru	MPMH 17 (A Line)	ICMA 04999	0.20	0.20	0.20	0.00
41	ICRISAT, Patancheru	MPMH 17 (B Line)	ICMB 04999	0.10	0.10	0.10	0.00
		Total		**3.78**	**3.78**	**3.46**	**-0.32**
		Grand Total		**13.64**	**13.64**	**23.22**	**9.58**

*Carryover of Kharif 2024 season

Table I.216: Variety-wise Breeder Seed Production Report Kharif 2025-26

Crop: Pearl millet

Year of Indent/ Production: 2025
Year of supply: February 2026

S. No.	Name Variety/Hybrid	Name of parental line	Year of Release	Total DAC indent (q)	Actual allocation as per BSP-I target (q)	Actual Production (q)	Production Surplus (+) Deficit (-) over BSP-I target (q)
1	PCB 166 (FBL 4)	-	2023	2.00	2.00	2.00	0.00
2	VPMV 9	-	2021	0.03	0.03	0.20	0.17
3	ABV 04 (MP 552)	-	2019	0.70	0.70	5.0	4.30
4	Pusa Composite 701 (MP 535)	-	2016	2.08	2.08	2.50	0.42
5	Dhanshakti (ICTP 8203 Fe 10-2)	-	2014	1.85	1.85	2.30	0.45
6	ABPC4-3 (MP 484)	-	2012	2.05	2.05	1.50	-0.55
		Total (A)		**8.71**	**8.71**	**13.5**	**4.79**
7	MPMH 42	ICMA 92777	2024	0.46	0.46	0.46	0.00
		ICMB 92777		0.11	0.11	0.11	0.00
		MIR 519-1		0.18	0.18	1.40	1.22
8	GHB 1294	ICMA 93333	2024	0.20	0.20	0.20	0.00
		ICMB 93333		0.00	0.00	0.10	0.10
		J-2632		0.05	0.05	0.05	0.00
9	AHB 1200	ICMA 98222	2018	0.05	0.05	0.05	0.00
		ICMB 98222		0.00	0.00	0.08	0.08
		AUBI 1101		0.00	0.00	0.40	0.40
10	AHB 1269	ICMA 98222	2019	0.05	0.05	0.05	0.00
		ICMB 98222		0.00	0.00	0.08	0.08
		AUBI 1105		0.00	0.00	0.32	0.32
11	VPMH 14	ICMA 98222	2023	0.40	0.40	0.40	0.00
		ICMB 98222		0.00	0.00	0.09	0.09
		VPMR 16		0.20	0.20	0.50	0.30
12	MPMH 35	ICMA 94555	2022	0.20	0.20	0.20	0.00
		ICMB 94555		0.10	0.10	0.10	0.00
S. No.	**Name Variety/Hybrid**	**Name of parental line**	**Year of Release**	**Total DAC indent (q)**	**Actual allocation as per BSP-I target (q)**	**Actual Production (q)**	**Production Surplus (+) Deficit (-) over BSP-I target (q)**

		MIR 1252		0.10	0.10	0.45*	0.35
13	RHB 233	ICMA 99444	2019	0.26	0.26	0.26	0.00
		ICMB 99444		0.11	0.11	0.11	0.00
		RIB 15176		0.13	0.13	0.13	0.00
14	COH 10 (TNBH 1619)	ICMA 10444	2023	0.60	0.60	0.00	-0.60
		ICMB 10444		0.00	0.00	0.00	0.00
		PT 6679		0.00	0.00	0.00	0.00
15	HHB 67 Improved 2	ICMA 843-22	2021	0.40	0.40	0.40	0.00
		ICMB 843-22		0.10	0.10	0.10	0.00
		H 77-833-2-202-6R		0.15	0.15	0.25	0.10
16	RHB 234	ICMA 02333	2019	0.26	0.26	0.26	0.00
		ICMB 02333		0.11	0.11	0.11	0.00
		RIB 15177		0.13	0.13	0.13	0.00
17	HHB 299	ICMA 04888	2018	0.06	0.06	0.00	-0.06
		ICMB 04888		0.01	0.01	0.00	-0.01
		H 13/0001		0.03	0.03	0.03*	0.00
18	MPMH 17	ICMA 04999	2013	0.20	0.20	0.20	0.00
		ICMB 04999		0.10	0.10	0.10	0.00
		MIR 525-2		0.10	0.10	0.20	0.10
19	Mahabeej 1005	MBJ-2A		0.04	0.04	1.50	1.46
		MBJ-2B		0.02	0.02	0.20	0.18
		MBJ-1R		0.02	0.02	0.70	0.68
		Total (B)		**4.93**	**4.93**	**9.72**	**4.79**
		Total (A)+(B)		**13.64**	**13.64**	**23.22**	**9.58**

*Carryover of Kharif 2024 season

DUS TESTING

G. DUS Testing under PPV and FRA

a. DUS Testing of varieties/ hybrids/ parental lines

The DUS testing trial was undertaken as per approved guidelines of PPV and FRA during Kharif 2025. Two candidate varieties for second year, nineteen candidate varieties for first year and fourteen reference varieties along with two local checks were tested at ICAR-AICRP on Pearl Millet, Mandor, Jodhpur and ICAR-AICRP on Pearl Millet, BRS, MPKV, Dhule as under:

S. No.	Name of candidate variety	S. No.	Name of candidate variety
Second year of testing			
1	KPH6288	2	MB1030
First year of testing			
1	86M93	11	MP7111
2	US7773	12	MP7288
3	US7306	13	MB1090
4	NBH 5922	14	US7722
5	86M95	15	US7370
6	86M94	16	NB 105 B
7	XM14623	17	NB 105 A
8	XM16620	18	NB 14R
9	BIO8290	19	730149
10	US 7512		
Reference Varieties			
1	Proagro 9444	8	ICMB 88004
2	MP 7792	9	H 77/833-2-202
3	86M64	10	H 77/29-2
4	JKBH 26	11	ICMR 356
5	Kaveri Super Boss	12	842B
6	86M86	13	ICMB 92777
7	843-22B	14	J 2340
Checks			
1	HHB 67 Improved	2	GHB 538

Observations on candidate and reference varieties on following 28 characters were recorded as per general and specific DUS guidelines (Pearl Millet) notified by PPV & FRA in Plant Variety Journal of India Vol. - 12, No. – 04, June 05, 2018:

S. No.	Characteristics	S. No.	Characteristics
1	Plant: Anthocyanin colouration of first leaf sheath	15	Spike: Length (cm)
2	Plant: Growth habit	16	Spike: Anthocyanin pigmentation of glume
3	Time of spike emergence (50% plant with at least one spike emerged fully)	17	Spike: Bristle
4	Leaf : Sheath pubescence	18	Spike: Bristle colour
5	Leaf : Sheath length (cm)	19	Spike: Bristle Appearance
6	Leaf: Blade length (cm)	20	Spike: Girth [maximum point (excluding bristles)] (cm)
7	Leaf: Blade width (at widest point) (cm)	21	Plant: Number of productive tillers
8	Spike: Stigma Pigmentation	22	Plant: Height (including spike) (cm)
9	Spike: Anther colour	23	Spike: Shape
10	Plant: Node pubescence	24	Spike: Tip sterility
11	Plant: Number of nodes	25	Spike: Density
12	Plant: Node pigmentation	26	Seed: colour
13	Plant: Internode pigmentation (between 3rd and 4th node from top)	27	Seed: Shape
14	Spike exsertion	28	Seed: Weight of 1000 grains (g)

b. Maintenance of DUS reference varieties

Fifty four genotypes including B lines (18), R lines (16) and hybrids (20) listed below were studied for DUS characteristics at ICAR-AICRP on Pearl Millet, Jodhpur and MPKV, Dhule during Kharif 2023-24 & 2024-25 and maintained (B and R lines only) at ICAR-AICRP on Pearl Millet, Jodhpur during Kharif 2025.

S. No.	Reference/example varieties	S. No.	Reference/example varieties	S. No.	Reference/example varieties
1	81 B	20	J 2454	39	RHB 173
2	841 B	21	J 2467	40	MPMH 17
3	842 B	22	ICMR 356	41	GHB 558
4	843-22 B	23	H 77/833-2-202	42	GHB 744
5	ICMB 88004	24	G 73-107	43	GHB 732
6	ICMB 92333	25	H 77/29-2	44	ICMH 356
7	ICMB 92777	26	H 77/833-2	45	HHB 67 Improved
8	ICMB 93333	27	H 90/4-5	46	HHB 197
9	ICMB 94555	28	HBL 11	47	HHB 223
10	ICMB 94111	29	RHRBI 1314	48	Pratap
11	ICMB 95222	30	RIB 3135-18	49	Nandi 61
12	ICMB 97111	31	RIB 494	50	86M64
13	ICMB 97444	32	RIB 335/74	51	Kaveri Super Boss
14	ICMB 02333	33	PIB 686	52	86M86
15	ICMB 04999	34	MIR 525-2	53	JKBH 26
16	RHRB 1B	35	RHB 177	54	Proagro 9444
17	RHRB 5B	36	GHB 538		
18	RHRB 13B	37	GHB 719		
19	J 2340	38	PB 106		

c. Registration of cultivars in PPV and FRA

So far 288 cultivars and parental lines (50 Public, 222 private and 16 farmer varieties) have been registered with PPV and FRA and several are in the process of registration. ICAR-AICRP on Pearl Millet is the nodal agency for undertaking pearl millet variety registration with PPV & FRA. Details of registered genotypes are as under:

S. No.	Registration No.	Category of Variety	Denomination of the Candidate Variety	Name of Applicant	Applicant Category	Date of Filling	Application No.	Date of Certificate Issue	Maximum Protection Period up to	Provisional Protection Claim
1.	1 of 2009	Extant (Notified)	JKBH-26 (MH-595)	JK Agri Genetics Ltd.	Private	14-Jun-2007	E17 PG 24 07 094	12 February 2009	16 September 2012	14-Jun-2007 to 12-Feb-2009
2.	27 of 2009	Extant (Notified)	GHB-719 (MH-1236)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E20 PG29 07 203	12 February 2009	05 February 2022	06-Nov-2007 to 12-Feb-2009
3.	28 of 2009	Extant (Notified)	GHB-538 (MH-1049)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E21 PG30 07 204	12 February 2009	24 August 2020	06-Nov-2007 to 12-Feb-2009
4.	29 of 2009	Extant (Notified)	Parbhani Sampada (PPC-6)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E24 PG33 07 207	12 February 2009	01 February 2020	06-Nov-2007 to 12-Feb-2009
5.	30 of 2009	Extant (Notified)	GHB-526 (MSH-105)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E26 PG 35 07 209	12 February 2009	11 March 2018	06-Nov-2007 to 12-Feb-2009
6.	31 of 2009	Extant (Notified)	GHB-558 (MH-946)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E27 PG36 07 210	12 February 2009	11 March 2018	06-Nov-2007 to 12-Feb-2009
7.	56 of 2009	Extant (Notified)	MP-406 (CZP-9802)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E30 PG39 07 213	16 April 2009	11 March 2018	06-Nov-2007 to 16-Apr-2009
8.	57 of 2009	Extant (Notified)	CoCu-9	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E31 PG 40 07 214	16 April 2009	24 August 2020	06-Nov-2007 to 16-Apr-2009
9.	58 of 2009	Extant (Notified)	HC-20-(HMP 9102)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E33 PG 42 07 216	16 April 2009	03 September 2017	06-Nov-2007 to 16-Apr-2009
10.	59 of 2009	Extant (Notified)	RHB-121 (MH-892)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E36 PG45 07 219	16 April 2009	14 November 2016	06-Nov-2007 to 16-Apr-2009
11.	60 of 2009	Extant (Notified)	COH (Cu)8	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E38 PG47 07 221	16 April 2009	14 November 2016	06-Nov-2007 to 16-Apr-2009
12.	61 of 2009	Extant (Notified)	Pusa Composite-383 (MP-383)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E39 PG48 07 222	16 April 2009	14 November 2016	06-Nov-2007 to 16-Apr-2009
13.	62 of 2009	Extant (Notified)	AIMP-92901 (Samrudhi-MP-282)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E41 PG50 07 224	16 April 2009	14 November 2016	06-Nov-2007 to 16-Apr-2009
14.	63 of 2009	Extant	JBV-2 (GKKV-	Indian Council of	Public	6-Nov-2007	E47 PG56	16 April	07 June	06-Nov-2007 to

S. No.	Registration No.	Category of Variety	Denomination of the Candidate Variety	Name of Applicant	Applicant Category	Date of Filling	Application No.	Date of Certificate Issue	Maximum Protection Period up to	Provisional Protection Claim
		(Notified)	93191)	Agricultural Research (ICAR)			07 230	2009	2014	16-Apr-2009
15.	64 of 2009	Extant (Notified)	X-6 (MH-140)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E50 PG59 07 233	16 April 2009	30 April 2012	06-Nov-2007 to 16-Apr-2009
16.	65 of 2009	Extant (Notified)	Pusa Bajri-266 (MP-226)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E56 PG65 07 239	16 April 2009	30 April 2012	06-Nov-2007 to 16-Apr-2009
17.	66 of 2009	Extant (Notified)	RHRBH-8609 (Shraddha)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E59 PG68 07 242	16 April 2009	01 September 2009	06-Nov-2007 to 16-Apr-2009
18.	72 of 2009	Extant (Notified)	HHB 67 Improved	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E22 PG31 07 205	20 July 2009	04 November 2020	06-Nov-2007 to 20-Jul-2009
19.	73 of 2009	Extant (Notified)	HHB-117	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E32 PG41 07 215	20 July 2009	30 May 2019	06-Nov-2007 to 20-Jul-2009
20.	74 of 2009	Extant (Notified)	Haryana Composite-10	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E44 PG53 07 227	20 July 2009	02 April 2015	06-Nov-2007 to 20-Jul-2009
21.	75 of 2009	Extant (Notified)	X-7	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E51 PG60 07 234	20 July 2009	08 September 2012	06-Nov-2007 to 20-Jul-2009
22.	76 of 2009	Extant (Notified)	RBH-30	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E55 PG64 07 238	20 July 2009	30 April 2012	06-Nov-2007 to 20-Jul-2009
23.	112 of 2009	Extant	Nandi-52 (MH-1078) (NMH-45)	New Nandi Seeds Corporation	Private	8-Sep-2008	E322 PG20 08 446	20 July 2009	09 January 2023	08-Sep-2008 to 20-Jul-2009
24.	113 of 2009	Extant	Nandi-62 (MH-1274) (NMH-68)	New Nandi Seeds Corporation	Private	18-Sep-2008	E323 PG21 08 448	20 July 2009	04 October 2022	18-Sep-2008 to 20-Jul-2009
25.	114 of 2009	Extant	Nandi-35 (MH-889)	New Nandi Seeds Corporation	Private	18-Sep-2008	E324 PG22 08 449	20 July 2009	14 November 2016	18-Sep-2008 to 20-Jul-2009
26.	115 of 2009	Extant	Nandi-8 (MH-741)	New Nandi Seeds Corporation	Private	18-Sep-2008	E325 PG23 08 450	20 July 2009	07 June 2014	18-Sep-2008 to 20-Jul-2009
27.	116 of 2009	Extant	Nandi-30 (MH-515)	New Nandi Seeds Corporation	Private	18-Sep-2008	E326 PG24 08 451	20 July 2009	30 April 2012	18-Sep-2008 to 20-Jul-2009
28.	117 of 2009	Extant	Nandi-32 (MH-	New Nandi Seeds	Private	18-Sep-2008	E327 PG25	20 July	25 October	18-Sep-2008 to

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			773)	Corporation			08 452	2009	2014	20-Jul-2009
29.	161 of 2009	Extant	GICK V-96752 (MP 363)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E40 PG49 07 223	21 December 2009	01 February 2016	06-Nov-2007 to 21-Dec-2009
30.	35 of 2011	Extant	JKBH-676 (MH-1299)	JK Agri Genetics Ltd.	Private	14-Jun-2007	E16 PG23 07 93	24 June 2011	26 August 2024	14-Jun-2007 to 24-Jun-2011
31.	49 of 2011	Extant	PROAGRO-9444 (MSH-118)	Bayer Biosciences Pvt. Ltd.	Private	12-Aug-2009	E15 PG22 09 335	24 June 2011	01 February 2020	12-Aug-2009 to 24-Jun-2011
32.	77 of 2011	Extant	PCB 164	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E29 PG38 07 212	21 October 2011	19 July 2022	06-Nov-2007 to 21-Oct-2011
33.	82 of 2011	Extant	PHB-2168	Indian Council of Agricultural Research (ICAR)	Public	22-Jan-2008	E390 PG27 08 158	21 October 2011	07 May 2023	22-Jan-2008 to 21-Oct-2011
34.	83 of 2011	Extant	GHB-744 (MH-1272)	Indian Council of Agricultural Research (ICAR)	Public	22-Jan-2008	E391 PG28 08 159	21 October 2011	09 January 2023	22-Jan-2008 to 21-Oct-2011
35.	99 of 2011	Extant	Pusa Composite 443 (MP 443)	Indian Council of Agricultural Research (ICAR)	Public	29-Apr-2009	E11 PG16 09 218	21 October 2011	10 February 2024	29-Apr-2009 to 21-Oct-2011
36.	111 of 2011	New	B 2114	Maharashtra Hybrid Seeds Company Limited	Private	21-May-2007	N1 PG3 07 017	07 December 2011	06 December 2026	21-May-2007 to 07-Dec-2011
37.	8 of 2012	New	B 2124	Maharashtra Hybrid Seeds Company Limited	Private	21-May-2007	N3 PG5 07 019	07 March 2012	06 March 2027	21-May-2007 to 07-Mar-2012
38.	9 of 2012	New	MIP-003	Emergent Genetics India Pvt Ltd	Private	22-May-2007	N6 PG14 07 077	07 March 2012	06 March 2027	22-May-2007 to 07-Mar-2012
39.	10 of 2012	New	SYN-PM-0458	Syngenta India Limited	Private	10-Oct-2007	N9 PG28 07 141	07 March 2012	06 March 2027	10-Oct-2007 to 07-Mar-2012
40.	11 of 2012	New	86M64	Pioneer Overseas corporation-India Branch Office	Private	17-Sep-2007	N8 PG27 07 140	07 March 2012	06 March 2027	17-Sep-2007 to 07-Mar-2012
41.	43 of 2012	Extant	HHB-146 (MH-960)	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E28 PG37 07 211	02 July 2012	11 February 2018	06-Nov-2007 to 02-Jul-2012
42.	177 of 2012	Extant	Proagro 9443 (MH-846)	Bayer Biosciences Pvt. Ltd.	Private	19-Sep-2011	E1 PG1 11 931	16 October 2012	01 February 2016	19-Sep-2011 to 16-Oct-2012

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43.	195 of 2012	Extant	Pusa 605 (MH 564)	Indian Council of Agricultural Research (ICAR)	Public	17-Jan-2008	E129 PG4 08 142	09 November 2012	07 June 2014	17-Jan-2008 to 09-Nov-2012
44.	196 of 2012	Extant	Pusa Composite-334 (MP-334)	Indian Council of Agricultural Research (ICAR)	Public	17-Jan-2008	E127 PG2 08 140	09 November 2012	25 October 2014	17-Jan-2008 to 09-Nov-2012
45.	197 of 2012	Extant	Pusa-415	Indian Council of Agricultural Research (ICAR)	Public	6-Nov-2007	E46 PG55 07 229	09 November 2012	25 October 2014	06-Nov-2007 to 09-Nov-2012
46.	21 of 2013	Extant	HHB 197 (MH-1302)	Indian Council of Agricultural Research (ICAR)	Public	22-Jan-2008	E395 PG10 08 161	01 February 2013	09 January 2023	22-Jan-2008 to 01-Feb-2013
47.	30 of 2013	Extant	Proagro 555 (MSH 16) (PB 727)	Bayer Biosciences Pvt. Ltd.	Private	1-Oct-2009	E20 PG28 09 414	06 March 2013	09 January 2023	01-Oct-2009 to 06-Mar-2013
48.	88 of 2013	Extant	GHB-732 (MH-1307)	Indian Council of Agricultural Research (ICAR)	Public	22-Jan-2008	E394 PG9 08 160	17 May 2013	09 January 2023	22-Jan-2008 to 17-May-2013
49.	89 of 2013	Extant	GHB-757 (MH-1328)	Indian Council of Agricultural Research (ICAR)	Public	22-Jan-2008	E396 PG11 08 162	17 May 2013	09 January 2023	22-Jan-2008 to 17-May-2013
50.	92 of 2013	Extant	KPMH-1	M/S Kaveri Seed Company Limited	Private	5-Feb-2009	E3 PG7 09 36	24 May 2013	09 September 2027	05-Feb-2009 to 24-May-2013
51.	115 of 2013	Extant (VCK)	MRB 204	Maharashtra Hybrid Seeds Company Limited	Private	21-May-2007	E2 PG2 07 016	17 July 2013	16 July 2028	21-May-2007 to 17-Jul-2013
52.	116 of 2013	Extant (VCK)	MRB 2210	Maharashtra Hybrid Seeds Company Limited	Private	21-May-2007	E1 PG1 07 013	22 July 2013	21 July 2028	21-May-2007 to 22-Jul-2013
53.	271 of 2013	Extant (VCK)	BPM 901	Bayer Biosciences Pvt. Ltd.	Private	12-Aug-2009	E14 PG21 09 334	16 December 2013	16 December 2028	12-Aug-2009 to 16-Dec-2013
54.	282 of 2013	Extant (VCK)	Nirmal-40 (NPH-40)	Nirmal Seeds Private Ltd.	Private	22-Sep-2009	E18 PG26 09 395	16 December 2013	16 December 2028	22-Sep-2009 to 16-Dec-2013
55.	283 of 2013	Extant (VCK)	NB-14A	Nuziveedu Seeds Limited	Private	3-Nov-2009	E28 PG36 09 465	16 December 2013	16 December 2028	03-Nov-2009 to 16-Dec-2013
56.	285 of 2013	Extant	NB-10R	Nuziveedu Seeds	Private	3-Nov-2009	E30 PG38	19	19	03-Nov-2009 to

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		(VCK)		Limited			09 467	December 2013	December 2028	19-Dec-2013
57.	287 of 2013	Extant (VCK)	NB-61A	Nuziveedu Seeds Limited	Private	3-Nov-2009	E24 PG32 09 461	20 December 2013	20 December 2028	03-Nov-2009 to 20-Dec-2013
58.	289 of 2013	New	DGB-013	Devgen NV, Belgium	Private	3-Nov-2009	N9 PG43 09 478	26 December 2013	26 December 2028	03-Nov-2009 to 26-Dec-2013
59.	290 of 2013	Extant (VCK)	NB-86R	Nuziveedu Seeds Limited	Private	3-Nov-2009	E26 PG34 09 463	26 December 2013	26 December 2028	03-Nov-2009 to 26-Dec-2013
60.	291 of 2013	Extant (VCK)	NB-153R	Nuziveedu Seeds Limited	Private	3-Nov-2009	E29 PG37 09 466	26 December 2013	26 December 2028	03-Nov-2009 to 26-Dec-2013
61.	299 of 2013	Extant (VCK)	BPM 904	Bayer Biosciences Pvt. Ltd.	Private	1-Oct-2009	E21 PG29 09 415	31 December 2013	31 December 2028	01-Oct-2009 to 31-Dec-2013
62.	300 of 2013	Extant (VCK)	GK 1044	Ganga Kaveri Seed Pvt. Ltd., Hyderabad	Private	23-Jun-2009	E13 PG19 09 299	31 December 2013	31 December 2028	23-Jun-2009 to 31-Dec-2013
63.	301 of 2013	Extant (VCK)	NB-151R	Nuziveedu Seeds Limited	Private	3-Nov-2009	E32 PG40 09 469	31 December 2013	31 December 2028	03-Nov-2009 to 31-Dec-2013
64.	302 of 2013	Extant (VCK)	NB-152 R	Nuziveedu Seeds Limited	Private	3-Nov-2009	E31 PG39 09 468	31 December 2013	31 December 2028	03-Nov-2009 to 31-Dec-2013
65.	1 of 2014	Extant (VCK)	NB-101 A	Nuziveedu Seeds Limited	Private	3-Nov-2009	E34 PG42 09 471	02 January 2014	02 January 2029	03-Nov-2009 to 02-Jan-2014
66.	2 of 2014	Extant (VCK)	NB-102A	Nuziveedu Seeds Limited	Private	3-Nov-2009	E33 PG41 09 470	02 January 2014	02 January 2029	03-Nov-2009 to 02-Jan-2014
67.	3 of 2014	Extant (VCK)	NB-20R	Nuziveedu Seeds Limited	Private	3-Nov-2009	E27 PG35 09 464	02 January 2014	02 January 2029	03-Nov-2009 to 02-Jan-2014
68.	4 of 2014	Extant (VCK)	NB-60A	Nuziveedu Seeds Limited	Private	3-Nov-2009	E25 PG33 09 462	09 January 2014	09 January 2029	03-Nov-2009 to 09-Jan-2014
69.	5 of 2014	Extant (VCK)	BPM 906	Bayer Biosciences Pvt. Ltd.	Private	1-Oct-2009	E23 PG31 09 417	09 January 2014	09 January 2029	01-Oct-2009 to 09-Jan-2014
70.	7 of 2014	New	KBH Boss 65	M/S Kaveri Seed Company Limited	Private	5-Feb-2009	N4 PG6 09 35	09 January 2014	09 January 2029	05-Feb-2009 to 09-Jan-2014
71.	9 of 2014	New	HT-PM-4201	Hytech Seed India Private Limited	Private	19-Nov-2009	N13 PG47 09 507	09 January 2014	09 January 2029	19-Nov-2009 to 09-Jan-2014

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72.	10 of 2014	New	BIO 448 H	Bioseed Research India Private Limited	Private	5-Feb-2009	N1 PG2 09 29	09 January 2014	09 January 2029	05-Feb-2009 to 09-Jan-2014
73.	27 of 2014	Extant (VCK)	BPM 905	Bayer Biosciences Pvt. Ltd.	Private	1-Oct-2009	E22 PG30 09 416	20 January 2014	20 January 2029	01-Oct-2009 to 20-Jan-2014
74.	30 of 2014	Extant	Pratap (MH 1642)	Nuziveedu Seeds Limited	Private	17-Mar-2009	E7 PG11 09 76	21 January 2014	09 September 2027	17-Mar-2009 to 21-Jan-2014
75.	32 of 2014	New	KBR 621	M/S Kaveri Seed Company Limited	Private	5-Feb-2009	N3 PG4 09 33	22 January 2014	22 January 2029	05-Feb-2009 to 22-Jan-2014
76.	33 of 2014	New	KBMS 329	M/S Kaveri Seed Company Limited	Private	5-Feb-2009	N2 PG3 09 32	22 January 2014	22 January 2029	05-Feb-2009 to 22-Jan-2014
77.	45 of 2014	New	VBBH 3040	Vibha Agrotech Limited	Private	17-Mar-2008	N25 PG14 08 203	05 February 2014	04 February 2029	17-Mar-2008 to 05-Feb-2014
78.	170 of 2014	New	KBR-780	M/S Kaveri Seed Company Limited	Private	21-Jun-2010	N27 PG27 10 169	13 May 2014	12 May 2029	21-Jun-2010 to 13-May-2014
79.	625 of 2014	New	JKBH 768	JK Agri Genetics Ltd.	Private	7-Apr-2008	N104 PG 19 08 351	17 September 2014	16 September 2029	07-Apr-2008 to 17-Sep-2014
80.	11 of 2015	Extant	MP-7792 (MH-1609)	Metahelix Life Sciences Limited	Private	21-Jul-2014	E2 PG23 14 1412	06 January 2015	25 July 2027	21-Jul-2014 to 06-Jan-2015
81.	13 of 2015	Extant	MP-7872 (MH-1610)	Metahelix Life Sciences Limited	Private	21-Jul-2014	E1 PG22 14 1411	07 January 2015	25 July 2027	21-Jul-2014 to 07-Jan-2015
82.	31 of 2015	New	JKBH 778	JK Agri Genetics Ltd.	Private	7-Apr-2008	N103 PG18 08 350	19 January 2015	18 January 2030	07-Apr-2008 to 19-Jan-2015
83.	32 of 2015	Extant (VCK)	AKASH (VBBH 350)	Vibha Agrotech Limited	Private	31-Mar-2008	E192 PG15 08 222	19 January 2015	18 January 2030	31-Mar-2008 to 19-Jan-2015
84.	79 of 2015	New	KBR 870	M/S Kaveri Seed Company Limited	Private	8-Mar-2010	N05 PG05 10 64	20 February 2015	19 February 2030	08-Mar-2010 to 20-Feb-2015
85.	82 of 2015	New	KBMS 293	M/S Kaveri Seed Company Limited	Private	8-Mar-2010	N06 PG06 10 65	25 February 2015	24 February 2030	08-Mar-2010 to 25-Feb-2015
86.	93 of 2015	New	NBBH-913	Navbharat Seeds Pvt. Ltd.	Private	12-Jan-2010	N02 PG02 10 06	07 April 2015	06 April 2030	12-Jan-2010 to 07-Apr-2015
87.	99 of 2015	New	BPM907	Bayer Biosciences Pvt. Ltd.	Private	19-Oct-2010	N38 PG38 10 319	27 April 2015	26 April 2030	19-Oct-2010 to 27-Apr-2015
88.	101 of 2015	New	KBMS 231	Kaveri Seed Company Limited	Private	8-Mar-2010	N10 PG10 10 69	27 April 2015	26 April 2030	08-Mar-2010 to 27-Apr-2015
89.	102 of 2015	New	KBR 864	Kaveri Seed	Private	8-Mar-2010	N04 PG04	27 April	26 April	08-Mar-2010 to

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				Company Limited			10 63	2015	2030	27-Apr-2015
90.	199 of 2015	Extant (VCK)	JKBH-550	JK Agri Genetics Ltd.	Private	14-Jun-2007	E15 PG22 07 92	27 August 2015	26 August 2030	14-Jun-2007 to 27-Aug-2015
91.	200 of 2015	New	VBBH 3115	VIBHA AGROTECH LIMITED	Private	4-Jan-2010	N01 PG01 10 02	27 August 2015	26 August 2030	04-Jan-2010 to 27-Aug-2015
92.	203 of 2015	Extant (VCK)	NBH-1188 (Big B)	Nath Bio-Genes (I) Ltd.	Private	13-Jun-2012	E1 PG5 12 200	27 August 2015	26 August 2030	13-Jun-2012 to 27-Aug-2015
93.	204 of 2015	Extant (VCK)	86M01	Pioneer Overseas Corporation	Private	28-Jun-2012	E3 PG8 12 228	27 August 2015	26 August 2030	28-Jun-2012 to 27-Aug-2015
94.	206 of 2015	Extant (VCK)	NBH-1134	Nuziveedu Seeds Ltd.	Private	17-Mar-2009	E6 PG10 09 75	02 September 2015	09 January 2030	17-Mar-2009 to 02-Sep-2015
95.	207 of 2015	Extant (VCK)	NBH-2223	Nuziveedu Seeds Ltd.	Private	17-Mar-2009	E8 PG12 09 77	02 September 2015	09 January 2030	17-Mar-2009 to 02-Sep-2015
96.	208 of 2015	Extant (VCK)	NBH-4455	Nuziveedu Seeds Ltd.	Private	13-Apr-2009	E9 PG14 09 139	02 September 2015	09 January 2030	13-Apr-2009 to 02-Sep-2015
97.	209 of 2015	Extant (VCK)	NBH-216	Nuziveedu Seeds Ltd.	Private	21-May-2009	E12 PG17 09 278	02 September 2015	01 September 2030	21-May-2009 to 02-Sep-2015
98.	210 of 2015	New	KBR 721	Kaveri Seed Company Limited	Private	8-Mar-2010	N07 PG07 10 66	02 September 2015	01 September 2030	08-Mar-2010 to 02-Sep-2015
99.	212 of 2015	Extant (VCK)	NBH-1717	Nath Bio-Genes (I) Ltd.	Private	13-Jun-2012	E2 PG6 12 201	02 September 2015	01 September 2030	13-Jun-2012 to 02-Sep-2015
100.	243 of 2015	Extant	RHRBH-9808	Mahatma Phule Krishi Vidyapeeth	Public	9-Jan-2015	E1 PG1 15 28	15 October 2015	30 August 2025	09-Jan-2015 to 15-Oct-2015
101.	361 of 2016	Extant (VCK)	PM80105R	DCM Shriram Limited	Private	26-Mar-2009	E35 PG13 9 113	09 November 2016	08 November 2031	26-Mar-2009 to 09-Nov-2016
102.	226 of 2017	New	KBMS 569	Kaveri Seed Company Limited	Private	3-Jun-2010	N15 PG15 10 136	30 August 2017	29 August 2032	03-Jun-2010 to 30-Aug-2017
103.	227 of 2017	New	KBMS 253	Kaveri Seed Company Limited	Private	3-Jun-2010	N16 PG16 10 137	30 August 2017	29 August 2032	03-Jun-2010 to 30-Aug-2017
104.	228 of 2017	New	KBMS 219	Kaveri Seed Company Limited	Private	21-Jun-2010	N21 PG21 10 163	30 August 2017	29 August 2032	21-Jun-2010 to 30-Aug-2017
105.	229 of 2017	New	KBR 877	Kaveri Seed Company Limited	Private	21-Jun-2010	N23 PG23 10 165	30 August 2017	29 August 2032	21-Jun-2010 to 30-Aug-2017

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106.	270 of 2017	New	KBMS 227	Kaveri Seed Company Limited	Private	3-Jun-2010	N18 PG18 10 139	29 September 2017	28 September 2032	03-Jun-2010 to 29-Sep-2017
107.	282 of 2017	New	KBMS 239	Kaveri Seed Company Limited	Private	8-Mar-2010	N8 PG8 10 67	04 October 2017	03 October 2032	08-Mar-2010 to 04-Oct-2017
108.	284 of 2017	New	KBR 831	Kaveri Seed Company Limited	Private	21-Jun-2010	N22 PG22 10 164	04 October 2017	03 October 2032	21-Jun-2010 to 04-Oct-2017
109.	285 of 2017	New	KBR 823	Kaveri Seed Company Limited	Private	21-Jun-2010	N25 PG25 10 167	04 October 2017	03 October 2032	21-Jun-2010 to 04-Oct-2017
110.	309 of 2017	New	SONY-NBH227	Nuziveedu Seeds Ltd.	Private	22-Sep-2008	N124 PG26 8 453	28 November 2017	27 November 2032	22-Sep-2008 to 28-Nov-2017
111.	312 of 2017	New	KBMS 251	Kaveri Seed Company Limited	Private	3-Jun-2010	N19 PG19 10 140	28 November 2017	27 November 2032	03-Jun-2010 to 28-Nov-2017
112.	41 of 2018	New	JKBH 1108	JK Agri Genetics Ltd.	Private	25-Jul-2012	N7 PG10 12 373	28 March 2018	27 March 2033	25-Jul-2012 to 28-Mar-2018
113.	42 of 2018	New	JKBH 1093	JK Agri Genetics Ltd.	Private	25-Jul-2012	N8 PG11 12 374	28 March 2018	27 March 2033	25-Jul-2012 to 28-Mar-2018
114.	43 of 2018	New	JKBH 1100	JK Agri Genetics Ltd.	Private	25-Jul-2012	N9 PG12 12 375	28 March 2018	27 March 2033	25-Jul-2012 to 28-Mar-2018
115.	19 of 2019	New	NBH-4903	Nuziveedu Seeds Limited	Private	19-Dec-2011	N2 PG3 11 1353	18 March 2019	17 March 2034	19-Dec-2011 to 18-Mar-2019
116.	95 of 2019	New	86M88	Pioneer Overseas Corporation	Private	28-Jun-2012	N6 PG9 12 229	27 March 2019	26 March 2034	28-Jun-2012 to 27-Mar-2019
117.	96 of 2019	New	86M12	Pioneer Overseas Corporation	Private	28-Jun-2012	N5 PG7 12 227	28 March 2019	27 March 2034	28-Jun-2012 to 28-Mar-2019
118.	99 of 2019	New	KBR 618	Kaveri Seed Company Limited	Private	21-Jun-2010	N24 PG24 10 166	28 March 2019	27 March 2034	21-Jun-2010 to 28-Mar-2019
119.	101 of 2019	Extant (Notified)	NBH 5061 (MH 1812)	Nuziveedu Seeds Ltd.	Private	20-Jul-2016	E5 PG31 16 946	28 March 2019	29 July 2029	20-Jul-2016 to 28-Mar-2019
120.	287 of 2019	Extant (VCK)	B 2037	Maharashtra Hybrid Seeds Company Limited	Private	21-May-2007	E68 PG4 7 18	19 December 2019	18 December 2034	21-May-2007 to 19-Dec-2019
121.	337 of 2019	New	PSP68	Bayer Biosciences Pvt. Ltd.	Private	7-Nov-2013	N12 PG12 13 753	19 December 2019	18 December 2034	07-Nov-2013 to 19-Dec-2019
122.	358 of 2019	New	PP63	Bayer Biosciences Pvt. Ltd.	Private	28-Dec-2012	N11 PG14 12 691	19 December 2019	18 December 2034	28-Dec-2012 to 19-Dec-2019

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123.	359 of 2019	New	DGB-017	M/s Crystal Crop Protection Limited	Private	22-Jul-2010	N31 PG31 10 214	19 December 2019	18 December 2034	22-Jul-2010 to 19-Dec-2019
124.	361 of 2019	New	MIP-007	M/s Crystal Crop Protection Limited	Private	22-May-2007	N10 PG15 7 78	19 December 2019	18 December 2034	22-May-2007 to 19-Dec-2019
125.	22 of 2020	Extant (VCK)	MIP-008	M/s Crystal Crop Protection Limited	Private	22-May-2007	E5 PG10 7 68	17 January 2020	16 January 2035	22-May-2007 to 17-Jan-2020
126.	126 of 2020	New	NPA-84	Nirmal Seeds Pvt. Ltd.	Private	19-Aug-2014	N24 PG28 14 1701	19 February 2020	18 February 2035	19-Aug-2014 to 19-Feb-2020
127.	127 of 2020	New	NPA-168	Nirmal Seeds Pvt. Ltd.	Private	19-Aug-2014	N23 PG27 14 1700	19 February 2020	18 February 2035	19-Aug-2014 to 19-Feb-2020
128.	112 of 2013	Extant (VCK)	86M52	Pioneer Overseas Corporation (reissued with address change, old serial no. 658)	Private	22-Aug-2007	E19 PG26 7 137	17 July 2013	16 July 2028	22-Aug-2007 to 17-Jul-2013
129.	94 of 2015	New	86M66	Pioneer Overseas Corporation (reissued with address change, old serial no. 1777)	Private	19-Apr-2010	N12 PG12 10 118	07 April 2015	06 April 2030	19-Apr-2010 to 07-Apr-2015
130.	97 of 2015	New	86M33	Pioneer Overseas Corporation (reissued with address change, old serial no. 1780)	Private	19-Apr-2010	N11 PG11 10 117	08 April 2015	07 April 2030	19-Apr-2010 to 08-Apr-2015
131.	105 of 2015	New	86M86	Pioneer Overseas Corporation (reissued with address change, old serial no. 1788)	Private	13-May-2010	N13 PG13 10 126	27 April 2015	26 April 2030	13-May-2010 to 27-Apr-2015
132.	40 of 2016	New	86 M 40	Pioneer Overseas Corporation (reissued with address change, old serial no. 2109)	Private	18-Jan-2012	N2 PG2 12 5	29 January 2016	28 January 2031	18-Jan-2012 to 29-Jan-2016
133.	41 of 2016	New	86 M 76	Pioneer Overseas Corporation (reissued with address change, old serial no. 2110)	Private	18-Jan-2012	N3 PG3 12 6	29 January 2016	28 January 2031	18-Jan-2012 to 29-Jan-2016
134.	42 of 2016	New	86M11	Pioneer Overseas Corporation (reissued	Private	8-Feb-2012	N4 PG4 12 12	29 January 2016	28 January 2031	08-Feb-2012 to 29-Jan-2016

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				with address change, old serial no. 2111)						
135.	201 of 2017	New	86M84	Pioneer Overseas Corporation (reissued with address change, old serial no. 2875)	Private	13-May-2014	N12 PG14 14 1150	29 May 2017	28 May 2032	13-May-2014 to 29-May-2017
136.	REG/2019/73 H	Extant (Notified)	PB 1705 (MH 2008)	Bayer Crop Science LP	Public	6-May-2019	E2 PG2 19 73	20 August 2020	26 March 2033	06-May-2019 to 20-Aug-2020
137.	REG/2019/73 A	Extant (Notified)	PSP83	Bayer Crop Science LP	Public	6-May-2019	E2 PG2 19 73	20 August 2020	26 March 2033	06-May-2019 to 20-Aug-2020
138.	REG/2019/73 B	Extant (Notified)	PSP84	Bayer Crop Science LP	Public	6-May-2019	E2 PG2 19 73	20 August 2020	26 March 2033	06-May-2019 to 20-Aug-2020
139.	REG/2019/73 R	Extant (Notified)	PP78	Bayer Crop Science LP	Public	6-May-2019	E2 PG2 19 73	20 August 2020	26 March 2033	06-May-2019 to 20-Aug-2020
140.	REG/2018/112 H	Extant (Notified)	Mahabeej-1005 (MH-1852)	Maharashtra State Seeds Corporation Ltd.	Public	13-Mar-2018	E2 PG7 18 112	20 August 2020	24 August 2032	13-Mar-2018 to 20-Aug-2020
141.	REG/2018/112 A	Extant (Notified)	MBJ-2A	Maharashtra State Seeds Corporation Ltd.	Public	13-Mar-2018	E2 PG7 18 112	20 August 2020	24 August 2032	13-Mar-2018 to 20-Aug-2020
142.	REG/2018/112 B	Extant (Notified)	MBJ-2B	Maharashtra State Seeds Corporation Ltd.	Public	13-Mar-2018	E2 PG7 18 112	20 August 2020	24 August 2032	13-Mar-2018 to 20-Aug-2020
143.	REG/2018/112 R	Extant (Notified)	MBJ-1R	Maharashtra State Seeds Corporation Ltd.	Public	13-Mar-2018	E2 PG7 18 112	20 August 2020	24 August 2032	13-Mar-2018 to 20-Aug-2020
144.	REG/2019/72 H	Extant (Notified)	PB 1720 (MH 2107) (PB 1720)	Bayer Crop Science LP	Private	6-May-2019	E1 PG1 19 72	20 August 2020	25 December 2033	06-May-2019 to 20-Aug-2020
145.	REG/2019/72 A	Extant (Notified)	PSP93	Bayer Crop Science LP	Private	6-May-2019	E1 PG1 19 72	20 August 2020	25 December 2033	06-May-2019 to 20-Aug-2020
146.	REG/2019/72 B	Extant (Notified)	PSP94	Bayer Crop Science LP	Private	6-May-2019	E1 PG1 19 72	20 August 2020	25 December 2033	06-May-2019 to 20-Aug-2020
147.	REG/2019/72 R	Extant (Notified)	PP106	Bayer Crop Science LP	Private	6-May-2019	E1 PG1 19 72	20 August 2020	25 December 2033	06-May-2019 to 20-Aug-2020
148.	REG/2019/172 H	Extant (Notified)	PB 1852 (MH-2224)	Bayer Crop Science LP	Private	3-Dec-2019	E9 PG10 19 172	29 October 2020	04 September	03-Dec-2019 to 29-Oct-2020

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									2034	
149.	REG/2019/172 A	Extant (Notified)	PSP95	Bayer Crop Science LP	Private	3-Dec-2019	E9 PG10 19 172	29 October 2020	04 September 2034	03-Dec-2019 to 29-Oct-2020
150.	REG/2019/172 B	Extant (Notified)	PSP96	Bayer Crop Science LP	Private	3-Dec-2019	E9 PG10 19 172	29 October 2020	04 September 2034	03-Dec-2019 to 29-Oct-2020
151.	REG/2019/172 R	Extant (Notified)	PP110	Bayer Crop Science LP	Private	3-Dec-2019	E9 PG10 19 172	29 October 2020	04 September 2034	03-Dec-2019 to 29-Oct-2020
152.	REG/2014/2446	Extant (VCK)	BLPMR 1295	Bisco Biosciences Pvt. Ltd.	Private	8-Dec-2014	E4 PG30 14 2446	12 November 2020	11 November 2035	08-Dec-2014 to 12-Nov-2020
153.	REG/2017/1870 H	Extant (Notified)	Nutrifeed (PAC-981)	UPL Limited	Private	18-Sep-2017	E2 PG27 17 1870	12 November 2020	23 April 2029	18-Sep-2017 to 12-Nov-2020
154.	REG/2017/1870 A	Extant (Notified)	110001	UPL Limited	Private	18-Sep-2017	E2 PG27 17 1870	12 November 2020	23 April 2029	18-Sep-2017 to 12-Nov-2020
155.	REG/2017/1870 B	Extant (Notified)	120001	UPL Limited	Private	18-Sep-2017	E2 PG27 17 1870	12 November 2020	23 April 2029	18-Sep-2017 to 12-Nov-2020
156.	REG/2017/1870 R	Extant (Notified)	PM03-48-23-32	UPL Limited	Private	18-Sep-2017	E2 PG27 17 1870	12 November 2020	23 April 2029	18-Sep-2017 to 12-Nov-2020
157.	REG/2010/224	Extant (VCK)	JKR 11568	JK Agri Genetics Ltd	Private	26-Jul-2010	E2 PG33 10 224	28 January 2021	27 January 2036	26-Jul-2010 to 28-Jan-2021
158.	REG/2010/225	Extant (VCK)	JKR 4259	JK Agri Genetics Ltd	Private	29-Jul-2010	E1 PG34 10 225	28 January 2021	27 January 2036	29-Jul-2010 to 28-Jan-2021
159.	REG/2010/227	Extant (VCK)	JKMS 405A	JK Agri Genetics Ltd	Private	29-Jul-2010	E3 PG36 10 227	28 January 2021	27 January 2036	29-Jul-2010 to 28-Jan-2021
160.	REG/2014/1171	New	M171G	Pioneer Overseas Corporation	Private	16-May-2014	N15 PG17 14 1171	28 January 2021	27 January 2036	16-May-2014 to 28-Jan-2021
161.	REG/2015/271	Extant (VCK)	MP12P16A	Metahelix Life Sciences Limited	Private	11-Feb-2015	E9 PG12 15 271	24 March 2021	23 March 2036	11-Feb-2015 to 24-Mar-2021
162.	REG/2010/68	New	KBMS 261	Kaveri Seed Company Limited	Private	8-Mar-2010	N9 PG9 10 68	06 April 2021	05 April 2036	08-Mar-2010 to 06-Apr-2021
163.	REG/2010/138	New	KBMS 353	Kaveri Seed Company Limited	Private	3-Jun-2010	N17 PG17 10 138	06 April 2021	05 April 2036	03-Jun-2010 to 06-Apr-2021
164.	REG/2015/301	New	PMGP100001A	Metahelix Life	Private	13-Feb-2015	N10 PG14	06 April	05 April	13-Feb-2015 to

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				Sciences Limited			15 301	2021	2036	06-Apr-2021
165.	REG/2016/771	New	BIO EM189Z	DCM Shriram Limited	Private	24-Jun-2016	N13 PG17 16 771	06 April 2021	05 April 2036	24-Jun-2016 to 06-Apr-2021
166.	REG/2014/2419	New	JKR 06128	JK Agri Genetics Ltd	Private	1-Dec-2014	N25 PG29 14 2419	20 April 2021	19 April 2036	01-Dec-2014 to 20-Apr-2021
167.	REG/2009/34	New	KBR 837	Kaveri Seed Company Limited	Private	5-Feb-2009	N14 PG5 9 34	16 June 2021	15 June 2036	05-Feb-2009 to 16-Jun-2021
168.	REG/2010/162	New	KBMS 229	Kaveri Seed Company Limited	Private	21-Jun-2010	N20 PG20 10 162	16 June 2021	15 June 2036	21-Jun-2010 to 16-Jun-2021
169.	REG/2010/168	New	KBR 672	Kaveri Seed Company Limited	Private	21-Jun-2010	N26 PG26 10 168	16 June 2021	15 June 2036	21-Jun-2010 to 16-Jun-2021
170.	REG/2010/170	New	KBR 882	Kaveri Seed Company Limited	Private	21-Jun-2010	N28 PG28 10 170	16 June 2021	15 June 2036	21-Jun-2010 to 16-Jun-2021
171.	REG/2010/172	New	KBR 880	Kaveri Seed Company Limited	Private	21-Jun-2010	N29 PG29 10 172	16 June 2021	15 June 2036	21-Jun-2010 to 16-Jun-2021
172.	Reg/2015/1166	New	M172R	Pioneer Overseas Corporation	Private	10-Jun-2015	N21 PG30 15 1166	16 June 2021	15 June 2036	10-Jun-2015 to 16-Jun-2021
173.	REG/2016/68	New	M297F	Pioneer Overseas Corporation	Private	16-Feb-2016	N5 PG6 16 68	16 June 2021	15 June 2036	16-Feb-2016 to 16-Jun-2021
174.	REG/2020/114 H	Extant (Notified)	CO 9	Tamil Nadu Agricultural University	Public	7-Jul-2020	E2 PG8 20 114	30 June 2021	25 July 2027	07-Jul-2020 to 30-Jun-2021
175.	REG/2020/114 A	Extant (Notified)	ICMA 93111A	Tamil Nadu Agricultural University	Public	7-Jul-2020	E2 PG8 20 114	30 June 2021	25 July 2027	07-Jul-2020 to 30-Jun-2021
176.	REG/2020/114 B	Extant (Notified)	ICMB 93111B	Tamil Nadu Agricultural University	Public	7-Jul-2020	E2 PG8 20 114	30 June 2021	25 July 2027	07-Jul-2020 to 30-Jun-2021
177.	REG/2020/114 R	Extant (Notified)	PT 6029-30	Tamil Nadu Agricultural University	Public	7-Jul-2020	E2 PG8 20 114	30 June 2021	25 July 2027	07-Jul-2020 to 30-Jun-2021
178.	REG/2016/5	New	PP56	Bayer Crop Science LP	Private	12-Jan-2016	N2 PG3 16 5	07 December 2021	06 December 2036	12-Jan-2016 to 07-Dec-2021
179.	REG/2016/6	New	PSP66	Bayer Crop Science LP	Private	12-Jan-2016	N3 PG4 16 6	07 December 2021	06 December 2036	12-Jan-2016 to 07-Dec-2021
180.	REG/2011/1354	New	NB-98R	Nuziveedu Seeds Limited	Private	Monday, December 19, 2011	N3 PG4 11 1354	Monday, March 18, 2019	17-March-2034	19-Dec-2011 to 18-Mar-2019

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181.	REG/2017/1643	Farmer	Sulkhaniya Bajra	Shri Hanumanaram Jhuriya,	Farmer	Monday, July 03, 2017	F8 PG17 17 1643	02-March-2022	01-March-2037	03-Jul-2017 to 02-Mar-2022
182.	REG/2020/153	Extant (VCK)	M164R	Pioneer Overseas Corporation	Private	Wednesday, July 22, 2020	E3 PG10 20 153	18-October-2022	17-October-2037	22-Jul-2020 to 18-Oct-2022
183.	REG/2020/388	Farmer	BABARKOT NO BAJRO	Laxmanbhai Bhavanbhai Makwana	Farmer	Thursday, December 24, 2020	F1 PG11 20 388	18-October-2022	17-October-2037	24-Dec-2020 to 18-Oct-2022
184.	REG/2021/0215 H	Extant (Notified)	Pusa 1201 (MH 1849)	Indian Agricultural Research Institute	Public	Thursday, December 30, 2021	E1 PG12 21 215	15-November-2022	26-March-2033	30-Dec-2021 to 15-Nov-2022
185.	REG/2021/0215 A	Extant (Notified)	MS 411A	Indian Agricultural Research Institute	Public	Thursday, December 30, 2021	-	15-November-2022	26-March-2033	30-Dec-2021 to 15-Nov-2022
186.	REG/2021/0215 B	Extant (Notified)	MS 411B	Indian Agricultural Research Institute	Public	Thursday, December 30, 2021	-	15-November-2022	26-March-2033	30-Dec-2021 to 15-Nov-2022
187.	REG/2021/0215 R	Extant (Notified)	ICMR 07333	Indian Agricultural Research Institute	Public	Thursday, December 30, 2021	-	15-November-2022	26-June-2033	30-Dec-2021 to 15-Nov-2022
188.	REG/2013/182	New	PP 64	M/s Crystal Crop Protection Limited	Private	01 April 2013	N3 PG3 13 182	21-February-2023	20-February-2038	01-Apr-2013 to 21-Feb-2023
189.	REG/2013/977	New	PSP70	M/s Crystal Crop Protection Limited	Private	26 November 2013	N15 PG16 13 977	21-February-2023	20-February-2038	26-Nov-2013 to 21-Feb-2023
190.	REG/2014/489	New	BIO-LM135Z	DCM Shriram Limited	Private	03 March 2014	N3 PG4 14 489	21-February-2023	20-February-2038	03-Mar-2014 to 21-Feb-2023
191.	REG/2014/492	New	EM104Z	DCM Shriram Limited	Private	03 March 2014	N6 PG7 14 492	21-February-2023	20-February-2038	03-Mar-2014 to 21-Feb-2023
192.	REG/2019/96	Extant (VCK)	PP83	M/s Crystal Crop Protection Limited	Private	06 June 2019	E8 PG9 19 96	21-February-2023	20-February-2038	06-Jun-2019 to 21-Feb-2023
193.	REG/2015/270	New	MP12P021R	Rallis India Limited	Private	11 February 2015	N7 PG11 15 270	15-March-2023	14-March-2038	11-Feb-2015 to 15-Mar-2023

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194.	REG/2017/2023	Farmer	AH-PM	Abdul Hadi Khan	Farmer	13 October 2017	F21 PG32 17 2023	09-June-2023	08-June-2038	13-Oct-2017 to 09-Jun-2023
195.	REG/2022/0035 H	Extant (Notified)	NBH 5929 (MH 2423)	Nuziveedu Seeds Ltd	Private	08 March 2022	E1 PG1 22 35	09-June-2023	23-December-2036	08-Mar-2022 to 09-Jun-2023
196.	REG/2022/0035 A	Extant (Notified)	NB 1121A	Nuziveedu Seeds Ltd	Private	08 March 2022	-	09-June-2023	23-December-2036	08-Mar-2022 to 09-Jun-2023
197.	REG/2022/0035 B	Extant (Notified)	NB 1121B	Nuziveedu Seeds Ltd	Private	08 March 2022	-	09-June-2023	23-December-2036	08-Mar-2022 to 09-Jun-2023
198.	REG/2022/0035 R	Extant (Notified)	NB 197R	Nuziveedu Seeds Ltd	Private	08 March 2022	-	09-June-2023	23-December-2036	08-Mar-2022 to 09-Jun-2023
199.	REG/2016/1015	Extant (VCK)	M162F	Pioneer Overseas Corporation	Private	01 August 2016	E6 PG32 16 1015	13-July-2023	12-July-2038	01-Aug-2016 to 13-Jul-2023
200.	REG/2016/1743	Extant (VCK)	M444R	Pioneer Overseas Corporation	Private	18 October 2016	E8 PG40 16 1743	13-July-2023	12-July-2038	18-Oct-2016 to 13-Jul-2023
201.	REG/2015/210	New	PM12P017R	Rallis India Limited	Private	30 January 2015	N5 PG6 15 210	25-October-2023	24-October-2038	30-Jan-2015 to 25-Oct-2023
202.	REG/2017/997	Farmer	Bichhua Bajra	Sirpat Khapre	Farmer	30 March 2017	F1 PG6 17 997	25-October-2023	24-October-2038	30-Mar-2017 to 25-Oct-2023
203.	REG/2017/2012	Farmer	YKB-PM	Yogesh Kumar	Farmer	13 October 2017	F19 PG30 17 2012	25-October-2023	24-October-2038	13-Oct-2017 to 25-Oct-2023
204.	REG/2017/2181	Farmer	DEVNATH BAJRA	Devnath	Farmer	16 October 2017	F27 PG38 17 2181	25-October-2023	24-October-2038	16-Oct-2017 to 25-Oct-2023
205.	REG/2014/482	Farmer	Rukmani	Khamkaran Rajpoot	Farmer	03 March 2014	F1 PG1 14 482	26-November-2023	25-November-2038	03-Mar-2014 to 26-Nov-2023
206.	REG/2015/237	Farmer	BAGDAL DESHI BAAJRA	Mohammed Idris Ahmed Quadri	Farmer	06 February 2015	F1 PG7 15 237	26-November-2023	25-November-2038	06-Feb-2015 to 26-Nov-2023

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207.	REG/2013/79	New	KBH 1952	Kaveri Seed Company Ltd	Private	01 March 2013	N1 PG1 13 79	22 April 2024	21 April 2039	01-Mar-2013 to 22-Apr-2024
208.	REG/2014/1293	New	NU 3214	NU Genes Pvt. Ltd.	Private	30 June 2014	N19 PG21 14 1293	22 April 2024	21 April 2039	30-Jun-2014 to 22-Apr-2024
209.	REG/2013/344	New	86M85	Pioneer Overseas Corporation	Private	01 July 2013	N7 PG7 13 344	07 May 2024	06 May 2039	01-Jul-2013 to 07-May-2024
210.	REG/2013/478	New	NBH-5782	Nuziveedu Seeds Ltd	Private	29 August 2013	N10 PG10 13 478	21 May 2024	20 May 2039	29-Aug-2013 to 21-May-2024
211.	REG/2013/181	New	BPM909	M/s Crystal Crop Protection Limited	Private	01 April 2013	N2 PG2 13 181	22 May 2024	21 May 2039	01-Apr-2013 to 22-May-2024
212.	REG/2013/975	New	9444 Gold	M/s Crystal Crop Protection Limited	Private	26 November 2013	N13 PG14 13 975	12 June 2024	11 June 2039	26-Nov-2013 to 12-Jun-2024
213.	REG/2013/976	New	PP71	M/s Crystal Crop Protection Limited	Private	26 November 2013	N14 PG15 13 976	12 June 2024	11 June 2039	26-Nov-2013 to 12-Jun-2024
214.	REG/2016/774	New	BIO LM460Z	DCM Shriram Limited	Private	24 June 2016	N16 PG20 16 774	12 June 2024	11 June 2039	24-Jun-2016 to 12-Jun-2024
215.	REG/2013/477	New	NBH-5807	Nuziveedu Seeds Ltd	Private	29 August 2013	N9 PG9 13 477	13 June 2024	12 June 2039	29-Aug-2013 to 13-Jun-2024
216.	REG/2017/62	New	MP15P035R	Rallis India Limited	Private	08 February 2017	N1 PG1 17 62	18 July 2024	17 July 2039	08-Feb-2017 to 18-Jul-2024
217.	REG/2017/1468	New	PSP73	M/s Crystal Crop Protection Limited	Private	11 May 2017	N9 PG10 17 1468	18 July 2024	17 July 2039	11-May-2017 to 18-Jul-2024
218.	REG/2017/63	New	MP14P028A	Rallis India Limited	Private	08 February 2017	N2 PG2 17 63	19 July 2024	18 July 2039	08-Feb-2017 to 19-Jul-2024
219.	REG/2010/215	New	DGB-016	M/s Crystal Crop Protection Limited	Private	22 July 2010	N32 PG32 10 215	26 July 2024	25 July 2039	22-Jul-2010 to 26-Jul-2024
220.	REG/2014/1201	New	MP 7794	Rallis India Limited	Private	21 May 2014	N17 PG19 14 1201	25 September	24 September	21-May-2014 to 25-Sep-2024

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								2024	2039	
221.	REG/2016/1893	New	PA9001	Crystal Crop Protection Limited	Private	22 December 2016	N26 PG42 16 1893	25 September 2024	24 September 2039	22-Dec-2016 to 25-Sep-2024
222.	REG/2015/272	Extant (VCK)	PM12P018R	Rallis India Limited	Private	11 February 2015	E8 PG13 15 272	27 November 2024	26 November 2039	11-Feb-2015 to 27-Nov-2024
223.	REG/2017/1467	New	PP74	M/s Crystal Crop Protection Limited	Private	11 May 2017	N8 PG9 17 1467	27 November 2024	26 November 2039	11-May-2017 to 27-Nov-2024
224.	REG/2018/39	New	PP107	M/s Crystal Crop Protection Limited	Private	30 January 2018	N3 PG3 18 39	09 December 2024	08 December 2039	30-Jan-2018 to 09-Dec-2024
225.	REG/2018/40	New	PSP92	M/s Crystal Crop Protection Limited	Private	30 January 2018	N4 PG4 18 40	09 December 2024	08 December 2039	30-Jan-2018 to 09-Dec-2024
226.	REG/2014/844	New	MP 7793	Rallis India Limited	Private	02 April 2014	N9 PG11 14 844	06 January 2025	05 January 2040	02-Apr-2014 to 06-Jan-2025
227.	REG/2016/772	New	BIO MM368Z	DCM Shriram Limited	Private	24 June 2016	N14 PG18 16 772	06 January 2025	05 January 2040	24-Jun-2016 to 06-Jan-2025
228.	REG/2009/74	Extant (VCK)	NBH-1024	Nuziveedu Seeds Ltd	Private	17 March 2009	E5 PG9 9 74	06 March 2025	05 March 2040	17 Mar 2009 to 06 Mar 2025
229.	REG/2012/690	New	PA9450	M/s Crystal Crop Protection Limited	Private	28 December 2012	N10 PG13 12 690	03 April 2025	02 April 2040	28-Dec-2012 to 03-Apr-2025
230.	REG/2014/491	New	BIO 450	DCM Shriram Limited	Private	03 March 2014	N5 PG6 14 491	03 April 2025	02 April 2040	03-Mar-2014 to 03-Apr-2025
231.	REG/2016/69	New	86M38	Pioneer Overseas Corporation	Private	16 February 2016	N6 PG7 16 69	03 April 2025	02 April 2040	16-Feb-2016 to 03-Apr-2025
232.	REG/2016/944	Extant (Notified)	NBH 5767	Nuziveedu Seeds Ltd	Private	20 July 2016	E4 PG30 16 944	03 April 2025	27 January 2030	20-Jul-2016 to 03-Apr-2025

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233.	REG/2020/87 H	New	KPH6266	Kaveri Seed Company Ltd	Private	29 June 2020	N4 PG4 20 87	03 April 2025	02 April 2040	29-Jun-2020 to 03-Apr-2025
234.	REG/2020/88 H	New	KPH6155	Kaveri Seed Company Ltd	Private	29 June 2020	N5 PG5 20 88	03 April 2025	02 April 2040	29-Jun-2020 to 03-Apr-2025
235.	REG/2020/89 H	New	KPH6277	Kaveri Seed Company Ltd	Private	29 June 2020	N6 PG6 20 89	03 April 2025	02 April 2040	29-Jun-2020 to 03-Apr-2025
236.	REG/2021/0126 H	New	PA9385	Bayer CropScience LP	Private	07 June 2021	N9 PG9 21 126	03 April 2025	02 April 2040	07-Jun-2021 to 03-Apr-2025
237.	REG/2017/108	Extant (Notified)	KBH 3940 (MH1984)	Kaveri Seed Company Ltd	Private	27 February 2017	E3 PG5 17 108	06 May 2025	21 November 2031	27-Feb-2017 to 06-May-2025
238.	REG/2018/530	New	86M90	Pioneer Overseas Corporation	Private	21 May 2018	N6 PG8 18 530	07 May 2025	06 May 2040	21-May-2018 to 07-May-2025
239.	REG/2014/1099	New	86M14	Pioneer Overseas Corporation	Private	09 May 2014	N10 PG12 14 1099	10 June 2025	09 June 2040	09-May-2014 to 10-Jun-2025
240.	REG/2016/1	Extant (VCK)	86M74	Pioneer Overseas Corporation	Private	01 January 2016	E1 PG1 16 1	10 June 2025	09 June 2040	01-Jan-2016 to 10-Jun-2025
241.	REG/2017/64	New	MP7366	Rallis India Limited	Private	08 February 2017	N3 PG3 17 64	10 June 2025	09 June 2040	08-Feb-2017 to 10-Jun-2025
242.	REG/2016/775	New	BIO 451	DCM Shriram Limited	Private	24 June 2016	N17 PG21 16 775	11 June 2025	10 June 2040	24-Jun-2016 to 11-Jun-2025
243.	REG/2018/98	Extant (Notified)	Phule Aadishakti (DHBH 9071)	Mahatma Phule Krishi Vidyapeeth	Public	07 March 2018	E1 PG6 18 98	11 June 2025	21 November 2031	07-Mar-2018 to 11-Jun-2025
244.	REG/2019/89 H	Extant (VCK)	LG 70301	LIMAGRAIN INDIA PVT LTD	Private	03 June 2019	E7 PG7 19 89	07 July 2025	06 July 2040	03-Jun-2019 to 07-Jul-2025
245.	REG/2021/0087	New	WW109X	DCM Shriram Limited	Private	23 March 2021	N3 PG3 21 87	07 July 2025	06 July 2040	23-Mar-2021 to 07-Jul-2025
246.	REG/2021/0085	New	LR676Z	DCM Shriram Limited	Private	23 March 2021	N1 PG1 21 85	07 July 2025	06 July 2040	23-Mar-2021 to 07-Jul-2025

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247.	REG/2021/0086	New	LR585Z	DCM Shriram Limited	Private	23 March 2021	N2 PG2 21 86	07 July 2025	06 July 2040	23-Mar-2021 to 07-Jul-2025
248.	REG/2021/0088	New	WW109Y	DCM Shriram Limited	Private	23 March 2021	N4 PG4 21 88	07 July 2025	06 July 2040	23-Mar-2021 to 07-Jul-2025
249.	REG/2021/0108	New	TMFH 1255	TriMurti Plant Sciences Private Limited	Private	13 April 2021	N5 PG5 21 108	07 July 2025	06 July 2040	13-Apr-2021 to 07-Jul-2025
250.	REG/2021/0157	New	BIO8282	DCM Shriram Limited	Private	09 August 2021	N10 PG10 21 157	07 July 2025	06 July 2040	09-Aug-2021 to 07-Jul-2025
251.	REG/2015/269	New	MP12P015A	Rallis India Limited	Private	11 February 2015	N6 PG10 15 269	05 August 2025	04 August 2040	11-Feb-2015 to 05-Aug-2025
252.	REG/2007/21	Extant (VCK)	B 2133	Mahyco Private Limited	Private	21 May 2007	E67 PG7 7 21	06 August 2025	05 August 2040	21-May-2007 to 06-Aug-2025
253.	REG/2017/1391	New	86M20	Pioneer Overseas Corporation	Private	07 April 2017	N7 PG8 17 1391	06 August 2025	05 August 2040	07-Apr-2017 to 06-Aug-2025
254.	REG/2019/90	New	LG 70304	LIMAGRAIN INDIA PVT LTD	Private	03 June 2019	N1 PG8 19 90	06 August 2025	05 August 2040	03-Jun-2019 to 06-Aug-2025
255.	REG/2014/842	New	MP 7883	Rallis India Limited	Private	02 April 2014	N7 PG9 14 842	03 October 2025	02 October 2040	02-Apr-2014 to 03-Oct-2025
256.	REG/2014/843	New	MP 7879	Rallis India Limited	Private	02 April 2014	N8 PG10 14 843	03 October 2025	02 October 2040	02-Apr-2014 to 03-Oct-2025
257.	REG/2014/1200	New	MP 7833	Rallis India Limited	Private	21 May 2014	N16 PG18 14 1200	03 October 2025	02 October 2040	21-May-2014 to 03-Oct-2025
258.	REG/2015/2016	Extant (VCK)	MP 7899	Rallis India Limited	Private	26 November 2015	E5 PG36 15 2016	03 October 2025	02 October 2040	26-Nov-2015 to 03-Oct-2025
259.	REG/2015/2017	Extant (VCK)	MP 7888	Rallis India Limited	Private	26 November 2015	E6 PG37 15 2017	03 October 2025	02 October 2040	26-Nov-2015 to 03-Oct-2025

S. No.	Registration No.	Category of Variety	Denomination of the Candidate Variety	Name of Applicant	Applicant Category	Date of Filling	Application No.	Date of Certificate Issue	Maximum Protection Period up to	Provisional Protection Claim
260.	REG/2015/2220	New	SYN-PM-POSHAN	M/s Crystal Crop Protection Limited	Private	31 December 2015	N24 PG38 15 2220	10 November 2025	09 November 2040	31-Dec-2015 to 10-Nov-2025
261.	REG/2015/2221	New	SYN-PM-MILKON	M/s Crystal Crop Protection Limited	Private	31 December 2015	N25 PG39 15 2221	10 November 2025	09 November 2040	31-Dec-2015 to 10-Nov-2025
262.	REG/2015/2222	New	SYN-PM-DGBI-1453-20	M/s Crystal Crop Protection Limited	Private	31 December 2015	N26 PG40 15 2222	10 November 2025	09 November 2040	31-Dec-2015 to 10-Nov-2025
263.	REG/2015/2223	New	SYN-PM-DGBI-1450-10	M/s Crystal Crop Protection Limited	Private	31 December 2015	N27 PG41 15 2223	10 November 2025	09 November 2040	31-Dec-2015 to 10-Nov-2025
264.	REG/2015/2224	New	SYN-PM-DBB 239	M/s Crystal Crop Protection Limited	Private	31 December 2015	N28 PG42 15 2224	10 November 2025	09 November 2040	31-Dec-2015 to 10-Nov-2025
265.	REG/2019/176	New	PA9180	M/s Crystal Crop Protection Limited	Private	18 December 2019	N2 PG11 19 176	10 November 2025	09 November 2040	18-Dec-2019 to 10-Nov-2025
266.	REG/2023/0027 H	New	TMBH 2652	TriMurti Plant Sciences Private Limited	Private	03 March 2023	N1 PG1 23 27	10 November 2025	09 November 2040	03-Mar-2023 to 10-Nov-2025
267.	REG/2023/0033	Farmer	SUBE BAJRA	Mr. Sube Singh	Farmer	10 March 2023	F1 PG2 23 33	10 November 2025	09 November 2040	10-Mar-2023 to 10-Nov-2025
268.	REG/2023/0110	Farmer	Sulkhaniya Bajri	Sh. Hanumanaram	Farmer	28 August 2023	F2 PG5 23 110	10 November 2025	09 November 2040	28-Aug-2023 to 10-Nov-2025
269.	REG/2024/0120	Farmer	Chanana Bajri	Sh. Satyaveer Singh	Farmer	14 May 2024	F1 PG1 24 120	10 November 2025	09 November 2040	14-May-2024 to 10-Nov-2025
270.	REG/2024/0122	Farmer	Sundaram Verma Local	Sh. Sundaram Verma	Farmer	15 May 2024	F2 PG2 24 122	10 November 2025	09 November 2040	15-May-2024 to 10-Nov-2025
271.	REG/2013/364	New	DGB-019	M/s Crystal Crop Protection Limited	Private	15 July 2013	N8 PG8 13 364	14 November 2025	13 November 2040	15-Jul-2013 to 14-Nov-2025
272.	REG/2014/486	New	BIO 446	DCM Shriram Limited	Private	03 March 2014	N1 PG2 14 486	14 November 2025	13 November 2040	03-Mar-2014 to 14-Nov-2025

S. No.	Registration No.	Category of Variety	Denomination of the Candidate Variety	Name of Applicant	Applicant Category	Date of Filling	Application No.	Date of Certificate Issue	Maximum Protection Period up to	Provisional Protection Claim
273.	REG/2016/773	New	BIO 366	DCM Shriram Limited	Private	24 June 2016	N15 PG19 16 773	14 November 2025	13 November 2040	24-Jun-2016 to 14-Nov-2025
274.	REG/2016/1203	New	JKBH 1476	JK Agri Genetics Ltd	Private	19 August 2016	N20 PG33 16 1203	14 November 2025	13 November 2040	19-Aug-2016 to 14-Nov-2025
275.	REG/2016/1204	New	JKBH 1486	JK Agri Genetics Ltd	Private	19 August 2016	N21 PG34 16 1204	14 November 2025	13 November 2040	19-Aug-2016 to 14-Nov-2025
276.	REG/2024/0123	Farmer	PILI BAJRI	Sh. Multan Singh	Farmer	15 May 2024	F3 PG3 24 123	14 November 2025	13 November 2040	15-May-2024 to 14-Nov-2025
277.	REG/2024/0155	Farmer	DR-2	Sh. Devaram	Farmer	20 May 2024	F4 PG4 24 155	14 November 2025	13 November 2040	20-May-2024 to 14-Nov-2025
278.	REG/2024/0156	Farmer	MOOCHWALI BAJRI	Kailash Singh Rajput	Farmer	20 May 2024	F5 PG5 24 156	14 November 2025	13 November 2040	20-May-2024 to 14-Nov-2025
279.	REG/2024/0157	Farmer	DR-1	Sh. Devaram	Farmer	20 May 2024	F6 PG6 24 157	14 November 2025	13 November 2040	20-May-2024 to 14-Nov-2025
280.	REG/2024/0232	Extant (VCK)	KPH6499	Kaveri Seed Company Ltd	Private	28 May 2024	E1 PG7 24 232	14 November 2025	13 November 2040	28-May-2024 to 14-Nov-2025
281.	REG/2024/0233	Extant (VCK)	KP19SB021	Kaveri Seed Company Ltd	Private	28 May 2024	E2 PG8 24 233	14 November 2025	13 November 2040	28-May-2024 to 14-Nov-2025
282.	REG/2024/0234	Extant (VCK)	KP19SR022	Kaveri Seed Company Ltd	Private	28 May 2024	E3 PG9 24 234	14 November 2025	13 November 2040	28-May-2024 to 14-Nov-2025
283.	REG/2014/1698	New	Nirmal-4506 (NPH-4506)	Nirmal Seeds Pvt Ltd	Private	19 August 2014	N21 PG25 14 1698	03 December 2025	02 December 2040	19-Aug-2014 to 03-Dec-2025
284.	REG/2014/1699	New	Nirmal-4915 (NPH-4915)	Nirmal Seeds Pvt Ltd	Private	19 August 2014	N22 PG26 14 1699	03 December 2025	02 December 2040	19-Aug-2014 to 03-Dec-2025
285.	REG/2025/0236	Extant (Notified)	AHB-1200 Fe	Vasantrao Niak Marathwada Krishi Vidyapeeth	Public	Tuesday, March 18, 2025	E3 PG6 25 236	04 December 2025	26 March 2033	18-Mar-2025 to 04-Dec-2025

S. No.	Registration No.	Category of Variety	Denomination of the Candidate Variety	Name of Applicant	Applicant Category	Date of Filling	Application No.	Date of Certificate Issue	Maximum Protection Period up to	Provisional Protection Claim
286.	REG/2025/0134	Extant (Notified)	Palem Sajja-1625 (PBH-1625)	Professor Jayashankar Telangana Agricultural University	Public	Monday, February 03, 2025	E2 PG5 25 134	04 December 2025	25 March 2039	03-Feb-2025 to 04-Dec-2025
287.	REG/2025/0237	Extant (Notified)	AHB 1269 Fe	Vasantrao Niak Marathwada Krishi Vidyapeeth	Public	Tuesday, March 18, 2025	E4 PG7 25 237	04 December 2025	31 March 2034	18-Mar-2025 to 04-Dec-2025
288.	REG/2022/0159 H	New	NUTRIFAST-ADV 961 (ADV0061)	Advanta Enterprises Limited	Private	Tuesday, October 18, 2022	N1 PG2 22 159	07 January 2026	06 January 2041	18-Oct-2022 to 07-Jan-2026

Source: https://plantauthority.gov.in

ICAR-ICRISAT PARTNERSHIP TRIALS

ICAR-ICRISAT Partnership Project Trials *Kharif* 2025 - 26

Project title: Pearl millet hybrids for harshest drought prone environments and for new emerging markets.

Table 1: The summary table of breeding trials and nurseries is given below

S. No.	Nursery/Trial	Trial size	HYD	APR	MLR	DHL	JMR	MDR	JDR	BKR	JPR	HSR	NDL	GLR	GDN	LDN	Total
		Ent x reps x rows															
	Seed Parent Progeny Trial																
1	Potential B-line Nursery (PBLN)	60x2x1	*F			*F	*				*	*					**5**
	Restorer Parent Progeny Trial																
2	Potential R-Line Nursery (PRLN)	60x2x1	*F			*F	*	*F			*	*	*				**7**
	Other Trials																
3	Drought Tolerant Restorer Parent Nursery (DTRPN)	60x2x1						*F	*F	*F	*	*F					**5**
4	Blast Resistant B and R Line Nursery (BRB&RLN)	50x2x1		*		*F					*		*	*F			**5**
5	Good Coimbiner Seed and Restorer Parent Nursery (GCSRPN)	40x2x1	*F			*F	*	*F			*	*F	*				**7**
6	Elite Joint Biofortification Nursery (EJBFN)	50x3x1			*NC	*F	*	*F			*		*			*	**7**
	Marker Assisted Breeding Trial and Nurseries																
7	Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)	390x1x1													*		**1**
	Total Trials		**3**	**1**	**1**	**5**	**4**	**4**	**1**	**1**	**6**	**4**	**4**	**1**	**1**	**1**	**37**

Abbreviations * = Trial successfully conducted, *F = Trial conducted but failed, *NC = Trial not conducted.

HYD=Hyderabad, APR= Ananthapuram, MLR= Malnoor, DHL=Dhule, JMR=Jamnagar, MDR=Mandor, JDR=Jodhpur, BKR=Bikaner, JPR=Jaipur, HSR=Hisar, NDL=New Delhi, GLR=Gwalior, GDN=Gudhamalani and LDN=Ludhiana.

AS = Agronomic score (1-Poor, 2-Average, 3-Good, 4-Very good, 5-Excellent), BS = Blast score 0 - 9 (0 = Blast free, 9 = more than 90% blast), DF= Days to 50% flowering, DM = Downy mildew per cent, E. or Ent.= Entry, ETPP = Effective tillers/plant, PH = Plant height (cm), HD = Head diameter (cm), HL= Head length (cm), NG = Not Germinated, PH = Plant height (cm), SG = Stay Green 1 - 3 (1= Low or non stay green, 2 = Medium stay green, 3 = High stay green) Fe = XRF Fe (ppm), Zn = XRF Zn (ppm).

ICAR-ICRISAT COLLABORATIVE NURSERIES

A total of 7 trials comprising of potential B- line nursery, potential R- line nursery, drought tolerant restorer parent nursery, blast resistant B and R line nursery, good combiner seed and restorer parent nursery, elite joint biofortification nursery and Drought tolerant screening restorer nursery (Shuttle Breeding) conducted as per details given in table 1. Trial-wise results are given below**:-**

SEED PARENT PROGENY NURSERY

1. Potential B-line nursery (PBLN):- In potential B-line nursery, a total of 60 entries along with 2 checks were evaluated across 5 locations-Hyderabad (failed), Dhule (failed), Jamnagar, Jaipur and Hisar (Table 9). In potential B-line nursery flowering time ranged from 52 to 75 days. The range of plant height is 77 to 162 cm, head length 14 to 23 cm, head diameter 2.2 to 3.5 cm, effective tillers per plant 1.7 to 3.9, stay green scores 1.8 to 3.0, blast scores 1.3 to 5.5 and agronomic scores 1.9 to 3.6.

In potential B-line nursery the entry no. 27, 25, 14, 38, 17, 11, 37, 57, 12, 16, 10, 36 and 31 were early to the best check ICMB 21999 (58 days). Only entry no. 27 and 10 were superior in head length to the best check ICMB 11222 (22 cm). In head diameter entry no. 44, 19, 24, 12, 20, 13 and 14 were superior to the best check ICMB 11222 (3.2 cm). The entry no. 3, 10, 4, 28, 2, 1, 21 and 20 were high tillering to the best check ICMB 21999 (2.6). The entry no. 4, 5, 39, 44, 3, 7, 21, 23, 31 and 43 were higher in stay green scores to stay green best check ICMB 11222 (2.7). The entry no. 39, 4, 3, 15, 40, 44, 2, 21, 31, 32, 33, 41, 14, 20, 23, 24 18, 27 and 45 were superior in blast tolerance to the best check ICMB 11222 (2.5). The entry no. 13, 28, 1, 24, 46, 25, 32, 53, 7, 10, 33 and 54 were superior in agronomic scores to the best check ICMB 21999 (3.1).

RESTORER PARENT PROGENY NURSERY

2. Potential R-line nursery (PRLN):- In potential R-line nursery, a total of 60 entries along with 3 checks were evaluated across 7 locations- Hyderabad (failed), Dhule (failed), Jamnagar, Mandor (failed), Jaipur, Hisar and New Delhi (Table 10). In Potential R-line nursery, the flowering time ranged from 53 to 75 days, plant height 128 to 225 cm, head length 17 to 33 cm, head diameter 2.1 to 3.5 cm, effective tillers per plant 1.9 to 3.5, stay green scores 1.7 to 3.0, blast scores 1.3 to 6.0 and agronomic scores 2.1 to 4.2.

In potential R-line nursery entry no. 42, 44, 56, 6, 10, 17, 33, 39, 47, 55 and 4 were early to best check ICMR 1202 (61 days). The entry no. 49, 53, 37, 52, 19, 55, 29, 12, 4 and 54 were superior in head length to the best check ICMR 1202 (26 cm). In head diameter entry no. 35, 3, 16, 10, 12, 4 and 30 were superior to the best check ICMR 1202 (3.2 cm). Only entry no. 29 was high tillering to the best check ICMR 14888 (3.2). The entry no. 2, 16, 23, 28, 29, 38, 53 and 54 were higher in stay green scores to stay green best check ICMR 23666 (2.9). The entry no. 16, 28, 55, 25, 39, 54, 52, 12, 17, 24, 15, 23, 6, 37, 47, 53, 7, 40, 45, 57, 22, 10, 13 and 35 were superior in blast tolerance to the best check ICMR 1202

(2.5). The entry no. 16 and 36 were superior in agronomic scores to the best check ICMR 14888 (3.9).

OTHER TRIALS

3. Drought tolerant restorer parent nursery (DTRPN):- In drought tolerant restorer parent nursery, a total of 60 entries along with 2 B line and 2 R line checks were evaluated across 5 locations-Mandor (failed), Jodhpur (failed), Bikaner (failed), Jaipur and Hisar (failed) (Table 11). In drought tolerant nursery flowering time ranged from 44 to 57 days. The range of plant height 81 to 169 cm, head length 13 to 22 cm, head diameter 1.5 to 3.1 cm, effective tillers per plant 1.0 to 5.5, stay green scores 1.5 to 3.0 and agronomic scores 1.0 to 4.0.

In drought tolerant restorer parent nursery B line only entry no. 4 was early to the best check 843-22B (45 days). Only entry no. 16 was superior in head length to the best check ICMB 13666 (20 cm). In head diameter entry no. 4, 10, 3, 5, 8, 1, 9, 17, 11, 6, 14, 12, 18, 7 and 16 were superior to the best check ICMB 13666 (2.2 cm). The entry no. 1, 14, 17, 18, 2, 4, 7, 8 and 9 were high tillering to the best check 843-22B (2.3). The all entry of B lines were equal in stay green scores to stay green best check 843-22B (3.0). The entry no. 9, 1, 12, 18, 2, 3, 5, 8, 11, 13 and 17 were superior in agronomic scores to the best check ICMB 13666 (2.5).

In drought tolerant restorer parent nursery R line entry no. 39, 37, 31 and 47 were early to the best check H77/833-2 (46 days). The entry no. 28, 47, 24, 50, 22, 31, 44, 45, 26, 52 and 49 were superior in head length to the best check PRLT 2/89-33 (18 cm). In head diameter only entry no. 28 was equal to the best check PRLT 2/89-33 (2.8 cm). The entry no. 57, 28 and 34 were high tillering to the best check H77/833-2 (3.3). All entry no. 21, 23, 24, 27, 28, 29, 31, 32, 34, 37, 41, 42, 43, 44, 45, 50, 51, 54 and 55 of B lines were equal in stay green scores to stay green best check PRLT 2/89-33 (3.0). The entry no. 33, 22, 28, 34, 39, 41, 51, 57, 21, 23, 24, 26, 27, 29, 30, 36, 38, 43, 45, 50, 52, 55 and 58 were superior in agronomic scores to the best check PRLT 2/89-33 (2.5).

4. Blast resistant B and R line nursery (BRB&RLN):- In this nursery, a total of 50 entries along with 2 B line and 2 R line checks were evaluated across 5 locations-Ananthapuram, Dhule (failed), Jaipur, New Delhi and Gwalior (failed) (Table 12). The days to 50% flowering of progenies ranged from 47 to 71 days. Progenies showed variation for plant height 75 to 198 cm, head length 16 to 28 cm, head diameter 1.9 to 3.2 cm, effective tillers per plant 1.5 to 3.5, stay green scores 1.3 to 3.0, blast scores 2.0 to 5.7 and agronomic scores 2.0 to 3.8.

Amongst blast resistant B lines none of the entry was early to the best check ICMB 95444 (47 days). The entry no. 1, 12, 8, 13, 5, 6, 2, 20, 15, 3, 17, 4, 23, 7, 19, 14, 11 and 10 were superior in head length to the best check ICMB 21999 (18 cm). In head diameter the entry no. 14, 5, 9, 16, 8, 2, 11 and 22 were superior to the best check ICMB 21999 (2.7 cm). Only entry no. 18 was high tillering to the best check ICMB 95444 (2.5). The entry no. 7, 12, 2, 4, 5 and 6 were higher in stay green scores to stay green best checks ICMB 21999

(2.2). Amongst blast resistant B lines the entry no. 4, 7, 9, 5, 16 and 2 were superior in blast tolerance to the best check ICMB 21999 (3.5). In B lines the entry no. 5, 2, 9, 4, 10, 12, 14, 15, 16, 20, 22, 6, 8, 13, 17, 19 and 23 were superior in agronomic scores to the best check ICMB 95444 (2.7).

Amongst blast resistant R lines the entry no. 46, 26, 28, 31, 33, 29 and 44 were early to the best check ICMR 06666 (58 days). Only entry no. 39 and 29 were superior in head length to the best check ICMR 21666 (23 cm). In head diameter entry no. 34, 39, 32, 35, 36, 42 and 33 were superior to the best check ICMR 21666 (2.8 cm). The entry no 38, 43, 42, 36 and 37 were high tillering to the best check ICMR 06666 (3.1). Only entry no. 30 and 39 were higher in stay green scores to stay green best check ICMR 06666 (2.7). Amongst blast resistant R lines only entry no. 4 was equal in blast tolerance to the best check ICMR 06666 (2.0). The R-lines entry no. 27, 30, 48 and 29 were superior in agronomic scores to the best check ICMR 06666 (3.3).

5. Good combiner seed and restorer parent nursery (GCSRPN):- In good combiner seed and restorer parent nursery, a total of 40 entries along with 2 B line and 2 R line checks were evaluated across 7 locations-Hyderabad (failed), Dhule (failed), Jamnagar, Mandor (failed), Jaipur, Hisar (failed) and New Delhi (Table 13). In good combiner seed and restorer parent nursery flowering time ranged from 46 to 72 days. The range of plant height 107 to 201 cm, head length 18 to 26 cm, head diameter 2.0 to 3.5 cm, effective tillers per plant 1.7 to 3.1, stay green scores 1.0 to 3.0, blast scores 2.2 to 6.2 and agronomic scores 2.3 to 4.2.

In good combiner seed parent nursery entry no. 18, 17, 5, 4, 10, 11, 16, 13, 15, 2, 3, 9, 12, 8, 14 and 6 were early to the best check ICMB 11222 (67 days). None of the entry was superior in head length to the best check ICMB 11222 (25 cm). In head diameter none of the entry was superior to the best check ICMB 11222 (3.4 cm). The entry no. 7, 8 and 18 were high tillering to the best check ICMB 11222 (2.9). Only entry no. 8 was equal in stay green scores to stay green best checks ICMB 02777 (3.0). Amongst blast resistant B lines entry no.14 and 8 were superior in blast tolerance to the best check ICMB 02777 (2.5). The entry no. 8, 15 and 16 were superior in agronomic scores to the best check ICMB 11222 (3.7).

In good combiner restorer parent nursery entry no. 24, 33, 23, 26, 21, 30, 35, 28 and 29 were early to the best check ICMR 15222 (58 days). The entry no. 33, 29, 30, 32, 35, 26, 27, 38, 23, 21, 22, 34 and 31 were superior in head length to the best check ICMR 1203 (20 cm). In head diameter the entry no. 35 and 22 were superior to the best check ICMR 1203 (2.9 cm). None of the entry was high tillering to the best check ICMR 15222 (2.8). The entry no. 27, 30, 24, 25, 31 and 35 were superior in stay green scores to stay green best checks ICMR 1203 (2.5). Amongst blast resistant R lines entry no. 27, 30, 24 and 33 were superior in blast tolerance to the best check ICMR 1203 (3.0). The entry no. 31, 27, 30, 37, 32, 21, 25, 36 and 38 were superior in agronomic scores to the best check ICMR 15222 (3.2).

6. Elite joint biofortification nursery (EJBFN):- In this nursery, a total of 50 entries along with 2 B line and 2 R line checks were evaluated across 7 locations-Malnoor (failed), Dhule (failed), Jamnagar, Mandor (failed), Jaipur, New Delhi and Ludhiana (Table 14). The range of progenies for days to 50% flowering 55 to 76 days, plant height 96 to 197 cm, head length 15 to 27 cm, head diameter 2.1 to 3.2 cm, effective tillers per plant 1.5 to 3.1, stay green scores 1.2 to 3.0, blast scores 2.2 to 6.3, agronomic scores 1.8 to 3.8.

Amongst biofortification B lines the entry no. 12, 21, 14 and 15 were early to the best check ICMB 98222 (57 days). The entry no. 10, 6, 7, 21, 18, 19, 17, 11, 3, 13, 23, 20, 5, 22, 9, 8, 1, 2, 16, 12 and 14 were superior in head length to the best check ICMB 98222 (16 cm). In head diameter entry no. 2, 22, 15, 23 and 9 were superior to the best check ICMB 98222 (2.7 cm). The entry no. 12, 4, 7, 1, 2, 5, 14 and 18 were high tillering to the best check ICMB 98222 (2.1). The entry no. 6, 7, 13, 2, 8, 21, 22, 9, 11, 20, 4, 16, 23, 1, 3, 19, 5, 12, 14, 17, 10 and 15 were higher in stay green scores to stay green best check ICMB 98222 (1.2). The entry no. 6, 7, 13, 9, 2, 21, 22, 8, 3, 23, 5, 12, 11, 4, 16, 17, 20, 1, 18, 10, 19 and 14 were superior in blast tolerance to the best check ICMB 98222 (6.2). The entry no. 23, 20, 22, 6, 8, 19, 4, 9, 2, 3, 7, 13, 5, 1, 11 and 12 were superior in agronomic scores to the best check ICMB 98222 (2.5).

Amongst biofortification R lines entry no. 38, 43 and 29 were early to the best check ICMR 1202 (59 days). None of the entry was superior in head length to the best check ICMR 1202 (27 cm). In head diameter entry no. 36, 38, 48, 30, 41 and 47 were superior to the best check ICMR 1202 (2.9 cm). The entry no. 38, 35, 32, 37, 45 and 46 were high tillering to the best check ICMR 1503 (2.4). The entry no. 40, 46, 36, 37, 39, 31, 34, 48, 26, 30, 47, 41, 33, 42, 38, 45, 27 and 44 were higher in stay green scores to stay green best check ICMR 1503 (1.9). The entry no. 33 and 36 were superior in blast tolerance to the best check ICMR 1503 (3.0). The entry no. 39, 36, 44, 41, 32, 48, 26, 27, 30, 37, 45, 46, 47, 34, 31, 33, 28, 29, 38, 40 and 43 were superior in agronomic scores to the best check ICMR 1202 (2.3).

OTHER ASSISTED BREEDING TRIAL AND NURSERIES

7. Drought tolerant screening restorer nursery (Shuttle Breeding):- Drought tolerant screening restorer nursery (Shuttle Breeding, a total of 390 entries along with 2 B line and 3 R line checks (Every checks were repeated four times in this nursery) were evaluated at 1 location Gudamalani (Table 15).

In drought tolerant screening restorer nursery flowering time ranged from 45 to 59 days. The effective tillers per plant 1.0 to 6.0 and maturing time ranged from 83 to 99 days.

In drought tolerant screening restorer nursery entry no. 30, 31, 133, 182, 255, 44, 45, 51, 54, 59, 134, 169, 211, 213, 32, 53, 184, 256, 47, 55, 135, 167, 214 and 257 were early to the best check H77/833-2 (49 days). None of the entry was high tillering to the best check ICMB 04999 (6.0). The entry no. 13, 31, 34, 44, 45, 56, 167, 212, 9, 10, 15, 32, 2, 3, 7, 16, 18, 46, 53, 69, 70, 136, 169, 184 and 248 were early maturing from the best check H77/833-2 (87 days).

Table 2: Pedigree of entries in potential B-line nursery (PBLN) *kharif* - 2025

E. no.	Pedigree
1	[{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6 x ICTP 8203 S1-250-3-2-1]-5-11-10-B-B-B
2	[{ICMB 14222}] X [{(AIMP 92901-S1-183-2-2-B-P08 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-16-1}]-B-22-3-5-B
3	[[(SRC II C3 S1-1-1-2 x HHVBC)-2-2-1-1-1-B-B x (81B x 4017-5-4-B)-12-3-1-3]-2-3-1-2-3X[(((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-14-4-9-B-5 X (MC 94 S1-34-1-B x HHVBC)-12-1-2-2-2-B-1-B-B-3-2-3-4)]-B-21]-B-20-B-B-1-B
4	{[((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-3-1-B X (Blast and DM Resistance B-com HS-29-3-1-1-3)]-8-4-1] X [Blast and DM Resistance B-com HS-29-3-1-1-3 X ((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-3-1-B]-9-3-4]}-B-9-1-B
5	{[((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-3-1-B X (Blast and DM Resistance B-com HS-29-3-1-1-3)]-8-4-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-10-5-B
6	{[{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1-2-B}]-4-6-1] X [Blast and DM Resistance B-com HS-29-3-1-1-3 X ((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-3-1-B]-9-3-4]}-B-5-2-B
7	{[{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-3-2-5-B X (Blast and DM Resistance B-com HS-28-1-5-4-5)]-2-7-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-1-3-B
8	{[Blast and DM Resistance B-com HS-28-1-5-4-5 X ICMB 96222]-12-6-1] X {(BSECBPT/91-39 x SPF3/S91-116)-15-2-1-2} X {((HTBLN/95-98 x ICMB 89111)-3-B-B-3-B-B-B-B-B x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-4-2-2-B-2}-1-1-5]}-B-13-3-B
9	HPCI10BC RL33-S19-HS-S1-106-2-1-1-4-B
10	[Ankoutes X ICMB 04999]-7-1-3-1-3-B-1-B-B
11	MDMR B-Composite (HS)-126-1-2-1-4
12	((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-2-2-2-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-15-1-1-B
13	((ICMB 01666 x ICMB 01222)-49-1-2-B-B x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-9-3-1-B-B
14	[{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1-4}]-3-3
15	({(ICMB01333xHHVDBCHS-10-1-2-1-1-1-3-B)-2-1-3-2-1x(HTBLN/95-98xICMB89111)-1-B-B-1-9-1-3-4-2XHHVDBCHS-120-1-2-1-1-3-B-4x(ICMB01333xHHVDBCHS-10-1-2-1-1-1-3-B)-2-1-3-2-4}-5-1)
16	(([{26Bx(81BxSRL50-1)}-1-1-2x852B]-69-1-1X[{(81Bx4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2xICMB05888}x(HHVDBCMediumHS-120-1-2-1-1-1-1xHHVDBCMediumHS-15-1-1-1-2-2-4)]-21-2-1-3-1-10-4)
17	((EBC-S1-40-2-2-1 x B-bulk)-25-B-B X (SPF3/S91-327 x SPF3/S91-5)-6-2-2)-B-16-2-2
18	([{(ICMB 96555 x IP 10437)-9-B-B-B-B-B-B x IP 14758-2-2}-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-3-3-2-1-5 X [{(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888}x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)]-21-2-1-3-1-2-1

Table 2: Pedigree of entries in potential B-line nursery (PBLN) *kharif* - 2025

E. no.	Pedigree
19	[{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1-2-B}]-1-4-1
20	[{((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-1-4-2-2-B} X {(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1-4}]-2-1-1
21	{[[{ICMV 88908-11-12-3-2-B x B-bulk)-8-B-3 x {(843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-1-1 x B-bulk}-5-B-B]-11-1-1-B-B x ICMB 04111]-67-5-2-1} X {((HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-2-1 x ICMB 02555)-9}-19-1-3-P2
22	[{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6 x ICTP 8203 S1-187-4-4-1]-3-1-1-1-B-B
23	[Blast and DM Resistance B-com HS-29-3-1-1-3 X ((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-14-4-9-B-5]-3-4-3
24	[Blast and DM Resistance B-com HS-29-3-1-1-3 X ((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-14-4-9-B-5]-3-4-6
25	[{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1-4}]-4-2-1
26	{(BSECBPT/91-39 x SPF3/S91-116)-15-2-1-2} X {((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-1-4-2-B-1}-7-8-2
27	[[(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888]x[(ICMB 96111 x 4017-5-3-B)-4-2-1-5-B-2-B-3-B-1-B x ICMB 05888]-2-5-2-1X[(((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-14-4-9-B-5 X (MC 94 S1-34-1-B x HHVBC)-12-1-2-2-2-B-1-B-B-3-2-3-4)]-B-21]-B-7-2-3
28	[{[[(D2BLN/95-93 x SPF1/K95-3213-20)-10 x (91777B x HHVBC)]-7-B-1-B-B-4-B-1 X (ICMB 04888 x ICMB 02333)-3-1-3-1)-1-1]-B-1-2-5}] X [{ICMB 12444}]-B-21-3-4
29	{[[ICMB 99555 x {78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359}-10-2-B-2]-19-2-B-B-B-B] X [Blast and DM Resistance B-com HS-32-2-2-3-3]}-B-12-3-1-B-B-B
30	{[{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1-2-B}]-4-6-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-11-4-B
31	{[Blast and DM Resistance B-com HS-28-1-5-4-5 X ICMB 96222]-12-6-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-3-1-B
32	HT Composite (B) 1171-1-3-1-4-3-1-4-2101-2-B-B-B-2-B-B-B
33	Heat tollerant HTC LK11-S17-S19-K21-K22-13-4-B
34	{[((AIMP 92901-S1-183-2-2-B-P08 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-16-1X([78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359]-7-4-B-B-2-B-BxMRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1)-6-1-3-3-3-11-1-B)]}-B-13-2-B
35	{{{{(SRC II C3 S1-19-3-2 x HHVBC)-27-1-3-3-3-3-2 x {[(843B x ICTP 8202-161-5)-20-3-B-B-3 x B-bulk]-2-B-1-2-2-B-B-B-11-1 x B-bulk (3981-4011/S06 G1)}-3-2-4-4)-35-2-5-1-1 X (ARD-288-1-10-1-2 (RM)-5-P1-A x 40258/S14-P11)-16-4)-18-2-5 X [{((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-1-4-2-2-B} X {[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1-2-B}]-5-2-2)}-B-10-2-1

Table 2: Pedigree of entries in potential B-line nursery (PBLN) *kharif* - 2025

E. no.	Pedigree
36	[{[(ICMB 06111xICMB 98222)-6-4-2-1-1-4 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-4-3-2}] X [{[{(ICMB 96555 x IP 10437)-9-B-B-B-B-B-B x IP 14758-2-2}-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1] x [{(ICMB 96555 x IP 10437)-9-B-B-B-B-B-B x IP 14758-2-2}-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-3-3-2-1-4]]-3-2-2}]-B-9-4-B-B
37	[{[(ICMB 06111xICMB 98222)-6-4-2-1-1-4 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-4-3-2}] X [{[{(ICMB 96555 x IP 10437)-9-B-B-B-B-B-B x IP 14758-2-2}-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1] x [{(ICMB 96555 x IP 10437)-9-B-B-B-B-B-B x IP 14758-2-2}-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-3-3-2-1-4]]-3-2-2}]-B-13-2-B-B
38	[{(([(ICMR 312 S1-1-5-2-B x HHVBC)-10-2-1-2-3-B x HHVDBC HS-158-2-1-2-1-1-B]-9-2-3-1) x ((ICMB 99444xICMB 99222)-1-4-4-2-2-3-2-3))-9}] X [{(ICMB 04999 x ICTP 8203 S1-250-3)-1-11-2-B}]-B-8-3-B-B
39	HPCI10BC RL33 S1 Compact-14-1-5-6-3-B-B
40	HPCI10BC RL33-S19-HS-S1-68-1-2-2-4-B
41	[{[(ICMB 95444 x ICMB 93333)-24-2-B-2-B X [(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-7-3-2)-1-5]-B-5-1-3}] X [{ICMB 12111}]-B-12-2-2
42	[{[(ICMB 95111 x 9035/S92-B-3)-17-5-1-B-B-B x ICMB 99111]-3-2-1-2}] X [{ICMB 11777}]-B-19-1-1
43	{((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-2-3 X [Blast and DM Resistance B-com HS-29-3-1-1-3 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-3-2-5-B]-7-1-1)}-B-13-B
44	{((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-2-3 X A1 Thick panicle B-comp HS-104-5-1-4-1)}-B-5-B
45	[{{[78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359]-7-4-B-B-6-1-B-1-B-1-B-B-B X HHVDBC HS-120-1-2-1-1-3-B-4}-2-1-3}] X [{(([(ICMR 312 S1-1-5-2-B x HHVBC)-10-2-1-2-3-B x HHVDBC HS-158-2-1-2-1-1-B]-9-2-3-1) x ((ICMB 99444xICMB 99222)-1-4-4-2-2-3-2-3))-9}]-B-9-3-B-B
46	{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-2-2-2-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-15-1-1-BX[[{ICMV 88908-11-12-3-2-B x B-bulk)-8-B-3 x {(843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-1-1 x B-bulk}-5-B-B]-11-1-1-B-B x ICMB 04111]-127-1-3-4}-B-2-3-3-B-B
47	{[[ICMB 99555 x {78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359}-10-2-B-2]-19-2-B-B-B-B] X [(ICMB 01666 x ICMB 01222)-27-3-B-3]}-B-4-3-3-B-B-B
48	{[[ICMB 99555 x {78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359}-10-2-B-2]-19-2-B-B-B-B] X [(ICMB 01666 x ICMB 01222)-27-3-B-3]}-B-11-3-1-B-B-B
49	{[[(D2BLN/95-93 x SPF1/K95-3213-20)-10 x (91777B x HHVBC)]-7-B-1-B-B-4-B-1X(ICMB 95444 x ICMB 93333)-24-2-B-2-B]-5-2] X {(BSECBPT/91-39 x SPF3/S91-116)-15-2-1-2} X {((HTBLN/95-98 x ICMB 89111)-3-B-B-3-B-B-B-B-B x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-4-2-2-B-2}-1-1-5]}-B-13-1-B
50	{[{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1-2-B}]-4-6-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-3-3-B
51	{[{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6 x ICTP 8203 S1-250-3-2-1]-5-3-3-4-B-B] X {(BSECBPT/91-39 x SPF3/S91-116)-15-2-1-2} X {((HTBLN/95-98 x ICMB 89111)-3-B-B-3-B-B-B-B-B x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-4-2-2-B-2}-1-1-5]}-B-17-3-B

Table 2: Pedigree of entries in potential B-line nursery (PBLN) *kharif* - 2025

E. no.	Pedigree
52	{[{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-3-2-5-B X (Blast and DM Resistance B-com HS-28-1-5-4-5)]-2-7-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-3-2-B
53	{[Blast and DM Resistance B-com HS-28-1-5-4-5 X ICMB 96222]-12-6-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-3-3-B
54	{[Blast and DM Resistance B-com HS-28-1-5-4-5 X ICMB 96222]-12-6-1] X [IC-CZBC-C0-166-2-1-B-B-P3X(BSECBPT/91-38 x SPF3/S91-529)-10-1-7-16]-4-1]}-B-16-4-B
55	{[Blast and DM Resistance B-com HS-28-1-5-4-5 X ICMB 96222]-12-6-1] X {(BSECBPT/91-39 x SPF3/S91-116)-15-2-1-2} X {((HTBLN/95-98 x ICMB 89111)-3-B-B-3-B-B-B-B-B x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-4-2-2-B-2}-1-1-5]}-B-11-3-B
56	{([EBC-GEN-S1-40-2-2-1 x B-bulk]-19-B-B-2-B-B-3)}X{((ICMB 95444 x ICMB 93333)-24-2-B-2-B)}-B-15-1-1
57	{([EBC-GEN-S1-40-2-2-1 x B-bulk]-19-B-B-2-B-B-3)}X{((ICMB 01666 x ICMB 01222)-27-3-B-3)}-B-9-3-3
58	{((ICMB 95444 x ICMB 93333)-24-2-B-2-B)}X{([{26B x (81B x SRL 50-1)}-1-1-2 x 852B]-69-1-1)}-B-7-2-3
59	**ICMB 21999 (Check)**
60	**ICMB 11222 (Check)**

Table 3: Pedigree of entries in potential R-line nursery (PRLN) *kharif* - 2025

E. no.	Pedigree
1	(((JBV 3 S1 -237-1-3-3-1-B) × (ICMR 13666))-8-3-11) / (((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-30-3-1-B x bulk (19280-19287/S-13)-7-1-1-1-1)-B-13-1-3
2	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-Bx (22720-22726/S11))-4-6-2-3 x (ICMR 312 S1-8-1-1-1-1-B-B-B-1-B x (20216-20249))-22-1-2-2-1-B)-B-16-5-1-2-B
3	((AIMP 92901 S1-296-2-1-1-1-B-B-6-B-B) X ((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-2-2-2)-6-3-1-4
4	((MC 94 C2-S1-3-1-1-2-3-2-B-1-B-B-Bx (20216-20249))-4-1-1-2-4 x (EERC-HS-29)-19-3)-B-13-1-1-6-B
5	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-23-3-1-29-1x R-lines bulk (20216-20249/K09)]{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-3-4-1-1)-23-2-5-B-B
6	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-34-4-2-B-Bx(R-lines bulk (22669-22675/S11)-5-1-4-2-B x ((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-BxR-lines bulk (22720-22726/S11))-7-6-2-2-B)-B-19-1-1-B
7	((MRC S1-156-1-1-1-B-3-B-B-B-8-1-1) x ((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-34-1-1)-21-1-2
8	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-Bx (22720-22726/S11))-8-5-3-5 x [((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-1-1-2-3-2-B-1)-2-1-1-1-B
9	((MC 94 C2-S1-3-1-1-2-3-2-B-1-B-B-Bx (20216-20249))-4-1-1-2-4 x (EERC-HS-29)-19-3)-B-13-1-1-5-B
10	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-23-3-1-29-1x R-lines bulk (20216-20249/K09)]{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-3-4-1-1)-20-1-1-B-B
11	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-Bx (22720-22726/S11))-1-1-3-3 x (ICMR 312 S1-8-1-1-1-1-B-B-B-1-B x (20216-20249))-22-1-2-2-1-B)-B-13-2-1-5-B
12	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-BxR-lines bulk (22720-22726/S11))-7-6-4-2 x ICMR 13888)-B-9-2-1-5-B
13	(HTComp.-SB-1-B X ICMV 96490-S1-15-1-2-1-3-2-7-1-1)-B-11-2-1-5-B
14	((EERC-HS-29)-19-3 x 10624-1-1-1-1-3-2-1)-14-2xHTRC S1's -2102-1-4-1-4-B)-B-13-3-1-2-B-B
15	(JBV 3 S1-286-1-1-3-B-8-1-1-B x ((EERC-HS-23)-12-3-1-B x {((MC 94 S1-34-1-B × HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-1-2-2}×{JBV 3 S1-197-2-4-1}-B-3-P1-3-3-B-B)-13-1-1)-B-8-1-3
16	[A4-R-Composite-K2015-S1]-116-2-3-2-2-B-B
17	(ICTP 8202 S1-99-2-1-B-B x ICTP 8203-S1-10-2-1-2-B)-B-20-3-2-B-B
18	(((((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1 x [JBV 3 S1-300-1-1-2-2 x JBV 3 S1-18-1-3-3-2]-B-7-4x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-4-1-3-3-1-2-1-1-3-4) X ([JBV 3 S1-300-1-1-2-2 x JBV 3 S1-18-1-3-3-2]-B-7-4x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-4-1-3-3-1-2-1-1-3-4 x [(IPC 337×SDMV 90031-S1-84-1-1-1-1)×RCB-2-S1-144-2-2-2-1-1-1]-1-1-3-1)))-B-8-2-2-B-B-B
19	(((((IP 12370-1-3 × B-Lines)-B-9-1-2-1-2-2 x MRC S1-191-2-1-5-B]-B-6-1x (22680-22692/S11))-5-6-1-5 x (SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-3-1-1-3) X (Thorny composite-HS-S2-B-14-4-3 x (MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1)))-B-6-2-2-B-B-B
20	((SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-B x [((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-1-1-2-3-2-B-1) X ((MC 94 C2-S1-3-1-1-2-3-2-B-1-B-B-Bx (20216-20249))-4-1-1-2-4 x (ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-2-1-1-1-B))-B-8-3-2-B-B-B
21	((SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-B x [((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-1-1-2-3-2-B-1) X ((MC 94 C2-S1-3-1-1-2-3-2-B-1-B-B-Bx (20216-20249))-4-1-1-2-4 x (ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-2-1-1-1-B))-B-12-4-1-B-B-B

Table 3: Pedigree of entries in potential R-line nursery (PRLN) *kharif* - 2025

E. no.	Pedigree
22	A5 R-composite-Early-HS-103-3-1-4-2-3x{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxAIMP 92901 S1-296-2-1-1-3-B-1-6-B-B}-B-11-2 x (B 282 x S10B-38)-2-1-5-1-1)-B-10-1-2-B-B-B
23	(ICMV 96490-S1-15-1-2-1-3-2x{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-2-2-3-1-2xICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-17)-4-4-3
24	([(IPC 337×SDMV 90031-S1-84-1-1-1-1)×SDMV 95045 S1-7-2-4-2-3-2-2-2-1]-P1-1-4 x (ICMS 8506 S1-4-2-2-2-3-3-1-2-3-3-B-4-x20265x(20259-20274))-1-1-1-2-1-B X (SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-11-2-3-2 x JBV 3 S1-300-1-1-2-1-4-1)-B-5-1-2-B-B-B
25	(((EERC-HS-23)-12-3-1-B x {((MC 94 S1-34-1-B × HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-1-2-2}×{JBV 3 S1-197-2-4-1}-B-3-P1-3-3-B-B)-13-1-1 x (SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-11-6-2-1)-B-4-3-2-B-B-B
26	(((EERC-HS-23)-12-3-1-B x {((MC 94 S1-34-1-B × HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-1-2-2}×{JBV 3 S1-197-2-4-1}-B-3-P1-3-3-B-B)-13-1-1 x (SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-11-6-2-1)-B-8-1-1-B-B-B
27	([(IPC 337×SDMV 90031-S1-84-1-1-1-1)×SDMV 95045 S1-7-2-4-2-3-2-2-2-1]-P1-1-4 x ([(IP 12370-1-3 × B-Lines)-B-9-1-2-1-2-2 x MRC S1-191-2-1-5-B]-B-6-1x (22680-22692/S11))-4-5-2-3 X (SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-11-2-3-2 x JBV 3 S1-300-1-1-2-1-4-1)-B-24-1-1-B-B-B
28	([(IPC 337×SDMV 90031-S1-84-1-1-1-1)×SDMV 95045 S1-7-2-4-2-3-2-2-2-1]-P1-1-4 x (ICMS 8506 S1-4-2-2-2-3-3-1-2-3-3-B-4-x20265x(20259-20274))-1-1-1-2-1-B)-B-3-1-2-B-B
29	([(IPC 337×SDMV 90031-S1-84-1-1-1-1)×SDMV 95045 S1-7-2-4-2-3-2-2-2-1]-P1-1-4 x (ICMS 8506 S1-4-2-2-2-3-3-1-2-3-3-B-4-x20265x(20259-20274))-1-1-1-2-1-B)-B-8-1-4-B-B
30	(EERC-HS-29)-19-3X(MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-23-2-1)-B-2-3-2-B-B-B
31	(MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-28-1-1-BX(MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-23-2-1)-B-13-1-1-B-B-B
32	(ICMV 96490-S1-15-1-2-1-3-2 x {[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-2-2-3-1-2 x ICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-17)-15-1-2
33	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-34-4-2-B-Bx(R-lines bulk (22669-22675/S11)-5-1-4-2-B x ((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-BxR-lines bulk (22720-22726/S11))-7-6-2-2-B)-B-19-3-4-B
34	[((MC 94 S1-34-1-B x HHVBC)-16-2-1-) X (IP 19626-4-2-3)]-B-1-1-2-3-2-B
35	({[[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-11x[AIMP 92901 S1-296-2-1-1-4-2-B-15-2-1 X ICMV 96490-S1-15-1-2-3-2]-30-1-2-1)-B-19-3-2-B
36	[((MC 94 S1-34-1-B x HHVBC)-16-2-1) ï¿½ (IP 19626-4-2-3)]-B-34-1-3-3-1-1-B-2-B
37	([(IPC 337xSDMV 90031-S1-84-1-1-1-1)xSDMV 95045 S1-7-2-4-2-3-2-2-2-1]-P1-1-4 x (ICMS 8506 S1-4-2-2-2-3-3-1-2-3-3-B-4-x20265x(20259-20274))-1-1-1-2-1-B)-B-8-1-1-1-B
38	(((((IP 12370-1-3 ï¿½ B-Lines)-B-9-1-2-1-2-2 x MRC S1-191-2-1-5-B]-B-6-1x (22680-22692/S11))-5-6-1-5 x (SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 ï¿½ (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-3-1-1-3) X (Thorny composite-HS-S2-B-14-4-3 x (MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-1)))-B-6-3-1
39	(IPC 107ï¿½ICMV 91059 S1-14-2-1-1-2)-6-2-4-Bx(IPC 107 ï¿½SDMV 90031-S1-84-1-1-1-1)-1-1-2-1-B-B)-1-5-2-4-1x[JBV 3 S1-300-1-1-2-2 x JBV 3 S1-18-1-3-3-2]-B-7-4x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) ï¿½ (IP 19626-4-2-3)]-B-4-1-3-3-1-2-1-1-1-3)-B-5-1-3
40	(ICMR 11333 x (EERC-HS-29)-19-3)-B-9-3-1-B

Table 3: Pedigree of entries in potential R-line nursery (PRLN) *kharif* - 2025

E. no.	Pedigree
41	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-Bx (22720-22726/S11))-8-5-3-5 x [((MC 94 S1-34-1-B x HHVBC)-16-2-1) ï¿½ (IP 19626-4-2-3)]-B-1-1-2-3-2-B-1)-B-11-2-2-B
42	[HTRC S1's -1093-1-6-1-4] X [({[[((IP 12322-1-2)×B-Lines)-B-14) × (MRC S1-156-2-1-B)]-B-1-3-3-B}×{GB 8735-S1-15-3-1-1-3-4-2-2-2-1}-B-11-4-3x(MC 94 C2-S1-3-2-2-2-1-3-B-B x SDMV 90031 S1-3-3-2-2-2-2-2)-B-1-3-4)-9-4-2]-B-23-2-B-B-B
43	[A5 R-composite-Early-HS-122-1-1-3-1-1] X [({[[((IP 12322-1-2)×B-Lines)-B-14) × (MRC S1-156-2-1-B)]-B-1-3-3-B}×{GB 8735-S1-15-3-1-1-3-4-2-2-2-1}-B-11-4-3x(MC 94 C2-S1-3-2-2-2-1-3-B-B x SDMV 90031 S1-3-3-2-2-2-2-2)-B-1-3-4)-9-4-2]-B-6-4-B-B-B
44	[HTRC-Bulk-1084-1-5-4-2-B] X [({[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-2-2-3-1-2xICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-17x{((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-4-3-1}×{RCB2 S1-19-2-5-1-1-2-3-3-B}-B-5-P1-3)-2-2-4]-B-6-1-B-B-B
45	[HTRC-Bulk-1084-1-5-4-2-B] X [({[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-2-2-3-1-2xICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-17x{((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-4-3-1}×{RCB2 S1-19-2-5-1-1-2-3-3-B}-B-5-P1-3)-2-2-4]-B-15-1-B-B-B
46	[HTRC-Bulk-1084-1-5-4-2-B] X [((ICMR 312 S1-8-1-1-1-1-B-B-B-1-B x (21416 - 21423/K11)-22-3-1x{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxAIMP 92901 S1-296-2-1-1-3-B-1-6-B-B}-B-14-4-3-1-B)-6-3-1]-B-5-2-B-B-B
47	[HTRC-Bulk-1084-1-5-4-2-B] X [((ICMR 312 S1-8-1-1-1-1-B-B-B-1-B x (21416 - 21423/K11)-22-3-1xMDMRRC S1-1-59-3-3-1-B)-7-6-1]-B-5-4-B-B-B
48	((EERC-HS-29)-19-3 x 10624-1-1-1-1-3-2-1)-14-2x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-37-1-1-1-2-B)-B-8-2-1-3-B-B
49	((EERC-HS-29)-19-3 x 10624-1-1-1-1-3-2-1)-14-2x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-37-1-1-1-2-B)-B-8-4-3-2-B-B
50	((EERC-HS-29)-19-3 x 10624-1-1-1-1-3-2-1)-14-2x((ICMV IS 94206 S1-15-2)×{(SRC II C3 S1-19-3-2 x HHVBC)-5-3-1})-B-13-4-2-1-1-1-1-3-2)-B-1-1-3-2-B-B
51	((EERC-HS-29)-19-3 x 10624-1-1-1-1-3-2-1)-14-2x((ICMV IS 94206 S1-15-2)×{(SRC II C3 S1-19-3-2 x HHVBC)-5-3-1})-B-13-4-2-1-1-1-1-3-2)-B-1-3-3-1-B-B
52	([(ICTP 8202 S1-99-2 x (20216-20249/K09)]-12-1 x 10624-1-1-1-1-3-2-1)-1-1x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-37-1-1-1-2-B)-B-15-1-1-1-B-B
53	([(ICTP 8202 S1-99-2 x (20216-20249/K09)]-12-1 x 10624-1-1-1-1-3-2-1)-1-1x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-37-1-1-1-2-B)-B-15-2-2-2-B-B
54	(ICMV 96490-S1-22-2-2-1-2 x 10624-1-1-1-1-3-2-2)-14-3x[JBV 3 S1-300-1-1-2-2 x JBV 3 S1-18-1-3-3-2]-B-7-4x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-4-1-3-3-1-2-1-1-1-3)-B-1-1-1-4-B-B
55	{(IPC 1268 ×ICMV 91059 S1-58-2-2-2-1)-7-3-4-1-B-Bx(IPC 107 ×SDMV 90031-S1-84-1-1-1-1)-1-3-2-3-2-B)-1-5-1-6-4} x {{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxAIMP 92901 S1-296-2-1-1-3-B-1-6-B-B}-B-11-1x((22669-22675/S11)-8-1-3-1-B-B}-B-5-3-4-B-B
56	((([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1-10-3 x HHVBC tall (C1) S1-33-3-1-1-1-2-B-B-3-3-1-7) X ((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1 x [JBV 3 S1-300-1-1-2-2 x JBV 3 S1-18-1-3-3-2]-B-7-4x[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-4-1-3-3-1-2-1-1-3-4)))-B-2-3-1-B-B-B
57	HTRC S1's-1092-1-3-1-2x({((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-4-3-1}×{RCB2 S1-19-2-5-1-1-2-3-3-B}-B-5-P1-3x(MC 94 C2-S1-3-2-2-2-1-3-B-B x SDMV 90031 S1-3-3-2-2-2-2-2)-B-1-3-4)-2-1-1)-B-20-1-3-B-B-B
58	**ICMR 1202 (Check)**
59	**ICMR 14888 (Check)**
60	**ICMR 23666 (Check)**

Table 4: Pedigree of entries in drought tolerant restorer parent nursery (DTRPN) *kharif* - 2025

E. no.	Pedigree
1	(ICMB 92777 x PRLT 2/89-33)-4-2-1-B-CAZRI-1-B-5-B-B-B
2	(ICMB 97111 X PRLT 2/89-33)-P711-2-B-B-1-B-B-B
3	(ICMB 04999 X PRLT 2/89-33)-P1202-1-B-B-2-3-B-B-B
4	(ICMB 97222 X PRLT 2/89-33.)-P2770-3-B-B-1-2-B-B-B
5	(ICMB 97222 X PRLT 2/89-33.)-P2890-1-B-B-3-B-B-B
6	(ICMB 04999 x PRLT 2/89-33)-3-5-1-1-1-2-2-B-B-B
7	HT-B Composite-3224-S2014-1-2-2-B-2186-1-B-B-B-1-B-B-B
8	HT Composite (B) 1184-1-4-5-3065-1-3-B-2184-1-B-1-B-3-3-B-B-B
9	HT Composite (B) 1171-1-3-4-3-4-5-B-2178-2-B-1-2-1-B-B-B
10	[(ICMB 97111 X PRLT 2/89-33)-P711-2-B]-3-B-B-B
11	[(ICMB 04999 X PRLT 2/89-33)-P1432-3-B]-1-B-B-B-B
12	((EBC-S1-40-2-2-1 x B-bulk)-25-B-B X (SPF3/S91-933 x SPF3/S91-3)-8-1-1-B)-B-24-3-1-B-B-B-B-B
13	[{{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-3-2-5-B} X {(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1-4}]-B-9-1-3-B-B-B-B-B
14	(ICMB 97111 X PRLT 2/89-33)-P711-1-B-B-B-B-B-B-B-B
15	(ICMB 04999 X PRLT 2/89-33)-P1202-3-B-5-B-B-B-B-B-B
16	(ICMB 04999 X PRLT 2/89-33)-P1312-1-3-1-B-B-B-B-B-B
17	(ICMB 97222 X PRLT 2/89-33.)-P2890-1-B-B-B-B-B-B-B-B
18	(ICMB 97111 x PRLT 2/89-33)-7-4-1-1-2-B-B-B-B-B
19	**843-22B (Check)**
20	**ICMB 13666 (Check)**
21	[DTRC-K2018-HS-18/1]-2-3
22	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-12-2-1-B
23	{ICMR 12555 X (PRLT 2/89-33 X MRC S1-155-4-3-B-B-B-B-1-B-B-1)-P2038-1-B}-B-7-2-2-B
24	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-9-1-2-B
25	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-7-2-4-B
26	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-17-1-1-B
27	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-79-3-2-B
28	{ICMR 14888 X ((MRC S1-4-1-3-B-B-B-1x(20275-20291))-2-4-6-4 X PRLT 2/89-33)-P2399-3-B}-B-54-1-2-B
29	{ICMR 15222 X ((EERC-HS-6)-B-12-1-1-3-B X PRLT 2/89-33)-P2287-3-B}-B-16-2-3-B-B-B
30	{ICMR 15222 X ((MRC S1-4-1-3-B-B-B-1x(20275-20291))-2-4-6-4 X PRLT 2/89-33)-P2399-3-B}-B-57-1-1-B-B-B
31	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-5-2-3-B-B-B
32	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-94-3-4-B-B-B
33	{ICMR 14888 X (PRLT 2/89-33 X RIB 3135/18)-P315-2-B}-B-3-1-1-B-B-B
34	{ICMR 14888 X ((EERC-HS-23)-3-1-4 X PRLT 2/89-33)-P1584-1-B}-B-51-2-2-B-B-B

Table 4: Pedigree of entries in drought tolerant restorer parent nursery (DTRPN) *kharif* - 2025

E. no.	Pedigree
35	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-4
36	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-8-3
37	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-10-1
38	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-12-4
39	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-1-5
40	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-8-1
41	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-10-3
42	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-15-4
43	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-6-5
44	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-4-B
45	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-10-B
46	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-5-B
47	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-4-B
48	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-13-B
49	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-13-B
50	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-3-B
51	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-28-2-3-B
52	(([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-17-1-2-B
53	DTRC-CAZRI-S1-32-3-B-B-B
54	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-1
55	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-13-1
56	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-1-2
57	IC-CAZ-F2/27-4-3-1-B
58	DTRC-CAZRI-S1-32-3-B-B-B
59	**PRLT 2/89-33 (Check)**
60	**H77/833-2 (Check)**

Table 5: Pedigree of entries in blast resistant B & R line nursery (BRB&RLN) *kharif* - 2025

E. no.	Pedigree
1	[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1 x [{(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888}x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)]-19-2-5-3]-9-1-1-1-1-B-B
2	[(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888]x"[(ICMB 96111 x 4017-5-3-B)-4-2-1-5-B-2-B-3-B-1-B x ICMB 05888]-2-5-2-4)] X [(PMBRB/RP4B/S22)]}-B-B-17-B
3	{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1-2} X {({HHVDBC HS-10-1-2-1-1-4 x [ICMB 99555 x {78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359}-19-5-B-B]-13-2-B-B-B}-22-1-4-2-1 x Dwarf togo type B-lines Bulk (1807-1813/S11))-6}-6-6)] X [(PMBRB/RP4B/S22)]}-B-14-B
4	[(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1 X {(ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-1 x (HTBLN/95-98 x ICMB 89111)-1-B-B-1-9-1-3-4-2 X HHVDBC HS-120-1-2-1-1-3-B-4 x (ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-4}-5-7-4]-B-19-1-3-4-B
5	[[{[(D2BLN/95-93 x SPF1/K95-3213-20)-10 x (91777B x HHVBC)]-7-B-1-B-B-4-B-1 X (BSECBPT/91-38 x SPF3/S91-529)-10-1-7}-1-4-7]-B-4-7-2-SB X ((ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-1 x [(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-1-2-3)-13-3-2-B]-B-20-B-B-B-B
6	[[{(B x B) F2 S1-109-2-3-3-1-4-2 X (ICMB 01666 x ICMB 01222)-27-3-B-3}-1-2-1]-B-2-1-4-1 X Ankoutes X ICMB 04999-7-1]-B-3-B-B-1-B
7	[[(SRC II C3 S1-1-1-2 x HHVBC)-2-2-1-1-1-B-B x (81B x 4017-5-4-B)-12-3-1-3]-2-3-1-2-3X[(((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-14-4-9-B-5 X (MC 94 S1-34-1-B x HHVBC)-12-1-2-2-2-B-1-B-B-3-2-3-4)]-B-21]-B-20-B-B-1-B
8	[{{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-3-2-5-B} X {(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1-4}]-3-5-3-B
9	[IC-CZBC-C0-1-6-3-3-B X 16625/S12]-12-7)] X [(PMBRB/RP4B/S22)]}-B-15-B
10	([ICMB 95111 x (ICMB 96555 x IP 10437)-3]-54-2-B-B-B-B-B-B x (HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-2-1)-7-8)] X [(PMBRB/RP4B/S22)]}-B-12-B
11	[(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1 X (ICMB 01666 x ICMB 01222)-27-3-B-3]-B-6-1-B-B-B
12	[CTPBC-HS-43-1-8-3-4-SBXA1 Thick panicle B-comp HS-36-4-2]-B-8-B-B-B-B
13	[[{(B x B) F2 S1-109-2-3-3-1-4-2 X (ICMB 01666 x ICMB 01222)-27-3-B-3}-1-2-1]-B-2-1-4-1 X {(ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-1 x (HTBLN/95-98 x ICMB 89111)-1-B-B-1-9-1-3-4-2 X HHVDBC HS-120-1-2-1-1-3-B-4 x (ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-4}-5-7-4]-B-1-5-B-B-B-B
14	[(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888]x"[(ICMB 96111 x 4017-5-3-B)-4-2-1-5-B-2-B-3-B-1-B x ICMB 05888]-2-5-2-4)] X [(PMBRB/RP4B/S22)]}-B-B
15	[(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888]x"[(ICMB 96111 x 4017-5-3-B)-4-2-1-5-B-2-B-3-B-1-B x ICMB 05888]-2-5-2-4-1-2-B-B
16	[[{(B x B) F2 S1-109-2-3-3-1-4-2 X (ICMB 01666 x ICMB 01222)-27-3-B-3}-1-2-4]-B-2-4-1-3 X [{((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-1-3-3-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-18-2-1-B-B-1-1} X {(ICMB 03777 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-3-1)-21-4-4-1-4}]-B-2]-B-36-B-B-B
17	[(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888]x"[(ICMB 96111 x 4017-5-3-B)-4-2-1-5-B-2-B-3-B-1-B x ICMB 05888]-2-5-2-4-1-2-B-1
18	(843B x ICMPS 1500-7-4-1-6)-23-1-B-1-4
19	(ICMB 89111 x 863B)-65-8-B-B
20	[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-6-2-4

Table 5: Pedigree of entries in blast resistant B & R line nursery (BRB&RLN) *kharif* - 2025

E. no.	Pedigree
21	IC-CZBC-C0-166-2-1-3-B
22	({(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-1-1-2-2 x (ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-1)-14-5
23	(NC D2 BC7F4-34-3-1-2-B-2-B x EEBC 407)-12-1-2
24	**ICMB 21999 (Check)**
25	**ICMB 95444 (Check)**
26	[([MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1 X {[(((IP 12322-1-2)×B-Lines)-B-14) × (MRC S1-156-2-1-B)]-B-1-3-3-B}×{GB 8735-S1-15-3-1-1-3-4-2-2-2-1}-B-11-5-1-1-1]-20-1-B) X (ICMV 96490-S1-15-1-2-1-1)]-B-2-1-1-2-B
27	[([MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1 X {[(((IP 12322-1-2)×B-Lines)-B-14) × (MRC S1-156-2-1-B)]-B-1-3-3-B}×{GB 8735-S1-15-3-1-1-3-4-2-2-2-1}-B-11-5-1-1-1]-20-1-B) X (ICMV 96490-S1-15-1-2-1-1)]-B-14-1-3-B-B
28	({[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-2-2-3-1-2 x ICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-4 x {((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-4-3-1} × {RCB2 S1-19-2-5-1-1-2-3-3-B}-B-5-P1-2)-2-4-4
29	(ICMV 96490-S1-15-1-2-1-3-2x{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-2-2-3-1-2xICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-17)-4-4-3
30	((EERC-HS-24)-B-2-3-2-1) × (ICMV 96490-S1-15-1-2-1-1))-3-2-1-1-1
31	Blast Resistant Composite-HS-S1-241-1-3-2-B
32	(Jakhrana × ESRC II S2-147-B-2-2-3-1-B x (SDMV 90031 S1-3-3-2-1-3-1-1 x ICMS 8511 S1-14-3-1-1-2-B-1)-B-35-3-2-1-B-B)-12-3-1-B
33	(ICMR 08111 x DM/Blast R-Composte-HS(Early)-S1-1-1-2-2)-1-1-3
34	(ICMR 14777 x DM/Blast R-Composte-HS(Early)-S1-1-1-2-2)-15-2-2
35	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-22-2-3-3-B-BxR-lines bulk (22680-22692/S11))-9-7-1-1-B X [MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1 X ICMV 96490-S1-15-1-2-2-1-2]-81-4-2-2-1)-B-2-3
36	(AIMP 92901 S1-415-2-1-2-B-B-B-1-B x (20216-20249/K09))-11-1-2-3-1-B X ICMR 1804)-B-11-4
37	(SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-11-6-2-1 X ICMR 1804)-B-11-1
38	(SDMV 90031-S1-86-4-2-1-1-B-2-3-B-B-Bx[MC 94 C2-S1-3-1-3-1-2-2-2-B-B-1 x (ICMV-IS 94206-7 × (SRC II C3 S1-1-1-2 x HHVBC)-1-3-3))-B-10-1-1-3-3-2]-B-18-1)-11-6-2-1 X ICMR 1804)-B-11-3
39	{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)-B-1-1-2-3-2-B-1 x IP No. 17843-1-1)]}-21-2-3-2-B-B X ((EERC-HS-24)-B-2-3-2-1) × (ICMV 96490-S1-15-1-2-1-1))-8-1-2)-B-15-1
40	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-2-2-3) X (LaGrap C2-S1-14-4-3-1-1-2)-27-1-1-3
41	IP 12181 S1-1-4-1-1-2-2-1-B-1
42	SRC II C4-2064-1-4-1-B
43	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-17-4-3-2-B-BxR-lines bulk (22720-22726/S11))-5-5-4-1x(ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-4-5-3)-B-9-2-1-B
44	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-17-4-3-2-B-BxR-lines bulk (22720-22726/S11))-5-5-4-1x(ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-4-5-3)-B-9-3-1-B
45	AIMP 92901 S1-480-1-1-2-3-1x(ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-2-1-1-1-B)-B-13-1-1-B
46	AIMP 92901 S1-480-1-1-2-3-1x(ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-2-1-1-1-B)-B-13-1-4-B
47	((IPC 1268 ×ICMV 91059 S1-58-2-2-2-1)-7-2-1-Bx(E 298 x LCSN 282-4-1-2)-12-2-1-2-B-B-B-B)-2-1-B-Bx(ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-2-1-1-1-B)-B-11-3-3-B
48	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-17-4-3-2-B-BxR-lines bulk (22720-22726/S11))-5-5-4-1x(ICMS 7704-S1-127-5-1 × RCB-2 Tall)-B-19-3-2-1-1-1-B)-B-13-4-1-B
49	**ICMR 06666 (Check)**
50	**ICMR 21666 (Check)**

Table 6: Pedigree of entries in good coimbiner seed and restorer parent nursery (GCSRPN) *kharif* - 2025

E. no.	Pedigree
1	{(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-9-1-4-4-B
2	[[{ICMV 88908-11-12-3-2-B x B-bulk)-8-B-3 x {(843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-1-1 x B-bulk}-5-B-B]-11-1-1-B-B x ICMB 04111]-127-1-3-4-B
3	Blast and DM Resistance B-com HS-5-3-2-5-B
4	[(ICMB 06111xICMB 98222)-6-4-2-1-1-4 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-2-2-2-B
5	[(ICMB 06111xICMB 98222)-6-4-2-1-1-4 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-4-3-2-B
6	[(ICMB 99444xICMB 99222)-1-4-2-4-3 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-12-3-2-B
7	[(EEDBC S1-704-1-1-1-3-B-B-1xEEBC 407 progenies bulk)-7-3-1 x NCD2S1-2-2-2-2-1-9-B-B-14-1-3-1-2 X ((843B x ICMPS 900-9-3-2-2)-41-2-5-5 S2-34-1-2-3 x B-line bulk]-8-B-B-1-B-B-B-1 x (ICMB 01666xICMB)01222)-12-2-B-1-B P1)-4-1-2-3-B)-1-5]-B-5-4-2-B
8	[{ICMB 14222}] X [{(AIMP 92901-S1-183-2-2-B-P08 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-16-1}]-B-22-1
9	((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-2-2-2-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-12-2-9-4
10	{(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-9-1-4-4
11	((MC 94 S1-67-1-B x HHVBC)-17-2-2-1-2-B-B-B-B-B-2-1-2 x ICMB 08666)-5-1-B
12	(7005 x 7001-7011)-14-2-1-B
13	[Blast and DM Resistance B-com HS-29-3-1-1-3 X ((ICMB 94333 x ICMB 01222)-47-1-B-B-B x 4287 {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-14-4-9-B-5]-2-1-2
14	A1 Thick panicle B-comp HS-4-3-1-5-1
15	((HHVDBC HS-246-1-2-1-2 x ICMB 99555)-2-2-2-1 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-15-1-1-B-3-3
16	Blast and DM Resistance B-com HS-5-3-2-5
17	[ICMB 97444 x (843B x EEBC S1-407)-12-4-B-B]-6-1-B-B-B-B
18	MDMR B-Composite (HS)-78-2-2-3-1
19	**ICMB 11222 (Check)**
20	**ICMB 02777 (Check)**
21	((AIMP 92901 S1-296-2-1-1-3-1-B-3-B-1) X ((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-2-2-2)-8-3-2-1-1
22	HHVBC tall (C1) S1-33-3-1-1-1-2-B-B-3-3-1-7-B
23	((AIMP 92901-S1-10-1-3XICMR 312 S1-113)-27-2-2x(MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-34-4-1)-B-12-1-1-B
24	(ICMR 14777 x DM/Blast R-Composte-HS(Early)-S1-1-1-2-2)-3-4-3
25	((MRC S1-156-1-1-1-B-3-B-B-B-8-1-1) X ((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-34-1-1)-1-3-2-2-1

Table 6: Pedigree of entries in good coimbiner seed and restorer parent nursery (GCSRPN) *kharif* - 2025

E. no.	Pedigree
26	((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-23-3-1-29-1x R-lines bulk (20216-20249/K09)]{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-18-2-3-2-2-BxICMR 312 S1-3-2-3-2-1-1-B-B-B-B}-B-3-4-1-1)-20-1-1
27	[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-1-1-2-3-2-B-1-B
28	(ICMR 312 S1-3-2-3-2-1-1-B-1 x MS group R-line bulk (20216-20249))-11-1-2-3-1-B
29	A4-R-Composite-K2015-S1-91-1-4-1-2
30	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-Bx (22720-22726/S11))-8-5-3-5 x [((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-1-1-2-3-2-B-1)-B-10-1-1-2-B
31	{[((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-3-3-2}×{MRC HS 225-3-5-2-B-B-B-B}-B-7-4-1-3-B-B
32	(([MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1 X ICMV 96490-S1-15-1-2-1-3-1]-31) × ((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-2-2-2-57-1))-18-2-1-11
33	({{((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-4-3-1}×{RCB2 S1-19-2-5-1-1-2-3-3-B}-B-5-P1-3) × (ICMV 96490-S1-15-1-2-2-2))-1-1-3-2-11
34	{((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-28-3-4-3-1}×{RCB2 S1-19-2-5-1-1-2-3-3-B}-B-5-P1-5
35	(MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-17-4-3-2-B-B
36	(ICMB 08666 x (ICTP 8203 x 40258-B-1)) F3-75-3-4-P1-1
37	[ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B
38	(((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-8-3-1-2-B-Bx (22720-22726/S11))-1-1-3-3 x (ICMR 312 S1-8-1-1-1-1-B-B-B-1-B x (20216-20249))-22-1-2-2-1-B)-B-13-3-1-1-B
39	**ICMR 1203 (Check)**
40	**ICMR 15222 (Check)**

Table 7: Pedigree of entries in elite joint biofortification nursery (EJBFN) *kharif* - 2025

E. no.	Pedigree
1	[{(ICMB 94333 x ICMB 01222)-47-1-B-B-B-B X DMR1 S2-52-4-1-1-B)-1-3}] X [{[(ICMB 99444xICMB 99222)-1-4-2-4-3 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-6-2}]-B-15-5-4-B
2	[{ICMB 17555}] X [{((ICMB 93333 x ICMB 01222)-20-2-B-5-B-1-B-2) x ([(NC D2 BC7F4-34-3-1-2-B-2-B x EEBC 407)-12-1-2-3xEEDBC S1-2-1-1-1-1-1-1-B-B-1-4-B-B]-19-3-1-2)-45-B-B}]-B-24-4-3-B
3	[{[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-1-2-3}] X [{ICMB 11333}]-B-11-3-3-B
4	{[((ICMB94333xICMB01222)-47-1-B-B-B-BXDMR1S2-52-4-1-1-B)-1-5X(ARD-288-1-10-1-2 (RM)-5-P1-A x 40258/S14-P11)-16-4-1-13-8-3)]}-B-16-3-1
5	{[((7005x7001-7011)-14-7-1)X([78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359]-7-4-B-B-2-B-BxMRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1)-6-1-3-3-3-11-1-B)]}-B-14-3-2
6	{[((7005x7001-7011)-14-7-1)X[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1 x [{(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888}x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)]-19-2-5-3]-3-11-6-B)]}-B-10-3-3
7	[{HTBC-1-2-B-6}] X [{[(ICMB 99444xICMB 99222)-1-4-2-4-3 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-6-2}]-B-9-2-1-B
8	{[{(ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-4 x (HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-2-1 X [(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-1-1-4 x (ICMB 01333 x HHVDBC HS-10-1-2-1-1-1-3-B)-2-1-3-2-1}-8-6 X [{(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6 x ICTP 8203 S1-250-3-2-1]-5-11-10-B]}-B-16-2-3
9	[{{(B x B) F2 S1-109-2-3-3-1-4-2 X (ICMB 01666 x ICMB 01222)-27-3-B-3}-1-2-2}] X [{[(ICMB 99444xICMB 99222)-1-4-2-4-3 x {(EEDBC S1-425-2-1-2-3-B-2-2-4 x NCD2S1-20-7-2-4-1-4-2-3) x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-14-1-2-4]-6-2}]-B-1-1-3-B
10	[{{(ICMB 01888 x ICMB 01222)-15-2-B-2-3 X (ICMB 01666 x ICMB 01222)-27-3-B-3}-1-10-4}] X [{(ICMB 99444xICMB 99222)-1-4-4-2-2-3-2-1-2-11-2-B}]-B-5-4-B-B
11	[{IP 21187-11-6-4-4-1}] X [{[(EEBC S1-407-1-B-B-B-B-B-1-B-1-B-5-1x 3981-3989 G1)-2-1-1x{[(843B x ICTP 8202-161-5)-20-3-B-B-3 x B-bulk]-2-B-9 x [(ICMB 96555 x LaGrap C2 S1-32-1)-10 x IP 14758-2-1]-8-2}-1-1-2-2]-2-1-2-2}]-B-18-1-
12	[{ICMB 14222}] X [{(AIMP 92901-S1-183-2-2-B-P08 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-16-1}]-B-2-3-B-B
13	HiFeD2B comp 1701-S0-19-4-4-B
14	[{({[78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359]-7-4-B-B-2-B-B x HHVDBC HS-10-1-2-1-1-1-4-1-3}-17-1-4 x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-8-1-1-3}] X [{[(ICMB 93333 x ICMB 01222)-20-2-B-5-B-1-B-2 x ICTP 8203 S1-250-3-2-1]-4-1}]-B-84-4
15	[{((HTBLN/95-98 x ICMB 89111)-3-B-B-3-B-B-B-B-B x {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6-2-4)-4-2-2-B-2}] X [{(ICMB 99222 x ICMB 08666 x (ICTP 8203 x 40258-B-1)-P24)-5-1-3-1}]-B-136-1
16	[{({HHVDBC HS-10-1-2-1-1-4 x [ICMB 99555 x {78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359}-19-5-B-B]-13-2-B-B-B}-22-1-4-2-1)-1-6-6}] X [{[(EEBC S1-407-1-B-B-B-B-B-1-B-1-B-5-1x 3981-3989 G1)-2-1-1x{[(843B x ICTP 8202-161-5)-20-3-B-B-3 x B-bulk]-2-B-9 x [(ICMB 96555 x LaGrap C2 S1-32-1)-10 x IP 14758-2-1]-8-2}-1-1-2-2]-2-1-2-2}]-B-222-2
17	{[((ICMB94333xICMB01222)-47-1-B-B-B-BXDMR1S2-52-4-1-1-B)-1-5X[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1 x [{(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888}x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)]-19-2-5-3]-3-11-6-B)]}-B-4-2-2

Table 7: Pedigree of entries in elite joint biofortification nursery (EJBFN) *kharif* - 2025

E. no.	Pedigree
18	{[((ICMB 94333 x ICMB 01222)-47-1-B-B-B-B X {(EEDBC S1-425-2-1-2-3-B-2-2-1 x NC D2 BC7F4-22-2-4-1-3-3-1-B) x (HHVDBC Dwarf HS-155-1-1-1-2-2-3 x HHVDBC Medium HS-15-1-1-1-2-2-4)}-3-1-4-1-1)-1-5XDhanashakti S1-d2-2-5-4-2-11-2-B)]}-B-8-2-1
19	{[(([{26Bx(81BxSRL50-1)}-1-1-2x852B]-69-1-1X[{(81Bx4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2xICMB05888}x(HHVDBCMediumHS-120-1-2-1-1-1-1xHHVDBCMediumHS-15-1-1-1-2-2-4)]-21-2-1-3-1-4-2XDhanashakti S1-d2-2-5-4-2-11-2-B)]}-B-3-2-3
20	{[(([{26Bx(81BxSRL50-1)}-1-1-2x852B]-69-1-1X[{(81Bx4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2xICMB05888}x(HHVDBCMediumHS-120-1-2-1-1-1-1xHHVDBCMediumHS-15-1-1-1-2-2-4)]-21-2-1-3-1-4-2X([78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359]-7-4-B-B-2-B-BxMRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1)-6-1-3-3-3-11-1-B)]}-B-11-5-3
21	{[(([{26Bx(81BxSRL50-1)}-1-1-2x852B]-69-1-1X[{(81Bx4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2xICMB05888}x(HHVDBCMediumHS-120-1-2-1-1-1-1xHHVDBCMediumHS-15-1-1-1-2-2-4)]-21-2-1-3-1-4-2X[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-4-1-2-1 x [{(81B x 4017-6-1-1)-3-1-4-3-4-1-2-1-B-2-2 x ICMB 05888}x (HHVDBC Medium HS-120-1-2-1-1-1-1 x HHVDBC Medium HS-15-1-1-1-2-2-4)]-19-2-5-3]-3-11-6-B)]}-B-7-1-1
22	{[((AIMP 92901-S1-183-2-2-B-P08 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-16-1XDhanashakti S1-d2-2-5-4-2-11-2-B)]}-B-7-3-1
23	{[((AIMP 92901-S1-183-2-2-B-P08 X {(MC 94 S1-34-1-B x HHVBC)-16-2-1-1-1-1-B-B-5 x (MC 94 S1-34-1-B x HHVBC)-10-4-1-2-1-B-B-1-30-2-4-2-6)-16-1X([78-7088/3/SER3 AD//B282/(3/4)EB x PBLN/S95-359]-7-4-B-B-2-B-BxMRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1)-6-1-3-3-3-11-1-B)]}-B-13-1-1
24	**ICMB 98222 (Check)**
25	**ICMB 91222 (Check)**
26	(AIMP 92901 S1-415-2-1-2-B-B-B-1-B x (20216-20249/K09))-11-1-2-3-1-B X [ICMR 12555 x ICMV 221 S1 - 366-1]-2-12-1)-B-1-5-3-B-B-B
27	(AIMP 92901 S1-415-2-1-2-B-B-B-1-B x (20216-20249/K09))-11-1-2-3-1-B X ICMR 1804)-B-4-1-1-B-B-B
28	(ICMR 1505 X ICMR 08111)-B-8-2-3-B
29	(ICMR 1505 X ICMR 08111)-B-18-1-1-B
30	(ICMR 1802 X ICMR 12222)-B-3-1-2-B
31	(ICMR 1804 X ICMR 08111)-B-16-2-2-B
32	(ICMR 1804 X ICMR 08111)-B-25-1-3-B
33	(ICMR 1809 X ICMR 10888)-B-2-3-2-B
34	(ICMR 1505 X IP 21187-P1)-B-4-1-4-B
35	(ICMR 1802 X ICMR 11003)-B-11-2-1-B
36	(ICMR 1806 X ICMR 11003)-B-8-1-1-B
37	{ICMR 08222 X (((MC 94 C2-S1-3-2-2-2-1-3-B-B x ICMR 312 S1-3-2-3-2-1-1-B-B)-B-34-4-1)×(ICMV 96490-S1-15-1-2-2-1-2))-17-1-1}-B-9-3-1-B
38	ICMR 08222 X ICMR 1905}-B-18-3-2-B
39	{ICMR 09888 X IP 12181 S1-1-4-P2-1-2-B}-B-8-1-3-B
40	ICMR 13666 X [ICMR 12555 x ICMV 221 S1 - 366-1]-2-12-1}-B-4-4-3-B
41	{ICMR 13999 X ICMR 1905}-B-4-4-1-B
42	{MC 94 C2-S1-3-1-1-2-1-1-B-2-3-B X ICMR 1905}-B-13-1-3-B
43	([MRC S1-155-4-3-B-B-B-B-1-B-B x ICTP 8203 S1-55-3-1-1]-2-1-11) / (((MC 94 C2-S1-3-2-2-2-1-3-B-B x AIMP 92901 S1-488-2-1-1-4-B-B)-B-30-3-1-B x bulk (19280-19287/S-13)-7-1-1-1-1)-B-5-3-2-B-B-B
44	{MC 94 C2-S1-3-1-1-2-1-1-B-2-3-B X IP 13636 S1-14-2-2-1}-B-4-3-3-B-B-B
45	{ICMR 18777 X IP 4291 S1-13-1-1-1-B x IP 4291 S1-13-1-1-2-B}-B-10-1-3-B-B-B
46	{ICMR 08222 X AIMP 92901}-B-2-1-2-B-B
47	{ICMR 08222 X AIMP 92901}-B-7-3-1-B-B
48	{ICMR 13999 X IP 22489 S1-6-2-2-1}-B-12-2-3-B
49	**ICMR 1202 (Check)**
50	**ICMR 1503 (Check)**

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
1	DT-1	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-2-B	Shuttle Breeding
2	DT-2	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-9-B	Shuttle Breeding
3	DT-3	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-12-B	Shuttle Breeding
4	DT-4	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-16-B	Shuttle Breeding
5	DT-5	{IC-CAZ-F2/1-4-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-B	Shuttle Breeding
6	DT-6	{IC-CAZ-F2/1-4-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-4-B	Shuttle Breeding
7	DT-7	{IC-CAZ-F2/1-4-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-4-B	Shuttle Breeding
8	DT-8	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-12-B	Shuttle Breeding
9	DT-9	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-14-B	Shuttle Breeding
10	DT-10	{IC-CAZ-F2/1-4-3-1-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-13-B	Shuttle Breeding
11	DT-11	{IC-CAZ-F2/1-4-3-1-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-15-B	Shuttle Breeding
12	DT-12	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B	Shuttle Breeding
13	DT-13	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-2-B	Shuttle Breeding
14	DT-14	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-2-B	Shuttle Breeding
15	DT-15	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-2-B	Shuttle Breeding
16	DT-16	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-2-B	Shuttle Breeding
17	DT-17	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-4-B	Shuttle Breeding
18	DT-18	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B	Shuttle Breeding
19	DT-19	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B	Shuttle Breeding
20	**DT-20**	**H77/833-2**	**Check**
21	DT-21	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-15-B	Shuttle Breeding
22	DT-22	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-15-B	Shuttle Breeding
23	DT-23	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-17-B	Shuttle Breeding
24	DT-24	{IC-CAZ-F2/1-4-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-19-B	Shuttle Breeding

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
25	DT-25	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-12-B	Shuttle Breeding
26	DT-26	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-12-B	Shuttle Breeding
27	DT-27	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-12-B	Shuttle Breeding
28	DT-28	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-2-B	Shuttle Breeding
29	DT-29	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-2-B	Shuttle Breeding
30	DT-30	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-5-B	Shuttle Breeding
31	DT-31	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-5-B	Shuttle Breeding
32	DT-32	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-6-B	Shuttle Breeding
33	DT-33	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-13-B	Shuttle Breeding
34	DT-34	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-13-B	Shuttle Breeding
35	DT-35	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-15-B	Shuttle Breeding
36	DT-36	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-17-B	Shuttle Breeding
37	DT-37	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-1-B	Shuttle Breeding
38	DT-38	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-1-B	Shuttle Breeding
39	DT-39	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-6-B	Shuttle Breeding
40	**DT-40**	**843-22B**	**Check**
41	DT-41	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-10-B	Shuttle Breeding
42	DT-42	{IC-CAZ-F2/1-4-3-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-8-B	Shuttle Breeding
43	DT-43	{IC-CAZ-F2/1-4-3-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-8-B	Shuttle Breeding

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
44	DT-44	[IP 3999]-9-B	Shuttle Breeding
45	DT-45	[IP 4559]-1-B	Shuttle Breeding
46	DT-46	[IP 12423]-3-B	Shuttle Breeding
47	DT-47	[IP 12423]-17-B	Shuttle Breeding
48	DT-48	[IP 13520]-7-B	Shuttle Breeding
49	DT-49	[IP 18119]-8-B	Shuttle Breeding
50	DT-50	[IP 18143]-5-B	Shuttle Breeding
51	DT-51	[IP 18143]-8-B	Shuttle Breeding
52	DT-52	[IP 9347]-1-1-B-B-3-B	Shuttle Breeding
53	DT-53	[IP 9347]-1-1-B-B-4-B	Shuttle Breeding
54	DT-54	[IP 9347]-1-1-B-B-4-B	Shuttle Breeding
55	DT-55	[IP 18331]-1-1-B-B-1-B	Shuttle Breeding
56	DT-56	[IP 18331]-1-1-B-B-9-B	Shuttle Breeding
57	DT-57	[IP 18331]-1-1-B-B-17-B	Shuttle Breeding
58	DT-58	[IP 18331]-1-1-B-B-17-B	Shuttle Breeding
59	DT-59	[IP 3692]-1-3-B-B-9-B	Shuttle Breeding
60	**DT-60**	**PRLT**	**Check**
61	DT-61	(ICMB 97111 x PRLT 2/89-33)-1-4-1-111-B-B-B-B	Shuttle Breeding
62	DT-62	(ICMB 97111 x PRLT 2/89-33)-1-4-1-111-B-B-B-B	Shuttle Breeding
63	DT-63	(ICMB 92777 x PRLT 2/89-33)-3-2-1-111-B-B-B-B	Shuttle Breeding
64	DT-64	(ICMB 92777 x PRLT 2/89-33)-3-2-1-111-B-B-B-B	Shuttle Breeding
65	DT-65	(ICMB 92777 x PRLT 2/89-33)-3-2-1-111-B-B-B-B	Shuttle Breeding
66	DT-66	(PRLT 2/89-33 x RIB 3135/18)-3-2-2-111-B-B-B-B	Shuttle Breeding
67	DT-67	(PRLT 2/89-33 x RIB 3135/18)-3-2-2-111-B-B-B-B	Shuttle Breeding
68	DT-68	(PRLT 2/89-33 x RIB 3135/18)-3-3-1-111-B-B5-B	Shuttle Breeding
69	DT-69	(PRLT 2/89-33 x RIB 3135/18)-3-3-1-111-B-B5-B	Shuttle Breeding
70	DT-70	(PRLT 2/89-33 x RIB 3135/18)-4-4-1-111-B-B-B20-B	Shuttle Breeding
71	DT-71	((EERC-HS-23)-3-1-4 x PRLT 2/89-33)-2-2-1-111-B-B-B-B	Shuttle Breeding
72	DT-72	((EERC-HS-23)-3-1-4 x PRLT 2/89-33)-2-2-1-111-B-B-B-B	Shuttle Breeding
73	DT-73	((EERC-HS-23)-3-1-4 x PRLT 2/89-33)-5-5-1-111-B-B-B	Shuttle Breeding
74	DT-74	((EERC-HS-23)-3-1-4 x PRLT 2/89-33)-5-5-1-111-B-B-B	Shuttle Breeding
75	DT-75	RIB 3135 /18	Shuttle Breeding
76	DT-76	RIB 3135 /18	Shuttle Breeding
77	DT-77	((EERC-HS-8)-B-5-1-1-1 x PRLT 2/89-33)-4-4-1-111-B-B-B-B	Shuttle Breeding
78	DT-78	((EERC-HS-8)-B-5-1-1-1 x PRLT 2/89-33)-4-4-1-111-B-B-B-B	Shuttle Breeding
79	DT-79	(PRLT 2/89-33 x MRC S1-155-4-3-B-B-B-B-1-B-B-1)-4-3-1-111-B-B-B20-B	Shuttle Breeding
80	**DT-80**	**ICMB 04999**	**Check**
81	DT-81	(PRLT 2/89-33 x RIB 3135/18)-3-2-1-B-CAZRI/K19:1-B	Shuttle Breeding
82	DT-82	(PRLT 2/89-33 x RIB 3135/18)-3-2-1-B-CAZRI/K19:1-B	Shuttle Breeding
83	DT-83	(PRLT 2/89-33 x MRC HS-170-3-5-2-B-B-2-B-B-B-1)-2-4-2-B-CAZRI/K19:1-B	Shuttle Breeding

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
84	DT-84	(PRLT 2/89-33 x MRC HS-170-3-5-2-B-B-2-B-B-B-1)-3-3-1-B-CAZRI/K19:1-B	Shuttle Breeding
85	DT-85	(PRLT 2/89-33 x MRC HS-170-3-5-2-B-B-2-B-B-B-1)-3-3-1-B-CAZRI/K19:1-B	Shuttle Breeding
86	DT-86	(MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-B-CAZRI/K19:1-B	Shuttle Breeding
87	DT-87	(MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-B-CAZRI/K19:2-B	Shuttle Breeding
88	DT-88	((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-4-3-1-B-CAZRI/K19:1-B	Shuttle Breeding
89	DT-89	((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-4-3-1-B-CAZRI/K19:1-B	Shuttle Breeding
90	DT-90	[IP 276]-1-4-B-B-6-B-B	S7 Drought
91	DT-91	[IP 551]-1-2-B-B-7-B-B	S7 Drought
92	DT-92	[IP 551]-1-2-B-B-8-B-B	S7 Drought
93	DT-93	[IP 551]-1-2-B-B-20-B-B	S7 Drought
94	DT-94	[IP 8210]-1-1-B-B-5-B-B	S7 Drought
95	DT-95	[IP 8210]-1-1-B-B-7-B-B	S7 Drought
96	DT-96	[IP 8210]-1-1-B-B-11-B-B	S7 Drought
97	DT-97	[IP 8210]-1-1-B-B-16-B-B	S7 Drought
98	DT-98	[IP 9347]-1-1-B-B-1-B-B	S7 Drought
99	DT-99	[IP 9347]-1-1-B-B-2-B-B	S7 Drought
100	**DT-100**	**ICMR 14888**	**Check**
101	DT-101	[IP 9347]-1-1-B-B-3-B-B	S7 Drought
102	DT-102	[IP 9347]-1-1-B-B-4-B-B	S7 Drought
103	DT-103	[IP 9347]-1-1-B-B-7-B-B	S7 Drought
104	DT-104	[IP 18331]-1-1-B-B-8-B-B	S7 Drought
105	DT-105	[IP 18331]-1-1-B-B-14-B-B	S7 Drought
106	DT-106	[IP 18331]-1-1-B-B-15-B-B	S7 Drought
107	DT-107	[IP 18331]-1-1-B-B-22-B-B	S7 Drought
108	DT-108	[IP 3692]-1-3-B-B-4-B-B	S7 Drought
109	DT-109	[IP 3692]-1-3-B-B-6-B-B	S7 Drought
110	DT-110	[DTRC-K2018-HS-18/1]-2-3-B	Advanced Nurseries
111	DT-111	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-1-1-2-B	Advanced Nurseries
112	DT-112	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-64-1-4-B	Advanced Nurseries
113	DT-113	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-12-2-1-B	Advanced Nurseries
114	DT-114	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-28-2-3-B	Advanced Nurseries
115	DT-115	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-2-3-2-B	Advanced Nurseries
116	DT-116	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-17-1-2-B	Advanced Nurseries
117	DT-117	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-7-2-4-B	Advanced Nurseries
118	DT-118	(([[(MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-12-2-4-B	Advanced Nurseries

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
119	DT-119	(([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-17-1-1-B	Advanced Nurseries
120	**DT-120**	**PRLT**	**Check**
121	DT-121	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-28-2-2-B	Advanced Nurseries
122	DT-122	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-79-3-2-B	Advanced Nurseries
123	DT-123	{ICMR 14888 X (MRC S1-155-4-3-B-B-B-B-1-B-B X PRLT 2/89-33)-P1893-3-B}-B-35-2-2-B	Advanced Nurseries
124	DT-124	{ICMR 14888 X ((MRC S1-4-1-3-B-B-B-1x(20275-20291))-2-4-6-4 X PRLT 2/89-33)-P2399-3-B}-B-54-1-2-B-B-B	Advanced Nurseries
125	DT-125	(([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-17-2-3-B-B-B	Advanced Nurseries
126	DT-126	(([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-17-1-2-B-B-B	Advanced Nurseries
127	DT-127	(([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-9-1-2-B-B-B	Advanced Nurseries
128	DT-128	{ICMR 12555 X ((EERC-HS-8)-B-5-1-1-1 X PRLT 2/89-33)-P1698-2-B}-B-28-2-2-B-B-B	Advanced Nurseries
129	DT-129	(([((MC 94 S1-34-1-B x HHVBC)-16-2-1) × (IP 19626-4-2-3)]-B-2-2-1-3-1xMS group R-line bulk (20216-20249))-1-2-1-8-1 x (EERC-HS-6)-B-4-2-3-3-B)-B-13-5-2-B-B-B	Advanced Nurseries
130	DT-130	{ICMR 15222 X ((EERC-HS-6)-B-12-1-1-3-B X PRLT 2/89-33)-P2287-3-B}-B-16-2-3-B-B-B	Advanced Nurseries
131	DT-131	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-2-1	F5 Drought Tolerant
132	DT-132	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-2-2	F5 Drought Tolerant
133	DT-133	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-2-3	F5 Drought Tolerant
134	DT-134	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-2-4	F5 Drought Tolerant
135	DT-135	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-10-1-1	F5 Drought Tolerant
136	DT-136	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-10-1-2	F5 Drought Tolerant
137	DT-137	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-1-5-1	F5 Drought Tolerant
138	DT-138	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-1-5-2	F5 Drought Tolerant
139	DT-139	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-3-2-1	F5 Drought Tolerant
140	**DT-140**	**ICMB 04999**	**Check**

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
141	DT-141	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-3-2-2	F5 Drought Tolerant
142	DT-142	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-1-4-1	F5 Drought Tolerant
143	DT-143	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-1-4-2	F5 Drought Tolerant
144	DT-144	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-15-3-3	F5 Drought Tolerant
145	DT-145	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-15-3-4	F5 Drought Tolerant
146	DT-146	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-3-2-2	F5 Drought Tolerant
147	DT-147	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-3-2-3	F5 Drought Tolerant
148	DT-148	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-10-1-1	F5 Drought Tolerant
149	DT-149	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-10-1-2	F5 Drought Tolerant
150	DT-150	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-3-2-1	F5 Drought Tolerant
151	DT-151	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-3-2-2	F5 Drought Tolerant
152	DT-152	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-3-3-1	F5 Drought Tolerant
153	DT-153	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-3-3-2	F5 Drought Tolerant
154	DT-154	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-2-B-1	F5 Drought Tolerant
155	DT-155	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-2-B-2	F5 Drought Tolerant
156	DT-156	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-15-B-1	F5 Drought Tolerant
157	DT-157	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-15-B-2	F5 Drought Tolerant
158	DT-158	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-4-B-1	F5 Drought Tolerant
159	DT-159	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-4-B-2	F5 Drought Tolerant
160	**DT-160**	**ICMR 14888**	**Check**
161	DT-161	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-9-B-1	F5 Drought Tolerant

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
162	DT-162	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // ((EERC-HS-6)-B-12-1-1-3-B x PRLT 2/89-33)-1-2-1-B-CAZRI/K19:2-B}-B-9-B-2	F5 Drought Tolerant
163	DT-163	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-10-B-1	F5 Drought Tolerant
164	DT-164	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-10-B-2	F5 Drought Tolerant
165	DT-165	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-14-B-1	F5 Drought Tolerant
166	DT-166	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-14-B-2	F5 Drought Tolerant
167	DT-167	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-13-B-1	F5 Drought Tolerant
168	DT-168	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-13-B-2	F5 Drought Tolerant
169	DT-169	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [AIMP 92901 S1-15-1-2-3-B-2-B-13-3-1 x ICMR 12555]-SB-6-1-1-1-B}-B-13-B-3	F5 Drought Tolerant
170	DT-170	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B-1	F5 Drought Tolerant
171	DT-171	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B-2	F5 Drought Tolerant
172	DT-172	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-10-B-1	F5 Drought Tolerant
173	DT-173	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-10-B-2	F5 Drought Tolerant
174	DT-174	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B-1	F5 Drought Tolerant
175	DT-175	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B-2	F5 Drought Tolerant
176	DT-176	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-9-B-3	F5 Drought Tolerant
177	DT-177	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-4-B-1	F5 Drought Tolerant
178	DT-178	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-4-B-2	F5 Drought Tolerant
179	DT-179	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-14-B-1	F5 Drought Tolerant
180	**DT-180**	**843-22B**	**Check**
181	DT-181	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [ICMR 12555 x (EERC-HS-23)-31-1-2]-SB--6-1-1-1-B}-B-14-B-2	F5 Drought Tolerant

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
182	DT-182	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-2-B-1	F5 Drought Tolerant
183	DT-183	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-2-B-2	F5 Drought Tolerant
184	DT-184	{[ICMR 12555 x ICMV 221 S1-366-1]-B-2-7-6-1-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-2-B-3	F5 Drought Tolerant
185	DT-185	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-15-B-1	F5 Drought Tolerant
186	DT-186	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-15-B-2	F5 Drought Tolerant
187	DT-187	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-15-B-3	F5 Drought Tolerant
188	DT-188	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-3-4-1	F5 Drought Tolerant
189	DT-189	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-3-4-2	F5 Drought Tolerant
190	DT-190	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-7-4-1	F5 Drought Tolerant
191	DT-191	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-7-4-2	F5 Drought Tolerant
192	DT-192	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-15-4-1	F5 Drought Tolerant
193	DT-193	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-15-4-2	F5 Drought Tolerant
194	DT-194	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-3-1	F5 Drought Tolerant
195	DT-195	{[ICMS 8511 S1-17-2-1-1-4-1-B-3-2-3-2-B-1-1-27-3 x ICMV 221 S1-366-1]-B-7-1-3-1-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-3-2	F5 Drought Tolerant
196	DT-196	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-8-1-1	F5 Drought Tolerant
197	DT-197	{[ICTP 8203 S1-84-12-1-1 x [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B]-B-3-4-6-3-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-8-1-2	F5 Drought Tolerant
198	DT-198	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-2-1	F5 Drought Tolerant
199	DT-199	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-2-2-2	F5 Drought Tolerant
200	**DT-200**	**H77/833-2**	**Check**

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
201	DT-201	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-10-3-1	F5 Drought Tolerant
202	DT-202	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // [(MRC HS-86-1-1-5-B-B-B-B-B x MRC S1-9-2-2-B-B-2-B-B)-10 x ICMV 221 S1-123-P1]-SB-3-3-2-1-B}-B-10-3-2	F5 Drought Tolerant
203	DT-203	{MRC S1-155-4-3-B-B-B-B-1-B-B-B-B-B-B // (MRC S1-155-4-3-B-B-B-B-1-B-B x PRLT 2/89-33)-1-3-1-111-B-B-B-B}-B-10-5-4	F5 Drought Tolerant
204	DT-204	IP 3681-3-1-1	S3 Drought
205	DT-205	IP 3681-3-1-2	S3 Drought
206	DT-206	IP 3681-3-1-3	S3 Drought
207	DT-207	IP 3681-6-4-1	S3 Drought
208	DT-208	IP 3681-6-4-2	S3 Drought
209	DT-209	IP 3681-6-4-3	S3 Drought
210	DT-210	IP 3681-8-1-1	S3 Drought
211	DT-211	IP 3681-8-1-2	S3 Drought
212	DT-212	IP 3681-8-2-1	S3 Drought
213	DT-213	IP 3681-8-2-2	S3 Drought
214	DT-214	IP 3681-8-2-3	S3 Drought
215	DT-215	IP 3681-10-1-1	S3 Drought
216	DT-216	IP 3681-10-1-2	S3 Drought
217	DT-217	IP 3681-10-1-3	S3 Drought
218	DT-218	IP 3681-10-1-4	S3 Drought
219	DT-219	IP 3681-10-4-1	S3 Drought
220	**DT-220**	**843-22B**	**Check**
221	DT-221	IP 3681-10-4-2	S3 Drought
222	DT-222	IP 3681-10-4-3	S3 Drought
223	DT-223	IP 4559-17-1-1	S3 Drought
224	DT-224	IP 4559-17-1-3	S3 Drought
225	DT-225	IP 4559-17-1-4	S3 Drought
226	DT-226	IP 9546-3-2-3	S3 Drought
227	DT-227	IP 9546-3-4-2	S3 Drought
228	DT-228	IP 9546-5-1-2	S3 Drought
229	DT-229	IP 9546-5-3-1	S3 Drought
230	DT-230	IP 9546-5-3-2	S3 Drought
231	DT-231	IP 9546-5-3-3	S3 Drought
232	DT-232	IP 9546-5-4-1	S3 Drought
233	DT-233	IP 9546-5-4-2	S3 Drought
234	DT-234	IP 9546-5-4-3	S3 Drought
235	DT-235	IP 9546-5-4-4	S3 Drought
236	DT-236	IP 9546-5-4-5	S3 Drought
237	DT-237	IP 12423-1-5-1	S3 Drought
238	DT-238	IP 12423-1-5-2	S3 Drought

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
239	DT-239	IP 12423-1-5-3	S3 Drought
240	**DT-240**	**H77/833-2**	**Check**
241	DT-241	IP 12423-1-5-4	S3 Drought
242	DT-242	IP 12423-1-8-1	S3 Drought
243	DT-243	IP 12423-1-8-2	S3 Drought
244	DT-244	IP 12423-1-8-3	S3 Drought
245	DT-245	IP 12423-5-7-3	S3 Drought
246	DT-246	IP 12423-5-7-4	S3 Drought
247	DT-247	IP 12423-12-1-1	S3 Drought
248	DT-248	IP 12423-12-1-2	S3 Drought
249	DT-249	IP 12423-12-1-3	S3 Drought
250	DT-250	IP 12424-1-4-1	S3 Drought
251	DT-251	IP 12424-1-4-2	S3 Drought
252	DT-252	IP 12424-1-4-3	S3 Drought
253	DT-253	IP 12424-5-1-3	S3 Drought
254	DT-254	IP 13520-7-2-3	S3 Drought
255	DT-255	IP 18344-5-3-1	S3 Drought
256	DT-256	IP 18344-5-3-2	S3 Drought
257	DT-257	IP 18344-5-3-3	S3 Drought
258	DT-258	IP 18344-7-1-1	S3 Drought
259	DT-259	IP 18344-7-1-2	S3 Drought
260	**DT-260**	**ICMB 04999**	**Check**
261	DT-261	IP 1006-1-1	S2 Drought
262	DT-262	IP 1006-1-2	S2 Drought
263	DT-263	IP 1006-1-3	S2 Drought
264	DT-264	IP 18323-2-1	S2 Drought
265	DT-265	IP 18323-2-2	S2 Drought
266	DT-266	IP 18323-2-3	S2 Drought
267	DT-267	IP 18325-2-1	S2 Drought
268	DT-268	IP 18325-2-2	S2 Drought
269	DT-269	IP 18329-1-1	S2 Drought
270	DT-270	IP 18329-1-2	S2 Drought
271	DT-271	IP 18329-1-3	S2 Drought
272	DT-272	IP 18331-1-1	S2 Drought
273	DT-273	IP 18331-1-2	S2 Drought
274	DT-274	IP 18331-2-1	S2 Drought
275	DT-275	IP 18331-2-2	S2 Drought
276	DT-276	IP 18331-2-3	S2 Drought
277	DT-277	IP 18333-1-1	S2 Drought
278	DT-278	IP 18333-1-2	S2 Drought

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
279	DT-279	IP 18333-1-3	S2 Drought
280	**DT-280**	**PRLT**	**Check**
281	DT-281	IP 18335-2-1	S2 Drought
282	DT-282	IP 18335-2-2	S2 Drought
283	DT-283	IP 18335-2-3	S2 Drought
284	DT-284	IP 18335-2-4	S2 Drought
285	DT-285	IP 18341-1-1	S2 Drought
286	DT-286	IP 18342-2-1	S2 Drought
287	DT-287	IP 18342-2-2	S2 Drought
288	DT-288	IP 18342-2-3	S2 Drought
289	DT-289	IP 18342-2-4	S2 Drought
290	DT-290	IP 18343-1-1	S2 Drought
291	DT-291	IP 18343-1-2	S2 Drought
292	DT-292	IP 18344-3-1	S2 Drought
293	DT-293	IP 18344-3-2	S2 Drought
294	DT-294	IP 18344-3-3	S2 Drought
295	DT-295	IP 20112-2-1	S2 Drought
296	DT-296	IP 20112-2-2	S2 Drought
297	DT-297	IP 20112-2-3	S2 Drought
298	DT-298	IP 20116-1-1	S2 Drought
299	DT-299	IP 20116-1-2	S2 Drought
300	**DT-300**	**ICMR 14888**	**Check**
301	DT-301	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
302	DT-302	[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1x[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
303	DT-303	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
304	DT-304	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
305	DT-305	[DTRC-K2018-HS-11/1]-3-1-Bx[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
306	DT-306	[DTRC-K2018-HS-287/1]-3-1-Bx[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
307	DT-307	IC-CAZ-F2/1-5-1-1-Bx[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
308	DT-308	IC-CAZ-F2/15-17-2-1-Bx[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
309	DT-309	IC-CAZ-F2/28-2-2-1-Bx[IC-CAZ-F2/17-1-2-1-B]-B-B	F3 Drought Tolerant
310	DT-310	IC-CAZ-F2/17-1-2-1-Bx[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant
311	DT-311	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant
312	DT-312	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
313	DT-313	[DTRC-K2018-HS-287/1]-3-1-Bx[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant
314	DT-314	IC-CAZ-F2/1-5-1-1-Bx[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant
315	DT-315	IC-CAZ-F2/15-17-2-1-Bx[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant
316	DT-316	IC-CAZ-F2/28-2-2-1-Bx[[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3]-B-B	F3 Drought Tolerant
317	DT-317	IC-CAZ-F2/17-1-2-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
318	DT-318	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
319	DT-319	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
320	**DT-320**	**H77/833-2**	**Check**
321	DT-321	[DTRC-K2018-HS-11/1]-3-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
322	DT-322	[DTRC-K2018-HS-287/1]-3-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
323	DT-323	IC-CAZ-F2/1-5-1-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
324	DT-324	IC-CAZ-F2/15-17-2-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
325	DT-325	IC-CAZ-F2/28-2-2-1-Bx[[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1]-B-B	F3 Drought Tolerant
326	DT-326	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
327	DT-327	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
328	DT-328	[DTRC-K2018-HS-11/1]-3-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
329	DT-329	[DTRC-K2018-HS-18/3]-1-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
330	DT-330	[DTRC-K2018-HS-287/1]-3-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
331	DT-331	IC-CAZ-F2/1-5-1-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
332	DT-332	IC-CAZ-F2/15-17-2-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
333	DT-333	IC-CAZ-F2/28-2-2-1-Bx[[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2]-B-B	F3 Drought Tolerant
334	DT-334	IC-CAZ-F2/17-1-2-1-Bx[[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-B]-B-B	F3 Drought Tolerant
335	DT-335	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-B]-B-B	F3 Drought Tolerant
336	DT-336	[DTRC-K2018-HS-287/1]-3-1-Bx[[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-B]-B-B	F3 Drought Tolerant

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
337	DT-337	IC-CAZ-F2/1-5-1-1-Bx[[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-B]-B-B	F3 Drought Tolerant
338	DT-338	IC-CAZ-F2/28-2-2-1-Bx[[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-B]-B-B	F3 Drought Tolerant
339	DT-339	IC-CAZ-F2/17-1-2-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
340	**DT-340**	**843-22B**	**Check**
341	DT-341	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
342	DT-342	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
343	DT-343	[DTRC-K2018-HS-18/3]-1-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
344	DT-344	[DTRC-K2018-HS-287/1]-3-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
345	DT-345	IC-CAZ-F2/1-5-1-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
346	DT-346	IC-CAZ-F2/15-17-2-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
347	DT-347	IC-CAZ-F2/28-2-2-1-Bx[[DTRC-K2018-HS-11/1]-3-1-B]-B-B	F3 Drought Tolerant
348	DT-348	IC-CAZ-F2/17-1-2-1-Bx[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
349	DT-349	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
350	DT-350	[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1x[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
351	DT-351	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
352	DT-352	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
353	DT-353	[DTRC-K2018-HS-11/1]-3-1-Bx[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
354	DT-354	[DTRC-K2018-HS-287/1]-3-1-Bx[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
355	DT-355	IC-CAZ-F2/1-5-1-1-Bx[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
356	DT-356	IC-CAZ-F2/15-17-2-1-Bx[[DTRC-K2018-HS-18/3]-1-1-B]-B-B	F3 Drought Tolerant
357	DT-357	IC-CAZ-F2/17-1-2-1-Bx[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
358	DT-358	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
359	DT-359	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
360	**DT-360**	**PRLT**	**Check**
361	DT-361	[(EERC-HS-23)-31-1-2 x ICMR 12555]-SB-12-2-2-1-Bx[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
362	DT-362	[DTRC-K2018-HS-11/1]-3-1-Bx[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
363	DT-363	[DTRC-K2018-HS-18/3]-1-1-Bx[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
364	DT-364	IC-CAZ-F2/1-5-1-1-Bx[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
365	DT-365	IC-CAZ-F2/15-17-2-1-Bx[[DTRC-K2018-HS-287/1]-3-1-B]-B-B	F3 Drought Tolerant
366	DT-366	IC-CAZ-F2/17-1-2-1-Bx[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
367	DT-367	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
368	DT-368	[([(HPB-(40258/S14) F3-77-5-3 X (EERC-HS-23)-31-1-2)]-B-6-1x[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
369	DT-369	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant

Table 8: Drought Tolerant Screening Restorer Nursery (Shuttle Breeding)) *kharif* - 2025			
E. no.	Code	**Pedigree**	**Generations**
370	DT-370	[DTRC-K2018-HS-11/1]-3-1-Bx[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
371	DT-371	[DTRC-K2018-HS-18/3]-1-1-Bx[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
372	DT-372	[DTRC-K2018-HS-287/1]-3-1-Bx[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
373	DT-373	IC-CAZ-F2/15-17-2-1-Bx[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
374	DT-374	IC-CAZ-F2/28-2-2-1-Bx[IC-CAZ-F2/1-5-1-1-B]-B-B	F3 Drought Tolerant
375	DT-375	IC-CAZ-F2/17-1-2-1-Bx[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
376	DT-376	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
377	DT-377	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
378	DT-378	[DTRC-K2018-HS-11/1]-3-1-Bx[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
379	DT-379	[DTRC-K2018-HS-287/1]-3-1-Bx[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
380	**DT-380**	**ICMB 04999**	**Check**
381	DT-381	IC-CAZ-F2/1-5-1-1-Bx[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
382	DT-382	IC-CAZ-F2/28-2-2-1-Bx[IC-CAZ-F2/15-17-2-1-B]-B-B	F3 Drought Tolerant
383	DT-383	[([(HPB-(40258/S14) F3-77-4-2 X (EERC-HS-23)-B-25-1-1-2-B-B)]-B-11-3x[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
384	DT-384	[([(HPB-(40258/S14) F3-77-1-2 X [ICMV 96490-S1-15-1-4-3-1 X MRC HS-130-2-2-1-B-B-3-B-B-B-1-3-1]-98-2-B)]-B-7-2x[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
385	DT-385	[DTRC-K2018-HS-11/1]-3-1-Bx[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
386	DT-386	[DTRC-K2018-HS-18/3]-1-1-Bx[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
387	DT-387	[DTRC-K2018-HS-287/1]-3-1-Bx[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
388	DT-388	IC-CAZ-F2/1-5-1-1-Bx[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
389	DT-389	IC-CAZ-F2/15-17-2-1-Bx[IC-CAZ-F2/28-2-2-1-B]-B-B	F3 Drought Tolerant
390	**DT-390**	**ICMR 14888**	**Check**

Table 9: Potential B-line nursery, across three locations- Jamnagar, Jaipur and Hissar. (for Pedigree of entries see table 2).

Plot size: 1 row x 4 m x 2 reps.

E.	JMR								JPR								HSR								Grand Mean							
no.	DF	PH	HL	HD	ETP_R	SG	BS	AS	DF	PH	HL	HD	ETP_R	SG	BS	AS	DF	PH	HL	HD	ETP_R	SG	BS	AS	DF	PH	HL	HD	ETP_R	SG	BS	AS
1	58	145	22	2.6	2.9	2.0	2.0	3.5	60	124	16	2.9	3.0	2.5	4.5	3.5	70	125	20	2.3	2.5	3.0	1.0	3.5	62	131	19	2.6	2.8	2.5	2.5	3.5
2	62	166	19	3.1	3.1	2.0	1.0	3.0	68	125	15	3.3	3.2	3.0	3.0	3.5	51	140	17	2.8	2.2	3.0	1.5	2.3	60	143	17	3.1	2.8	2.7	1.8	2.9
3	54	130	21	3.0	3.8	2.5	1.5	3.5	70	107	16	2.7	5.5	3.0	2.5	3.0	69	128	18	2.8	2.5	3.0	1.0	2.3	64	122	18	2.8	3.9	2.8	1.7	2.9
4	67	136	20	3.4	2.6	3.0	1.0	3.0	72	109	19	3.4	4.3	3.0	1.5	3.0	76	102	15	2.7	2.2	3.0	2.0	2.3	72	116	18	3.2	3.0	3.0	1.5	2.8
5	61	156	22	3.2	2.2	3.0	2.5	3.5	72	137	18	2.7	1.0	3.0	4.0	3.5	74	133	20	2.9	2.0	3.0	1.5	2.3	69	142	20	2.9	1.7	3.0	2.7	3.1
6	55	126	21	2.6	2.0	1.5	4.5	2.0	68	119	19	2.8	2.0	2.0	4.5	3.0	70	93	19	2.5	2.8	3.0	1.5	2.3	64	113	19	2.6	2.3	2.2	3.5	2.4
7	66	122	24	3.3	2.6	2.5	2.0	2.5	72	108	18	2.9	1.7	3.0	3.0	3.5	79	135	22	2.9	2.7	3.0	-	3.5	72	122	21	3.0	2.3	2.8	2.5	3.2
8	58	139	24	2.9	2.4	2.0	4.0	3.0	61	126	22	3.0	1.2	2.5	5.0	3.5	70	103	14	2.4	2.5	3.0	2.0	2.3	63	122	20	2.7	2.0	2.5	3.7	2.9
9	58	110	19	2.9	2.6	2.0	2.0	2.0	60	92	18	3.5	1.8	2.0	5.5	2.0	69	103	17	2.8	2.7	3.0	2.0	2.3	62	102	18	3.1	2.4	2.3	3.2	2.1
10	53	126	24	2.9	2.9	2.0	3.5	2.5	56	123	22	2.5	4.5	2.5	5.0	3.5	60	140	22	2.7	3.0	3.0	2.0	3.5	56	130	23	2.7	3.5	2.5	3.5	3.2
11	52	126	25	3.5	2.4	1.5	6.5	2.5	60	102	20	2.7	1.0	2.0	4.0	3.0	53	105	16	2.7	2.3	3.0	2.0	2.0	55	111	20	2.9	1.9	2.2	4.2	2.5
12	54	120	21	3.7	2.4	1.0	4.0	2.5	59	111	17	3.2	2.3	2.0	3.5	3.0	54	121	19	3.2	2.5	3.0	2.0	2.8	55	117	19	3.3	2.4	2.0	3.2	2.8
13	60	149	25	3.4	2.4	1.0	5.0	3.0	73	128	22	3.6	2.3	2.5	6.5	4.0	70	141	20	2.8	2.3	3.0	2.0	3.8	68	139	22	3.3	2.3	2.2	4.5	3.6
14	52	165	21	3.7	2.0	2.0	1.5	2.5	52	146	18	2.8	2.8	2.0	3.0	3.0	55	174	21	3.3	2.5	3.0	1.5	2.0	53	162	20	3.3	2.4	2.3	2.0	2.5
15	64	104	22	2.8	2.4	2.5	1.5	3.0	68	101	20	3.1	1.0	2.5	2.5	3.0	70	126	21	2.9	2.5	3.0	1.0	3.3	67	110	21	2.9	2.0	2.7	1.7	3.1
16	55	110	24	2.9	2.4	2.0	3.0	3.0	52	100	20	3.0	2.3	2.5	6.0	3.0	61	105	13	2.3	2.5	3.0	1.0	2.3	56	105	19	2.7	2.4	2.5	3.3	2.8
17	50	130	22	2.9	2.7	1.0	5.0	2.5	57	96	16	2.5	1.7	2.0	6.5	3.0	55	133	22	2.8	2.0	3.0	1.5	3.3	54	119	20	2.8	2.1	2.0	4.3	2.9
18	56	106	19	2.8	1.5	2.0	3.5	2.0	57	103	19	2.6	1.5	2.5	2.5	3.0	76	96	13	2.4	2.5	3.0	1.0	2.0	63	102	17	2.6	1.8	2.5	2.3	2.3
19	58	123	21	3.5	2.4	2.0	3.0	3.0	62	96	18	3.9	2.6	2.5	6.0	4.0	76	151	18	3.1	2.3	3.0	2.0	2.0	65	123	19	3.5	2.4	2.5	3.7	3.0
20	58	118	19	3.8	2.4	2.0	3.0	3.0	67	88	16	3.2	3.3	2.5	2.5	3.0	71	104	16	2.8	2.3	3.0	1.0	2.0	65	103	17	3.3	2.7	2.5	2.2	2.7
21	68	115	20	2.8	3.3	3.0	2.0	2.0	70	98	20	2.3	2.8	2.5	2.0	3.0	79	114	18	2.6	2.3	3.0	1.5	2.8	72	109	19	2.6	2.8	2.8	1.8	2.6
22	62	100	21	2.2	1.9	1.0	7.0	2.5	64	97	20	2.3	1.8	2.0	3.5	3.0	74	118	18	2.7	2.5	3.0	2.0	2.3	66	105	19	2.4	2.1	2.0	4.2	2.6
23	62	147	18	3.5	2.0	3.0	1.0	3.0	66	116	16	2.9	1.8	2.5	4.5	3.0	80	129	17	2.6	2.5	3.0	1.0	3.3	69	131	17	3.0	2.1	2.8	2.2	3.1
24	59	147	22	3.7	2.4	2.5	1.5	3.0	63	115	17	3.6	2.0	2.5	4.0	3.5	71	120	18	3.2	2.3	3.0	1.0	3.8	64	127	19	3.5	2.2	2.7	2.2	3.4
25	50	89	17	3.2	2.4	1.0	5.5	3.0	53	77	18	2.8	3.0	2.0	5.5	3.0	54	120	18	2.7	2.2	3.0	-	3.8	52	96	18	2.9	2.5	2.0	5.5	3.3
26	63	128	18	3.2	2.4	2.0	3.0	3.0	69	102	16	3.1	2.5	2.5	3.0	3.5	77	119	10	2.5	2.7	3.0	2.0	2.3	69	116	15	2.9	2.5	2.5	2.7	2.9
27	51	135	25	3.0	1.8	2.0	3.0	2.5	53	112	22	2.5	1.2	2.0	2.5	3.0	51	129	23	2.8	2.5	3.0	1.5	2.3	52	125	23	2.8	1.8	2.3	2.3	2.6
28	60	138	20	2.8	2.2	1.5	4.5	3.0	70	118	20	3.1	4.3	3.0	3.5	4.5	77	135	16	2.4	2.2	3.0	1.0	3.3	69	130	19	2.8	2.9	2.5	3.0	3.6
29	60	154	16	2.7	2.4	2.0	3.0	3.0	70	122	13	2.1	2.2	3.0	5.5	2.5	71	173	15	2.5	2.2	3.0	-	2.3	67	150	15	2.4	2.2	2.7	4.3	2.6
30	61	120	23	3.3	2.4	2.0	2.0	2.5	66	111	18	3.2	2.2	2.5	4.0	3.5	74	110	13	2.4	2.8	3.0	2.0	2.3	67	114	18	3.0	2.5	2.5	2.7	2.8

Table 9: Potential B-line nursery, across three locations- Jamnagar, Jaipur and Hissar. (for Pedigree of entries see table 2).

Plot size: 1 row x 4 m x 2 reps.

E.	JMR								JPR								HSR								Grand Mean							
no.	DF	PH	HL	HD	ETP R	SG	BS	AS	DF	PH	HL	HD	ETP R	SG	BS	AS	DF	PH	HL	HD	ETP R	SG	BS	AS	DF	PH	HL	HD	ETP R	SG	BS	AS
31	55	127	26	3.6	1.5	2.5	1.5	3.0	58	115	19	2.9	3.3	3.0	3.0	3.5	59	134	21	2.7	2.0	3.0	1.0	2.5	57	125	22	3.1	2.3	2.8	1.8	3.0
32	54	164	21	2.7	1.4	2.5	1.0	3.0	61	134	15	2.5	2.0	2.0	2.5	3.0	68	135	19	2.6	2.7	3.0	2.0	3.8	61	144	18	2.6	2.0	2.5	1.8	3.3
33	66	130	20	3.5	2.4	2.0	2.5	4.0	76	99	17	2.6	1.2	3.0	2.0	3.0	70	92	12	2.6	2.2	3.0	1.0	2.5	70	107	16	2.9	1.9	2.7	1.8	3.2
34	59	150	22	3.0	2.4	1.0	5.0	3.0	67	110	14	2.5	1.7	2.5	2.0	3.0	67	138	21	2.6	2.7	3.0	2.0	2.5	64	133	19	2.7	2.2	2.2	3.0	2.8
35	61	160	22	3.0	2.4	2.0	3.5	2.0	59	147	20	3.3	2.2	2.0	2.5	3.0	72	103	21	2.7	2.5	3.0	1.5	2.5	64	137	21	3.0	2.4	2.3	2.5	2.5
36	53	117	20	3.4	2.6	2.0	3.0	3.0	59	93	17	3.0	2.3	2.0	5.5	3.0	58	115	21	2.9	2.0	3.0	1.5	2.5	56	108	20	3.1	2.3	2.3	3.3	2.8
37	53	77	21	3.1	2.6	1.0	6.0	1.0	57	68	17	2.9	1.0	2.0	5.0	2.5	55	86	15	2.5	2.7	3.0	2.0	2.3	55	77	18	2.8	2.1	2.0	4.3	1.9
38	51	103	18	3.3	2.0	1.0	7.5	2.0	47	106	20	2.9	1.7	1.5	5.0	2.5	62	122	16	2.5	2.3	3.0	1.0	2.8	53	110	18	2.9	2.0	1.8	4.5	2.4
39	68	149	31	2.8	2.8	3.0	-	2.5	75	103	19	2.9	1.7	3.0	1.5	3.0	83	116	15	2.5	2.8	3.0	1.0	2.5	75	123	22	2.7	2.4	3.0	1.3	2.7
40	58	116	25	3.1	2.6	2.0	2.0	3.0	64	95	20	3.3	2.2	2.0	2.0	2.5	68	101	20	2.8	2.7	3.0	1.0	2.5	63	104	22	3.0	2.5	2.3	1.7	2.7
41	57	146	22	2.3	3.4	2.5	1.0	3.5	64	119	16	2.4	2.0	2.5	3.5	3.0	71	139	21	2.1	2.3	3.0	1.0	2.8	64	135	19	2.2	2.6	2.7	1.8	3.1
42	57	114	22	3.1	2.4	2.0	4.0	2.0	67	108	17	2.8	1.7	2.0	3.5	3.5	71	105	14	2.7	2.5	3.0	1.0	2.5	65	109	18	2.9	2.2	2.3	2.8	2.7
43	66	122	20	3.4	2.6	2.5	3.5	2.5	72	82	15	2.4	2.3	3.0	2.0	2.5	-	-	-	-	-	-	-	-	69	102	18	2.9	2.5	2.8	2.8	2.5
44	71	118	18	3.6	2.6	3.0	2.0	2.5	77	113	18	3.5	2.0	3.0	1.5	3.0	-	-	-	-	-	-	-	-	74	116	18	3.5	2.3	3.0	1.8	2.8
45	58	155	22	2.5	2.6	1.5	4.5	3.0	59	103	16	2.3	2.0	3.0	6.5	3.5	76	113	17	2.4	2.3	3.0	2.0	2.5	64	124	18	2.4	2.3	2.5	4.3	3.0
46	59	143	19	3.1	2.4	1.5	3.0	3.0	67	108	13	2.4	2.2	3.0	3.0	3.5	65	123	20	3.0	2.7	3.0	1.0	3.5	64	125	17	2.8	2.4	2.5	2.3	3.3
47	59	139	13	3.0	2.6	2.0	4.0	2.5	71	102	15	3.1	1.0	3.0	6.5	2.5	78	118	15	2.8	2.3	3.0	2.0	2.8	69	119	14	3.0	2.0	2.7	4.2	2.6
48	56	123	22	3.4	2.4	2.0	3.5	2.0	69	114	17	3.3	2.7	2.5	4.5	2.5	68	128	19	2.8	2.0	3.0	1.5	3.8	64	122	19	3.1	2.4	2.5	3.2	2.8
49	60	94	21	2.9	2.4	1.5	4.5	2.0	56	89	20	2.9	2.8	2.0	5.0	3.0	73	95	15	2.7	2.0	3.0	-	2.8	63	93	19	2.8	2.4	2.2	4.8	2.6
50	62	120	23	3.5	2.4	1.5	5.0	2.5	64	95	21	3.0	1.5	2.5	5.5	3.0	78	100	16	3.1	2.3	3.0	1.0	2.5	68	105	20	3.2	2.1	2.3	3.8	2.7
51	61	135	25	3.3	2.4	1.0	7.5	3.0	69	96	21	2.4	1.0	1.5	4.5	3.5	77	125	16	2.9	2.3	3.0	1.5	2.8	69	119	20	2.9	1.9	1.8	4.5	3.1
52	61	119	26	3.2	2.4	2.0	3.0	3.0	71	104	23	2.6	1.5	3.0	2.5	3.0	74	104	18	2.8	2.3	3.0	2.0	2.5	69	109	22	2.9	2.1	2.7	2.5	2.8
53	53	123	19	2.9	2.4	2.0	1.5	3.0	61	110	18	3.2	2.5	2.5	4.5	4.0	68	113	15	2.5	2.8	3.0	2.0	2.8	60	115	17	2.9	2.6	2.5	2.7	3.3
54	57	154	27	3.3	2.6	2.0	4.5	3.0	67	111	19	3.3	1.7	3.0	5.0	4.0	71	134	16	2.7	2.3	3.0	2.0	2.5	65	133	21	3.1	2.2	2.7	3.8	3.2
55	61	138	23	3.5	2.0	1.5	5.0	3.0	71	105	19	2.9	2.3	3.0	3.0	3.5	76	129	13	2.8	2.3	3.0	2.0	2.5	69	124	18	3.0	2.2	2.5	3.3	3.0
56	53	148	19	3.2	2.6	2.0	3.5	2.5	58	112	13	2.8	1.0	2.5	3.5	3.0	68	124	15	2.6	2.5	3.0	2.0	2.8	60	128	16	2.8	2.0	2.5	3.0	2.8
57	51	142	21	2.9	2.3	1.0	7.5	2.5	56	132	18	2.7	1.2	1.5	4.0	3.0	59	135	20	2.9	2.2	3.0	2.0	2.8	55	136	20	2.8	1.9	1.8	4.5	2.8
58	57	123	23	2.8	3.4	2.0	3.0	3.0	61	128	15	3.0	1.7	2.0	4.5	2.5	66	150	22	2.7	2.7	3.0	1.0	3.8	61	134	20	2.9	2.6	2.3	2.8	3.1
59	52	115	17	3.4	2.0	2.0	2.5	3.0	55	104	16	2.7	2.7	1.0	6.5	3.0	66	120	17	2.7	3.0	3.0	2.0	3.3	58	113	17	2.9	2.6	2.0	3.7	3.1
60	62	129	25	3.5	2.7	2.0	3.0	3.0	67	114	21	3.3	2.0	3.0	2.5	3.0	71	114	20	3.0	2.3	3.0	2.0	2.5	66	119	22	3.2	2.3	2.7	2.5	2.8

Table10: Potential R-line nursery, across four locations- Jamnagar, Jaipur, Hisar and New Delhi. (for Pedigree of entries see table 3).

Plot size: 1 row x 4 m x 2 reps.

E. no.	JMR								JPR								HSR							
	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
1	NG	-	-	-	-	-	-	-	65	154	18	2.2	2.7	2.0	2.0	3.0	63	164	21	3.0	2.5	3.0	-	2.3
2	63	172	25	3.5	3.8	3.0	-	3.0	56	163	22	3.3	3.0	3.0	1.0	3.0	74	108	14	2.8	2.5	3.0	1.0	2.3
3	63	193	22	3.8	3.4	3.0	1.0	4.5	68	153	23	3.2	1.7	2.5	2.5	2.0	82	182	24	-	2.7	-	-	2.0
4	54	170	29	3.3	3.1	2.0	3.0	3.5	56	139	23	3.5	2.5	2.0	2.5	3.5	67	146	28	3.0	2.8	3.0	2.0	2.5
5	63	185	22	2.9	3.8	2.5	1.0	3.5	63	164	23	3.0	2.0	3.0	3.0	4.0	NG	-	-	-	-	-	-	-
6	55	178	25	3.7	3.8	2.0	2.5	3.5	50	142	22	2.9	1.5	2.0	2.0	3.5	64	207	30	3.1	2.7	3.0	1.0	2.3
7	59	158	21	3.0	3.8	2.0	1.5	3.5	67	129	21	2.7	2.5	2.5	1.5	3.0	67	131	24	2.7	3.0	3.0	2.0	2.3
8	NG	-	-	-	-	-	-	-	63	128	19	3.1	1.0	2.5	3.0	4.0	76	111	16	2.8	2.3	3.0	1.5	2.3
9	60	168	30	3.4	3.4	2.0	1.5	4.0	55	147	23	3.4	2.0	2.0	4.0	3.5	70	135	16	2.6	3.0	3.0	1.0	2.5
10	54	162	25	3.6	3.6	2.5	1.0	3.5	52	128	20	3.2	3.0	2.0	3.5	2.5	67	137	22	3.4	2.3	3.0	1.0	2.3
11	61	190	27	2.8	3.6	2.5	1.0	3.0	60	133	18	2.6	1.3	2.5	3.0	2.0	79	117	17	2.4	2.5	3.0	1.5	2.3
12	57	167	22	3.4	3.4	2.5	2.0	4.5	61	142	22	2.9	2.5	2.5	1.5	2.5	69	119	21	3.9	3.0	3.0	1.0	2.5
13	54	164	26	2.4	2.5	2.0	3.0	2.0	61	174	25	2.5	1.2	2.5	1.5	3.5	85	167	23	2.0	4.0	3.0	2.0	2.0
14	56	184	35	3.0	3.0	2.0	4.0	3.0	61	140	26	2.5	1.2	3.0	3.5	3.5	80	127	16	2.4	2.5	3.0	1.5	2.3
15	55	197	31	3.2	2.9	2.0	2.0	4.5	56	160	24	2.9	1.5	2.0	2.0	3.0	70	162	22	2.9	2.5	3.0	1.0	2.3
16	63	194	27	3.7	2.5	3.0	-	5.0	68	157	19	3.4	1.5	3.0	1.0	4.5	84	161	23	3.4	2.8	3.0	1.0	3.3
17	51	173	25	3.2	3.8	3.0	1.0	3.0	51	135	23	2.9	2.0	2.0	2.5	3.0	67	114	17	2.4	2.5	3.0	1.0	2.3
18	56	179	22	3.2	2.4	2.0	3.0	3.0	61	151	22	3.1	2.5	2.0	3.0	2.0	68	155	14	2.7	2.5	3.0	1.0	2.5
19	57	180	30	2.3	2.1	2.0	1.5	3.0	70	138	26	2.1	1.5	2.0	1.0	2.0	NG	-	-	-	-	-	-	-
20	NG	-	-	-	-	-	-	-	NG	-	-	-	-	-	-	-	69	135	21	2.5	2.0	3.0	-	2.5
21	NG	-	-	-	-	-	-	-	57	142	20	2.8	1.7	2.0	3.0	3.0	67	149	18	2.6	2.5	3.0	1.5	2.3
22	72	169	21	3.1	3.4	2.5	1.5	4.0	76	137	19	2.7	2.5	3.0	2.5	3.0	78	154	21	2.6	2.2	3.0	-	2.3
23	NG	-	-	-	-	-	-	-	51	143	21	3.2	2.5	3.0	2.0	4.0	63	249	25	2.9	2.7	3.0	1.0	2.8
24	59	199	23	3.1	2.6	3.0	1.0	4.5	63	140	17	3.2	2.5	3.0	1.5	3.5	75	169	22	2.8	2.4	3.0	1.0	2.3
25	62	139	26	3.4	2.4	2.0	3.0	4.0	67	112	16	2.6	1.7	1.0	4.0	3.0	70	132	22	2.6	2.3	3.0	2.0	2.5
26	61	168	24	3.0	2.6	2.0	2.0	3.5	65	135	18	2.7	1.2	3.0	3.0	3.5	71	124	18	2.7	2.4	3.0	-	2.3
27	61	218	29	2.6	3.4	1.5	2.0	3.5	69	169	22	2.3	1.2	2.5	3.5	3.5	73	195	26	2.5	2.7	3.0	2.0	2.3
28	69	138	24	3.6	4.0	3.0	-	5.0	76	110	17	2.8	1.2	3.0	1.0	3.0	68	131	24	2.9	2.5	3.0	1.0	2.5
29	NG	-	-	-	-	-	-	-	63	209	29	2.8	2.3	3.0	2.0	3.5	77	240	25	2.7	5.3	3.0	-	2.3
30	59	197	30	3.3	2.7	2.5	2.0	3.5	74	137	26	3.1	1.7	2.5	2.5	3.0	69	148	19	3.0	2.7	3.0	2.0	2.3
31	NG	-	-	-	-	-	-	-	58	123	19	2.8	1.0	1.0	2.0	2.5	72	138	20	2.8	3.0	3.0	-	2.5
32	57	169	27	3.0	2.4	2.0	2.0	3.0	65	135	21	2.6	1.3	1.5	2.0	2.5	77	115	15	2.7	2.8	3.0	2.0	2.3

Table10: Potential R-line nursery, across four locations- Jamnagar, Jaipur, Hisar and New Delhi. (for Pedigree of entries see table 3).

Plot size: 1 row x 4 m x 2 reps.

E. no.	JMR								JPR								HSR							
	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
33	55	165	23	3.0	2.8	2.0	2.0	3.5	54	131	19	3.2	1.7	2.0	3.0	3.5	65	124	24	2.9	2.0	3.0	2.0	2.5
34	62	163	24	3.5	3.4	2.5	4.0	4.0	70	153	22	3.0	2.0	3.0	3.5	3.0	80	158	21	2.9	2.8	3.0	2.0	3.0
35	62	158	26	3.7	2.8	2.5	1.5	4.5	66	140	19	4.0	1.5	2.5	1.0	4.5	73	130	16	3.1	2.4	3.0	2.0	2.3
36	60	198	25	3.2	3.4	2.0	2.5	4.0	66	180	22	3.1	2.5	2.0	3.0	4.5	69	184	19	2.7	2.8	3.0	1.0	4.0
37	63	198	33	2.6	2.6	2.5	1.0	3.0	70	181	23	2.4	2.3	3.0	2.0	3.0	72	242	32	2.6	4.8	3.0	1.5	2.3
38	64	189	22	2.8	3.4	3.0	-	5.0	66	155	20	2.8	2.5	3.0	2.0	3.0	76	184	21	2.7	2.7	3.0	1.5	2.3
39	66	213	22	3.3	3.4	2.5	1.0	4.5	76	185	24	3.4	1.8	3.0	1.0	2.5	73	176	20	2.7	2.5	3.0	-	2.3
40	63	214	29	3.4	3.5	2.0	1.5	4.5	77	147	23	2.8	2.0	3.0	1.5	2.5	77	134	21	2.6	3.0	3.0	1.0	2.3
41	61	161	26	3.1	1.7	3.0	-	5.0	64	130	20	2.6	1.7	2.5	3.0	3.5	80	119	20	2.7	2.8	3.0	1.0	2.3
42	48	176	20	3.3	3.4	2.0	3.5	2.5	49	133	21	3.0	2.3	2.0	2.5	2.5	57	151	21	2.8	2.7	3.0	1.5	3.0
43	NG	-	-	-	-	-	-	-	NG	-	-	-	-	-	-	-	72	133	16	2.5	3.3	3.0	-	2.3
44	52	191	27	2.9	3.6	2.0	3.5	3.0	48	136	20	2.4	1.0	1.5	2.0	2.5	63	132	19	2.7	2.5	3.0	2.0	2.3
45	56	192	31	2.9	3.4	2.0	1.0	3.0	59	151	21	2.8	1.0	2.0	2.0	3.0	68	199	24	3.3	2.7	3.0	2.0	2.3
46	61	177	21	3.3	3.1	2.0	2.5	3.5	65	129	19	3.0	1.8	3.0	3.5	3.5	81	153	21	2.6	3.5	3.0	1.0	2.3
47	55	181	27	3.4	3.2	1.5	2.5	3.5	50	172	25	2.9	2.3	2.0	2.0	3.0	67	169	26	2.7	2.5	3.0	1.0	3.0
48	59	183	31	3.5	2.4	2.0	3.5	3.5	73	148	25	3.0	1.2	3.0	5.0	2.5	84	144	22	2.7	2.7	3.0	1.0	2.3
49	53	223	34	3.1	3.6	2.0	2.5	3.0	60	201	33	3.3	3.6	3.0	3.0	3.5	61	253	35	3.0	2.7	3.0	1.5	2.5
50	61	167	25	2.8	2.9	2.0	4.0	3.0	55	129	17	2.5	2.5	2.5	3.5	4.5	73	157	22	2.4	2.5	3.0	-	2.3
51	58	189	31	3.0	3.6	1.0	7.0	2.0	63	167	25	2.9	1.3	2.5	4.0	3.0	70	131	20	2.2	2.9	3.0	2.0	2.3
52	61	235	31	3.0	3.0	2.0	2.5	3.0	71	182	26	2.4	2.8	3.0	2.0	3.0	70	183	29	2.5	2.5	3.0	-	2.5
53	65	207	33	3.1	2.2	3.0	2.0	4.0	65	156	28	3.4	2.5	3.0	2.5	4.0	85	219	33	2.9	4.0	3.0	1.0	2.8
54	67	214	31	2.9	3.0	3.0	-	3.5	75	149	21	2.5	1.5	3.0	1.0	3.0	78	157	30	2.4	2.7	3.0	2.0	2.0
55	NG	-	-	-	-	-	-	-	53	153	26	2.6	1.8	2.0	1.5	3.0	66	129	30	2.4	2.8	3.0	1.5	2.3
56	50	188	24	2.8	2.9	2.5	1.5	2.5	55	162	21	3.7	2.3	2.5	3.0	4.0	62	168	22	2.9	2.7	3.0	1.0	2.3
57	66	182	23	3.3	3.3	3.0	1.0	4.0	46	146	17	2.6	1.2	2.5	1.0	3.0	76	192	19	3.1	2.7	3.0	2.0	2.3
58	55	183	33	3.7	2.6	2.5	1.0	3.0	54	121	21	3.0	1.2	2.5	1.5	2.5	73	127	25	3.3	3.0	3.0	-	2.3
59	59	186	17	2.5	4.8	2.0	2.5	4.0	60	148	16	2.5	3.1	2.0	4.5	3.5	67	204	19	2.5	2.5	3.0	2.0	4.0
60	57	164	22	2.9	2.7	3.0	1.0	4.0	61	147	20	2.9	2.5	2.5	3.5	3.5	73	161	20	2.8	2.6	3.0	2.0	2.3

Table10: Potential R-line nursery, across four locations- Jamnagar, Jaipur, Hisar and New Delhi. (for Pedigree of entries see table 3).

Plot size: 1 row x 4 m x 2 reps.

E. no.	NDL								Grand Mean							
	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
1	64	179	22	2.4	3.0	2.5	4.0	3.0	64	166	20	2.5	2.7	2.5	3.0	2.8
2	76	192	17	2.4	2.5	3.0	3.0	3.0	67	159	20	3.0	3.0	3.0	1.7	2.8
3	80	187	22	3.4	3.0	3.0	5.0	5.0	73	179	23	3.5	2.7	2.8	2.8	3.4
4	64	169	28	3.3	2.0	2.5	4.0	3.5	60	156	27	3.3	2.6	2.4	2.9	3.3
5	77	183	22	2.7	2.5	3.0	1.0	3.0	67	177	23	2.9	2.8	2.8	1.7	3.5
6	60	179	23	2.9	2.5	2.5	3.0	3.0	57	176	25	3.1	2.6	2.4	2.1	3.1
7	63	167	20	2.9	2.5	3.0	4.0	4.5	64	146	21	2.8	2.9	2.6	2.3	3.3
8	72	184	22	3.4	2.5	2.5	5.0	3.0	70	141	19	3.1	1.9	2.7	3.2	3.1
9	70	176	23	3.3	3.0	2.5	4.0	3.5	64	156	23	3.2	2.9	2.4	2.6	3.4
10	61	165	23	3.3	3.0	2.5	4.0	4.5	58	148	22	3.4	3.0	2.5	2.4	3.2
11	77	186	23	2.7	2.0	3.0	5.0	3.5	69	156	21	2.6	2.3	2.8	2.6	2.7
12	66	174	42	3.0	2.0	2.5	3.0	3.5	63	151	27	3.3	2.7	2.6	1.9	3.3
13	70	154	26	1.7	2.5	3.0	3.0	3.0	67	165	25	2.1	2.5	2.6	2.4	2.6
14	71	170	27	2.7	2.5	1.5	6.0	2.5	67	155	26	2.6	2.3	2.4	3.8	2.8
15	67	177	26	2.6	3.0	2.5	3.0	4.0	62	174	26	2.9	2.5	2.4	2.0	3.4
16	77	169	22	3.2	2.0	3.0	2.0	4.0	73	170	23	3.4	2.2	3.0	1.3	4.2
17	64	169	23	3.2	3.0	2.5	3.0	3.5	58	148	22	2.9	2.8	2.6	1.9	2.9
18	70	168	22	3.4	2.0	2.0	6.0	3.0	64	163	20	3.1	2.4	2.3	3.3	2.6
19	68	196	29	2.1	3.0	1.0	5.0	2.5	65	171	28	2.2	2.2	1.7	2.5	2.5
20	72	160	24	2.6	3.0	2.5	4.0	3.0	71	148	23	2.5	2.5	2.8	4.0	2.8
21	69	179	21	2.4	3.0	1.5	5.0	3.5	64	157	20	2.6	2.4	2.2	3.2	2.9
22	-	171	21	3.1	2.5	3.0	3.0	3.0	75	157	20	2.9	2.6	2.9	2.3	3.1
23	70	211	25	3.2	2.0	3.0	3.0	4.5	61	201	24	3.1	2.4	3.0	2.0	3.8
24	75	185	23	2.9	2.5	2.5	4.0	3.0	68	173	21	3.0	2.5	2.9	1.9	3.3
25	69	129	18	2.4	3.0	1.0	6.0	2.5	67	128	20	2.7	2.3	1.8	3.8	3.0
26	72	164	24	2.5	2.5	2.5	4.0	3.5	67	148	21	2.7	2.2	2.6	3.0	3.2
27	74	197	26	2.4	3.0	3.0	3.0	3.5	69	195	26	2.4	2.6	2.5	2.6	3.2
28	-	132	24	2.8	2.5	3.0	2.0	2.5	71	128	22	3.0	2.5	3.0	1.3	3.3
29	70	204	29	2.2	3.0	3.0	3.0	3.5	70	218	27	2.6	3.5	3.0	2.5	3.1
30	70	208	26	3.6	2.5	2.5	4.0	3.0	68	173	25	3.3	2.4	2.6	2.6	2.9
31	71	168	24	3.1	3.0	3.0	3.0	4.0	67	143	21	2.9	2.3	2.3	2.5	3.0
32	72	139	23	2.2	2.5	2.5	4.0	2.5	67	140	21	2.6	2.2	2.3	2.5	2.6

Table10: Potential R-line nursery, across four locations- Jamnagar, Jaipur, Hisar and New Delhi. (for Pedigree of entries see table 3).

Plot size: 1 row x 4 m x 2 reps.

E. no.	NDL								Grand Mean							
	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
33	60	167	24	3.0	2.5	2.5	4.0	4.5	58	147	22	3.0	2.2	2.4	2.8	3.5
34	77	165	25	3.3	3.0	2.5	5.0	3.5	72	160	23	3.2	2.8	2.8	3.6	3.4
35	70	161	24	3.4	2.0	2.5	5.0	3.0	68	147	21	3.5	2.2	2.6	2.4	3.6
36	72	187	21	3.2	2.0	3.0	4.0	4.0	66	187	22	3.0	2.7	2.5	2.6	4.1
37	76	186	28	2.5	3.0	3.0	4.0	3.0	70	202	29	2.5	3.2	2.9	2.1	2.8
38	61	211	19	2.4	3.0	3.0	4.0	3.5	67	185	21	2.7	2.9	3.0	2.5	3.4
39	77	225	22	2.6	3.0	2.5	3.0	3.5	73	200	22	3.0	2.7	2.8	1.7	3.2
40	61	198	24	3.1	3.0	3.0	5.0	4.0	69	173	24	3.0	2.9	2.8	2.3	3.3
41	75	169	23	2.6	3.0	3.0	5.0	3.5	70	145	22	2.7	2.3	2.9	3.0	3.6
42	58	174	20	2.7	3.0	1.5	6.0	3.0	53	158	21	3.0	2.8	2.1	3.4	2.8
43	77	191	22	2.5	2.0	2.0	6.0	2.0	75	162	19	2.5	2.6	2.5	6.0	2.1
44	59	168	25	2.5	2.0	1.0	6.0	2.5	55	157	23	2.6	2.3	1.9	3.4	2.6
45	65	198	25	2.9	2.5	2.0	4.0	3.5	62	185	25	3.0	2.4	2.3	2.3	2.9
46	75	180	21	3.2	3.0	3.0	4.0	4.0	70	160	21	3.0	2.9	2.8	2.8	3.3
47	63	193	25	2.9	2.0	2.0	3.0	3.0	59	179	25	3.0	2.5	2.1	2.1	3.1
48	79	162	29	3.1	2.0	2.0	5.0	3.0	73	159	26	3.1	2.1	2.5	3.6	2.8
49	60	225	29	2.8	2.5	2.5	4.0	3.0	58	225	33	3.1	3.1	2.6	2.8	3.0
50	67	148	21	2.5	3.0	1.5	3.0	2.0	64	150	21	2.6	2.7	2.3	3.5	2.9
51	68	182	28	2.5	2.0	2.5	3.0	3.0	65	167	26	2.6	2.5	2.3	4.0	2.6
52	77	209	29	2.4	2.0	3.0	1.0	3.0	70	202	29	2.6	2.6	2.8	1.8	2.9
53	-	171	29	2.5	3.0	3.0	3.0	3.0	71	188	31	2.9	2.9	3.0	2.1	3.4
54	-	178	25	2.9	2.5	3.0	2.0	3.5	73	175	27	2.7	2.4	3.0	1.7	3.0
55	-	-	-	-	-	-	-	-	60	141	28	2.5	2.3	2.5	1.5	2.6
56	59	190	25	3.0	2.0	2.5	5.0	3.0	56	177	23	3.1	2.5	2.6	2.6	2.9
57	76	176	21	2.7	-	2.0	5.0	2.0	66	174	20	2.9	2.4	2.6	2.3	2.8
58	64	173	26	2.9	3.0	2.5	5.0	3.0	61	151	26	3.2	2.4	2.6	2.5	2.7
59	69	189	17	2.4	2.5	2.5	5.0	4.0	64	181	17	2.5	3.2	2.4	3.5	3.9
60	68	161	23	2.9	2.5	3.0	4.0	3.5	65	158	21	2.9	2.6	2.9	2.6	3.3

Table 11: Drought tolerant restorer parent nursery, across one location-Jaipur. (for Pedigree of entries see table 4)

Plot size: 1 row x 4 m x 2 reps.

E. no.	JPR						
	DF	PH	HL	HD	ETPP	SG	AS
1	47	105	20	2.7	3.0	3.0	3.5
2	47	105	15	2.1	2.7	2.0	3.0
3	50	92	18	2.7	1.5	3.0	3.0
4	45	136	16	3.1	2.7	3.0	2.5
5	51	117	15	2.7	2.2	3.0	3.0
6	49	120	19	2.5	2.3	3.0	2.5
7	47	89	17	2.3	2.7	3.0	2.5
8	51	126	19	2.7	2.5	2.5	3.0
9	51	137	19	2.6	2.5	3.0	4.0
10	49	101	17	2.9	1.2	3.0	2.5
11	50	112	16	2.5	1.8	3.0	3.0
12	46	99	17	2.3	1.5	3.0	3.5
13	55	117	19	2.1	1.5	3.0	3.0
14	46	100	13	2.4	2.8	3.0	2.5
15	49	99	17	1.8	1.0	3.0	2.0
16	46	81	22	2.3	1.7	3.0	2.5
17	54	126	15	2.6	2.8	3.0	3.0
18	48	122	16	2.3	2.8	3.0	3.5
19	45	98	15	2.1	2.3	3.0	2.0
20	51	85	20	2.2	2.2	3.0	2.5
21	47	122	15	2.4	2.5	3.0	3.0
22	50	125	20	2.4	2.8	2.5	3.5
23	48	145	17	2.6	2.2	3.0	3.0
24	52	135	21	2.1	1.2	3.0	3.0
25	46	130	18	2.3	2.2	2.0	2.5
26	48	142	19	2.4	2.7	2.5	3.0
27	47	119	14	2.1	2.2	3.0	3.0
28	56	169	22	2.8	4.3	3.0	3.5
29	48	156	16	2.6	2.8	3.0	3.0
30	49	135	18	2.4	2.7	2.0	3.0
31	45	112	19	1.9	1.8	3.0	2.5
32	48	118	18	2.1	2.7	3.0	2.5
33	57	138	18	2.1	2.8	2.5	4.0
34	52	142	14	2.4	4.3	3.0	3.5
35	55	117	15	1.8	2.5	2.0	1.5
36	53	129	16	2.3	3.0	2.5	3.0
37	45	138	17	1.7	1.8	3.0	2.5
38	50	138	16	2.1	2.0	2.0	3.0
39	44	146	14	2.4	2.2	2.0	3.5
40	47	135	14	2.1	1.8	2.5	2.5
41	49	125	17	1.8	2.2	3.0	3.5
42	50	144	17	2.0	1.5	3.0	2.0
43	47	123	18	2.1	3.3	3.0	3.0

Table 11: Drought tolerant restorer parent nursery, across one location-Jaipur. (for Pedigree of entries see table 4)

Plot size: 1 row x 4 m x 2 reps.

E. no.	JPR						
	DF	PH	HL	HD	ETPP	SG	AS
44	46	142	19	2.7	2.5	3.0	2.5
45	47	120	19	2.0	3.1	3.0	3.0
46	49	119	14	2.1	2.8	2.0	2.5
47	45	128	21	2.2	3.2	2.5	2.5
48	49	141	14	1.9	2.2	2.0	2.0
49	49	128	19	2.6	2.8	2.0	2.5
50	47	144	21	2.5	2.0	3.0	3.0
51	54	147	16	2.5	1.5	3.0	3.5
52	53	131	19	2.5	2.7	1.5	3.0
53	52	110	15	1.8	2.5	1.5	2.5
54	48	116	14	2.4	2.7	3.0	2.5
55	47	146	16	2.3	3.2	3.0	3.0
56	47	121	17	1.8	3.0	2.0	2.0
57	47	96	17	1.8	5.5	2.0	3.5
58	56	132	15	1.6	2.3	1.5	3.0
59	50	138	18	2.8	2.8	3.0	2.5
60	46	107	17	1.5	3.3	3.0	1.0

Table 12: Blast resistant B & R line nursery, across three locations- Ananthapuram, Jaipur and New Delhi. (for Pedigree of entries see table 5).
Plot size: 1 row x 4 m x 2 reps.

E.	APR								JPR								NDL								Grand Mean							
no.	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
1	63	98	24	2.5	2.1	1.0	2.5	1.5	61	138	24	2.6	1.7	2.5	5.5	3.5	79	145	25	1.9	3.0	1.5	6.0	3.0	68	127	24	2.3	2.3	1.7	4.7	2.7
2	56	91	21	3.0	1.8	2.0	4.0	3.0	60	111	20	2.9	2.0	2.0	3.0	3.0	64	132	21	2.7	2.5	3.0	3.0	3.5	60	111	21	2.8	2.1	2.3	3.3	3.2
3	54	85	20	3.0	3.0	2.0	2.0	2.0	53	119	22	2.4	1.5	2.0	4.5	2.5	62	136	21	2.3	2.5	1.0	7.0	2.5	56	113	21	2.6	2.3	1.7	4.5	2.3
4	57	89	19	2.6	2.3	2.0	2.0	2.0	66	102	18	2.9	1.3	2.0	1.0	3.5	69	158	21	2.2	2.5	3.0	3.0	3.5	64	116	20	2.6	2.0	2.3	2.0	3.0
5	49	92	22	2.8	2.1	2.0	3.5	3.0	51	148	23	2.9	1.2	2.5	2.5	4.0	66	148	21	3.3	2.5	2.5	3.0	3.5	55	129	22	3.0	1.9	2.3	3.0	3.5
6	57	66	23	2.6	1.7	3.0	3.5	3.0	69	107	21	2.2	1.5	2.0	3.0	2.5	71	109	21	2.4	2.5	2.0	4.0	3.0	65	94	22	2.4	1.9	2.3	3.5	2.8
7	57	75	19	2.5	1.9	2.0	2.5	1.5	76	116	20	2.7	1.3	2.5	1.5	2.5	63	145	18	2.7	2.5	3.0	3.0	4.0	65	112	19	2.6	1.9	2.5	2.3	2.7
8	54	73	22	2.6	2.1	3.0	4.0	2.5	60	116	22	3.1	2.7	1.5	4.0	3.0	64	165	21	2.8	2.5	1.5	6.0	3.0	59	118	22	2.8	2.4	2.0	4.7	2.8
9	48	80	17	3.0	1.4	2.0	2.5	2.0	57	114	15	2.8	2.2	1.5	2.0	3.5	61	128	18	3.1	2.5	3.0	3.0	4.0	55	107	17	3.0	2.0	2.2	2.5	3.2
10	55	64	16	2.6	2.0	2.0	3.5	2.0	57	101	22	2.4	2.3	2.0	4.5	3.0	61	129	19	2.5	2.5	2.5	5.0	4.0	58	98	19	2.5	2.3	2.2	4.3	3.0
11	56	64	16	2.6	1.7	2.0	3.5	3.0	67	111	22	2.8	2.0	2.0	4.0	2.5	66	147	18	3.0	2.5	2.5	5.0	2.5	63	107	19	2.8	2.1	2.2	4.2	2.7
12	58	74	26	2.7	1.9	2.0	2.0	2.5	67	100	21	2.5	1.2	3.0	4.5	3.0	69	159	21	2.5	3.0	2.5	5.0	3.5	64	111	23	2.6	2.0	2.5	3.8	3.0
13	59	89	21	2.7	2.1	1.0	3.5	2.0	57	134	22	2.7	1.2	3.0	3.0	3.0	63	155	23	2.1	3.0	2.5	5.0	3.5	60	126	22	2.5	2.1	2.2	3.8	2.8
14	54	59	20	2.9	2.1	2.0	4.5	3.5	66	76	21	3.1	1.5	2.0	4.0	3.0	71	91	15	3.3	2.5	1.0	7.0	2.5	63	75	19	3.1	2.0	1.7	5.2	3.0
15	52	68	21	2.7	1.6	3.0	2.5	3.5	61	103	23	2.5	2.5	2.5	3.5	3.0	63	123	19	2.4	3.0	1.0	5.0	2.5	59	98	21	2.5	2.4	2.2	3.7	3.0
16	63	81	16	2.7	2.2	2.0	4.0	2.0	67	132	19	3.3	1.2	2.0	2.5	3.5	72	139	15	2.6	3.0	2.5	3.0	3.5	67	117	17	2.9	2.1	2.2	3.2	3.0
17	56	67	20	2.8	2.1	2.0	2.0	2.5	57	103	19	2.7	2.2	2.5	5.0	3.0	62	118	23	2.5	3.0	1.0	4.0	3.0	58	96	21	2.7	2.4	1.8	3.7	2.8
18	46	87	15	2.3	3.8	1.0	3.0	2.0	47	109	22	2.1	1.5	2.0	3.5	2.0	57	164	17	2.2	2.5	1.5	5.0	2.0	50	120	18	2.2	2.6	1.5	3.8	2.0
19	48	93	18	2.3	2.2	2.0	5.5	2.0	56	110	20	2.1	1.7	2.0	4.5	3.0	64	171	18	1.9	3.0	2.5	3.0	3.5	56	124	19	2.1	2.3	2.2	4.3	2.8
20	55	86	21	2.4	2.9	2.0	3.5	1.5	66	124	20	2.3	1.2	2.0	5.0	3.5	65	154	22	2.4	3.0	1.0	7.0	4.0	62	121	21	2.4	2.4	1.7	5.2	3.0
21	46	63	18	2.3	2.2	1.0	3.0	3.0	54	93	18	2.0	1.2	2.5	4.5	2.5	54	110	16	2.1	3.0	1.0	7.0	2.0	51	89	17	2.2	2.1	1.5	4.8	2.5
22	53	69	17	2.7	1.9	3.0	2.5	2.0	58	93	19	2.3	2.0	1.5	4.0	3.0	62	103	18	3.3	2.5	1.0	5.0	4.0	57	88	18	2.8	2.1	1.8	3.8	3.0
23	47	94	19	1.9	2.2	2.0	4.0	3.0	53	109	18	2.3	2.0	1.0	1.5	2.5	52	167	21	2.1	2.5	1.0	5.0	3.0	51	123	20	2.1	2.2	1.3	3.5	2.8
24	54	54	17	2.5	1.8	3.0	1.5	2.0	58	88	19	2.6	1.3	2.5	4.0	2.5	63	110	19	3.0	2.5	1.0	5.0	3.0	58	84	18	2.7	1.9	2.2	3.5	2.5
25	42	68	13	2.0	1.6	3.0	5.5	3.0	46	112	21	2.6	3.0	2.0	2.5	3.0	53	81	15	1.4	3.0	1.0	9.0	2.0	47	87	16	2.0	2.5	2.0	5.7	2.7
26	48	95	23	2.9	3.0	1.0	1.0	3.0	52	125	21	2.8	1.2	3.0	1.5	3.0	60	170	24	2.8	2.5	3.0	5.0	3.5	53	130	23	2.8	2.2	2.3	2.5	3.2
27	57	107	18	2.5	1.5	1.0	2.0	3.0	65	169	19	2.5	2.2	3.0	2.5	4.0	67	188	17	2.8	2.5	3.0	3.0	4.5	63	155	18	2.6	2.1	2.3	2.5	3.8
28	46	107	22	2.2	2.9	2.0	4.0	3.0	58	155	22	2.4	1.2	3.0	2.0	3.0	61	199	23	2.5	2.0	3.0	4.0	3.0	55	154	22	2.4	2.0	2.7	3.3	3.0

Table 12: Blast resistant B & R line nursery, across three locations- Ananthapuram, Jaipur and New Delhi. (for Pedigree of entries see table 5).
Plot size: 1 row x 4 m x 2 reps.

E.	APR								JPR								NDL								Grand Mean							
no.	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
29	53	121	29	3.1	2.3	1.0	2.0	2.5	56	172	23	2.8	1.5	3.0	2.0	4.0	59	225	29	2.6	2.5	3.0	3.0	4.0	56	173	27	2.8	2.1	2.3	2.3	3.5
30	NG	-	-	-	-	-	-	-	67	119	17	2.8	2.0	3.0	1.5	3.5	76	164	19	2.8	3.0	3.0	3.0	4.0	71	141	18	2.8	2.5	3.0	2.3	3.8
31	51	89	19	2.5	1.7	2.0	3.0	3.5	57	162	22	3.0	1.0	2.5	2.5	2.5	59	165	16	2.3	3.0	1.5	5.0	2.5	56	138	19	2.6	1.9	2.0	3.5	2.8
32	53	129	25	3.1	2.5	1.0	2.5	2.0	73	127	21	2.8	3.7	3.0	2.0	2.5	63	192	17	3.4	2.5	3.0	5.0	3.0	63	149	21	3.1	2.9	2.3	3.2	2.5
33	49	101	19	2.6	3.1	3.0	4.5	3.0	58	179	19	2.9	3.7	2.0	1.5	3.0	60	189	17	3.1	2.5	1.5	5.0	3.5	56	156	18	2.9	3.1	2.2	3.7	3.2
34	63	124	23	3.2	1.7	1.0	2.5	3.0	70	143	16	3.2	2.0	3.0	3.0	3.5	59	164	18	3.2	2.5	1.0	6.0	3.5	64	143	19	3.2	2.1	1.7	3.8	3.3
35	54	98	18	2.9	3.5	2.0	3.0	3.5	67	157	19	2.6	2.2	3.0	3.5	2.5	66	219	19	3.2	2.5	3.0	4.0	3.5	62	158	19	2.9	2.7	2.7	3.5	3.2
36	52	117	24	2.9	3.2	1.0	2.0	2.5	57	140	18	2.6	4.0	2.5	2.0	3.0	68	185	22	3.2	3.0	3.0	3.0	4.0	59	147	21	2.9	3.4	2.2	2.3	3.2
37	63	112	19	2.5	3.5	1.0	1.5	2.0	64	188	21	2.8	3.5	2.5	2.5	3.0	61	199	17	2.7	3.0	2.5	3.0	3.5	62	166	19	2.7	3.3	2.0	2.3	2.8
38	58	88	20	2.4	3.2	1.0	2.0	2.0	53	127	20	2.1	4.2	3.0	4.0	3.0	63	204	15	3.0	3.0	2.0	5.0	3.0	58	140	19	2.5	3.5	2.0	3.7	2.7
39	65	154	26	3.0	1.9	2.0	2.5	2.0	64	209	33	3.2	3.2	3.5	2.5	4.0	76	230	24	3.1	3.0	3.0	4.0	4.0	68	198	28	3.1	2.7	2.8	3.0	3.3
40	52	89	25	2.4	2.8	2.0	3.0	2.5	70	150	20	2.8	1.7	3.0	3.5	3.0	71	185	25	2.3	3.0	2.5	5.0	3.5	64	141	23	2.5	2.5	2.5	3.8	3.0
41	61	104	24	3.0	2.4	2.0	3.0	2.0	71	134	23	3.0	1.2	3.0	2.0	4.0	70	162	22	2.6	3.0	3.0	5.0	3.5	67	133	23	2.8	2.2	2.7	3.3	3.2
42	NG	-	-	-	-	-	-	-	71	142	20	2.8	4.3	3.0	2.0	3.5	71	164	20	3.0	2.5	2.0	5.0	3.0	71	153	20	2.9	3.4	2.5	3.5	3.3
43	63	126	15	1.4	5.0	1.0	2.0	4.0	67	179	19	2.0	2.3	3.5	2.5	2.5	72	195	22	2.3	3.0	3.0	3.0	3.0	67	167	19	1.9	3.4	2.5	2.5	3.2
44	50	121	20	2.5	2.2	1.0	2.0	2.0	57	141	17	2.5	1.5	2.0	2.5	3.0	62	209	23	2.3	2.5	2.0	4.0	3.5	56	157	20	2.4	2.1	1.7	2.8	2.8
45	54	104	21	1.5	2.8	1.0	2.5	2.5	69	164	22	2.6	2.2	2.5	1.5	3.0	67	193	18	2.4	2.5	3.0	4.0	3.5	63	154	20	2.2	2.5	2.2	2.7	3.0
46	47	106	22	2.4	1.7	1.0	3.0	2.0	49	170	22	2.4	2.2	2.5	3.0	3.0	59	206	24	2.1	2.5	3.0	4.0	3.0	51	161	23	2.3	2.1	2.2	3.3	2.7
47	57	97	21	2.4	3.2	1.0	2.5	2.5	74	152	18	3.0	2.8	3.0	2.5	2.5	71	204	19	2.3	3.0	3.0	3.0	4.0	67	151	19	2.6	3.0	2.3	2.7	3.0
48	53	108	17	2.4	2.9	1.0	2.5	3.5	57	169	20	2.3	2.5	2.0	3.0	3.5	66	235	19	2.6	3.0	2.5	4.0	4.0	58	170	19	2.4	2.8	1.8	3.2	3.7
49	53	93	14	2.3	4.5	2.0	3.0	2.0	51	162	21	3.1	2.8	3.0	2.0	3.5	71	160	16	2.5	2.0	3.0	1.0	4.5	58	138	17	2.6	3.1	2.7	2.0	3.3
50	63	103	23	2.8	1.5	1.0	3.0	2.0	71	127	21	2.8	1.0	2.5	1.5	3.0	64	178	24	2.7	2.0	3.0	5.0	3.5	66	136	23	2.8	1.5	2.2	3.2	2.8

Table 13: Good combiner seed and restorer parent nursery, across three locations- Jamnagar, Jaipur and New Delhi. (for Pedigree of entries see table 6).
Plot size: 1 row x 4 m x 2 reps

E. no.	JMR								JPR								NDL								Grand Mean							
	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS	DF	PH	HL	HD	ETPP	SG	BS	AS
1	61	125	20	3.6	4.1	3.0	-	3.0	64	111	21	3.5	1.7	2.5	2.5	3.0	78	108	20	2.9	2.5	2.0	6.0	2.0	67	115	20	3.3	2.8	2.5	4.3	2.7
2	NG	-	-	-	-	-	-	-	60	104	18	2.4	2.0	2.5	5.0	3.0	62	127	20	2.0	2.5	2.5	5.0	3.0	61	115	19	2.2	2.3	2.5	5.0	3.0
3	59	135	21	3.4	2.8	1.5	5.5	2.5	62	122	19	3.5	2.8	2.0	5.5	3.0	62	138	20	2.9	3.0	1.0	6.0	3.5	61	131	20	3.3	2.9	1.5	5.7	3.0
4	54	138	21	3.0	2.6	2.0	3.5	2.5	60	120	19	2.5	1.2	2.0	3.0	3.0	60	147	21	2.7	2.0	1.0	6.0	3.5	58	135	20	2.7	1.9	1.7	4.2	3.0
5	53	113	25	3.3	2.6	1.0	6.5	2.0	58	95	20	3.5	2.1	1.0	1.5	3.0	60	120	21	3.1	2.0	1.0	7.0	2.0	57	109	22	3.3	2.2	1.0	5.0	2.3
6	58	154	26	2.9	3.3	2.0	3.0	3.0	70	123	22	2.4	2.5	3.0	3.0	2.5	68	156	23	2.3	3.0	1.5	5.5	3.0	65	144	23	2.5	2.9	2.2	3.8	2.8
7	60	129	21	2.9	3.9	3.0	-	4.0	72	105	20	2.7	2.5	2.5	1.5	3.0	77	142	21	2.4	3.0	3.0	4.0	4.0	70	125	21	2.6	3.1	2.8	2.8	3.7
8	51	153	19	3.5	4.1	3.0	-	5.0	73	119	20	3.0	2.7	3.0	1.5	3.5	-	145	22	3.2	2.5	3.0	3.0	4.0	62	139	20	3.3	3.1	3.0	2.3	4.2
9	60	133	21	3.5	2.5	2.5	4.0	4.0	56	90	16	2.6	2.0	2.0	5.0	3.0	67	107	17	2.6	3.0	1.0	7.0	2.5	61	110	18	2.9	2.5	1.8	5.3	3.2
10	52	164	20	3.4	3.6	2.0	2.0	3.5	60	137	19	2.7	2.7	2.0	3.5	3.5	62	163	21	2.3	2.5	2.0	4.0	3.5	58	155	20	2.8	2.9	2.0	3.2	3.5
11	57	108	22	2.8	2.1	2.0	2.5	3.0	60	98	19	2.1	1.5	2.0	4.5	3.0	60	115	22	2.6	2.5	2.0	6.0	2.5	59	107	21	2.5	2.0	2.0	4.3	2.8
12	60	111	19	3.4	2.3	1.5	5.0	2.5	61	110	17	3.0	3.3	1.0	6.5	3.5	64	101	20	2.8	2.0	1.0	7.0	2.0	62	107	19	3.0	2.5	1.2	6.2	2.7
13	54	154	21	3.1	2.9	2.0	3.0	3.0	64	135	16	2.6	2.2	2.0	1.0	4.0	60	163	22	2.6	3.0	2.5	5.0	4.0	59	151	19	2.8	2.7	2.2	3.0	3.7
14	57	149	21	3.4	2.9	2.0	1.0	3.0	62	132	18	2.9	2.5	2.5	1.5	3.5	68	164	20	2.9	3.0	3.0	4.0	4.5	62	148	20	3.1	2.8	2.5	2.2	3.7
15	57	145	21	3.1	3.0	2.0	1.5	3.5	61	110	17	3.0	1.3	2.5	1.5	3.5	61	162	21	2.5	2.5	3.0	5.0	4.5	60	139	20	2.8	2.3	2.5	2.7	3.8
16	56	139	16	2.8	3.0	1.5	4.5	2.5	60	118	19	2.9	1.7	3.0	3.0	4.5	61	166	20	2.8	2.5	3.0	5.0	4.5	59	141	18	2.8	2.4	2.5	4.2	3.8
17	43	134	18	2.5	2.6	1.0	5.5	2.0	48	113	18	2.2	1.5	1.5	2.0	3.0	52	129	23	2.0	3.0	1.0	5.0	3.0	48	125	20	2.2	2.4	1.2	4.2	2.7
18	43	154	22	2.9	3.2	1.0	7.0	1.5	46	134	19	2.4	2.8	1.5	1.5	3.0	51	141	18	2.4	3.0	1.5	5.0	2.5	46	143	20	2.6	3.0	1.3	4.5	2.3
19	61	120	27	3.6	3.6	2.5	1.0	4.0	67	135	23	3.4	2.0	2.0	2.5	3.5	75	147	26	3.4	3.0	1.0	5.0	3.5	67	134	25	3.4	2.9	1.8	2.8	3.7
20	65	145	21	3.1	2.8	3.0	-	4.0	76	126	20	2.7	2.8	3.0	1.0	2.5	77	155	20	2.5	2.0	3.0	4.0	3.0	72	142	21	2.8	2.5	3.0	2.5	3.2
21	52	170	22	3.2	2.4	2.0	2.5	3.0	56	131	21	2.5	1.2	2.0	4.0	3.0	59	178	21	3.1	2.0	3.0	4.0	4.0	56	159	21	2.9	1.9	2.3	3.5	3.3
22	56	162	21	3.4	2.6	2.5	1.0	3.0	58	132	21	2.9	2.0	3.0	2.5	3.0	60	164	21	2.8	2.5	1.0	6.0	3.0	58	152	21	3.1	2.4	2.2	3.2	3.0
23	51	177	23	3.3	2.0	2.0	2.5	3.0	50	139	21	2.6	1.2	2.0	3.0	3.0	60	185	21	2.7	2.0	1.5	5.0	3.5	53	167	22	2.9	1.7	1.8	3.5	3.2
24	49	190	20	3.3	3.1	3.0	0.5	3.0	53	163	21	2.8	1.5	2.0	1.5	3.0	55	216	16	2.7	2.5	3.0	5.0	3.0	52	190	19	2.9	2.4	2.7	2.3	3.0
25	55	158	18	3.0	2.8	2.0	1.5	2.5	57	107	19	2.8	1.2	3.0	3.0	3.0	62	161	17	2.5	2.5	3.0	5.5	4.5	58	142	18	2.8	2.2	2.7	3.3	3.3
26	51	170	24	3.4	1.8	2.0	2.0	3.0	55	130	21	2.6	1.5	2.0	3.0	3.0	60	165	23	2.8	3.0	1.5	5.0	3.5	55	155	23	2.9	2.1	1.8	3.3	3.2
27	57	210	23	2.9	2.8	3.0	1.0	3.5	58	156	20	3.1	1.2	3.0	2.5	4.0	61	236	24	2.6	2.5	3.0	3.0	3.5	58	201	22	2.8	2.2	3.0	2.2	3.7
28	52	163	20	3.3	2.1	1.0	7.0	2.5	59	139	18	2.3	1.0	1.5	4.5	2.0	61	158	19	2.8	2.5	1.0	7.0	2.5	57	153	19	2.8	1.9	1.2	6.2	2.3
29	52	188	25	2.1	2.9	1.0	3.0	2.5	60	159	22	2.0	1.2	2.0	3.0	2.5	60	185	26	1.8	3.0	3.0	5.0	3.0	57	177	24	2.0	2.4	2.0	3.7	2.7
30	67	177	25	3.3	2.3	3.0	-	4.5	46	134	20	2.7	2.0	3.0	1.5	3.0	-	163	26	2.8	2.5	3.0	3.0	3.5	57	158	24	2.9	2.3	3.0	2.3	3.7
31	60	199	21	2.8	3.0	2.0	2.5	3.5	65	139	18	2.6	1.5	3.0	2.5	4.0	73	221	22	2.3	3.0	3.0	5.0	4.0	66	186	21	2.6	2.5	2.7	3.3	3.8
32	58	160	24	2.7	2.8	2.0	3.5	3.5	63	144	22	2.0	1.5	2.0	5.5	3.5	72	176	23	2.6	3.0	3.0	5.5	3.5	64	160	23	2.4	2.4	2.3	4.8	3.5
33	47	195	28	2.4	2.9	2.0	2.0	3.0	54	174	26	2.1	1.0	2.5	2.0	3.0	58	219	24	2.1	2.5	3.0	4.0	3.5	53	196	26	2.2	2.1	2.5	2.7	3.2
34	59	163	22	2.9	2.9	1.0	2.5	2.5	69	130	17	2.3	1.7	2.0	3.0	3.0	69	193	23	2.5	3.0	3.0	5.0	3.5	66	162	21	2.6	2.5	2.0	3.5	3.0
35	55	172	24	3.7	2.8	2.5	1.5	3.0	56	148	23	3.2	1.5	3.0	3.5	3.0	61	183	22	3.5	2.5	2.5	5.5	3.5	57	168	23	3.5	2.3	2.7	3.5	3.2
36	58	173	20	3.0	2.5	1.0	4.5	3.0	65	145	18	2.6	1.2	1.5	3.0	3.5	70	168	19	2.5	2.0	2.0	6.0	3.5	64	162	19	2.7	1.9	1.5	4.5	3.3
37	59	185	19	3.0	2.7	2.5	0.5	4.0	62	148	17	2.5	1.7	2.5	3.5	3.5	70	180	18	2.6	2.5	2.0	5.0	3.5	64	171	18	2.7	2.3	2.3	3.0	3.7
38	60	185	22	3.1	2.1	2.5	1.0	3.0	60	168	24	2.8	1.2	2.0	5.5	3.0	76	185	21	2.6	3.0	3.0	5.0	4.0	65	179	22	2.8	2.1	2.5	3.8	3.3
39	56	165	22	3.2	2.3	3.0	-	3.0	59	140	20	2.5	2.7	1.5	2.0	3.0	67	155	19	3.1	2.5	3.0	4.0	3.0	61	153	20	2.9	2.5	2.5	3.0	3.0
40	54	155	19	2.5	3.6	1.0	5.0	2.5	59	145	19	2.4	2.3	2.5	2.5	3.5	62	184	18	2.3	2.5	2.5	5.0	3.5	58	161	18	2.4	2.8	2.0	4.2	3.2

Table 14: Elite joint biofortification nursery, across four locations-Jamnagar, Jaipur, New Delhi and Ludhiana. (for Pedigree of entries see table 7).

Plot size: 1 row x 4 m x 3 reps

E. no.	JMR										JPR										NDL									
	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn
1	61	121	19	2.9	3.7	2.0	2.3	3.7			68	94	18	2.3	1.5	2.3	5.7	2.7			71	126	20	2.5	2.7	2.0	6.0	3.0		
2	63	137	18	3.1	3.3	2.7	2.0	3.7			69	114	19	3.0	1.7	3.0	3.7	3.0			77	131	17	2.9	2.7	2.7	3.7	3.3		
3	54	148	23	2.8	2.8	2.3	3.0	3.0			56	130	20	2.4	1.1	2.0	3.3	3.3			65	159	20	2.6	2.3	2.0	3.7	3.7		
4	60	139	18	2.6	3.1	3.0	-	4.0			69	115	14	2.5	2.5	2.7	2.7	3.0			75	140	18	2.1	2.7	2.0	5.3	3.3		
5	56	148	20	2.9	3.0	2.3	2.7	3.3			56	120	19	2.7	2.0	2.0	2.7	3.7			64	145	20	2.8	2.7	1.7	6.0	2.7		
6	61	155	28	3.0	1.9	3.0	1.0	4.7			67	111	24	2.8	2.6	3.0	1.3	3.3			79	139	27	2.5	2.7	3.0	4.3	3.0		
7	64	163	25	2.9	2.7	3.0	1.0	4.0			75	105	19	2.4	2.1	3.0	3.0	2.0			-	161	25	2.5	3.0	2.7	3.7	3.0		
8	59	123	19	3.3	2.3	3.0	1.0	3.7			64	114	18	2.1	1.0	3.0	4.3	4.0			76	125	20	3.0	2.7	2.0	4.3	3.0		
9	55	140	22	3.2	2.3	2.7	2.0	2.7			60	105	14	2.2	1.0	2.0	4.0	2.3			63	152	21	2.8	3.0	2.7	3.0	3.3		
10	58	151	29	2.9	2.9	1.7	5.3	2.3			63	131	33	2.7	1.0	1.0	3.7	3.3			70	156	27	2.6	2.3	2.3	5.7	3.3		
11	55	120	23	2.5	3.1	2.7	1.7	3.0			60	109	22	2.5	1.1	3.0	5.7	3.7			69	117	23	2.6	3.0	2.7	4.3	2.7		
12	53	121	18	3.0	3.0	2.0	2.7	3.0			57	116	19	2.6	3.5	2.0	4.7	3.7			57	133	18	2.8	2.3	2.0	4.0	2.7		
13	57	130	21	2.7	2.3	2.7	2.0	3.3			57	107	18	2.9	1.0	3.0	2.3	3.0			69	135	20	2.4	2.7	3.0	3.7	2.3		
14	52	127	21	3.1	3.3	2.0	4.0	2.7			55	119	19	2.8	1.1	2.7	6.7	3.3			61	114	16	2.5	2.7	1.0	6.3	2.0		
15	52	111	17	3.4	3.1	1.7	4.3	2.7			55	110	14	2.9	1.8	1.7	8.0	2.3			62	110	16	2.6	2.3	1.0	6.7	2.0		
16	69	123	20	3.3	1.8	3.0	1.0	3.3			75	109	18	1.9	1.1	3.0	5.0	3.0			-	118	17	2.9	3.0	1.3	6.3	2.3		
17	56	116	26	2.8	2.7	2.7	2.0	3.0			61	111	21	2.6	1.0	2.0	4.3	3.0			69	108	23	2.4	2.7	1.0	6.3	2.0		
18	53	103	26	2.6	2.3	1.0	7.3	1.3			55	109	22	2.3	2.9	1.7	3.3	2.7			65	118	25	2.5	2.3	1.0	3.7	2.3		
19	60	111	23	2.5	2.1	2.3	3.0	3.0			57	122	18	2.4	1.2	3.0	7.3	3.7			73	135	22	2.2	3.0	1.0	5.7	2.0		
20	65	154	22	3.3	2.4	2.3	2.0	4.0			64	147	21	2.5	1.1	2.3	4.7	4.7			74	163	20	2.4	3.0	1.0	6.0	3.0		
21	56	127	26	2.6	2.3	3.0	2.0	3.3			60	107	21	2.0	1.7	2.7	3.0	3.0			64	120	26	2.5	2.7	2.0	4.3	2.7		
22	62	130	19	3.2	3.4	2.0	-	4.7			69	99	18	2.5	1.2	2.7	2.7	3.0			78	143	20	3.3	2.7	3.0	3.7	3.0		
23	60	171	20	3.0	2.8	2.0	1.7	3.3			61	130	20	2.9	1.0	2.3	3.0	4.3			66	182	21	2.8	2.7	2.7	5.3	4.3		
24	55	152	18	3.0	1.9	1.0	6.0	2.5			56	117	14	2.5	1.6	1.7	6.3	3.0			60	138	17	2.7	2.7	1.0	6.3	2.0		
25	NG	-	-	-	-	-	-	-			NG	-	-	-	-	-	-	-			NG	-	-	-	-	-	-	-		
26	59	204	26	3.1	3.4	3.0	-	3.7			66	174	17	2.3	1.0	3.0	2.7	3.0			67	219	22	2.4	2.3	3.0	3.7	4.0		
27	58	160	19	3.4	3.9	2.0	2.7	3.3			60	120	17	2.4	1.0	2.3	3.3	3.3			73	169	17	2.5	2.7	2.7	5.7	3.3		

Table 14: Elite joint biofortification nursery, across four locations-Jamnagar, Jaipur, New Delhi and Ludhiana. (for Pedigree of entries see table 7).

Plot size: 1 row x 4 m x 3 reps

E. no.	JMR										JPR										NDL									
	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn
28	57	168	18	2.8	2.2	1.7	4.0	3.0			62	135	16	2.6	1.3	2.0	2.0	3.3			64	168	18	2.6	3.0	1.0	5.0	2.3		
29	53	178	24	2.7	3.0	2.0	3.3	2.7			56	159	19	2.3	1.1	2.0	2.7	3.3			60	198	23	2.7	2.3	2.0	4.3	3.3		
30	63	150	17	3.5	3.5	2.0	1.3	3.3			70	138	18	2.4	1.2	3.0	3.3	3.0			71	159	16	3.2	2.7	2.0	4.3	3.0		
31	59	165	20	3.1	3.3	3.0	1.7	3.0			65	120	14	2.3	1.3	3.0	2.3	4.3			71	164	17	2.6	2.7	1.7	5.7	2.7		
32	NG	-	-	-	-	-	-	-			62	152	20	3.0	3.4	2.0	3.7	3.3			66	171	20	2.5	2.7	1.3	5.3	2.7		
33	60	155	20	3.1	2.5	3.0	2.0	3.7			58	132	22	2.6	1.1	3.0	2.7	2.7			63	178	22	2.6	2.7	2.7	3.0	3.3		
34	63	197	26	2.9	2.7	3.0	1.7	3.7			59	149	22	2.3	1.1	2.0	3.3	3.3			71	193	25	2.4	2.7	2.7	5.0	3.0		
35	55	158	22	3.0	3.4	1.3	3.3	2.0			NG	-	-	-	-	-	-	-			69	158	17	2.4	2.7	2.3	5.0	2.7		
36	61	185	22	3.5	3.0	3.0	1.0	4.0			69	167	22	3.5	1.0	3.0	3.0	3.3			76	209	18	3.2	2.0	2.7	3.7	5.0		
37	65	215	25	2.6	3.7	2.7	1.3	3.0			57	218	30	2.5	2.9	3.0	3.3	3.0			79	251	22	2.4	3.0	3.0	4.7	3.3		
38	55	168	24	3.6	3.7	2.7	2.0	2.0			50	136	22	2.8	2.6	2.0	2.7	3.0			60	180	22	3.1	3.0	2.0	5.0	2.7		
39	68	178	21	3.0	2.2	3.0	1.5	4.7			72	135	18	2.3	2.1	3.0	3.7	3.7			80	171	21	2.5	2.7	2.3	5.3	3.0		
40	NG	-	-	-	-	-	-	-			70	150	17	2.2	1.4	3.0	3.0	2.7			73	187	26	2.5	2.0	3.0	5.0	3.0		
41	55	173	24	3.6	1.8	2.3	2.0	3.3			54	136	21	2.6	2.3	2.0	4.0	4.0			64	176	23	3.2	2.7	2.3	5.3	3.3		
42	58	168	26	3.0	3.8	3.0	-	2.7			59	147	24	2.4	1.1	3.0	4.3	3.0			70	175	28	2.9	2.3	2.7	4.3	2.3		
43	56	164	23	2.7	2.9	2.0	2.0	3.0			56	119	17	2.7	1.5	2.0	2.7	3.0			59	167	20	2.6	3.0	1.7	5.0	3.0		
44	58	186	29	2.9	3.3	2.3	2.0	4.0			66	178	24	2.6	2.0	2.0	2.7	3.0			71	204	27	2.5	2.7	2.7	4.3	3.7		
45	NG	-	-	-	-	-	-	-			65	128	17	2.7	3.0	2.7	2.0	3.3			66	171	20	2.5	2.3	1.7	4.3	2.3		
46	66	161	19	3.0	1.9	3.0	1.0	2.0			71	140	18	2.5	3.0	3.0	2.7	4.7			78	186	19	3.3	3.0	3.0	5.3	2.7		
47	59	166	20	3.1	2.7	2.7	1.7	3.0			62	165	21	2.9	2.1	2.0	3.0	3.7			65	203	19	2.9	2.3	2.3	5.0	2.7		
48	60	175	19	3.4	2.5	2.3	2.0	2.7			70	148	17	2.7	1.8	2.3	2.7	4.3			72	190	22	3.3	2.7	2.3	4.7	4.0		
49	56	169	31	3.2	2.7	3.0	1.3	2.7			55	141	26	2.9	1.0	1.0	3.3	3.0			63	170	27	3.0	2.3	2.0	4.7	2.7		
50	57	156	27	2.9	3.4	2.3	1.3	2.3			53	142	22	2.4	1.8	2.0	2.7	3.0			64	179	22	2.5	3.0	2.3	5.0	2.7		

Table 14: Elite joint biofortification nursery, across four locations-Jamnagar, Jaipur, New Delhi and Ludhiana. (for Pedigree of entries see table 7).

Plot size: 1 row x 4 m x 3 reps

E. no.	LDN										Grand Mean									
	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn
1	69	70	17	2.1	1.2	1.0	-	1.0			67	103	19	2.5	2.3	1.8	4.7	2.6		
2	75	74	19	3.1	1.3	3.0	-	1.0			71	114	18	3.0	2.3	2.8	3.1	2.8		
3	69	78	18	2.1	1.2	1.0	-	1.0			61	129	20	2.5	1.9	1.8	3.3	2.8		
4	72	82	11	2.0	1.2	1.0	-	1.0			69	119	16	2.3	2.4	2.2	4.0	2.8		
5	62	77	16	2.0	1.3	1.0	-	1.0			60	123	19	2.6	2.2	1.8	3.8	2.7		
6	79	82	20	2.7	1.2	3.0	-	1.0			72	122	25	2.7	2.1	3.0	2.2	3.0		
7	78	90	20	2.5	1.4	3.0	-	2.0			72	130	22	2.6	2.3	2.9	2.6	2.8		
8	84	40	17	1.8	1.3	3.0	-	1.0			71	101	19	2.6	1.8	2.8	3.2	2.9		
9	NG	-	-	-	-	-	-	-			59	132	19	2.8	2.1	2.4	3.0	2.8		
10	77	43	20	2.4	1.2	1.0	-	1.0			67	120	27	2.7	1.9	1.5	4.9	2.5		
11	82	68	13	1.9	1.2	1.0	-	1.0			67	104	20	2.4	2.1	2.3	3.9	2.6		
12	55	75	18	0.0	1.3	1.0	-	1.0			55	111	18	2.1	2.5	1.8	3.8	2.6		
13	67	73	22	2.9	1.2	3.0	-	2.0			63	111	20	2.7	1.8	2.9	2.7	2.7		
14	56	80	16	2.3	1.8	1.0	-	2.0			56	110	18	2.7	2.2	1.7	5.7	2.5		
15	57	77	14	2.4	1.3	1.0	-	2.0			56	102	15	2.8	2.1	1.3	6.3	2.3		
16	81	75	17	2.7	1.3	1.0	-	1.0			75	106	18	2.7	1.8	2.1	4.1	2.4		
17	69	48	11	1.7	1.2	1.0	-	1.0			64	96	20	2.4	1.9	1.7	4.2	2.3		
18	62	102	12	2.3	1.3	1.0	-	1.0			59	108	21	2.4	2.2	1.2	4.8	1.8		
19	68	80	19	2.2	1.3	1.0	-	3.0			65	112	21	2.3	1.9	1.8	5.3	2.9		
20	79	100	17	2.1	1.8	3.0	-	2.0			71	141	20	2.6	2.1	2.2	4.2	3.4		
21	43	55	16	2.7	1.5	3.0	-	1.0			56	102	22	2.4	2.1	2.7	3.1	2.5		
22	72	85	18	2.8	1.3	3.0	-	3.0			70	114	19	2.9	2.1	2.7	3.2	3.4		
23	59	133	18	2.4	1.4	1.0	-	2.0			61	154	20	2.8	2.0	2.0	3.3	3.5		
24	NG	-	-	-	-	-	-	-			57	136	16	2.7	2.1	1.2	6.2	2.5		
25	NG	-	-	-	-	-	-	-			NG	-	-	-	-	-	-	-		
26	64	73	16	2.7	1.3	1.0	-	1.0			64	168	20	2.6	2.0	2.5	3.2	2.9		
27	68	93	15	2.8	1.4	1.0	-	1.3			65	136	17	2.8	2.2	2.0	3.9	2.8		

Table 14: Elite joint biofortification nursery, across four locations-Jamnagar, Jaipur, New Delhi and Ludhiana. (for Pedigree of entries see table 7).

Plot size: 1 row x 4 m x 3 reps

E. no.	LDN										Grand Mean									
	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn	DF	PH	HL	HD	ETPP	SG	BS	AS	Fe	Zn
28	65	97	15	2.2	1.2	1.0	-	1.7			62	142	17	2.5	1.9	1.4	3.7	2.6		
29	59	100	19	2.7	2.1	1.0	-	1.0			57	159	21	2.6	2.1	1.8	3.4	2.6		
30	73	98	16	3.1	1.4	3.0	-	2.0			69	136	17	3.0	2.2	2.5	3.0	2.8		
31	70	90	19	2.9	1.5	3.0	-	1.0			66	135	18	2.7	2.2	2.7	3.2	2.8		
32	NG	-	-	-	-	-	-	-			64	161	20	2.7	3.0	1.7	4.5	3.0		
33	58	98	16	2.4	1.2	1.0	-	1.0			60	141	20	2.7	1.9	2.4	2.6	2.7		
34	74	78	15	2.1	1.3	3.0	-	1.0			67	154	22	2.4	1.9	2.7	3.3	2.8		
35	NG	-	-	-	-	-	-	-			62	158	19	2.7	3.1	1.8	4.2	2.3		
36	76	112	18	2.7	1.5	3.0	-	2.0			71	168	20	3.2	1.9	2.9	2.6	3.6		
37	81	103	23	2.9	1.3	3.0	-	2.0			71	197	25	2.6	2.7	2.9	3.1	2.8		
38	NG	-	-	-	-	-	-	-			55	161	23	3.2	3.1	2.2	3.2	2.6		
39	NG	-	-	-	-	-	-	-			73	162	20	2.6	2.3	2.8	3.5	3.8		
40	85	103	21	2.8	1.2	3.0	-	2.0			76	147	21	2.5	1.5	3.0	4.0	2.6		
41	66	93	18	2.7	1.3	3.0	-	2.0			60	145	22	3.0	2.0	2.4	3.8	3.2		
42	65	93	22	2.7	1.3	1.0	-	1.0			63	146	25	2.7	2.1	2.4	4.3	2.3		
43	58	64	12	2.5	1.4	1.0	-	1.0			57	129	18	2.6	2.2	1.7	3.2	2.5		
44	71	107	21	3.0	1.4	1.0	-	3.0			67	169	25	2.8	2.3	2.0	3.0	3.4		
45	NG	-	-	-	-	-	-	-			66	149	19	2.6	2.7	2.2	3.2	2.8		
46	75	103	15	2.5	2.2	3.0	-	2.0			73	148	18	2.8	2.5	3.0	3.0	2.8		
47	71	125	20	3.2	1.6	3.0	-	2.0			64	165	20	3.0	2.2	2.5	3.2	2.8		
48	71	98	17	3.1	1.4	3.0	-	1.0			68	153	19	3.1	2.1	2.5	3.1	3.0		
49	60	90	24	2.5	1.2	1.0	-	1.0			59	143	27	2.9	1.8	1.8	3.1	2.3		
50	61	67	12	2.5	1.3	1.0	-	1.0			59	136	21	2.6	2.4	1.9	3.0	2.3		

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
1	DT-1	51	5.0	89
2	DT-2	50	2.0	86
3	DT-3	50	4.0	86
4	DT-4	52	3.0	88
5	DT-5	52	3.0	88
6	DT-6	51	2.0	89
7	DT-7	52	3.0	86
8	DT-8	51	2.0	87
9	DT-9	49	3.0	85
10	DT-10	54	3.0	85
11	DT-11	54	3.0	87
12	DT-12	53	2.0	88
13	DT-13	49	3.0	83
14	DT-14	49	3.0	88
15	DT-15	51	2.0	85
16	DT-16	52	3.0	86
17	DT-17	53	3.0	90
18	DT-18	52	3.0	86
19	DT-19	53	2.0	87
20	DT-20	53	4.0	87
21	DT-21	55	4.0	88
22	DT-22	50	4.0	90
23	DT-23	51	3.0	90
24	DT-24	50	4.0	93
25	DT-25	53	4.0	96
26	DT-26	52	5.0	92
27	DT-27	52	3.0	93
28	DT-28	50	4.0	88
29	DT-29	49	5.0	87
30	DT-30	45	3.0	88
31	DT-31	45	3.0	84
32	DT-32	47	3.0	85
33	DT-33	52	2.0	88
34	DT-34	53	2.0	84
35	DT-35	NG	-	-
36	DT-36	53	3.0	87
37	DT-37	55	2.0	89
38	DT-38	54	2.0	89
39	DT-39	53	4.0	94
40	DT-40	53	3.0	93
41	DT-41	52	3.0	93
42	DT-42	54	2.0	94
43	DT-43	51	3.0	88
44	DT-44	46	4.0	84
45	DT-45	46	3.0	84
46	DT-46	49	2.0	86
47	DT-47	48	2.0	89
48	DT-48	51	4.0	87
49	DT-49	50	3.0	89
50	DT-50	53	5.0	92

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
51	DT-51	46	3.0	87
52	DT-52	53	4.0	87
53	DT-53	47	4.0	86
54	DT-54	46	3.0	88
55	DT-55	48	4.0	88
56	DT-56	49	3.0	84
57	DT-57	50	4.0	89
58	DT-58	54	4.0	93
59	DT-59	46	3.0	90
60	DT-60	54	2.0	87
61	DT-61	56	2.0	88
62	DT-62	54	2.0	88
63	DT-63	55	2.0	89
64	DT-64	54	2.0	-
65	DT-65	55	3.0	-
66	DT-66	53	3.0	-
67	DT-67	55	4.0	-
68	DT-68	54	3.0	-
69	DT-69	54	3.0	86
70	DT-70	55	2.0	86
71	DT-71	54	2.0	88
72	DT-72	54	3.0	88
73	DT-73	52	2.0	88
74	DT-74	51	2.0	89
75	DT-75	52	3.0	87
76	DT-76	54	3.0	90
77	DT-77	55	2.0	93
78	DT-78	56	2.0	93
79	DT-79	54	1.0	94
80	DT-80	54	2.0	98
81	DT-81	NG	-	-
82	DT-82	NG	-	-
83	DT-83	NG	-	-
84	DT-84	NG	-	-
85	DT-85	NG	-	-
86	DT-86	NG	-	-
87	DT-87	NG	-	-
88	DT-88	NG	-	-
89	DT-89	NG	-	-
90	DT-90	NG	-	-
91	DT-91	NG	-	-
92	DT-92	NG	-	-
93	DT-93	NG	-	-
94	DT-94	56	1.0	96
95	DT-95	56	1.0	96
96	DT-96	NG	-	-
97	DT-97	NG	-	-
98	DT-98	NG	-	-
99	DT-99	NG	-	-
100	DT-100	NG	-	-

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
101	DT-101	NG	-	-
102	DT-102	NG	-	-
103	DT-103	NG	-	-
104	DT-104	55	1.0	95
105	DT-105	NG	-	-
106	DT-106	54	2.0	93
107	DT-107	56	4.0	93
108	DT-108	56	2.0	93
109	DT-109	NG	-	-
110	DT-110	NG	-	-
111	DT-111	NG	-	-
112	DT-112	NG	-	-
113	DT-113	57	2.0	96
114	DT-114	57	2.0	96
115	DT-115	56	3.0	93
116	DT-116	NG	-	-
117	DT-117	NG	-	-
118	DT-118	NG	-	-
119	DT-119	NG	-	-
120	DT-120	NG	-	-
121	DT-121	NG	-	-
122	DT-122	NG	-	-
123	DT-123	NG	-	-
124	DT-124	NG	-	-
125	DT-125	NG	-	-
126	DT-126	NG	-	-
127	DT-127	NG	-	-
128	DT-128	57	2.0	96
129	DT-129	57	2.0	96
130	DT-130	NG	-	-
131	DT-131	55	2.0	95
132	DT-132	55	1.0	95
133	DT-133	45	3.0	88
134	DT-134	46	3.0	87
135	DT-135	48	1.0	87
136	DT-136	49	1.0	86
137	DT-137	54	3.0	88
138	DT-138	53	4.0	90
139	DT-139	NG	-	-
140	DT-140	54	6.0	92
141	DT-141	55	1.0	96
142	DT-142	56	2.0	96
143	DT-143	53	2.0	93
144	DT-144	54	2.0	92
145	DT-145	55	3.0	97
146	DT-146	56	3.0	97
147	DT-147	57	4.0	98
148	DT-148	57	2.0	90
149	DT-149	57	2.0	91
150	DT-150	57	2.0	92

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
151	DT-151	55	3.0	88
152	DT-152	56	2.0	89
153	DT-153	57	4.0	88
154	DT-154	53	4.0	92
155	DT-155	55	1.0	95
156	DT-156	52	3.0	92
157	DT-157	NG	-	-
158	DT-158	NG	-	-
159	DT-159	NG	-	-
160	DT-160	NG	-	-
161	DT-161	52	1.0	94
162	DT-162	53	1.0	95
163	DT-163	54	3.0	95
164	DT-164	53	2.0	96
165	DT-165	53	2.0	95
166	DT-166	55	2.0	94
167	DT-167	48	4.0	84
168	DT-168	53	3.0	89
169	DT-169	46	2.0	86
170	DT-170	50	2.0	90
171	DT-171	59	2.0	97
172	DT-172	54	2.0	96
173	DT-173	57	1.0	97
174	DT-174	56	2.0	96
175	DT-175	56	2.0	96
176	DT-176	NG	-	-
177	DT-177	NG	-	-
178	DT-178	53	2.0	98
179	DT-179	53	2.0	96
180	DT-180	54	3.0	96
181	DT-181	NG	-	-
182	DT-182	45	1.0	88
183	DT-183	54	1.0	88
184	DT-184	47	1.0	86
185	DT-185	NG	-	-
186	DT-186	56	4.0	89
187	DT-187	56	2.0	92
188	DT-188	57	1.0	89
189	DT-189	58	3.0	89
190	DT-190	56	2.0	92
191	DT-191	54	1.0	93
192	DT-192	53	2.0	90
193	DT-193	56	2.0	93
194	DT-194	57	1.0	96
195	DT-195	53	3.0	94
196	DT-196	NG	-	-
197	DT-197	54	3.0	94
198	DT-198	55	1.0	94
199	DT-199	56	2.0	95
200	DT-200	53	2.0	89

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
201	DT-201	53	2.0	89
202	DT-202	53	2.0	92
203	DT-203	54	1.0	94
204	DT-204	55	3.0	96
205	DT-205	54	1.0	96
206	DT-206	53	3.0	94
207	DT-207	49	2.0	93
208	DT-208	49	2.0	90
209	DT-209	50	2.0	90
210	DT-210	53	3.0	94
211	DT-211	46	4.0	89
212	DT-212	54	1.0	84
213	DT-213	46	4.0	88
214	DT-214	48	3.0	88
215	DT-215	55	3.0	96
216	DT-216	57	4.0	97
217	DT-217	55	4.0	97
218	DT-218	53	3.0	96
219	DT-219	54	2.0	96
220	DT-220	55	2.0	96
221	DT-221	54	3.0	96
222	DT-222	53	1.0	-
223	DT-223	54	2.0	-
224	DT-224	57	3.0	-
225	DT-225	57	2.0	-
226	DT-226	55	2.0	-
227	DT-227	56	1.0	-
228	DT-228	54	2.0	-
229	DT-229	53	2.0	-
230	DT-230	55	2.0	98
231	DT-231	56	3.0	97
232	DT-232	54	2.0	97
233	DT-233	54	1.0	96
234	DT-234	53	3.0	96
235	DT-235	52	3.0	92
236	DT-236	55	3.0	90
237	DT-237	56	4.0	88
238	DT-238	57	2.0	88
239	DT-239	NG	-	-
240	DT-240	49	3.0	91
241	DT-241	53	2.0	96
242	DT-242	56	2.0	89
243	DT-243	57	3.0	92
244	DT-244	56	3.0	93
245	DT-245	56	3.0	90
246	DT-246	NG	-	-
247	DT-247	NG	-	-
248	DT-248	56	2.0	86
249	DT-249	57	3.0	88
250	DT-250	58	3.0	98

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
251	DT-251	56	1.0	97
252	DT-252	56	1.0	97
253	DT-253	55	1.0	96
254	DT-254	NG	-	-
255	DT-255	45	2.0	95
256	DT-256	47	2.0	91
257	DT-257	48	3.0	91
258	DT-258	NG	-	-
259	DT-259	54	3.0	93
260	DT-260	NG	-	-
261	DT-261	53	3.0	93
262	DT-262	53	2.0	93
263	DT-263	55	3.0	94
264	DT-264	54	4.0	96
265	DT-265	57	3.0	97
266	DT-266	54	4.0	93
267	DT-267	56	3.0	95
268	DT-268	57	3.0	97
269	DT-269	56	2.0	96
270	DT-270	55	3.0	92
271	DT-271	52	3.0	92
272	DT-272	53	4.0	92
273	DT-273	55	3.0	92
274	DT-274	54	3.0	95
275	DT-275	54	3.0	96
276	DT-276	57	4.0	96
277	DT-277	56	2.0	96
278	DT-278	55	2.0	96
279	DT-279	57	2.0	96
280	DT-280	53	3.0	92
281	DT-281	49	2.0	91
282	DT-282	NG	-	-
283	DT-283	NG	-	-
284	DT-284	54	1.0	89
285	DT-285	53	2.0	88
286	DT-286	55	2.0	91
287	DT-287	54	2.0	91
288	DT-288	57	1.0	92
289	DT-289	56	2.0	96
290	DT-290	54	3.0	91
291	DT-291	54	3.0	92
292	DT-292	53	3.0	92
293	DT-293	NG	-	-
294	DT-294	55	2.0	96
295	DT-295	55	3.0	96
296	DT-296	57	2.0	97
297	DT-297	NG	-	-
298	DT-298	NG	-	-
299	DT-299	55	1.0	90
300	DT-300	56	3.0	96

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
301	DT-301	58	1.0	90
302	DT-302	57	1.0	88
303	DT-303	58	1.0	96
304	DT-304	55	1.0	94
305	DT-305	55	2.0	94
306	DT-306	55	1.0	93
307	DT-307	56	1.0	95
308	DT-308	57	1.0	96
309	DT-309	57	1.0	96
310	DT-310	55	1.0	92
311	DT-311	58	3.0	93
312	DT-312	57	3.0	96
313	DT-313	57	2.0	96
314	DT-314	58	2.0	97
315	DT-315	56	2.0	96
316	DT-316	57	3.0	96
317	DT-317	58	2.0	92
318	DT-318	59	1.0	99
319	DT-319	56	1.0	92
320	DT-320	54	3.0	96
321	DT-321	NG	-	-
322	DT-322	55	2.0	98
323	DT-323	56	3.0	93
324	DT-324	56	2.0	96
325	DT-325	56	2.0	96
326	DT-326	57	2.0	96
327	DT-327	58	2.0	97
328	DT-328	58	1.0	97
329	DT-329	57	3.0	97
330	DT-330	57	3.0	98
331	DT-331	54	3.0	95
332	DT-332	53	2.0	95
333	DT-333	56	2.0	95
334	DT-334	57	3.0	96
335	DT-335	56	2.0	97
336	DT-336	55	1.0	91
337	DT-337	54	1.0	92
338	DT-338	-	-	92
339	DT-339	-	-	94
340	DT-340	-	-	94
341	DT-341	56	1.0	95
342	DT-342	56	1.0	96
343	DT-343	56	3.0	96
344	DT-344	56	2.0	96
345	DT-345	56	3.0	92
346	DT-346	57	3.0	95
347	DT-347	55	3.0	92
348	DT-348	55	4.0	96
349	DT-349	52	3.0	96
350	DT-350	53	2.0	97

Table 15: Drought tolerant screening restorer nursery (Shuttle Breeding), across one location-Gudamalani. (for Pedigree of entries see table 8)

Plot size: 1 row x 4 m x 1 reps.

E. no.	Code	GDN		
		DF	ETPP	DM
351	DT-351	54	3.0	97
352	DT-352	55	4.0	96
353	DT-353	55	3.0	97
354	DT-354	57	3.0	97
355	DT-355	58	4.0	96
356	DT-356	55	4.0	96
357	DT-357	58	3.0	97
358	DT-358	55	3.0	96
359	DT-359	56	3.0	98
360	DT-360	55	4.0	98
361	DT-361	52	2.0	93
362	DT-362	53	2.0	93
363	DT-363	53	1.0	93
364	DT-364	54	2.0	96
365	DT-365	55	2.0	96
366	DT-366	55	2.0	96
367	DT-367	56	2.0	93
368	DT-368	57	3.0	97
369	DT-369	57	3.0	97
370	DT-370	55	3.0	94
371	DT-371	53	3.0	93
372	DT-372	54	2.0	94
373	DT-373	55	2.0	96
374	DT-374	55	3.0	96
375	DT-375	56	4.0	95
376	DT-376	57	4.0	97
377	DT-377	57	4.0	97
378	DT-378	56	3.0	93
379	DT-379	56	2.0	93
380	DT-380	55	2.0	94
381	DT-381	54	5.0	96
382	DT-382	54	3.0	96
383	DT-383	53	3.0	95
384	DT-384	55	2.0	96
385	DT-385	56	2.0	97
386	DT-386	56	3.0	97
387	DT-387	53	3.0	94
388	DT-388	55	3.0	92
389	DT-389	56	4.0	94
390	DT-390	54	4.0	94

CRP BIOFORTIFICATION PROJECT

Mean performance of entries for different traits in CRP Biofortification Parental Line Trial (CRPB PLT) *Kharif*-2025

The trial was conducted using 40 entries including two checks across 6 locations viz., Mandor, Jaipur, New Delhi, Jamnagar, Dhule and Hisar. The performance of entries tested for days to 50% flowering, plant height (cm), effective tillers/plant, head length (cm), head girth (cm), seed set (%), and agronomic score. The days to 50% flowering ranged from 46 (Dhanshakti) to 61 (406-BCS-25 and MIR 1707). The plant height ranged from 88 cm (HR 24-11) to 211 cm (285 SB 25). Effective tillers per plant ranged 1.8 (285-SB-25 and 286-SB-25) to 3.3 (MIR 1702). Head length ranged from 14 cm (MIR 1601) to 30 cm (RIB 15195). Head girth ranged from 1.6 cm (MIR 1711) to 3.2 cm (DHLB-CRP-02). The seed set (%) under open pollination condition ranged from 67 (MIR 1707) to 89 (DHLB-CRP-05). Agronomic score ranged from 1.9 (MIR 1601) to 3.8 (DHLB-CRP-05). Grain sample of all test locations collected and analyzed for grain nutrient content at ICAR-IIMR, Hyderabad. Grain iron content ranged from 37 ppm in (282-SB-25 and RIB 15192) to 83 ppm in Dhanshakti (check). Grain zinc content ranged from 29ppm (PPMI 1340) 51ppm. Three entries namely HR 24-11, 406-BCS-25 and DHLB-CRP-01 recorded zinc content equals to best check Dhanshakti (51ppm).

Centre wise brief progress report of CRP Biofortification project *kharif* 2025

Name of Centre	Activity performed
ICAR-AICRP-PM, Jodhpur	➢ CRP Biofortification Parental Line Trial (CRPBPLT *Kharif*-2025) comprising (40 ent. x 1row x 2 rep.) constituted and distributed to associated centers and conducted successfully at Mandor location also. ➢ A total of 144 entries including checks were tested in 2 Initial Station Hybrid Trials during *kharif* 2025. ➢ 61 R-lines having high iron and zinc content were maintained for use in different breeding programmes. ➢ In kharif 2025, generation advancement activity for 6 RxR combinations were advanced from F_2 to F_3 and 19 RxR combinations were advanced from F_1 to F_2. New RXR crosses were attempted using 6 entries for breeding material generation. ➢ 10 promising A/B pairs were maintained and seed was multiplied. ➢ Hybrid development programme was attempted for early and medium maturity group using 5 promising male sterile lines and 27 fertility restorer lines. ➢ Biofortified hybrids/varieties were demonstrated in National demonstration *kharif* 2025. ➢ Seed production of promising parental lines with high iron and zinc was done for future breeding programs. **<u>Technical Programme 2026</u>** ➢ Composition and distribution of CRP Biofortification Parental Line Trial (CRPBPLT) *kharif* 2026 to associated centers. ➢ CRP Biofortification parental Line Trial will be conducted and observation on different aspects will be recorded. ➢ Selection and screening activity will be carried out. ➢ Maintenance programme will be carried out for available high Fe and Zn lines breeding material and A/B Pairs. ➢ Newly developed hybrids will be evaluated along with standard checks in Station hybrid trials and promising hybrid will be selected and advanced.

	➢ Under hybrid development activity more number of AxR crosses and generation advancement activity for RxR crosses will be carried out. ➢ Demonstration of biofortified hybrids/variety along with other in National demonstration *kharif* 2026 and seed increase programme for proposed hybrids will be carried out.
ICAR-IARI, New Delhi	➢ Pusa 2103 (MH 2606) a dual purpose hybrid with high grain and dry stover yield as well as high iron and zinc content was identified for NCT of New Delhi. ➢ 5 entries namely PPMI 1257, PPMI 1339, PPMI 1340, PPMI 1341 and PPMI 1342 were nominated to CRP-Biofortification Parental Line Trial conducted during *kharif* 2025. ➢ 120 bio-fortified hybrids were evaluated and 144 hybrids having high iron and zinc content were developed during *kharif* 2025. ➢ A total of 66 significant MTAs were identified under different environmental conditions for rancidity in pearl millet flour. ➢ Genotypes G150, G211 and G143 consistently showed high protein content across the different environments. ➢ CRP-Biofortification Parental Line Trial (CRPB-PLT) comprising of 40 entries evaluated in two replications during kharif 2025. ➢ Three publications with high impact factor were published in journals of repute like Journal of Food Composition and Analysis, Journal of Cereal Science and Journal of Agricultural Science, Cambridge. **Technical Programme 2026** ➢ Screening of pearl millet lines for iron and zinc. ➢ Evaluation of Fe and Zn enriched hybrids developed in *kharif* 2025 involving parental lines possessing high iron and zinc content. ➢ More number of hybrids will be generated in *kharif* 2026 using diverse and high Fe and Zn restorers and male sterile lines. ➢ Nomination of iron and zinc enriched lines will be made to biofortification trials constituted by AICRP-PM.
JAU, Jamnagar	➢ CRP Biofortification Parental Line Trial (CRPB-PLT) consisted of 40 entries of pearl millet conducted successfully during *kharif* 2025 and data along with grain samples submitted to PC unit. ➢ Six promising breeding lines seed contributed in CRP Biofortification parental line trial *kharif* 2025. ➢ Under breeding materials generation, two R×R and two B×B crosses evaluated during *kharif* 2025 and selected progenies will be evaluated in the next season. ➢ The total 108 lines of breeding materials generated and maintained at this station were screened for their Fe and Zn content at the ICRISAT, Hyderabad in which found 80 breeding line having > 42 ppm Fe and 75 breeding lines having >32 ppm Zn. The range observed for iron from 28 ppm to 119 ppm and for zinc from 16 ppm to 85 ppm. ➢ Total 439.0 kg parental lines breeder seed of biofortified hybrid produced and distributed as per the indent. ➢ Total 429.0 kg TL hybrid seed of biofortified hybrids produced and distributed to farmers. ➢ Under scaling-up activity total 75 FLD's (30 hectare) on biofortified pearl millet

	hybrid GHB 1231 were conducted during *summer*/ *kharif* 2025. **Technical Programme 2026** ➢ The seed of promising B and R lines with higher content of Fe and Zn will be contributed to the PC Unit-Jodhpur for the *kharif* 2026 parental line multi location trial. ➢ Field trial/nurseries of CRPB-PLT breeding lines as per the technical program finalized by the sub-group leader will be conducted and data on related traits will be recorded, and grain as well as straw samples for Fe and Zn determination will be submitted. ➢ New hybrids developed based on high Fe and Zn content parental lines will be evaluated at the station and other locations during *kharif* 2026. Promising hybrids based on yield and their Fe and Zn levels will be promoted or released next year, in 2026. ➢ In next *kharif* 2026 under breeding materials generation, R × R and B × B crosses will be carried out, and existing breeding materials of F_1, F_2, F_3 and advanced generation material will be evaluated during *kharif* 2026, and bulk/progenies selected and screened for Fe and Zn content. ➢ The seed increase program during off-season nurseries in summer 2026 will be undertaken for the promising initial and advanced level hybrids to evaluate them in *kharif* 2026. ➢ Scaling up activities for released hybrids GHB 1231 or GHB 1129 will be carried out through conducting FLDs during summer as well as in *kharif* 2026 season.
ICAR-AICRP-PM, RARI, Jaipur	➢ During *kharif* 2025 eight promising A/B pairs viz., ICMA&B 02333, ICMA&B 92777, ICMA&B 99444, ICMA&B 94333 ICMA&B 04888, ICMA&B 843-22, ICMA&B 96666 maintained at the centre. ➢ 75 designated R lines and 2000 non designated lines maintained at the centre. ➢ 75 Restorers lines and 08 A/B lines characterized for different conventional as well as quality parameters ➢ R x R Crosses: 45 crosses evaluated during *kharif* 2025 ➢ B x B Crosses: 24 crosses planted in *kharif* 2025 ➢ New hybrids: 150 F1 crosses evaluated. ➢ R x R Advancement for high-Fe and Zn: 70 F2 crosses & 12 F3 progenies planted. ➢ High-Fe and Zn F4 Progenies: 10 progenies grown. ➢ High-Fe and Zn F5 & F6 Progenies: 10 single plants progenies grown in *kharif* 2025. ➢ Breeder seed production of male parents of biofortified pearl millet hybrids RHB 233 and RHB 234. **Technical Programme 2026** ➢ Further evaluation of the segregating materials. ➢ Evaluation of Fe and Zn rich hybrids, screening of parental lines and more number of hybrids will be generated by using diverse and high Fe and Zn restorers and male sterile lines. ➢ Maintenance activity for available male sterile lines and established restorers having high grain iron and zinc will be carried out. ➢ Nomination of iron and zinc enriched lines will be made to CRB bio-fortification

	Parental trials.
ICAR-AICRP-PM, MPKV, Dhule	➢ CRP Biofortification Parental Line Trial (CRPB-PLT K-25) of 40 coded lines conducted and data submitted to PC unit. ➢ Released biofortified pearl millet hybrid DHBH-21075 (Phule Muktai) for Maharashtra State Grain Yielding 2592kg/ha with high Fe 70 ppm and Zn 42 ppm content. ➢ Seed of 8 promising breeding lines DHLB-CRP-01 to DHLB-CRP-08 having a higher content of Fe and Zn contributed for CRP Biofortification Parental Line Trial (CRPB-PLT *kharif* 2025) to the PC Unit-Jodhpur ➢ 124 hybrids developed using 7 Male sterile lines namely DHLB 23A, DHLB 30A, DHLB 37A, DHBH 32A, DHLB 14A, DHLB 36A and DHBH 42A with 21 restorer lines having high iron and zinc content. ➢ Maintenance of biofortified male sterile lines by paired crossing viz., DHLB-30 B/A, DHLB-31 B/A, DHLB 32 B/ A, DHLB 33 B/A, DHLB 34 B/A, DHLB 35 B/A and DHLB 36 B/A, DHLB 37 B/A, DHLB 40 B/A. ➢ Maintainable promising restorer lines by sib-mating viz, DHLBFR- 2201 to 2235. ➢ Advancement of IPS selected during Summer-2025 by sib mating. ➢ FLD programme was conducted with biofortified hybrid DHBH- 21075. ➢ Fourteen Biofortified CMS lines - Developed By Bajra Scheme, Dhule ➢ Germplasm sourced for downey mildew resistance B/R lines 28, blast resistance B/R lines 04, bold grains and grain colour13, compact earhead 12, early maturity 05 and multiple resistance lines (DM, Blast, Ergot and Rust) 04. ➢ Total 430 germplasm grown and maintained. ➢ 54 breeding line analyzed out of them 18 breeding line having Fe > 70 ppm and Zn 32 ppm. **<u>Technical Programme 2026</u>** ➢ Development of experimental hybrids: Hybrid will be developed utilizing biofortified male sterile lines and restorers will be tested in *kharif* 2026 in Station trials, UMLT and SMLT trials. ➢ Maintenance of B and R-lines by sib mating, respectively. ➢ Generation advancement of different RxR crosses made by using biofortified parental lines will be carried out during *kharif* 2026. ➢ Advancement of breeding material – B and R improvement: Growing of advanced generations.

ICAR AICRP-PM, CCS HAU, Hisar	➢ 86 A/B pairs – maintain and seed increase was carried out. ➢ 131 pairs/110 segregating A/B pairs advanced to next generation. ➢ 315 B-line progenies planted and 255 progenies advanced (1295 SPS) ➢ 13 F_1s of B x B planted to produce F_2s ➢ 36 fresh A x B crosses to BC1 ➢ Conversion of 5 A/B pairs (BC_1) to to BC_2. ➢ Seed increase was conducted for 133 line (A/B Pair and B-line) SFD material ICRISAT 2024. ➢ Forty entries evaluated in CRPBPLT –K-25. Ten entries namely CRPB-PLT 116, CRPB-PLT 115, CRPB-PLT 140, CRPB-PLT 106, CRPB-PLT 103, CRPB-PLT 109, CRPB-PLT 108, CRPB-PLT 112, CRPB-PLT 113 found promising and agronomic score ranged from 2.0 to 5.0 ➢ B x B crosses: 10 B x B F_1s developed ➢ R x R crosses: 7 R x R F_1s ➢ A x R crosses: 30 testcrosses ➢ Screening of germplasm for different traits. **<u>Technical Programme 2026</u>** ➢ Development of pearl millet genotypes/hybrids for high iron/zinc and other micronutrients. ➢ The main focus will be to screen available pearl millet germplasm for different nutritional traits in pearl millet. for e.g. mineral traits like Ca, Mg, Fe, Zn, P, K etc. ➢ Screening of germplasm for different traits
CCS HAU, Hisar	Under the project objective 5 and 6 i.e Development of value added products, ready to cook and multigrain mixtures suitable for mid-day meal schemes and Socio-Impact studies for assessment of consumer knowledge, preference and preparedness for biofortified products and sensitization and popularization of biofortified products following activities were performed. Pearl millet hybrids viz. HHB 311 and HHB 299 were used to find out the effect of different processing methods like blanching, malting and fermentation of sprouts on crude fat content (%) of pearl millet flour (on dry weight basis). Crude fat content of unprocessed pearl millet flour was 6.18 (HHB 299) and 6.43 (HHB 311) per cent. Fat content of HHB 311 pearl millet flour malt germinated for 48, 60 and 72 hours was observed as 5.66, 5.49 and 5.18 per cent, respectively. Fat content of HHB 299 malted flour germinated for 48, 60 and 72 hours was observed as5.49, 5.25 and 5.02 per cent, respectively. Fat content of HHB 299 blanched pearl millet flour was 5.86 per cent while that of HHB 311 variety was 6.17 per cent. Fermented pearl millet flour contained 5.74 (HHB 299) and 5.94 (HHB 311) per cent crude fat. Per cent reduction in crude fat content during processing of HHB 299 variety ranged from 5.09 to 18.77 per cent and in HHB 311 it was 4.04 to 19.41 per cent as compared to control. Effect of processing on crude protein content (%) of pearl millet flour (on dry weight basis). A significant decrease was observed in crude protein content of malted flour (72 h) from 10.46 percent to 10.21 percent in HHB 299 and 11.48 percent to 11.24 per cent in HHB 311 variety. However, the crude protein content of all other types of processed flours increased by 3.70 to 7.30 per cent, compared to control in both the varieties.

Currently, multi-millet (Pearl millet, Finger millet and Foxtail millet) traditional recipes such as *Halwa* and *Suhali* are being standardized.

- **Technology Intervention given to student, farmers and rural ladies through lectures, trainings and demonstrations**







<u>Technical Programme 2026</u>

- Development of value added products, ready to cook and multigrain mixtures by utilization of biofortified and non-biofortified pearl millet hybrids/ varieties for product development.
- Nutritional analysis of developed value-added products.
- Trainings, lectures, demonstrations, surveys etc. for popularization of pearl millet products.
- Socio-Impact studies for assessment of consumer knowledge, preference and preparedness for biofortified products and sensitization and popularization of biofortified products.

Table 1: CRP Biofortification parental line trial (CRPB-PLT) *kharif* -2025 across 6 locations: Mandor, Hisar, New Delhi, Jaipur, Jamnagar and Dhule.

S. No.	Entry name	Location																														
		Mandor									Hisar									New Delhi									Jaipur						
		DF	PH	PP	HL	HD	SS	AS	Fe	Zn	DF	PH	PP	HL	HD	SS	AS	Fe	Zn	DF	PH	PP	HL	HD	SS	AS	Fe	Zn	DF	PH	PP	SS	AS	Fe	Zn
1	PPMI 1257	47	133	1.3	14	1.8	80	2.8	35	42	55	153	2.3	19	2.4	80	2.5	75	55	51	158	2.5	17	2.2	68	3.0	48	27	49	130	1.2	83	2.5	38	31
2	PPMI1339	51	105	1.3	23	2.4	80	2.5	36	41	52	150	2.2	26	2.9	80	2.8	80	47	51	159	2.9	25	2.6	65	2.0	80	35	50	147	1.5	80	3.5	40	31
3	PPMI 1340	56	133	1.5	15	2.8	85	3.0	28	31	55	158	2.5	15	2.9	93	4.3	73	47	56	194	3.0	17	2.9	73	3.0	40	19	52	138	1.3	83	3.0	31	26
4	PPMI 1341	53	148	1.3	16	2.9	83	3.3	53	50	58	182	2.5	19	3.0	83	3.3	58	41	59	184	2.7	16	2.6	70	2.5	83	40	56	134	1.3	88	3.5	78	43
5	PPMI 1342	52	130	2.0	20	2.8	90	4.3	30	46	49	183	2.5	25	2.4	80	2.5	50	53	62	177	3.0	23	2.3	75	2.5	42	27	51	157	2.2	78	3.5	45	34
6	RIB 15191	45	140	1.5	20	1.7	80	2.8	22	36	47	214	2.5	25	2.4	93	4.5	66	46	50	219	2.6	19	1.7	75	3.0	35	23	50	147	1.7	85	2.5	37	31
7	RIB 15192	44	145	1.3	18	2.1	70	2.3	19	32	53	186	2.3	27	2.6	80	2.5	73	53	49	202	2.7	17	2.4	75	3.0	35	21	47	148	1.3	88	2.5	33	31
8	RIB 15193	52	120	1.0	16	2.0	73	2.3	24	38	54	194	2.3	26	2.7	93	4.0	69	55	50	194	3.0	20	2.0	73	3.5	77	41	46	168	1.8	93	3.5	48	47
9	RIB 15194	55	133	1.0	15	2.1	75	2.8	38	46	58	219	2.2	23	2.4	90	4.3	48	52	55	179	2.7	17	1.7	73	4.0	36	23	52	155	1.5	95	3.5	34	32
10	RIB 15195	42	148	1.5	25	1.9	70	2.0	28	42	51	205	2.5	32	1.9	80	2.3	75	53	51	211	3.0	29	1.6	60	2.0	60	38	45	143	1.3	88	2.0	57	36
11	DHLB-CRP-01	53	110	1.5	16	3.1	80	3.0	33	53	56	148	2.5	21	3.2	85	3.0	100	63	62	156	2.8	17	2.1	65	2.5	85	50	56	141	1.2	83	4.0	54	41
12	DHLB-CRP-02	57	105	1.8	12	3.0	80	3.5	44	54	57	150	2.3	17	3.4	90	4.0	86	49	59	194	2.8	15	3.1	78	3.5	57	34	57	139	1.0	80	4.0	64	38
13	DHLB-CRP-03	51	120	1.3	13	3.2	83	3.5	32	40	58	168	2.5	15	3.1	88	3.8	87	72	55	171	3.0	15	2.8	68	3.0	60	40	48	132	1.7	93	3.0	40	39
14	DHLB-CRP-04	61	95	1.5	14	2.9	55	2.3	21	41	56	148	2.7	13	2.8	80	2.8	64	50	52	164	3.1	16	2.7	73	3.0	47	32	56	120	1.0	85	3.0	31	31
15	DHLB-CRP-05	54	103	1.5	13	2.9	85	3.3	37	51	56	150	1.5	17	2.8	93	4.8	85	70	62	169	2.8	15	2.6	78	4.0	70	37	54	170	1.0	90	5.0	55	39
16	DHLB-CRP-06	50	153	1.3	21	3.2	93	3.8	52	54	57	199	2.3	25	3.4	95	5.0	72	54	52	192	3.0	26	2.7	78	3.0	88	29	47	152	2.0	83	3.5	68	38
17	DHLB-CRP-07	53	130	1.8	14	3.0	85	3.0	36	47	58	150	2.7	17	3.0	85	3.5	63	49	60	177	2.7	16	2.8	73	4.0	78	43	54	131	1.6	78	3.5	42	36
18	DHLB-CRP-08	50	128	1.5	15	2.7	80	2.3	33	41	58	140	2.3	18	2.8	83	2.8	67	45	52	174	2.9	20	2.5	70	3.0	87	35	48	128	2.0	78	3.0	73	49
19	HR 24-9	51	133	1.5	14	2.9	88	3.3	33	33	58	167	2.5	17	2.6	80	2.5	41	39	51	169	3.0	19	2.5	70	3.0	52	29	48	131	1.5	85	3.0	42	29
20	HR 24-10	49	110	1.8	18	1.9	88	3.0	23	38	58	143	2.7	22	2.1	78	2.0	74	59	53	150	2.8	22	2.0	73	2.5	39	29	46	91	2.8	85	3.0	34	31
21	HR 24-11	58	63	1.8	12	2.5	48	2.0	24	59	57	80	2.2	17	3.2	80	2.5	57	51	53	84	3.0	17	2.7	68	2.5	100	56	51	132	1.3	93	3.0	47	49
22	HR 24-12	51	113	1.5	13	2.6	80	3.5	33	48	58	156	2.2	16	3.4	85	2.8	61	46	51	145	2.5	16	2.7	65	2.0	111	57	48	162	1.8	90	3.0	59	35
23	282-SB-25	61	118	1.0	17	2.3	55	2.3	26	39	57	166	2.2	17	2.4	88	3.5	47	48	58	162	2.7	25	2.6	73	3.0	46	26	54	222	2.0	93	4.0	30	24
24	285-SB-25	60	178	1.8	25	2.8	85	3.3	48	59	57	223	1.8	26	2.8	85	3.0	66	57	64	235	3.0	24	2.6	83	4.0	43	20	51	216	1.5	83	4.0	48	38
25	286-SB-25	61	148	1.8	23	2.9	58	2.8	43	50	59	198	2.0	25	3.2	80	2.5	66	45	64	218	2.5	19	2.9	85	4.0	78	42	57	178	1.2	85	3.0	39	32
26	304-SB-25	57	153	1.0	21	2.2	70	3.3	45	48	59	184	2.3	20	2.5	80	3.0	98	72	63	217	2.6	19	2.6	78	4.0	88	40	56	169	1.6	83	4.0	55	42
27	305-SB-25	62	125	1.5	17	2.2	40	1.5	48	56	58	154	2.3	19	2.8	80	2.5	58	56	63	174	2.9	14	2.4	65	2.5	86	38	57	120	1.7	93	3.0	53	34
28	391-BCS-25	63	78	1.5	18	3.0	43	1.8	49	59	59	126	2.3	20	2.9	85	3.3	76	60	63	134	3.0	18	2.5	75	3.5	63	33	57	100	2.1	90	2.5	66	50
29	394-BCS-25	51	83	1.5	15	3.0	53	2.8	52	52	59	125	2.8	21	2.6	80	2.5	57	47	53	118	2.8	20	2.2	73	2.0	63	31	49	103	1.5	93	2.5	51	38
30	406-BCS-25	66	105	1.8	20	3.0	58	3.5	48	55	58	125	2.3	22	2.9	85	3.3	101	73	60	112	2.8	12	1.5	65	2.0	107	63	60	108	1.6	78	4.5	40	35
31	419-BCS-25	61	103	2.0	15	3.0	63	2.8	41	56	57	134	2.2	19	2.9	80	2.5	67	55	54	130	3.0	16	2.5	63	2.0	93	57	51	131	1.8	83	2.5	54	48
32	426-BCS-25	50	130	1.0	18	3.0	68	2.8	33	44	57	148	2.2	22	2.9	83	2.8	60	50	50	158	2.7	24	2.9	68	3.0	74	41	51	126	1.0	88	3.0	36	37
33	MIR 1410	51	128	1.8	16	1.7	80	2.8	28	46	58	164	2.2	20	2.0	88	3.5	50	51	51	159	3.0	20	1.4	73	3.0	41	26	52	132	1.2	88	3.5	28	39
34	MIR 1601	45	118	2.0	13	1.6	70	2.8	30	44	50	165	2.2	14	1.8	78	2	43	40	51	168	2.7	13	1.5	68	2.0	43	29	46	136	1.0	93	2.5	54	41
35	MIR 1702	46	135	2.0	13	1.7	75	3.3	43	38	56	177	2.3	19	2.1	78	2	57	40	55	181	3.0	17	1.5	78	3.5	66	27	51	147	2.3	95	3.5	49	41
36	MIR 1704	54	88	1.8	13	1.8	78	3.0	40	47	55	126	2.0	16	2.0	75	2.0	43	48	62	110	2.7	14	1.4	65	2.5	57	38	54	113	2.8	93	3.5	45	44
37	MIR 1707	52	150	2.0	19	1.8	70	2.8	31	42	55	228	2.0	23	2.1	80	2.5	66	55	73	168	2.8	21	1.4	73	2.5	44	46	64	191	4.3	75	2.5	30	32
38	MIR 1711	51	160	2.0	21	1.8	70	2.5	32	43	57	165	2.2	18	1.8	78	2.3	62	47	73	203	3.0	22	1.3	73	2.5	51	46	59	163	3.7	83	2.5	30	36
39	ICMB 98222 (C)	56	98	2.0	12	2.5	63	2.0	47	47	57	145	2.5	17	2.3	80	3.3	73	57	48	150	2.9	15	2.2	70	2.5	104	61	50	132	1.0	90	3.0	66	47
40	Dhanshakti (C)	47	168	1.8	22	2.9	85	3.0	65	51	48	226	2.2	26	3.4	93	4.8	66	55	46	200	3.0	23	2.0	70	2.5	114	55	43	158	1.3	93	3.0	73	50

Table 1: CRP Biofortification parental line trial (CRPB-PLT) *kharif*-2025 across 6 locations: Mandor, Hisar, New Delhi, Jaipur, Jamnagar and Dhule.

S. No.	Entry name	Location																										
		Jamnagar									Dhule									Grand Mean								
		DF	PH	PP	HL	HD	SS	AS	Fe	Zn	DF	PH	PP	HL	HD	SS	AS	Fe	Zn	DF	PH	PP	HL	HD	SS	AS	Fe	Zn
1	PPMI 1257	47	145	2.7	16	1.9	55	2.0	49	42	-	-	-	-	-	-	-	-	-	50	144	2.0	16	2.1	73	2.6	49	39
2	PPMI1339	51	135	2.0	28	2.7	55	2.0	55	50	58	125	3.0	30	3.0	70	1.0	67	40	52	137	2.1	26	2.7	72	2.3	60	41
3	PPMI 1340	56	176	2.6	17	3.2	88	2.5	42	31	62	192	2.5	19	3.1	85	1.5	39	24	56	165	2.2	16	3.0	84	2.9	42	29
4	PPMI 1341	57	176	3.1	18	3.1	83	1.5	90	51	63	148	3.0	16	2.7	43	1.0	74	46	58	162	2.3	17	2.9	75	2.5	73	45
5	PPMI 1342	51	158	4.1	22	2.7	93	4.0	35	35	62	161	3.0	27	3.2	88	1.0	45	37	54	161	2.8	23	2.7	84	3.0	41	39
6	RIB 15191	45	176	3.1	24	1.7	65	2.0	44	38	53	161	3.5	25	2.1	70	1.0	41	34	48	176	2.5	22	1.9	78	2.6	41	35
7	RIB 15192	44	158	3.1	16	2.6	73	2.0	35	29	50	148	4.0	20	2.3	85	1.0	26	28	48	164	2.4	19	2.4	78	2.2	37	32
8	RIB 15193	47	174	2.5	24	2.6	93	4.0	62	41	60	184	3.0	27	2.5	93	1.5	64	38	51	172	2.3	22	2.4	86	3.1	57	43
9	RIB 15194	53	189	3.8	21	2.2	93	4.0	39	32	59	201	5.5	22	2.5	88	2.0	33	30	55	179	2.8	19	2.2	86	3.4	38	36
10	RIB 15195	47	165	2.4	31	1.6	90	3.0	48	35	50	139	3.5	35	2.1	60	1.0	66	33	47	168	2.4	30	1.8	75	2.0	56	39
11	DHLB-CRP-01	60	154	2.0	18	3.2	93	3.5	91	50	60	168	2.0	20	3.2	88	1.5	86	51	58	146	2.0	18	2.9	82	2.9	75	51
12	DHLB-CRP-02	56	159	2.6	16	3.1	93	3.5	47	42	62	140	2.5	16	3.4	83	1.0	59	41	58	148	2.2	15	3.2	84	3.3	59	43
13	DHLB-CRP-03	50	149	2.6	17	2.8	73	1.5	50	45	58	163	4.0	18	3.2	78	1.0	53	32	53	150	2.5	15	3.0	80	2.6	54	44
14	DHLB-CRP-04	53	150	2.4	17	2.9	75	2.5	41	39	59	151	2.5	18	3.2	78	1.0	45	31	56	138	2.2	15	2.9	74	2.4	42	37
15	DHLB-CRP-05	53	158	2.6	17	3.0	89	3.0	51	39	58	154	3.0	18	3.4	100	2.5	49	36	56	150	2.1	16	2.9	89	3.8	58	45
16	DHLB-CRP-06	52	115	3.4	15	2.7	63	2.5	76	51	52	145	4.0	20	3.1	65	1.5	67	27	52	159	2.7	21	3.0	79	3.2	70	42
17	DHLB-CRP-07	54	150	2.8	17	3.1	90	4.0	55	46	57	152	3.5	16	3.3	94	2.0	53	40	56	148	2.5	16	3.0	84	3.3	54	43
18	DHLB-CRP-08	42	161	2.4	20	3.3	70	2.5	86	51	55	156	3.5	18	3.1	75	1.0	84	45	51	148	2.4	18	2.9	76	2.4	72	44
19	HR 24-9	45	163	2.5	21	3.0	73	2.5	46	33	54	139	5.0	16	2.9	70	1.0	46	33	51	150	2.7	17	2.8	78	2.5	43	33
20	HR 24-10	45	126	2.6	22	2.0	65	2.0	36	38	51	120	4.0	24	2.1	55	1.0	63	39	50	123	2.8	21	2.0	74	2.3	45	39
21	HR 24-11	47	90	1.4	16	2.9	68	1.5	55	45	63	82	3.5	17	3.0	60	1.0	60	45	55	88	2.2	16	2.8	69	2.1	57	51
22	HR 24-12	44	120	1.5	17	3.2	75	1.0	86	44	56	100	2.5	17	3.2	80	1.0	88	43	51	133	2.0	16	3.0	79	2.2	73	45
23	282-SB-25	52	181	1.4	23	2.5	83	3.5	43	40	56	162	3.0	32	3.0	93	1.5	30	24	56	168	2.0	22	2.6	81	3.0	37	34
24	285-SB-25	58	194	1.4	26	2.8	93	4.0	43	42	59	222	1.5	27	3.3	97	1.0	43	30	58	211	1.8	25	2.8	87	3.2	48	41
25	286-SB-25	60	172	2.1	20	2.8	90	3.0	53	51	62	224	1.5	25	3.5	98	2.0	51	42	60	190	1.8	22	3.1	83	2.9	55	44
26	304-SB-25	57	185	2.1	21	2.8	93	3.0	79	53	63	213	2.5	22	2.9	95	1.5	64	41	59	187	2.0	20	2.6	83	3.1	72	49
27	305-SB-25	57	170	1.9	18	2.7	73	2.5	72	47	62	154	2.0	18	2.7	95	1.0	57	40	60	149	2.0	17	2.5	74	2.2	62	45
28	391-BCS-25	56	118	2.5	27	3.2	68	2.5	59	43	60	109	3.5	24	3.0	85	1.0	57	45	59	111	2.5	21	2.9	74	2.4	62	48
29	394-BCS-25	54	120	2.4	22	2.9	58	2.5	68	41	61	114	1.5	23	3.0	91	1.0	49	33	54	110	2.1	20	2.8	74	2.2	57	40
30	406-BCS-25	61	130	2.3	26	3.2	88	4.0	55	43	61	112	2.5	25	3.3	88	1.5	62	41	61	115	2.2	21	2.8	77	3.1	69	51
31	419-BCS-25	54	155	2.0	18	3.7	90	3.5	48	38	56	143	1.5	19	3.4	53	1.0	69	47	55	133	2.1	17	3.1	72	2.4	62	50
32	426-BCS-25	47	174	3.6	23	2.9	83	3.5	62	46	56	171	2.5	25	3.3	60	1.0	48	40	52	151	2.2	22	3.0	75	2.7	52	43
33	MIR 1410	49	152	4.1	19	1.8	63	1.0	44	43	55	144	4.5	22	2.1	80	1.0	40	44	53	146	2.8	19	1.8	78	2.5	39	41
34	MIR 1601	44	128	3.1	13	1.7	45	1.0	54	45	51	143	4.5	16	2.1	65	1.0	41	41	48	143	2.6	14	1.7	70	1.9	44	40
35	MIR 1702	48	157	4.8	18	2.0	85	3.5	69	37	55	164	5.5	19	2.1	75	1.5	65	39	52	160	3.3	17	1.9	81	2.9	58	37
36	MIR 1704	53	117	4.1	14	1.6	58	2.0	52	41	63	103	3.0	19	2.0	60	1.0	45	46	57	109	2.7	15	1.8	71	2.3	47	44
37	MIR 1707	61	184	3.8	22	1.6	50	1.5	41	39	61	196	3.5	22	1.9	53	1.0	73	45	61	186	3.1	21	1.7	67	2.1	48	43
38	MIR 1711	50	165	3.8	21	1.3	45	1.5	45	43	56	190	4.0	26	1.9	68	1.0	39	37	58	174	3.1	21	1.6	69	2.0	43	42
39	ICMB 98222 (C)	48	150	2.4	15	2.9	70	2.5	66	43	53	155	1.5	19	3.4	88	1.0	90	51	52	138	2.1	15	2.7	77	2.4	74	51
40	Dhanshakti (C)	41	159	2.0	19	2.7	63	2.0	95	51	50	205	3.5	24	3.2	83	1.0	89	43	46	186	2.3	23	2.8	81	2.7	83	51

DF: Days to 50% flowering, PH: Plant height (cm), PP: Panicle/Plant, HL: Head length (cm), HD: Head diameter, SS: seed set (%), AS: Agronomic Score, Fe (ppm) Zn (ppm)

TRIALS MONITORING REPORT

ICAR-AICRP on Pearl millet Monitoring Report-Kharif 2025

Team No.	Monitoring Team	Name of Centre	Date of Monitoring	Remarks/Comments	Overall Remarks
Team 5	Dr. S.K Jain, Assoc. Prof. (PB&G) & Incharge ICAR-AICRP-PM, RARI, Durgapura Jaipur- Convenor Dr. Seema Sharma, Assoc. Prof. (Agronomy), RARI, Durgapura Jaipur- Member DrBhaviya Mishra, Asstt. Prof. (athology), RARI, Durgapura Jaipur- Member DrBirbal Bairwa, Asstt. Prof. (Entomology), RARI, Durgapura Jaipur- Member	CCS HAU, Hisar	25.09.2025	**Breeding:** All allotted trials were conducted as per approved technical programme **CRP Biofortification Trials** **ICAR-ICRISAT Trials** **Agronomy:** All allotted trials were conducted as per approved technical programme **Pathology:** All 8 pathological trials successfully conducted as per technical programme	Good
		RRS, CCS HAU, Bawal	25.09.2025	**Breeding:** All allotted trials were conducted as per approved technical programme	Good
		ARS, Fatehpur Shekhawati	25.09.2025	**Breeding:** All allotted trials were conducted as per approved technical programme **Entomology:** All 8 Entomology trials successfully conducted as per technical programme	Good
Team 2.	Dr. Vikas Khandelwal, Breeder, ICAR-AICRP on Pearl millet, Jodhpur- Convenor	ARS, SKRAU, Bikaner	01.10.2025	**Breeding-** All allotted trials were conducted as per approved technical programme Two Station Trials conducted **Agronomy-** All allotted trials were conducted as per approved technical programme	Good All the experiments are maintained well.
		ARSS, Samdari and Gudamalani	21.09.2025	**Breeding-** Both allotted trials were conducted as per approved technical programme	Good
Team 1.	Dr. S. N. Saxena, Head, ICAR-IIMR-RRS on Pearl millet, Gudamalani- Convenor Dr. Sanjana Reddy, Principal Scientist, ICAR-IIMR, Hyderabad-Member Dr. Gopi Kishan, Scientist, ICAR-IIMR-RRS on Pearl millet, Gudamalani-Member	PC Unit, Jodhpur	30.09.2025	**Breeding-**Both allotted trials were conducted as per approved technical programme **Pathology-** All allotted trials were conducted as per approved technical programme Agronomy- All allotted trials were conducted as per approved technical programme	Good
		BRCARS, Jodhpur	30.09.2025	**Breeding-** Both allotted trials were conducted as per approved technical programme **Entomology-** All 8 allotted trials were conducted as per approved technical programme	Good

Team 3.	Dr. Sanjana Reddy, Principal Scientist, ICAR-IIMR, Hyderabad-Convenor	ICAR-IARI, New Delhi	23.09.2025	**Breeding-** Both allotted trials were conducted as per approved technical programme CRPB-PLT	Good
		PAU, Ludhiana	25.09.2025	Breeding- 4 allotted trials were conducted as per approved technical programme One EIJBFT & 2 Station trail	Good
		Kaveri Seed, Alwar Corteva, Rewari	24.09.2025	Breeding- Allotted trial was conducted as per approved technical programme Breeding- Allotted trial was conducted as per approved technical programme	Good
Team 4.	Dr. K. D. Mungra, RS Bajra, Jamnagar – Convener Dr. H.M. Bhuva, RS Bajra, Jamnagar-Member Dr. Rajesha G., IIMR, Hyderabad	RARI, Durgapura Jaipur	22.09.2025	**Breeding-** All 5allotted trials were conducted as per approved technical programme CPB-PLT, 2 Station trial	Good
				Agronomy- All 7 allotted trials were conducted as per approved technical programme	All the experiments are maintained well.
				Entomology- All 9 allotted trials were conducted as per approved technical programme	Good
				Plant Pathology- All 8 pathological trials successfully conducted as per technical programme	Satisfactory
				Plant Physiology - - All trials successfully conducted as per technical programme	Good
		ARSS, Tabiji Ajmer	-	**Breeding-** All allotted trials were conducted as per approved technical programme	Failed
		Jaipur, Seed Works	23.09.2025	**Breeding-** Both allotted trials were conducted as per approved technical programme	Good
Team 6. A	Dr. S. P. Singh, Principal Scientist (GPB), IARI, New Delhi-Convenor	Kartik Seeds, Agra	06.10.2025	**Breeding-** Allotted Trail was conducted as per approved technical programme	Failed
		Mahindra, Agra	06.10.2025	**Breeding-** Allotted Trail was conducted as per approved technical programme	Good (Blast Incidence)
		Hytech Seed	06.10.2025	**Breeding-** Both allotted trials were conducted as per	Expression Excellent

	Dr. Minakshi Grover, Principal Scientist (Microbiology), IARI, New Delhi- Member	India, Aligarh		approved technical programme	(Blast Incidence)
		Kaveri Seed Company Ltd., Bichpuri	06.10.2025	**Breeding-** Allotted trial were conducted as per approved technical programme	Expression Excellent (Blast Incidence)
		Kamadgiri Crop Sci. Ltd., Raipura	06.10.2025	**Breeding-** Both allotted trials were conducted as per approved technical programme	Expression Excellent (Blast Incidence)
Team 6. B	Dr. Nirupama Singh, Principal Scientist (GPB), IARI, New Delhi- Convenor Dr. R. S. Bana Principal Scientist (GPB), IARI, New Delhi- Convenor	Ganga Kaveri, Hathras	08.10.2025	**Breeding-** Allotted trial were conducted as per approved technical programme	Good
		Nuziveedu Seeds, Bharatpur	08.10.2025	**Breeding-** Allotted trial were conducted as per approved technical programme	Good
Team 7.	Dr. Dev Vart, Senior Scientist (PB), CCSHAU, Hisar Dr. Vinod Malik, Assistant Professor-Pathology, CCSHAU, Hisar	RVSKVV, Gwalior and Morena	25.09.2025	**At RVSKVV, Gwalior** **Breeding-** All 5 allotted coordinated trials were conducted as per approved technical programme Station Trials 04 Station trials conducted	Good
				Pathology- All 8 coordinated trials successfully Conducted as per approved technical programme	
			25.09.2025	**At Morena-** Allotted coordinated trial (2) were conducted as per approved technical programme	Good
Team 9.	Dr. K.K. Barhate, Professor (Pearl Millet Breeding) AICRP on Pearl Millet, Bajra Research Scheme, COA, (MPKV), Dhule - Convenor Dr. C. S. Thakre, Asstt. Prof. (Pathology.) AICRP-PM, COA, Dhule - Member Sh. R.T. Suryavanshi, Asstt.	MRS, Jamnagar	30.09.2025	**Breeding-** All 5 allotted coordinated trials were conducted as per approved technical programme One station Trial	Good
				Agronomy- All 5 allotted trials were conducted as per approved technical programme	Satisfactory
				Plant Pathology- All 9 coordinated trials successfully Conducted as per approved technical programme	Good
				Plant Physiology- All 3 trials allotted were conducted as per technical programme	Good

	Prof. (Agronomy.) AICRP-PM,COA, Dhule-Member			**Entomology-**All 11 trials conducted as per approved technical programme.	Good
Team 8.	Dr. Sushma Tiwari, Principal Scientist (Breeding), ICAR-AICRP-PM, MRS, Gwalior Dr. R. B. Jatav, ICAR-AICRP-PM, MRS, Gwalior	RRS, Anand	03.10.2025 04.10.2025	**Breeding-** One trial allotted was conducted as per technical programme	Good
		ARSS, Talaja		**Entomology- All** 4 allotted trials were conducted as per approved technical programme	Good
		Ahmadabad, Biostadt		**Breeding**- One allotted trial was conducted as per approved technical programme	Failed
		Dehgam, Kaveri Seed		**Breeding-** All 2 allotted trials were conducted as per approved technical programme	-
		MRS, Deesa		**Breeding-** All 3 allotted trials along with 8 station trials were conducted as per approved technical programme	Good
Team 12.	Dr. S.B. Pawar, NARP, Aurangabad- Convenor Dr. A. B. Bagade, NARP, Aurangabad- Member Dr. D.G. Hingole, NARP, Aurangabad- Member	RARS, Vijayapur	13.10.2025	**Breeding-** All 6 trials allotted were conducted as per approved technical programme 11 Station trials	Satisfactory
				Agronomy- All 5 allotted trials were conducted as per approved technical programme	Satisfactory
		ARS, Malnoor	-	**Breeding-** All 4 trials allotted were conducted as per approved technical programme	Failed
		KSSC, Dharwad, Karnataka	-	**Breeding-** Trial allotted was conducted as per approved technical programme	Good
		ARS, Anantpuram	16.10.2025	**Breeding-** All 6 trials allotted were conducted as per approved technical programme	Good
Team 14.	Dr. Dr. Ruchika Bhardwaj, Breeder, PAU, Ludhiana	TNAU, Coimbatore	29.09.2025	**Breeding-** All 6 trials allotted were conducted as per approved technical programme 1 IIMR & 1 Station trial	Good
				Agronomy- All f4 allotted trials were conducted as per approved technical programme	Well managed

				Plant Pathology- All 5 coordinated trials Conducted as per approved technical programme	Good
		UOM, Mysore	-	**Plant Pathology-** All 8 coordinated trials Conducted as per approved technical programme	Good
Team 13.	Dr. Babar Sadhana R., Scientist, (Agronomy) & Incharge AICRP-PM, RRS, Vijaypur - Covener	ARS, Perumallapalle	26.09.2025	**Breeding-** All 2 trials allotted were conducted as per approved technical programme	Good
				Agronomy- One allotted trials were conducted as per approved technical programme.	Good
				Plant Pathology- All 2 coordinated trials and 1 Epidemiology trial, 1 PMBVNconducted as per approved technical programme	Maintained properly
		ARS, Vizianagaram	26.09.2025	**Breeding-** All 3 trials allotted were conducted as per approved technical programme	Good
				Plant Pathology- All 2 coordinated trials Conducted as per approved technical programme. PMBVN trial	Maintained properly
		RARS, Palem	26.09.2025	**Breeding-** All 4 trials allotted were conducted as per approved technical programme	PT only Good Others Failed
		Toopran Medak, NU Genes	26.09.2025	**Breeding-** One allotted trial were conducted as per approved technical programme.	Failed
Team 10.	Dr. Chandra Nayak, Professor (Patholgy), AICRP-PM, Mysore – Convenor Dr. L Madhavilatha, Breeder, AICRP-PM, Anantpuram Member	NARP, Aurangabad	08.10.2025	**Breeding-** All 6 trials allotted were conducted as per approved technical programme ICRISAT and two station trial	Satisfactory
				Agronomy- All 5 allotted trials were conducted as per approved technical programme	Managed properly
				Entomology- 5 Trials were harvested before the team's visit	Good
				Plant Pathology- All 8 coordinated trials Conducted as per approved technical programme	Satisfactory
		Nath Seeds, Paithan	07.10.2025	**Breeding-** Two trials allotted were conducted as per approved technical programme	One Good One Failed
		Aurangabad, Seed Works	07.10.2025	**Breeding-** All 2 trials allotted were conducted as per approved technical programme	Satisfactory
		Ajeet Seeds,	08.10.2025	**Breeding-** All trials allotted were conducted as per	Good

		Aurangabad		approved technical programme	
Team 11.	Dr. K Iynar Associate Professor, TNAU Dr V Vasuki, Associate Professor, TNAU Dr. I Johnson, Assistant Professor, TNAU	COA, Dhule	28.09.2025	**Breeding-** All 6 trials allotted were conducted as per approved technical programme ICRISAT and two station trial	Good
				Agronomy- All 5 allotted trials were conducted as per approved technical programme	Good
				Plant Pathology- All 8 coordinated trials Conducted as per approved technical programme	Good

CHAPTER II
AGRONOMY

AGRONOMY

The agronomical trials conducted at different locations under All India Coordinated Research Project on Pearl Millet are presented in Table II.1. The plot history and agronomical operations carried out in these trials are briefly presented in Table II.2.

PMAT 1: Response of pearl millet advance hybrids and/or populations to different levels of nitrogen

Response of different advance hybrid entries (early, medium and late) under different levels of nitrogen among different Zones was studied. Trial designated as PMAT 1a, 1b, 1c & 1d were conducted during *Kharif* in Zone A1, A, B and *Summer* seasons in Zone A & B.

PMAT 1a: Performance of advance hybrids to nitrogen levels in Zone A1

The trial was conducted at two locations *i.e.* Bikaner & Mandor. Four advance hybrid entries MH 2743, MH 2744, MH 2747 and MH 2758 were tested for their response to four N levels (0, 20, 40 and 60 kg N/ha) in comparison with two hybrid checks *i.e.* HHB 67 (Imp) and RHB 223/MPMH 35. Thus, 24 treatment combinations (Six entries and four levels of nitrogen) were evaluated in split plot design, keeping N in main plots and entries in sub-plots. All the treatments were replicated for three times. The observations recorded on grain and stover yields along with other parameters are presented in Table II.3 and II.4. The location wise performance of grain and stover yields of these advance entries at different N levels and against Zonal checks are described in the following paragraphs.

1.1 Bikaner: The grain yield was significantly increased with successive increase in dose of Nitrogen (N) from 0 to 60 kg/ha whereas, stover yield was found significantly superior up to 40 kg N/ha over control and 20 kg N/ha. Maximum grain yield (20.93 q/ha) and dry stover yield (53.11 q/ha) were recorded with the application of 60 kg N/ha which was found to be 91.0, 49.6 and 19.7 percent higher in grain and 25.1, 10.3 and 0.0% more in dry stover yield compared to the grain and dry stover yields obtained by applying 0, 20 and 40 kg N/ha, respectively. The advanced hybrid entries, viz., MH 2743 (17.56 q/ha), MH 2744 (18.52 q/ha), MH 2747 (16.12 q/ha) and MH 2758 (16.47 q/ha) produced significantly higher grain yield than both the checks, HHB 67 (Imp) (12.30 q/ha) and RHB 223 (14.07 q/ha). However, the stover yield of MH 2744 (56.31 q/ha) was found to be significantly superior to all other advanced hybrid entries (47.34–50.36 q/ha) and the check HHB 67 (Imp) (36.29 q/ha), but was at par with the check RHB 223 (56.90 q/ha).Days taken to 50% flowering were significantly higher in hybrids MH 2744 (50.1 days) and MH 2747 (49.8 days) than in other advanced hybrid entries, namely MH 2743 (47.9 days) and MH 2758 (45.4 days), as well as in the checks HHB 67 (Imp) (46.2 days) and RHB 223 (46.2 days).

1.2 Mandor: The grain and stover yields were significantly increased with successive increase in doses of Nitrogen (N) from 0 to 60 kg/ha. Maximum grain yield (17.79 q/ha) and dry stover yields (26.53 q/ha) were recorded with the application of 60 kg N/ha which was found to be 24.7, 13.5 and 6.0 percent higher in grain and 27.7, 16.5 and 8.1% more in dry stover yield compared to the grain and dry stover yields obtained by applying 0, 20 and 40 kg N/ha, respectively. The advanced hybrid entries, viz., MH 2743 (17.92 q/ha; 26.25 q/ha), MH 2744 (18.87 q/ha; 27.92 q/ha), MH 2747 (16.24 q/ha; 23.77 q/ha) and MH 2758 (17.14 q/ha; 25.03 q/ha), produced significantly higher grain and stover yields than

both the checks, HHB 67 (Imp) (12.33 q/ha; 17.98 q/ha) and MPMH 35 (14.30 q/ha; 21.01 q/ha). The plant height, total tillers/plant and effective tillers/plant were significantly improved with incremental in the N doses up to 60 kg/ha over their lower doses. All the advanced hybrid entries produced significantly taller plants (145.2-149.8 cm) than the checks (141.0-143.2 cm).

Zonal performance – Zone A1

The mean data revealed that advance hybrid entries MH 2743 (17.74 q/ha), MH 2744 (18.69 q/ha), MH 2747 (16.18 q/ha) and MH 2758 (16.80 q/ha) were found significantly higher grain yielder than both the checks, HHB 67 (Imp) (12.32 q/ha) and RHB 223/ MPMH 35 (14.18 q/ha). The dry stover yield was significantly higher in the advanced entry MH 2744 (42.11 q/ha) than the other advanced hybrids, namely MH 2743 (37.13 q/ha), MH 2747 (35.55 q/ha) and MH 2758 (37.70 q/ha), as well as the checks HHB 67 (Imp.) (27.13 q/ha) and RHB 223/ MPMH 35 (38.95 q/ha). Maximum grain (19.36 q/ha) and stover (39.82 q/ha) yields were recorded with the application of 60 kg N/ha and it produced 53.4, 30.6 and 13.0% more grain yield whereas, stover yield was 26.0, 12.3 and 2.5% higher over application of 0, 20 kg and 40 kg N/ha, respectively. Days taken to 50% flowering were almost at par across increasing nitrogen levels (45.8–46.5 days) compared with the control (46.4 days). Among the advance entries, the hybrid MH 2747 took the maximum time (47.3 days) to attain 50% flowering, followed by MH 2744 (47.2 days), while the minimum was recorded in the check HHB 67 (Imp.) (45.1 days). Total tillers and effective tillers per plant were higher in the entry MH 2747 (3.1 and 2.6, respectively), whereas MH 2743 produced the highest test weight (10.7 g). The checks recorded test weight in the range of 9.9–10.2 g.

PMAT 1b: Response of advance medium and late hybrid entries to nitrogen levels in Zone A

The trial was conducted at four locations *viz.* Hisar, Jamnagar, Jaipur and New Delhi. Five advance hybrid entries *i.e.* MH 2796, MH 2797, MH 2798, MH 2806 and MH 2808 were tested for its response to four N levels (0, 30, 60 and 90 kg N/ha) in comparison with two hybrid checks *i.e.* 86M86 and MP 7878. Thus, 28 treatment combinations (Seven entries and four levels of nitrogen) were evaluated in split plot design, keeping N in main plots and entries in sub-plots. All the treatments were replicated three times. The observations recorded on grain and stover yields along with other parameters are presented in Table II.5 and II.6. Location-wise performance of grain and stove yield of these advance entries at different N levels and against Zonal checks are described in the following paragraphs.

1.3 Hisar: The grain and dry stover yields were significantly increased with successive increase in dose of Nitrogen (N) from 0 to 90 kg/ha. Maximum grain yield (43.54 q/ha) recorded with the application of 90 kg N/ha was found to be 61.2, 26.9 and 9.2 percent higher compared to the grain yield obtained by applying 0, 30 and 60 kg N/ha and stover yield was improved to the tune of 40.1, 16.3 and 6.2%, respectively. The advance hybrid entries MH 2798 (40.15 q/ha), MH 2796 (38.55 q/ha), MH 2808 (37.75 q/ha) and MH 2806 (36.59 q/ha) produced significantly higher grain yield than the both the checks 86M86 (31.70 q/ha) and MP 7878 (33.17 q/ha). The test weight was found to be highest in the advanced entry MH 2798 (12.8 g), followed by MH 2806 (12.6 g) and both of these advanced hybrids recorded significantly higher test weight compared to the checks 86M86 (11.5 g) and MP 7878 (11.9 g).

1.4 Jamnagar: The advance hybrid entries MH 2798 (39.05 q/ha) produced significantly higher grain yield than both the checks 86M86 (29.58 q/ha) and MP 7878 (34.03 q/ha). The stover yield of the

advanced hybrid entry MH 2798 (60.03 q/ha) was found to be statistically at par with the check MP 7878 (57.14 q/ha), but higher than the advanced entries MH 2796 (54.71 q/ha), MH 2797 (54.37 q/ha), MH 2806 (52.93 q/ha) and the check 86M86 (46.24 q/ha). The grain yield was significantly higher at 90 kg N/ha (40.87 q/ha) compared to the control (27.65 q/ha) and 30 kg N/ha (32.91 q/ha), but it remained statistically at par with 60 kg N/ha (37.41 q/ha). However, the stover yield was significantly higher at 90 kg N/ha (62.18 q/ha) compared to the control (47.26 q/ha), 30 kg N/ha (52.11 q/ha) and 60 kg N/ha (56.73 q/ha).The hybrid MH 2808 (267.9 cm) exhibited significantly taller plants than the other advanced hybrid entries (229.7–254.3 cm) and the check 86M86 (238.5 cm). The advance entry MH 2798 (12.7 g) recorded a significantly higher test weight compared to the advanced hybrid entries MH 2797 (11.5 g), MH 2806 (11.9 g), MH 2808 (12.1 g), and the checks, which ranged from 10.4 to 11.7 g.

1.5 Jaipur: Maximum grain yield (29.92 q/ha) recorded with application of 90 kg N/ha was found significantly higher over the control (19.18 q/ha), 30 kg N/ha (24.50 q/ha) and 60 kg N/ha (26.01 q/ha) but 30 & 60 kg N/ha remained at par with each other. Significantly higher stover yield (69.19 q/ha) was also obtained with application of 90 kg N/ha than 0, 30 and 60 kg N/ha (45.25, 57.36 and 60.41 q/ha) but 30 and 60 kg/ha remained statistically at par. The performance of all the five advance entries MH 2796 (26.51 q/ha), MH 2797 (26.81 q/ha), MH 2798 (27.02 q/ha), MH 2806 (24.66 q/ha) and MH 2808 (25.20 q/ha) in terms of grain yield was found significantly superior than both the checks 86M86 (22.05 q/ha) and MP 7878 (22.07 q/ha). The stover yield of all the advance hybrid entries MH 2796 (61.45 q/ha), MH 2797 (62.18 q/ha), MH 2798 (62.54 q/ha), MH 2806 (57.20 q/ha) and MH 2808 (59.19 q/ha) was also significantly superior over both the checks (51.39-52.41 q/ha). Days taken to 50% flowering were significantly higher in the check 86M86 (55.8 days) than in all advanced hybrid entries—MH 2796 (53.0 days), MH 2797 (51.4 days), MH 2798 (52.9 days), MH 2806 (53.7 days) and MH 2808 (51.5 days) as well as the check MP 7878 (52.8 days). The advance entry MH 2808 (228.8 cm) produced significantly taller plants than MH 2796 (201.2 cm), MH 2797 (205.2 cm), MH 2806 (212.2 cm), the checks 86M86 (199.3 cm) and MP 7878 (217.9 cm) but remained statistically at par with MH 2798 (226.1 cm).

1.6 New Delhi: The grain yield of all five advanced entries viz., MH 2796 (26.64 q/ha), MH 2797 (25.63 q/ha), MH 2798 (28.50 q/ha), MH 2806 (27.53 q/ha) and MH 2808 (26.97 q/ha) was significantly higher than both checks, 86M86 (23.62 q/ha) and MP 7878 (21.40 q/ha). The stover yield of MH 2798 (66.39 q/ha), MH 2806 (64.44 q/ha) and MH 2808 (65.21 q/ha) was significantly higher than entry MH 2796 (58.14 q/ha) and both checks, 86M86 (59.02 q/ha) and MP 7878 (56.08 q/ha). The maximum grain yield (30.04 q/ha) was recorded with the application of 90 kg N/ha, which was significantly higher than the control (21.88 q/ha), 30 kg N/ha (22.71 q/ha) and 60 kg N/ha (28.39 q/ha); however, the control and 30 kg N/ha were statistically at par. Similarly, the application of 90 kg N/ha produced significantly higher stover yield (69.79 q/ha) than the control (47.10 q/ha) and 30 kg N/ha (62.34 q/ha), but it remained statistically at par with 60 kg N/ha (67.39 q/ha). The check 86M86 took maximum days to attain 50% flowering (53.5 days) followed by the entries MH 2806 (52.5 days) & MH 2798 (52.3 days) and minimum was recorded by the check MP 7878 (49.3 days). The advance entry MH 2798 (225.3 cm) produced significantly taller plants than both the checks 86M86 (215.8 cm) and MP 7878 (216.4 cm). The entry MH 2798 (9.1 g) and MH 2806 (9.1 g) recorded significantly higher test weight compared to the checks 86M86 (8.2 g) and MP 7878 (7.5 g) but remained at par with other advance entries.

Zonal performance – Zone A

The mean data indicated that all five advanced hybrids i.e. MH 2796 (32.27 q/ha), MH 2797 (29.82 q/ha), MH 2798 (33.68 q/ha), MH 2806 (31.07 q/ha), and MH 2808 (31.48 q/ha) recorded higher grain yield compared to both the checks, 86M86 (26.74 q/ha) and MP 7878 (27.67 q/ha). A similar trend was observed for dry stover yield, where all the advanced hybrids MH 2796 (71.22 q/ha), MH 2797 (72.04 q/ha), MH 2798 (76.03 q/ha), MH 2806 (69.88 q/ha), and MH 2808 (73.45 q/ha) outperformed the checks, 86M86 (62.07 q/ha) and MP 7878 (67.75 q/ha). Maximum grain (36.09 q/ha) and stover (80.76 q/ha) yields were recorded with the application of 90 kg N/ha and it produced 50.8, 26.1 and 9.6 % more grain yield whereas, stover yield was 42.6, 16.8 and 7.9% higher over application of 0, 30 kg and 60 kg N/ha, respectively. Days taken to 50% flowering were increased with increasing nitrogen levels over control whereas, advance hybrid entries MH 2796 and MH 2808 took maximum number of days for 50% flowering (53.6 days) and minimum by the entry MH 2796 (51.0 days). Total tillers and effective tillers/plant were recorded higher in the entry MH 2798 (3.9 and 2.5) and similarly the test weight (11.5 g). The checks recorded test weight in the range of 10.3-10.5 g.

PMAT 1c: Response of advance medium and late hybrid entries to nitrogen levels in Zone B

The trial was conducted at four locations *i.e.* Aurangabad, Dhule, Vijaypur & Coimbatore in Zone B. Seven advance hybrid entries viz., MH 2767, MH 2773, MH 2775, MH 2777, MH 2784, MH 2705 and MH 2798 were tested for their response to four nitrogen levels (0, 30, 60 & 90 kg N/ha) in comparison with four national checks 86M86, 86M01, Kaveri Super Boss and AHB 1269/1200. Thus, 44 treatments (11 hybrids and 4 nitrogen levels) combinations were evaluated in Split plot design (Nitrogen in main plot and entries in sub-plots) with three replications. The observations recorded on grain and stover yields along with other parameters are presented in Table II.7 to II.11. Centre wise performance of grain and dry fodder yield of these hybrids at different nitrogen levels are discussed in the following paragraphs.

1.7 Aurangabad: Grain and stover yields increased significantly up to 60 kg N/ha (23.81 q/ha grain and 44.68 q/ha stover) compared to the control (18.04 q/ha and 39.04 q/ha) and 30 kg N/ha (20.70 q/ha and 42.02 q/ha) but were at par with 90 kg N/ha (27.74 q/ha and 45.35 q/ha). None of the advanced hybrid entries surpassed the grain yield of the check Kaveri Super Boss (25.80 q/ha); however, entries MH 2775 (23.69 q/ha), MH 2784 (24.29 q/ha) and the check AHB 1200 (25.60 q/ha) were found to be at par with it. The checks 86M01 (50.80 q/ha), Kaveri Super Boss (49.98 q/ha) and AHB 1200 (53.16 q/ha) recorded significantly higher grain yield than all the advanced hybrid entries and other check, except the entry MH 2784 (51.81 q/ha), which was found to be at par with these three checks. The advanced entry MH 2798 recorded significantly higher test weight (16.7 g) compared to all other advanced entries (9.8-12.6 g) and the checks (9.1-11.7 g). The check 86M86 (61.8 days) took significantly more days to attain 50% flowering than all the advanced hybrid entries (50.1–54.8 days) and compared to other checks (46.0–53.7 days).

1.8 Dhule: The highest grain yield recorded with the application of 90 kg N/ha (25.47 q/ha) was found significantly superior than control (17.21 q/ha), 30 kg N/ha (21.50 q/ha) and 60 kg N/ha (23.70 q/ha). The stover yield also exhibited the similar trend of grain yield with values of 32.46, 40.54, 44.69 and 48.04 q/ha in control, 30, 60 and 90 kg N/ha, respectively. The new advanced hybrid entries MH 2667 (25.40 q/ha), MH 2677 (23.99 q/ha) and MH 2798 (26.65 q/ha) exhibited significantly higher grain yield

compared to all the checks, which ranged from 19.27 to 21.87 q/ha. However, the entries MH 2775 (21.55 q/ha) and MH 2784 (22.95 q/ha) were found significantly superior to all the checks except Kaveri Super Boss (21.87 q/ha). Similarly, the stover yield of advance hybrids MH 2667 (48.51 q/ha), MH 2775 (40.35 q/ha), MH 2777 (46.09 q/ha), MH 2784 (43.45 q/ha) and MH 2798 (50.53 q/ha) were significantly higher than all the checks, which ranged from 35.99 to 41.00 q/ha. The yield-attributing trait, viz. test weight, was found to be significantly higher in the entries MH 2777 (12.0 g) and MH 2798 (11.9 g) compared to all the checks (11.4–11.7 g). Plant height was recorded significantly higher in the entries MH 2667 (261.3 cm) and MH 2773 (255.8 cm) than other remaining advance entries (205.0–228.5 cm) as well as from all the checks (219.5–231.1 cm).

1.9 Vijaypur: The grain and dry stover yields were increased significantly with successive increase in dose of Nitrogen (N) from 0 to 90 kg/ha. Maximum grain yield (26.17 q/ha) recorded with the application of 90 kg N/ha was found to be 180.2, 95.4 and 14.8 percent higher compared to the grain yield obtained by applying 0, 30 and 60 kg N/ha whereas, stover yield was improved to the tune of 65.5, 44.5 and 9.2%, respectively. The advance hybrid entries MH 2667 (20.01 q/ha) and MH 2773 (20.49 q/ha) exhibited significantly higher grain yield compared to all the checks, which ranged from 16.64 to 18.61 q/ha. However, the entries MH 2784 (19.17 q/ha) and MH 2798 (19.16 q/ha) were found significantly superior to all the checks except Kaveri Super Boss (18.61 q/ha). The stover yield of advance hybrids MH 2667 (46.09 q/ha), MH 2773 (47.70 q/ha), MH 2784 (46.72 q/ha), MH 2705 (43.77 q/ha) and MH 2798 (46.54 q/ha) were significantly higher than all the checks except Kaveri Super Boss (46.06 q/ha).

1.10 Coimbatore: Grain and stover yields increased significantly up to 90 kg N/ha (44.15 q/ha grain and 66.23 q/ha stover) compared to the control (31.28 q/ha and 47.33 q/ha), 30 kg N/ha (36.57 q/ha and 54.76 q/ha) and 60 kg N/ha (40.11 q/ha and 59.57 q/ha), respectively. The advance hybrid entries MH 2784 (44.23 q/ha grain and 66.31 q/ha stover) and MH 2798 (46.62 q/ha grain and 69.79 q/ha stover) recorded significantly higher grain and dry stover yields compared to all the checks. However, the entries MH 2667 (43.32 q/ha grain and 64.77 q/ha stover) and MH 2673 (43.18 q/ha grain and 64.55 q/ha stover) were found significantly superior to all the checks except Kaveri Super Boss (40.23 q/ha grain and 60.15 q/ha stover). The advance entry MH 2798 recorded significantly higher test weight (12.2 g) compared to all other advanced entries (10.3-11.9 g) and the checks (10.3-11.8 g).

Zonal performance – Zone B

The entry MH 2784 produced the highest grain yield (27.66 q/ha) and it was followed by MH 2798 (27.60 q/ha) and MH 2667 (27.26 q/ha) and were almost at par with check Kaveri Super Boss (26.63 q/ha). The grain yield of the remaining checks ranged from 22.41 to 25.20 q/ha, while that of the other entries ranged from 22.41 to 25.83 q/ha. Similarly, the dry fodder yield was also highest in MH 2784 (52.07 q/ha), followed by MH 2667 (51.21 q/ha) and MH 2798 (50.79 q/ha) and was almost at par with Kaveri Super Boss (49.30 q/ha). The dry fodder yield of the remaining checks and hybrids ranged from 40.83 to 47.08 q/ha. The grain yield at the highest level of 90 kg N/ha (30.13) was found 58.8, 30.8 and 9.2% superior over control, 30 and 60 kg N/ha whereas, the stover yield (53.58 q/ha) was to the tune 41.1, 22.4 and 7.7%. The entry MH 2798 recorded the highest total tillers per plant (3.6), effective tillers per plant (3.4) and test weight (13.1 g), whereas MH 2667 produced the tallest plants (196.6 cm). The checks recorded test weight in the range of 10.6–11.2 g.

PMAT 1d: Response of advance summer hybrid entries to nitrogen levels – Zone A & B

The trial was conducted at three locations *i.e.* Jamnagar in Zone A and Aurangabad & Dhule in Zone B. One advance summer hybrid entry MSH 406 was tested for its response to three nitrogen levels (60, 90 & 120 kg N/ha) in comparison with five national checks Proagro 9444, MP 7366, Nandi 75, 86M64 and 86M22. Thus, 18 treatments (6 hybrids and 3 nitrogen levels) combinations were evaluated in split plot design (Nitrogen in main plot and entries in sub-plots) with three replications. The observations recorded on grain and stover yield along with other parameters are presented in Table II.12 to II.14. Centre wise performance of grain and fodder yield of these hybrids at different nitrogen levels are discussed in the following paragraphs.

1.11 Jamnagar: The highest grain yield recorded with the application of 120 kg N/ha (50.41 q/ha) was significantly higher than 60 kg N/ha (43.66 q/ha) but was at par with 90 kg N/ha (47.47 q/ha). Grain yield at 60 and 90 kg N/ha were also statistically at par. However, stover yield did not improve significantly with increasing nitrogen levels from 60 to 120 kg N/ha. The advance entry MSH 406 recorded significantly higher grain yield (52.11 q/ha) than the checks 86M64 (42.20 q/ha), 86M22 (44.00 q/ha) and Nandi 75 (45.74 q/ha) but was at par with Proagro 9444 (47.79 q/ha) and MP 7366 (51.15 q/ha). Similarly, MSH 406 produced significantly higher stover yield (67.22 q/ha) than all the checks (52.08–60.78 q/ha) except MP 7366 (64.22 q/ha). The test weight and effective tillers per plant in MSH 406 (11.4 g and 3.1, respectively) were significantly higher than the checks *viz.* 86M64 (9.7 g and 2.4), 86M22 (10.0 g and 2.6), Proagro 9444 (10.6 g and 2.8) and Nandi 75 (10.2 g and 2.8).

1.12 Aurangabad: The advance entry MSH 406 recorded significantly lower grain yield (23.73 q/ha) than the check MP 7366 (28.33 q/ha), but was at par with the other checks (21.88–27.18 q/ha). Its stover yield (71.42 q/ha) was significantly lower than that of MP 7366 (86.41 q/ha) and 86M22 (83.98 q/ha) but remained at par with the remaining checks (66.08–76.65 q/ha). Grain and stover yields increased significantly up to 90 kg N/ha. The maximum grain yield (28.96 q/ha) recorded with the application of 120 kg N/ha was significantly higher than 60 kg N/ha (20.71 q/ha) but was at par with 90 kg N/ha (26.21 q/ha). Similarly, significantly higher stover yield (87.75 q/ha) was obtained with 120 kg N/ha compared to 60 kg N/ha (62.80 q/ha), but was at par with 90 kg N/ha (79.44 q/ha). The test weight of the hybrid entry MSH 406 (11.5 g) was at par with the checks, viz. MP 7366 (11.7 g), Nandi 75 (11.7 g), 86M64 (11.3 g), and 86M22 (11.2 g). Plant height was recorded significantly higher in the checks MP 7366 (168.6 cm) and Nandi 75 (167.2 cm) than in the advanced entry MSH 406 (162.3 cm).

1.13 Dhule: Increasing nitrogen levels up to 120 kg/ha (35.93 q/ha) significantly improved grain yield compared to 60 kg N/ha (31.35 q/ha) and 90 kg N/ha (33.84 q/ha). Similarly, stover yield was also significantly higher at 120 kg N/ha (60.27 q/ha) than at 60 kg N/ha (52.59 q/ha) and 90 kg N/ha (56.76 q/ha). The tested hybrid entry MSH 406 recorded significantly higher grain (38.60 q/ha) and stover (67.54 q/ha) yields than all the checks, viz. Proagro 9444 (31.26 q/ha grain and 51.59 q/ha stover), MP 7366 (33.35 q/ha and 56.03 q/ha), Nandi 75 (32.17 q/ha and 53.52 q/ha), 86M64 (34.74 q/ha and 57.54 q/ha) and 86M22 (32.13 q/ha and 53.01 q/ha). The test weight of MSH 406 (11.5 g) was significantly higher than all the checks, which ranged from 10.7 to 10.8 g. Plant height was also significantly higher in MSH 406 (203.7 cm) compared to the checks, viz. Proagro 9444 (186.5 cm), MP 7366 (183.0 cm), 86M64 (186.9 cm), and 86M22 (174.9 cm).

National performance

The tested hybrid entry MSH 406 produced the highest grain yield (38.15 q/ha) compared to the checks Proagro 9444 (35.01 q/ha), Nandi 75 (33.26 q/ha), 86M64 (33.87 q/ha), and 86M22 (34.47 q/ha) but was at par with the check MP 7366 (37.61 q/ha). Similarly, MSH 406 also recorded higher stover yield (68.73 q/ha) than Proagro 9444 (63.00 q/ha), Nandi 75 (59.55 q/ha), 86M64 (61.69 q/ha) and 86M22 (63.72 q/ha) whereas at par with the check MP 7366 (68.89 q/ha). Grain yield at 120 kg N/ha (38.44 q/ha) was 20.5% and 7.3% higher than at 60 and 90 kg N/ha, respectively, while stover yield increased by 24.5% and 8.1%, respectively. The test weight was also higher in MSH 406 (11.5 g) than in all the checks, viz. Proagro 9444 (10.6 g), MP 7366 (11.3 g), Nandi 75 (10.9 g), 86M64 (10.6 g) and 86M22 (10.6 g).

PMAT 2: Response of pearl millet to foliar application of nano urea

The applied nitrogen through fertilizers undergoes transformation processes such as biological nitrogen fixation, humus mineralization, immobilization and nitrification under acidic and alkaline pH, denitrification and volatilization. To address these challenges, the development and application of nano urea represent a promising innovation. Nano urea is a ground breaking agricultural input derived from nanotechnology, characterized by its ultra-small particle size ranging from 20 to 50 nm. To study the effect of foliar application of nano urea on growth, yield, quality and its suitable dose, the present experiment was started during *Kharif*, 2024 under irrigated condition at two locations of Zone A1 (Mandor and Bikaner), three locations each in Zone A (Jaipur, Jamnagar and Hisar) and four locations in Zone B (Aurangabad, Coimbatore, Vijayapur and Dhule). Ten treatments i.e. T1 : Control (No nitrogen),T2 :RDN(1/4 at basal, ½ after 3 weeks and ¼ after 5 weeks), T3 : 75% RDN + foliar spray of urea @ 1.5 % at 3 and 5 Weeks, T4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 Weeks, T5 : 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks, T6 : 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing, T7 : 50% RDN + foliar spray of urea @ 1.5 % at 3 and 5 Weeks, T8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 Weeks, T9: 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks, T10: 50% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing were replicated three times in RBD. Data on ancillary characters, yield attributes, yield and quality of pearl millet are presented in Table II.15 to II.37.

2.1 Bikaner: The data presented in Tables II.15 to II.17 revealed that treatments T3 (75% RDN + foliar spray of urea @ 1.5% at 3 and 5 weeks; 22.10 q/ha), T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 22.53 q/ha) and T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks; 21.20 q/ha) produced grain yield statistically at par with the recommended dose of nitrogen along with P and K (24.00 q/ha). The application of nano urea @ 2.0 ml/l at 3 and 5 weeks after sowing in combination with 50% or 75% RDN, and nano urea @ 4.0 ml/l at 3–4 weeks after sowing with 50% RDN, did not result in any significant improvement in grain or dry fodder yields.

Similar to grain and stover yields, treatments T3 (Rs. 80,342/ha gross returns, Rs. 40,625/ha net returns and B:C ratio 2.02), T5 (Rs. 84,378/ha, Rs. 44,632/ha and 2.12), and T6 (Rs. 79,472/ha, Rs. 39,344/ha and 1.98) also recorded comparable gross returns, net returns, and B:C with the recommended dose of nitrogen along with P and K (Rs. 88,026/ha, Rs. 48,557/ha and 2.23).

2.2 Mandor: The perusal of the data in Table15-19 revealed that the treatment T6 (75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing) produced statistically at par grain (16.63

q/ha) and stover (31.90 q/ha) yields as compared to RDN along with recommended P & K (18.70 q/ha grain; 37.60 q/ha dry fodder) whereas, other treatments of Nano Urea or Urea realized statistically lower grain and stover yields than the RDN treatment. Nitrogen (N), phosphorus (P) and protein content in grain were found to be significantly higher under the RDN along with P & K treatment compared to all other treatments except T4 (75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 weeks) and T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing). The N content in fodder was statistically at par in treatments T2 and T6. The economic evaluation of application of different treatments exhibited maximum gross returns (Rs. 73528/ha), net returns (Rs. 48028/ha) and BC ratio (2.89) in the RDN along with P & K treatment (T2) which was followed by T6 treatment *viz.* 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (Rs. 64398/ha, Rs. 37098/ha and 2.36, respectively).

Zonal performance – Zone A1

The two locations mean data exhibited the superior performance of RDN treatment along with recommended P & K in terms of grain yield (21.77 q/ha). The next best treatment was found T5 : 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks (19.16 q/ha) which was followed by T6:75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (19.12 q/ha) and lowest in the control (12.71 q/ha). The stover yield was also found superior in RDN treatment along with recommended P & K (44.38 q/ha) and it was followed by T6:75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks after Sowing (39.43 q/ha) and T5: 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks after Sowing (37.88 q/ha) treatments.

At Mandor location, Nitrogen (N) and protein content in grain were found significantly higher in treatment T2 compared to all other treatments, except T4 (75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 weeks) and T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing). The N content in fodder was statistically at par between treatments T2 and T6. Phosphorus (P) content in both grain and dry fodder was statistically at par in the RDN treatment as well as in treatments T4 (75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 Weeks) and T6 (75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing). The economic evaluation of different treatments exhibited maximum gross returns (Rs. 81196/ha), net returns (Rs. 48722/ha) and BC ratio (2.58) in the treatment T2 *viz.* RDN along with P & K, which was followed by T6 treatment *viz.* 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (Rs. 72316/ha, Rs. 38602/ha and 2.18, respectively).

2.3 Hisar: The study revealed that neither of the treatment could statistically produced grain (34.32 q/ha) and stover (100.65 q/ha) yields to the tune of the treatment RDN along with recommended P & K. The next best treatment was found T6 (75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing) with grain yield of 31.04 q/ha and stover yield of 93.19 q/ha whereas, other treatments of Nano Urea or Urea realized significantly grain yield between 26.66-30.68 q/ha and stover yield from 78.10-89.89 q/ha. Protein content in grain and N content in grain and fodder were found to be statistically at par in the T2 treatment compared to treatments T3 to T10 except for T7 (50% RDN + foliar spray of urea @ 1.5 % at 3 and 5 Weeks) treatment, where N content in fodder and protein content were found to be significantly lower than in the T2 treatment. P & K content in grain, fodder and soil after harvest were found statistically at par among all the treatments. The economic evaluation of different treatments revealed that the maximum gross returns (Rs. 115,376/ha), net returns (Rs. 57,619/ha) and B:C ratio (2.00) were obtained in treatment T2 (RDN along with P and K) which was

followed by treatment T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks after sowing), which recorded net returns of Rs. 60,232/ha and a B:C of 1.80.

2.4 Jamnagar: The study revealed that treatments T3 (75% RDN + foliar spray of urea @ 1.5% at 3 and 5 weeks), T4 (75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 weeks), T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks) and T6 (75% RDN + foliar spray of nano urea @ 4 ml/l between 3–4 weeks after sowing) produced grain (29.39, 30.60, 29.54, and 33.07 q/ha, respectively) and stover (49.89, 50.66, 50.60, and 55.14 q/ha, respectively) yields which were statistically at par with those obtained under RDN along with recommended P and K (33.18 q/ha grain and 55.63 q/ha dry fodder). However, the other treatments involving nano urea or urea resulted in significantly lower grain and stover yields compared to the RDN treatment. A similar trend was also observed for N content in grain and fodder and protein content in grain, where treatment T2 was found to be statistically at par with treatments T3 to T6. Whereas, P content in grain and dry fodder were not affected by different treatments. The gross returns (Rs. 88514/ha), net returns (Rs. 62960/ha) and BC ratio (3.46) in the treatment T2 were maximum which was followed by T6 treatment *viz.* 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (Rs. 88189/ha, Rs. 60568/ha and 3.19, respectively) and noticed higher compared to all the treatments including control (Rs. 58215/ha, Rs. 33640/ha and 2.37, respectively).

2.5 Jaipur: In comparison to Hisar and Jamnagar centres, the performance of the treatment T2 i.e. RDN along with recommended P & K (25.32 q/ha grain; 58.54 q/ha dry fodder) was found statistically at par with all the 75 & 50 % RDN treatment combinations with foliar spray of urea and Nano Urea (T3 to T9) with grain yield between 22.45 to 28.18 q/ha. However, all the treatments (T3 to T6) produced significantly higher grain as well as dry fodder yield than the control (19.99 q/ha grain; 49.12 q/ha fodder).

Zonal performance – Zone A

The Zonal mean data in the Tables 20 to 28 showed that the treatment RDN along with recommended P & K in produced highest grain (31.54 q/ha) and stover (73.17 q/ha) yields. The next best treatment was found T6:75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (30.98 q/ha grain; 72.09 q/ha dry fodder) and it was followed by T5 : 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks of Sowing (29.25 q/ha grain; 69.22 q/ha dry fodder) and lowest in the control (20.71 q/ha grain; 50.76 q/ha dry fodder).
N (1.51 %) and protein content (9.46%) in grain as well as N in dry fodder (1.00 %) were also found higher in the T2 treatment as compared to all the treatments with range of N content between 1.33-1.46% and protein content from 8.32 to 9.15 % and lowest in control (1.27% and 7.95%). The economic evaluation of different treatments exhibited maximum gross returns (Rs. 103573/ha), net returns (Rs. 63083/ha) and BC ratio (2.81) in the treatment T2 *viz.* RDN along with P & K, which was followed by T6 treatment *viz.* 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (Rs. 97180/ha, Rs. 55037/ha and 2.52, respectively.

2.6 Aurangabad: The data presented in Table II.29 to 33 and 36 clearly indicated that the performance of treatment T2 (RDN along with recommended P and K) recorded a grain yield of 25.07 q/ha and was found to be statistically at par with T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 21.82 q/ha), T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing; 23.20 q/ha) and

T9 (50% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 22.37 q/ha) in terms of grain yield. Similarly, the stover yield under T2 (59.09 q/ha) was found to be statistically at par with T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing; 54.52 q/ha). However, all the treatments (T2 to T10) produced significantly higher grain as well as dry fodder yield than the control (15.20 q/ha grain; 33.01 q/ha fodder). The gross returns (Rs. 87019/ha), net returns (Rs. 55419/ha) and BC ratio (2.75) in the treatment T2 were maximum which was followed by T6 treatment *viz.* 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (Rs. 80509/ha, Rs. 50209/ha and 2.66, respectively) and noticed higher compared to all the treatments including control (Rs. 52203/ha, Rs. 24603/ha and 1.89, respectively).

2.7 Dhule: Grain (31.92 q/ha) and stover (58.25 q/ha) yields were significantly higher under treatment T2 (RDN along with recommended P and K) compared to all other treatments except T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing), which recorded grain and stover yields of 30.63 q/ha and 55.90 q/ha, respectively. The gross returns (Rs. 84452/ha), net returns (Rs. 50300/ha) and BC ratio (2.47) in the treatment T2 were maximum which was followed by T5 : 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks (Rs. 81046/ha, Rs. 46338/ha and 2.33, respectively) and noticed higher compared to all the treatments including control (Rs. 52436/ha, Rs. 21278/ha and 1.68, respectively). N & P content in grain and stover as well as protein content in grain were found statistically at par among all the treatments including control. The available N in soil after harvest was found higher in the T2 treatment (202.0 kg/ha) as compared to all the treatments with range of 176.0 to 198.0 kg N/ha.

2.8 Vijayapur: The perusal of the data (Table II.29 to 37) revealed that the treatment RDN along with recommended P & K produced highest grain yield (21.15 q/ha) but at par with T5 : 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks (20.31 q/ha), T3 : 75% RDN + foliar spray of urea @ 1.5 % at 3 and 5 Weeks (19.62 q/ha) and T6:75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing (19.03 q/ha). The T2 treatment produced significantly higher grain yield than all remaining treatments. Similarly, the stover yield under T2 (53.15 q/ha) treatment was found to be statistically at par with T3 (75% RDN + foliar spray of urea @ 1.5% at 3 and 5 weeks; 49.42 q/ha), T4 (75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 weeks; 47.78 q/ha), T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 51.83 q/ha) and T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing; 49.10 q/ha) treatments. The gross returns (Rs. 50721/ha), net returns (Rs. 33275/ha) and B:C (2.90) were maximum in T2 treatment as compared to all other treatments with net returns ranges from Rs. 18687 to 30198/ha in T3 to T10 treatments and minimum in control (Rs. 26361/ha, Rs. 11616/ha and 1.79, respectively). Protein and N content in grain were found statistically at par among T2 to T10 treatments however, exhibited significantly superiority over the control. N & P content in dry fodder were not significantly affected by different treatments.

2.9 Coimbatore: The study revealed that treatment T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing) recorded significantly higher grain (33.42 q/ha) and dry fodder yield (50.36 q/ha) compared to T2 (RDN along with recommended P and K), which produced 27.19 q/ha grain and 41.12 q/ha fodder yield. However, T6 was found to be statistically at par with T4 (75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 weeks; 31.61 q/ha grain and 47.69 q/ha fodder yield) and T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 32.11 q/ha grain and 47.67 q/ha fodder yield). All these treatments (T4 to T6) produced significantly higher grain and stover yield than control and T7 to T10 treatments. The N, P and protein content in both grain and dry fodder were found to be

significantly higher in treatments T4 to T6 compared to all 50% RDN treatments combined with urea and nano urea applications. The gross returns (Rs. 93622/ha), net returns (Rs. 52438/ha) and BC ratio (2.27) in the treatment T6 treatment *viz.* 75% RDN + foliar spray of nano urea @ 4 ml/l between 3-4 Weeks of Sowing were maximum which was followed by T5 - 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks after sowing treatment (Rs. 89809/ha, Rs. 48357/ha and 2.17, respectively) and noticed higher compared to all the treatments including control (Rs. 55138/ha, Rs. 16794/ha and 1.44, respectively).

Zonal performance – Zone B

The mean data across four locations indicated the superior performance of the RDN treatment along with recommended P and K in terms of grain yield (26.47 q/ha). The next best treatment was T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 26.32 q/ha), followed by T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing; 26.01 q/ha), while the lowest yield was recorded in the control (16.96 q/ha). Similarly, stover yield was also highest under the RDN treatment along with recommended P and K (52.56 q/ha), followed by T6 (75% RDN + foliar spray of nano urea @ 4 ml/l at 3–4 weeks after sowing; 51.69 q/ha) and T5 (75% RDN + foliar spray of urea @ 2.5% at 3 and 5 weeks; 51.56 q/ha).

The protein content range between 11.4 to 11.8 % in T2 to T6 treatments was quite higher over 11.1 to 11.3 % in T7 to T10 treatments and with value of 10.0 % in control. Similar trend was observed in N content in grain with values between 1.74 to 1.82 %, 1.59-1.69% and 1.49%, respectively. P content in grain (0.33-0.35%) as well as fodder (0.19-0.21%) was not much variable among T2 to T10 treatments but showed their superiority over control with values of 0.30% and 0.17%, respectively. The gross returns (Rs. 73443/ha), net returns (Rs. 43132/ha) and BC ratio (2.54) in the treatment T2 were maximum which was followed by T5 treatment *viz.* 75% RDN + foliar spray of urea @ 2.5 % at 3 and 5 Weeks of Sowing (Rs. 72725/ha, Rs. 42013/ha and 2.43, respectively) and noticed higher compared to all the treatments including control (Rs. 47083/ha, Rs. 19703/ha and 1.80, respectively).

PMAT 3: Response of pearl millet to application of Nano DAP

Many soils of the semi-arid tropics are deficient in available P and under such adverse conditions, the establishment of pearl millet seedlings is a critical step to achieve satisfactory crop stands. To increase the phosphorus use efficiency and minimize the fixation of phosphatic fertilizers, nano phosphatic fertilizer may be the best alternative to increase phosphorus use efficiency as well as other nutrient and protein content. Nano phosphatic fertilizers, like Nano DAP offer a new approach to nutrient delivery. This experiment was planned and started during *kharif* 2024 at two locations of Zone A1 (Mandor and Bikaner), three locations in Zone A (Jaipur, Jamnagar and Hisar) and four locations in Zone B (Aurangabad, Coimbatore, Vijayapur and Dhule) to study the effect of application of Nano DAP on growth, yield, quality and to find out its suitable dose. The experiment comprises of 10 treatments was evaluated in RBD keeping three replications. Treatments were T1 : Control (No Phosphorus), T2 :RDF, T3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed, T4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed, T5 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 Weeks After Sowing, T6 : T3 + foliar spray of nano DAP 5.0 ml/l at 3 Weeks After Sowing, T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing, T8 : T4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing, T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing and T10: T4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing. The results of the experiment are discussed in the following paragraphs and data are presented in Tables II.38 to 63.

3.1 Bikaner: The data presented in Tables II.38–41 indicated that the T2 (RDF) treatment produced grain yield (26.10 q/ha) was statistically at par with all treatments involving 75% and 50% RDP combined with seed treatments and foliar spray of nano DAP, which ranged from 21.13 to 23.20 q/ha, except for T4 (50% RDP + seed treatment of nano DAP at 5 ml/kg seed; 18.87 q/ha) and the control (13.83 q/ha). Similarly, the stover yield under the RDF treatment (70.27 q/ha) was statistically at par with all the treatments involving 75% and 50% RDP combined with seed treatments and foliar spray of nano DAP (T3 to T10), which ranged from 59.07 to 72.00 q/ha. All these treatments recorded significantly higher grain (18.87–26.10 q/ha) and stover yields (59.07–72.00 q/ha) compared to the control (13.83 q/ha and 33.07 q/ha, respectively). The T2 (RDF) treatment exhibited maximum gross returns (Rs. 105719/ha), net returns (Rs. 66819/ha) and BC ratio (2.72) which was followed by T6: T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing (Rs. 100080/ha, Rs. 58182/ha and 2.39, respectively) and minimum in control (Rs. 48263/ha, Rs. 12163/ha and 1.34, respectively)

3.2 Mandor: The T2 (RDF) treatment produced statistically at par grain yield (19.47 q/ha) as compared to T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing (16.73 q/ha) and T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (17.57 q/ha) but it was significantly superior than all other treatments. However, T2 (RDF) treatment realized statistically superior dry fodder yield (39.30 q/ha) as compared to all the treatments (T3 to T10) including control (T1). Total tillers per plant and effective tillers per plant were significantly higher under the RDF treatment compared to all other treatments; however, for effective tillers per plant, the T9 treatment was found to be statistically at par with RDF. Protein content (8.57%) and nitrogen (N) content (1.37%) in grain were highest under the RDF treatment and found to be statistically at par with T3 (75% RDP + seed treatment of nano DAP @ 5 ml/kg seed; 7.80% protein and 1.25% N), T5 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 weeks after sowing; 7.94% and 1.27%, respectively), T6 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 weeks after sowing; 8.21% and 1.31%, respectively), T7 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 and 5 weeks after sowing; 8.14% and 1.30%, respectively) and T9 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 and 5 weeks after sowing; 8.61% and 1.38%, respectively). Nitrogen (N) content in fodder and phosphorus (P) content in grain were also recorded significantly higher under the RDF treatment compared to all other treatments. The T2 (RDF) treatment exhibited maximum gross returns (Rs. 76645/ha), net returns (Rs. 51145/ha) and BC ratio (3.01) which was followed by T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (Rs.67346/ha, Rs. 41846/ha and 2.71, respectively) and minimum in control (Rs. 43840/ha, Rs. 20540/ha and 2.64, respectively)

Zonal performance – Zone A_1

The mean data exhibited the superior performance of RDF treatment in terms of grain yield (23.51 q/ha). The next best treatment was T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (21.03 q/ha) which was followed by T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing (20.23 q/ha) and lowest in the control (13.90 q/ha). The stover yield was also found superior in RDF treatment (55.37 q/ha) and it was followed by T6 :T3 + foliar spray of nano DAP 5.0 ml/l at 3 Weeks After Sowing (51.50 q/ha), T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (50.89 q/ha) and T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing (50.44 q/ha) and minimum in the control (29.97 q/ha).

At Mandor, it can be inferred from Tables II.42–43 that Protein (8.57%) and nitrogen (N) content (1.37%) in grain were higher under the RDF treatment and it was statistically at par with T3, T5, T6, T7 and T9 treatments (protein: 7.80–8.61%; N: 1.25–1.38%). Additionally, nitrogen content in

fodder and phosphorus (P) content in grain were significantly higher under RDF compared to all other treatments. The T2 (RDF) treatment exhibited maximum gross returns (Rs. 91886/ha), net returns (Rs. 59685/ha) and BC ratio (2.89) which was followed by T9 (T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing) treatment for gross (82694/ha) and net returns (Rs.47295/ha) and T7 (T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing) treatment for BC ratio (2.43) whereas, minimum in control (Rs. 45136/ha, Rs. 15436/ha and 1.57, respectively).

3.3 Hisar:

The data presented in Tables II.44-52 indicated that neither of the treatments could statistically produce grain (33.38 q/ha) and stover (97.54 q/ha) yields to the tune of the treatment T2 (RDF). The next best treatment was found T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing with grain yield of 30.09 q/ha and stover yield of 88.69 q/ha whereas, other treatments produced grain yield between 19.39-29.56 q/ha and stover yield from 55.66-86.67 q/ha. Test weight (10.7 g) and effective tillers per plant (3.0) were significantly higher in the RDF treatment than in all other treatments, except T9 for effective tillers per plant (2.8) and T9 and T7 for test weight (10.1 g).

Protein and nitrogen (N) content in both grain and stover were not significantly affected by the different treatments. P content in grain and fodder was significantly higher in the T2 (RDF) treatment compared to T1 (control) and T4 (50% RDP + seed treatment with nano DAP @ 5 ml/kg seed) for fodder, and compared to T1, T4, and T8 (T4 + foliar spray of nano DAP @ 2.5 ml/l at 3 and 5 weeks after sowing) for grain; however, it remained at par with the other treatments. Available N and K were not significantly affected by the different treatments. However, for available soil P, the RDF treatment was statistically at par with T5 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 weeks after sowing), T6 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 weeks after sowing), T7 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 and 5 weeks after sowing) and T9 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 and 5 weeks after sowing). Maximum gross returns (Rs. 112144/ha), net returns (Rs. 54386/ha) and BC ratio (1.94) were received in RDF treatment which was followed by T9 in terms of gross returns (Rs. 101226/ha), T5 for net returns (Rs. 36809/ha) and T3 (75% RDP + seed treatment of nano DAP 5 ml/kg seed) in B:C (1.64) and minimum in control (Rs. 64933/ha, Rs. 10776/ha and 1.20, respectively).

3.4 Jamnagar: The perusal of the data in Tables II.44-51 exhibited that the T2 (RDF) treatment produced grain (34.92 q/ha) and dry fodder (56.92 q/ha) yields that were statistically at par with T3 (75% RDP + seed treatment with nano DAP @ 5 ml/kg seed; 30.12 q/ha grain and 51.13 q/ha dry fodder), T5 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 weeks after sowing; 30.55 q/ha grain and 51.27 q/ha dry fodder), T6 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 weeks after sowing; 31.48 q/ha grain and 52.12 q/ha dry fodder), T7 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 and 5 weeks after sowing; 32.34 q/ha grain and 53.16 q/ha dry fodder) and T9 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 and 5 weeks after sowing; 35.94 q/ha grain and 57.38 q/ha dry fodder). However, it was significantly superior over all other treatments. Similar trend was also found for growth and ancillary characters i.e. plant height, total tillers/plant, effective tillers/plant and test weight. The maximum protein, nitrogen (N) and phosphorus (P) contents in grain and fodder were recorded in treatment T9, with values of 11.02%, 1.76%, 0.36%, 1.46% and 0.28%, respectively. In contrast, the minimum values were observed in the control, at 8.68%, 1.39%, 0.26%, 1.12%, and 0.19%, respectively. Maximum gross returns was recorded in T9 treatment (Rs. 95588/ha), net returns (Rs. 67625/ha) and BC ratio (3.67) in RDF treatment and minimum was observed in control with values of Rs. 60772/ha, Rs. 38772/ha and 2.76, respectively.

3.5 Jaipur: The performance of treatment T2 (RDF) was significantly lower than that of T7 (T3 + foliar spray of nano DAP @ 2.5 ml/L at 3 & 5 weeks after sowing), T8 (T4 + foliar spray of nano DAP @ 2.5 ml/L at 3 & 5 weeks after sowing), T9 (T3 + foliar spray of nano DAP @ 5.0 ml/L at 3 & 5 weeks after sowing) and T10 (T4 + foliar spray of nano DAP @ 5.0 ml/L at 3 & 5 weeks after sowing). Similarly, dry fodder yield followed the same trend as grain yield. Total tillers per plant and effective tillers per plant were significantly higher in treatments T7 to T10 compared to the RDF treatment. However, plant height was not significantly affected by the different treatments. The test weight in the RDF treatment was significantly lower than that in the T9 treatment.

Zonal performance – Zone A

The zonal mean data presented in Tables II.44–II.52 showed that treatment T9 (T3 + foliar spray of nano DAP @ 5.0 ml/L at 3 & 5 weeks after sowing) recorded the highest grain yield (30.30 q/ha) and dry fodder yield (72.08 q/ha), followed by the RDF treatment (29.80 q/ha and 71.12 q/ha, respectively) and T7 (T3 + foliar spray of nano DAP @ 2.5 ml/L at 3 & 5 weeks after sowing) with 29.05 q/ha grain yield and 70.40 q/ha dry fodder yield. The lowest yields were observed in the control, with 20.21 q/ha grain yield and 50.30 q/ha dry fodder yield, respectively. Test weight was higher in the RDF treatment as compared to all the treatments except T9 whereas, no definite trend was found for total & effective tillers/plant among the treatments.
Nitrogen (N) content (1.57%) and protein content (9.92%) in grain were found to be highest in treatment T9 (T3 + foliar spray of nano DAP @ 5.0 ml/L at 3 & 5 weeks after sowing) compared to all other treatments, with N content ranging from 1.42% to 1.55% and protein content from 8.96% to 9.81% and the lowest values were recorded in the control (1.37% N and 8.63% protein). However, phosphorus (P) content in both grain (0.36%) and fodder (0.25) were highest in the RDF treatment compared to all other treatments, with P content ranging from 0.31% to 0.35% in grain and from 0.18% to 0.24% in fodder. The economic evaluation of application of different treatments exhibited maximum gross returns (Rs. 97865/ha), net returns (Rs. 57470/ha) and BC ratio (2.64) in the treatment T2 *viz.* RDF which was followed by T9: T3 + foliar spray of Nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (Rs. 92737/ha and Rs. 44658/ha, respectively) whereas BC was second best in T3: 75% RDP + seed treatment of nano DAP 5 ml/kg seed treatment (2.24).

3.6 Aurangabad: The data presented in Table II.53-59 clearly indicated that treatment T2 (RDF) recorded significantly higher grain yield (25.46 q/ha) and fodder yield (59.07 q/ha) than all other treatments, except T9 (T3 + foliar spray of nano DAP @ 5.0 ml/L at 3 & 5 weeks after sowing), which recorded grain and fodder yields of 23.62 q/ha and 54.32 q/ha, respectively. However, all the treatments (T2 to T10) produced significantly higher grain as well as dry fodder yield than the control (14.92 q/ha grain; 34.32 q/ha fodder). The gross returns (Rs. 88203/ha), net returns (Rs. 56553/ha) and B:C (2.79) were noticed highest in the T2 i.e. RDF treatment which was followed by T9: T3 + foliar spray of Nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (Rs. 81714/ha and Rs. 50514/ha and 2.62, respectively) and lowest in control (Rs. 51623/ha and Rs. 24023/ha and 1.87, respectively).

3.7 Dhule: The perusal of the data in Tables II.53-63 exhibited that the T2 (RDF) treatment produced grain (31.52 q/ha) and dry fodder (59.01 q/ha) yields that were statistically at par with T5 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 weeks after sowing; 28.21 q/ha grain and 52.81 q/ha dry fodder), T6 (T3 + foliar spray of nano DAP @ 5.0 ml/l at 3 weeks after sowing; 29.25 q/ha grain and 54.76 q/ha dry fodder), T7 (T3 + foliar spray of nano DAP @ 2.5 ml/l at 3 and 5 weeks after sowing; 31.07 q/ha grain

and 58.16 q/ha dry fodder), T8 (T4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing; 28.76 q/ha grain and 53.83 q/ha dry fodder) and T10 (+ foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing; 28.65 q/ha grain and 53.64 q/ha dry fodder). However, it was significantly superior to all other treatments. The effective tillers/plant and test wt. were at par among T2 to T10 treatments but significantly superior over control. The gross returns (Rs. 83529/ha), net returns (Rs. 50426/ha) and BC ratio (2.52) in the treatment T2 were maximum which was followed by T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing in terms of gross returns (Rs. 82326/ha) and net returns/ha (Rs. 44925/ha), respectively but B:C in T8 treatment (2.22) and noticed higher compared to all the treatments including control (Rs. 48070/ha, Rs. 17442/ha and 1.57, respectively).

3.8 Vijayapur: The data presented in Tables II.53–II.63 revealed that the grain yield (21.25 q/ha) and dry fodder yield (54.66 q/ha) under the RDF treatment were statistically at par with all treatments involving DAP and nano DAP applications, while RDF was found to be significantly higher than the control. Protein and nitrogen content in grain were found to be significantly higher in treatment T9 (T3 + foliar spray of nano DAP at 5.0 ml/l applied at 3 and 5 weeks after sowing) compared to the RDF treatment. Phosphorus content in grain was significantly higher in the RDF (T2) treatment than in the control and T10 (T4 + foliar spray of nano DAP at 5.0 ml/l applied at 3 and 5 weeks after sowing), although it was statistically at par with the remaining treatments. Phosphorus content in fodder was not significantly affected by the different treatments. Available nitrogen and phosphorus levels were higher in treatments T2 to T10 compared to the control. The net returns and BC ratio were not significantly affected by the different treatments.

3.10 Coimbatore: The T2 (RDF) treatment produced statistically at par grain and dry fodder yields (31.94 and 48.55 q/ha) as compared to T5 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 Weeks After Sowing (31.84 and 48.67 q/ha), T6 : T3 + foliar spray of nano DAP 5.0 ml/l at 3 Weeks After Sowing (29.12 and 44.26 q/ha), T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing (32.05 and 48.35 q/ha), T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (32.67 and 49.25 q/ha)and T10: T4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (28.84 and 43.51 q/ha) but it was significantly superior than all other treatments. N content in grain as well as in dry fodder were also found significantly higher in T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing than all the other treatments except T2 (RDF), T5 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 Weeks After Sowing and T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing treatments. P and protein content were found statistically at par among T2, T5, T7 and T9 treatments in grain as well as dry fodder, but superior than all the remaining treatments. The gross returns (Rs. 91525/ha) and net returns (Rs. 51637/ha) in the T9: T3 + foliar spray of Nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing whereas, BC ratio (2.07) in T5 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 Weeks After Sowing were noticed higher compared to all the treatments including control (Rs. 63923/ha, Rs. 26535/ha and 1.71, respectively).

Zonal performance – Zone B

The four locations mean data exhibited the superior performance of RDF treatment in terms of grain yield (27.59 q/ha) and dry fodder yield (55.74 q/ha). The next best treatment was found T7 : T3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 Weeks After Sowing (26.89 and 53.67 q/ha) which was followed by T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing (26.88 and 53.15 q/ha) and lowest in the control (18.27 and 37.95 q/ha). The protein content was between 10.54 to 11.35 % in

T2 to T10 treatments and value of 10.53 % in control. Similar trend was observed for N content in grain with values of 1.51 to 1.71 % and 1.52%, respectively. P content in grain (0.32-0.37%) as well as fodder (0.18-0.21%) was variable among T2 to T10 treatments but showed their superiority over control with values of 0.29 % and 0.17 %, respectively. The T2 (RDF) treatment exhibited maximum gross returns (Rs. 76709/ha), net returns (Rs. 46924/ha) and BC ratio (2.65) which was followed by T9: T3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 Weeks After Sowing in terms of gross returns (Rs.74401/ha) and net returns (Rs.42254/ha) but B:C (2.39) in T7 treatment whereas, minimum in control (Rs. 50254/ha, Rs. 23125/ha and 1.96, respectively).

PMAT 4: Diversifying and enhancing production of millets through intercropping with pearl millet

The trial was started during *kharif*, 2024 with an objective to diversifying and enhancing production of millets through intercropping with pearl millet at three locations in Zone A (Jamnagar, Hisar and Jaipur) and four locations in Zone B (Aurangabad, Coimbatore Vijayapur and Dhule). Eleven treatments i.e. 6 Sole crops of millets/green gram and 5 intercropping systems with pearl millet of different millets in paired rows at 30 cm: 2 rows of intercrop at 30 cm with each strip of 90 cm were evaluated in RBD with three replications. The details of the treatments are as follow; T1: Sole Pearl millet (45 cm x 10 cm), T2: Sole Proso millet (30 cm x 5 cm), T3: Sole Foxtail millet (30 cm x 5 cm), T4: Sole Little millet (30 cm x 5 cm), T5: Sole Barnyard millet (30 cm x 5 cm), T6: Sole Mungbean, T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm, T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm, T9:Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm, T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm, T11: Pearl millet + Mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm, The results of the experiment are discussed in the following paragraphs and data presented in Tables II.64-75.

4.1 Hisar: The perusal of the data in the Table 64-69 revealed that the grain yield of pearl millet in sole stand was 33.50 q/ha as compared to 13.86-29.21 q/ha in different intercropping systems. The respective yield was 4.36, 5.85, 4.30, 13.10 and 5.55 q/ha as sole crops of proso millet, foxtail millet, little millet, barnyard millet and mungbean, respectively. The dry fodder yields were 92.67 q/ha, 43.31-85.54 q/ha and 23.70, 47.11, 76.87, 78.55 and 23.52 q/ha, respectively. Neither of the sole minor millets and intercropping based treatment could surpass the grain yield of sole pearl millet equivalent yield (40.18 q/ha) which was significantly superior than all the treatments (9.39 to 35.81 q/ha) except T8 (foxtail based intercropping system; 38.36 q/ha) and T11 (mungbean based intercropping system; 39.13 q/ha) treatments. Maximum gross returns, net returns and BC ratio of Rs. 111497/ha, Rs. 63910/ha and 2.34 were achieved in the sole pearl millet crop (T1) which was followed by T11 (Pearl millet + Mungbean intercropping system) treatment (Rs.108576/ha, Rs.58225/ha and 2.16) and T8 (Pearl millet + foxtail intercropping system) treatment (Rs.106456/ha, Rs.57221/ha and 2.16). The sole crop cultivation of minor millets was not found economical.

4.2 Jamnagar: The data presented in the Tables 64-69 revealed that the grain yield was realized 15.42, 18.88, 19.78, 26.98 and 12.72 q/ha by proso millet, foxtail millet, little millet, barnyard millet and mungbean crops in comparison to 27.75 q/ha by sole pearl millet crop. The range of pearl millet yield was between 13.43 – 21.56 q/ha among different intercropping systems. The straw yield was highest in the little millet crop (65.31 q/ha) followed by barnyard millet (53.63 q/ha) and 42.99 q/ha in pearl millet

crop. The PMEY was significantly higher in the pearl millet + mungbean intercropping system (46.31 q/ha) compared to the pearl millet + little millet intercropping system (35.49 q/ha), but it was at par with the other intercropping systems. All the intercropping systems and sole crops of barnyard, little millet and mungbean produced significantly higher PMEY than sole pearl millet crop. The maximum gross and net returns (Rs.115775/ha and Rs. 80725/ha, respectively) were recorded under T11 (pearl millet + mungbean intercropping system), followed by T8 (pearl millet + foxtail millet intercropping system), which yielded Rs. 107875/ha and Rs.74566/ha, respectively. However, the maximum benefit–cost ratio was recorded in sole foxtail millet (3.63), closely followed by sole barnyard millet (3.62).

4.3 Jaipur: The grain yield of pearl millet in sole stand was 20.38 q/ha as compared to 15.82-19.57 q/ha in different intercropping systems. The respective yield was 9.08, 7.67, 2.38, 13.38 and 6.89 q/ha as sole crops of proso millet, foxtail millet, little millet, barnyard millet and mungbean, respectively. The dry fodder yields were 48.00 q/ha, 37.14-41.59 q/ha and 19.20, 15.45, 4.48, 35.49 and 15.03 q/ha, respectively. Neither of the sole pearl millet, minor millets and intercropping based treatment could surpass the grain yield of sole barnyard millet equivalent yield (42.83 q/ha) which was significantly superior than all the treatments (7.63 to 29.07 q/ha) except T10 (barnyard based intercropping system; 39.13 q/ha) treatment.

Zonal performance – Zone A

The mean data of thre locations revealed that the pearl millet equivalent grain yield (39.15 q/ha) was highest in the T11 (Pearl millet + Mungbean intercropping system) treatment which was followed by pearl millet + barnyard (36.94 q/ha), pearl millet + foxtail millet (35.84 q/ha) and T7 (Prosomillet based intercropping system; 32.34 q/ha) and sole barnyard (31.91 q/ha) and sole pearl millet crop (30.67 q/ha), respectively. The economic evaluation of the treatments revealed that gross returns (Rs. 115247/ha), net returns (Rs. 73117/ha) and B:C (2.80) were highest in the T11 (Pearl millet + Mungbean intercropping system) treatment which was followed by T8 (pearl millet + foxtail millet intercropping system; Rs. 102187/ha, Rs. 60962/ha and 2.51, respectively) and only these two have more yield and economic returns than sole crop of pearl millet (Rs.93932/ha, Rs. 56268/ha and 2.46, respectively).

4.4 Aurangabad: The data presented in the Tables 70-75 revealed that the grain as well as stover yield of pearl millet was quite higher (25.41 q/ha & 58.95 q/ha) in the sole pearl millet as compared to grain yield of minor millets between 7.68-10.96 q/ha and dry fodder yield between 15.47-25.65 q/ha. The pearl millet grain yield was drastically reduced by intercropping treatments (11.63-14.64 q/ha). The PMEY was significantly higher in the sole pearl millet (29.33 q/ha) and pearl millet + mungbean intercropping system treatment (28.62 q/ha) than all the sole crops of minor millets and mungbean crop. However, the intercropping systems with proso millet, foxtail millet and little millet produced statistically lesser PMEY compared to sole pearl millet crop. Maximum gross returns, net returns and BC ratio of Rs. 88007/ha, Rs. 57007/ha and 2.84 were exhibited by sole pearl millet which was followed by T11 (Pearl millet + Mungbean intercropping system) treatment with gross returns (Rs.85861/ha), net returns (Rs.53861/ha) and B:C (2.68).

4.5 Vijayapur: The perusal of the data in the Table 70-75 revealed that the pearl millet grain yield was found at par among different intercropping systems (20.32-22.25 q/ha) as compared to sole pearl millet crop (26.18 q/ha). However, the dry fodder yield was drastically reduced from 58.29 q/ha in sole pearl millet to 30.23-32.91 q/ha among different intercropping systems. The grain yield among minor millets

was highest in proso millet (19.42 q/ha) which was followed by foxtail millet (16.55 q/ha), barnyard millet (14.76 q/ha), little millet (11.87 q/ha) and maximum was in mung bean (21.85 q/ha). The PMEY was found highest in Pearl millet + Mungbean intercropping system (48.80 q/ha), sole mungbean (46.49), pearl millet + foxtail millet treatment (44.52 q/ha) which was followed by pearl millet + barnyard millet (42.09 q/ha) and pearl millet + proso millet (40.21 q/ha), pearl millet + little millet (34.96 q/ha) and quite higher than sole pearl millet (26.19 q/ha). Maximum gross returns, net returns and BC ratio of Rs. 114433, Rs. 95609/ha and 6.08 were realized in Pearl millet + Mungbean intercropping system followed by sole mungbean with values of Rs. 108054/ha, Rs. 91230/ha and 6.42, respectively.

4.6 Coimbatore: The intercropping system of pearl millet + foxtail millet (24.54 q/ha) as well as sole crop of foxtail millet (15.50 q/ha) produced lesser PMEY than sole crop of pearl millet (32.12 q/ha). The highest PMEY was recorded in the sole barnyard treatment (50.52 q/ha) followed by sole proso millet (42.83 q/ha), sole mungbean (36.52 q/ha). Among intercropping systems it was highest in pearl millet + proso millet treatment (37.06 q/ha). The economic evaluation revealed that gross returns, net returns and BC ratio of Rs. 138709, Rs. 100927/ha and 3.67 were realized maximum in sole barnyard treatment followed by sole proso millet treatment with respective values of Rs. 114874/ha, Rs. 76842/ha and 3.02, respectively. Among intercropping systems, it was highest in pearl millet + proso millet treatments (102083/ha, Rs. 60821/ha and 2.47, respectively).

4.7 Dhule: The grain yield of pearl millet in sole stand was 24.02 q/ha as compared to 13.67-18.95 q/ha in different intercropping systems. The respective yield was 15.29, 20.29, 14.95, 17.13 and 12.81 q/ha as sole crops of proso millet, foxtail millet, little millet, barnyard millet and mungbean, respectively. The dry fodder yields were 45.39 q/ha, 25.85-35.82 q/ha and 29.86, 39.62, 29.19, 33.44 and 52.56 q/ha, respectively. The highest PMGEY was recorded in sole mungbean (30.76 q/ha), followed by the pearl millet + mungbean intercropping system (28.58 q/ha) and sole pearl millet (24.02 q/ha). However, sole mungbean produced a significantly higher PMGEY than all other treatments.
The economic evaluation revealed that gross returns, net returns and BC ratio of Rs. 81103, Rs. 53453/ha and 2.93 were realized maximum in sole mungbean treatment followed by pearl millet + mungbean intercropping system with respective values of Rs. 75517/ha, Rs. 46539/ha and 2.61, respectively. The sole mungbean treatment was significantly more remunerative than all other treatments.

Zonal performance - Zone B

The mean data of four locations exhibited that the pearl millet grain yield was found highest in sole pearl millet (26.17 q/ha) as compared to different intercropping systems with pearl millet grain yield varying from 16.41-18.87 q/ha. However, the dry fodder yield was drastically reduced from 51.83 q/ha in sole pearl millet to 30.19-32.81 q/ha among different intercropping treatments. The grain yield among minor millets was highest in barnyard (15.43 q/ha) which was followed by proso millet millet (15.33 q/ha), foxtail millet (13.80 q/ha), little millet (12.89 q/ha) and minimum in mung bean (11.32 q/ha). The highest PMEY (33.07 q/ha) was recorded in the Pearl millet + Mungbean intercropping system treatment which was followed by sole mung bean (31.07 q/ha), pearl millet + proso millet (29.34 q/ha) and pearl millet + barnyard millet intercropping system (28.53 q/ha). The range of PMEY was between 18.74-27.94 q/ha among remaining treatments whereas, it was 27.19 q/ha in the sole pearl millet crop. The economic evaluation study revealed that gross returns (Rs. 82974/ha), net returns (Rs. 49612/ha) and BC ratio (3.10) were maximum in pearl millet + mungbean based intercropping system. Among

remaining intercropping systems, the net returns (Rs. 37377-41599/ha) & B: C (2.60-2.75) were realized more than sole pearl millet crop (Rs. 36467/ha and 2.56, respectively). The net returns and B:C were achieved less in sole foxtail (Rs. 19178/ha and 2.05, respectively), proso millet (Rs. 35906/ha and 2.52, respectively) and little millet (Rs. 26956/ha and 2.14, respectively) cultivation as compared to sole pearl millet (Rs. 36467/ha and 2.56, respectively).

PMAT 5: Productivity of pearl millet [*Pennisetum glaucum* (L.) R.Br. Emend. Stuntz]- Mustard/ Chickpea cropping sequence as influenced by organic and naturalfarming.

The field experiment aimed to evaluate the effect of organic and natural farming on productivity, quality, soil properties and microbial counts of pearl millet and mustard/chickpea crops was started during *Kharif*, 2022 at two locations of Zone A1 (Mandor and Bikaner), four locations in Zone A (Jaipur, Jamnagar, Jammu and Hisar) and five locations in Zone B (Aurangabad, Coimbatore, Vijyapur, Dhule and Peruvulam). The performance of most popular pearl millet hybrid or mustard/gram varieties of the locations in Zone A1, Zone A and Zone B were evaluated with nine different treatments *i.e.* T_1: Control (RDF), T_2: RDN* through Farm yard manure (FYM) , T_3: RDN through Vermicompost (VC), T_4: RDN through Poultry manure(PM) for Zone A &B / *Sheep or Goat manure for Zone A_1 , T_5: RDN through FYM + Biofertilizer, T_6: RDN Vermicompost + Biofertilizer, T_7: RDN through Poultry manure + Biofertilizer and T_8 : *** Cow based bio formulation (250 kg/ha Cow Urine Based Solid Organic bio-Formulation (CUBSOF)/ha before sowing along with sieved dry FYM @ 250 kg/ha will be applied into the soil before sowing and Cow Urine Based Liquid Organic bio-Formulation (CUBLOF) @ 500 litre/ha with irrigation water or foliar spray of 10 % will be applied two times at 15-20 & 35-40 DAS in pearl millet and after 35-40 & 70-75 DAS in mustard/chickpea crops during the crop season) and T_9: RDF** Nine treatments were replicated three times in RBD. Data on ancillary characters, nutritional aspects, microbial counts, yield attributes, yield and economics are presented in Table II.77 to II.122.

5.1 Bikaner: The data presented in the Tables II.77 to 82 during *kharif*, 2025 exhibited significantly higher pearl millet grain yield in RDF treatment (26.77 q/ha) than control (12.57 q/ha), FYM (20.00 q/ha), VC (20.77 q/ha), Goat Manure (21.07 q/ha), FYM treatments (22.60 q/ha) and cow based formulation (21.73 q/ha) but remained at par with other treatments with range from 24.67-25.27 q/ha. Maximum stover yield was recorded under T9–RDF (57.30 q/ha), which was at par with other treatments but significantly higher than the control (12.57 q/ha). The stover yield was 46.87 q/ha in the cow based treatment and 31.50 q/ha in control. The gross returns (Rs. 66797/ha), net returns (Rs. 37797/ha) and BC ratio (2.3) were highest in the RDF treatment during *kharif*, 2025 season.

5.2 Mandor: The grain and stover yields were highest under the RDF treatment, recording 17.90 q/ha for grain and 32.47 q/ha for stover yield. These yields were 78.5% and 91.8% higher, respectively than those observed in the control. In comparison, significantly lower grain and stover yields were recorded in the cow-based treatment (11.63 q/ha grain and 21.03 q/ha stover), sole FYM (12.47 q/ha grain and 22.17 q/ha stover), sole vermicompost (13.20 q/ha grain and 23.93 q/ha stover), sole sheep/goat manure (13.73 q/ha grain and 25.63 q/ha stover) and FYM combined with biofertilizers (14.17 q/ha grain and 26.23 q/ha stover) compared to the RDF treatment. The range of grain yield was between 12.47-15.17 q/ha and stover yield between 22.17-28.80 q/ha among the sole organic manures and their combination with biofertilizer treatments. The maximum gross (Rs. 68091/ha), net returns (Rs. 42591/ha) and BC ratio (2.7) were found in the RDF treatment and resulted in Rs. 20382/ha more net returns over the cow based treatment (T_8).

During Rabi 2024-25, maximum chickpea seed yield (23.37 q/ha) was recorded by RDF treatment which was significantly higher than all other RDN through sole organic manure and their combination treatments with biofertilizer and cow based bio formulation treatment (16.30 q/ha) however, it remained at par to RDN through Goat manure + Biofertilizer treatment (21.63 q/ha). Maximum straw yield was recorded in RDF treatment (30.73 q/ha) which was significantly higher than all the treatments but at par with T6 (RDN through VC + biofertilizer; 27.43 q/ha) and T7 (RDN through poultry manure + biofertilizer; 29.53 q/ha) treatments and it was 18.80 q/ha in control and 23.60 q/ha in cow based treatment. Similarly maximum gross returns (Rs. 154776/ha), net returns (Rs. 120276/ha) and BC ratio (4.49) were recorded by RDF treatment and this treatment resulted in Rs. 62710/ha and Rs. 44150/ha more net returns over control and cow based bio formulations treatment.

The enzymatic and microbial count studies after *kharif,* 2025 season of pearl millet (Tables 81 and 82) revealed that the dehydrogenase and alkaline phosphatase activity were recorded highest in the T5 treatment (RDN through FYM + biofertilizer) being statistically at par with T6 (RDN through VC + biofertilizer) but significantly superior over all other treatments. Acid phosphatase was found statistically at par in the T4 to T8 treatments but significantly higher than control and RDF treatments. Urease population was found statistically at par among T5 to T7 treatments but showed their statistical superiority than all the remaining treatments. The SMBC populations were recorded highest in treatment T5 and it was at par with T4, T6 and T7 treatments but significantly superior over all other treatments. The bacterial counts were recorded highest in treatment T6 and it was at par with T5 and T7 treatments but significantly superior than remaining treatments. Fungal counts was found significantly higher in the T6 treatment and shown its significant superiority than other treatments, although statistically at par with T7. The actinomycetes counts were found significantly higher in T6 (RDN through VC + biofertilizer) treatment than all other except T5 treatment.

The enzymatic and microbial count studies (Table 85-86) after *Rabi* 2023-24 season in chickpea revealed that all the enzymatic activities i.e. dehydrogenase activity (335.5-409.9 µg TPF g^{-1} soil), alkaline phosphatase (6.60-7.37 µg PNP g^{-1} soil), acid phosphatase (3.77-3.97 µg PNP g^{-1} soil) and Urease activities in T5 to T7 treatments were significantly higher than all the treatments and values were 163.8 & 235.2 µg TPF g^{-1} soil, 5.43 & 5.87 µg PNP g^{-1}, 2.60 & 3.53 µg PNP g^{-1} soil, and 8.14 & 9.49 umol NH_3 g^{-1} soil, respectively in control and Cow based treatments. Bacterial count was recorded significantly higher in treatment T_5 (10.24 log^{10} cfu/g soil) than all treatments except T4, T6 & T7. The fungal counts (6.32 log^{10} cfu/g soil) and actinomycetes counts (8.46 log^{10} cfu/g soil) were recorded significantly higher in treatment T6 which remained at par with T4, T5,T7 & T8 treatmets . The SMBC ug/g soil were recorded significantly higher in T5 treatment than all the treatments except T3,T4, T6 & T7.

Zonal performance – Zone A1

The two locations mean data showed the superiority of treatment T_9 (RDF) treatment in terms of grain and stover yields (21.13 and 42.44 q/ha, respectively) compared to all the remaining treatments including control (12.77 q/ha grain; 25.51 q/ha stover) and cow based formulation treatment (17.29 q/ha grain; 34.02 q/ha stover). The grain and stover yields were improved by 65.5 and 66.4% in the T_9 treatment over the control and by 22.2 and 24.8 % over the cow based formulation treatment (T_8). The T_9 treatment resulted in Rs. 17731/ha and Rs. 12370/ha more net returns over the control and cow based treatments. The maximum B:C was also recorded in the T_9 (2.61) whereas it was 1.96 and 2.16 in control and cow based treatments.

At Mandor centre, mean data of three years revealed that maximum chickpea seed yield (25.20 q/ha) and straw yield (33.50 q/ha) were recorded by RDF treatment, which was higher than all other

RDN through sole organic manure and their combination treatments with biofertilizer and cow based bio formulation treatment (19.90 q/ha seed yield and 28.17 q/ha straw yield). Second best treatment was T7 (RDN through Poultry manure + biofertilizer; 22.36 q/ha seed yield and 30.87 q/ha straw yield) which was followed by T6 (RDN through VC + biofertilizer; 21.24 q/ha seed yield and 29.49 q/ha straw yield) and minimum in control (12.90 q/ha seed yield and 19.56 q/ha straw yield). Similarly maximum gross returns (Rs. 165118/ha), net returns (Rs. 132994/ha) and BC ratio (5.22) were recorded by RDF treatment and this treatment resulted in Rs. 73515/ha and Rs. 34108/ha more net returns over control and cow based bio formulations treatment.

At Mandor, The enzymatic and microbial count studies (Tables 85-86) after *Rabi* 2023-24 season in chickpea revealed that all the enzymatic activities i.e. dehydrogenase activity (335.5-409.9 µg TPF g^{-1} soil), alkaline phosphatase (6.60-7.37 µg PNP g^{-1} soil), acid phosphatase (3.77-3.97 µg PNP g^{-1} soil) and Urease activities in T5 to T7 treatments were significantly higher than all the treatments Bacterial count was recorded significantly higher in treatment T_5 (10.24 log^{10} cfu/g soil) than all treatments except T4, T6 & T7. The fungal counts (6.32 log^{10} cfu/g soil) and actinomycetes counts (8.46 log^{10} cfu/g soil) were recorded significantly higher in treatment T6 which remained at par with T4, T5,T7 & T8 treatmets . The SMBC ug/g soil were recorded significantly higher in T5 treatment than all the treatments except T3, T4, T6 & T7.

At Mandor, the enzymatic and microbial count studies after *kharif*, 2025 season of pearl millet (Tables 81 and 82) revealed that The dehydrogenase and alkaline phosphatase activity were recorded highest in the T5 treatment (RDN through FYM + biofertilizer) being statistically at par with T6 (RDN through VC + biofertilizer) but significantly superior over all other treatments. Acid phosphatase was found statistically at par in the T4 to T8 treatments but significantly higher than control and RDF treatments. Urease population was found statistically at par among T5 to T7 treatments but showed their statistical superiority than all the remaining treatments. The SMBC populations were recorded highest in treatment T5 and it was at par with T4, T6 and T7 treatments but significantly superior over all other treatments. The bacterial counts were recorded highest in treatment T6 and it was at par with T5 and T7 treatments but significantly superior than remaining treatments. Fungal counts was found significantly higher in the T6 treatment and shown its significant superiority than other treatments, although statistically at par with T7. The actinomycetes counts were found significantly higher in T6 (RDN through VC + biofertilizer) treatment than all other except T5 treatment.

5.3 Hisar:

Results shown in Table II.87-95 exhibited that organic and cow centric nutrients have significant impact on grain and stover yield of pearl millet. The grain and stover yields of pearl millet showed an increment with the application of different organic manures alone (*viz.,* farmyard manure (FYM), vermicompost (VM) and poultry manure (PM) and in combination with bio fertilizers over control. Highest grain and straw yield (35.31 q/ha in grain and 98.89 q/ha in stover) were obtained under treatment RDF. However, lowest grain and straw yields (18.35 q/ha and 53.15 q/ha) were obtained in the control. The respective range of grain yield was in the range of 25.40 to 30.84 q/ha and 72.95-86.65 q/ha, respectively in the T_2 to T_7 treatments whereas, it was 22.89 q/ha and 65.94 q/ha, respectively in cow based treatment (T_8). Highest gross (Rs. 117763/ha), net returns (Rs. 62246/ha) and BC ratio (2.12) were also found in the T_9 treatment (Table 93-95) and resulted in Rs. 42266/ha more net returns over the cow based treatment (T_8).

During 2024-25, in comparison to significantly higher mustard seed yield in the RDF treatment (16.51 q/ha), the respective yield in the control was 7.39 q/ha whereas, in cow-based formulation treatment it was 8.47 q/ha (Table 97-102). The range of seed yield in the sole organic manure treatments

i.e. FYM, VC and Poultry Manure was between 9.48–10.07 q/ha whereas, the combination of these organic manures with biofertilizer it varied between 9.92-10.07 q/ha. Similar trend was also observed for seed yield attributes viz. Seeds/siliqua, no. of siliquae/plant and number of siliquae/plant. The test weight was found significantly higher in RDF treatment (6.1 g) than all the treatments of cow based, sole application of FYM,VC and Poultry Manure and control whereas it remained statistically at par with FYM,VC and Poultry Manure plus biofertilizers treatments (T_5 to T_7). The oil content was found statistically at par among different treatments but all exhibited significant superiority over the control. The pearl millet equivalent yield was highest in RDF treatment (85.78 q/ha) whereas, it was 44.31 q/ha in control and 52.21 q/ha in Cow based bioformulation treatment. The range was between 60.73 to 65.90 q/ha in sole organic manure along with biofertilizer treatments.

It can be inferred from the Table II.91-92 that organic sources of nutrients alone as well as along with biofertilizers were found to be higher in SOC and available nitrogen (N). Maximum available soil organic carbon (0.42 %) was observed in the FYM along with biofertilizers treatment. However, organic carbon (0.31%) and available nitrogen (178.7 q/ha) in post-harvest soils were observed minimum under control followed by cow based formulation treatment (0.35% and 185.3 q/ha, respectively). EC and pH were not affected significantly by the application of different organic and RDF treatments.

An appraisal of data presented in Table II.96 inferred that remarkable effects of biofertilizers, FYM and vermicompost were observed on the bacterial population of soil after harvesting of pearl millet. Treatments RDN through FYM + Biofertilizer (5.43×10^7 cfu count g^{-1} soil) and RDN through VC+ Biofertilizer (5.54×10^7 cfu count g^{-1} soil) treatments notably recorded significantly higher bacterial population over RDF (4.17×10^7 cfu count g^{-1} soil) and control (3.59×10^7 cfu count g^{-1} soil). The fungal population was found significantly highest in RDN through PM + Biofertilizer (4.27×10^5 cfu count g^{-1} soil) than other treatments including the cow based treatment (3.73×10^5 cfu count g^{-1} soil), control (1.60×10^5 cfu count g^{-1} soil) and RDF treatment (2.80×10^5 cfu count g^{-1} soil). The actinomycetes population were found significantly higher among all the sole organic manures, organic manures+biofertilizer and cow based treatments as compared to control. However, the treatment RDN through poultry manure (4.70×10^5 cfu count g^{-1} soil) showed its significant superiority than all the treatments except cow based treatment (4.33×10^5 cfu count g^{-1} soil) and RDN through FYM treatment (4.30×10^5 cfu count g^{-1} soil).

5.4 Jaipur:

The data presented in the Tables II.87 to 90 exhibited at par performance for grain yield in the treatments T4, T6, T7, T8 & T9 (22.33 to 24.36 q/ha) and all these produced significantly higher yield than control (17.64 q/ha) and FYM alone (18.16 q/ha). The stover yield (43.14-53.73 q/ha) was statistically at par among T4 and T6 to T9 treatments but significantly superior over control (38.43 q/ha) and RDN through FYM (39.60 q/ha) treatments. The respective grain and stover yields were 23.31 q/ha and 51.59 q/ha, respectively in the cow based treatment. The protein content was found statistically at par among all the treatments.

During *Rabi* 2024-25, the perusal of the data in Tables 97 to 100 revealed that the mustard seed yield was found significantly higher in the T7 (RDN through Poultry manure + Biofertilizer; 19.06 q/ha) treatment over control (14.06 q/ha), cow based formulation (16.68 q/ha) and RDN through FYM (16.26 q/ha) treatments but remained statistically at par with other treatments with values between 17.26-18.55 q/ha. The stover yield (49.33-53.73 q/ha) was statistically at par among T4 and T6 to T9 treatments but significantly superior over control (38.43 q/ha) and RDN through FYM (39.60 q/ha) treatments.

5.5 Jamnagar:

The study exhibited that the grain and stover yields were significantly higher in the RDF treatment (27.70 q/ha and 41.59 q/ha, respectively) over all the treatments except T7 (RDN through Poultry manure + Biofertilizer; 23.97 q/ha and 36.65 q/ha, respectively). The grain yield was higher by 138.8 and 34.2 per cent higher over control and cow based treatments. Similarly, the stover yield was higher by 109.8 and 27.8 per cent higher over control and cow based treatments. Among organic manure treatments, the poultry manure in combination with biofertilizer (23.97 q/ha) resulted into higher yield as compared to sole FYM, vermicompost, poultry manure and combination of Vermicompost with biofertilizer treatments. The protein content in T7 treatment was significantly higher than all the treatments except RDN through poultry manure. The highest gross returns (Rs. 73385/ha), net returns (Rs. 49698/ha) and BC ratio (3.10) were found in the RDF treatment and resulted in Rs. 9298/ha more net returns over the cow based treatment (T_8).

Table II.91-92 exhibited that organic sources of nutrients alone as well as along with biofertilizers were found to be higher in SOC (0.62-0.75%) than 0.63% in cow based treatment, 0.53 % in control and 0.58 % in RDF treatment. The available nitrogen in the RDF (225.3 kg/ha), Poultry Manure (210.0 kg/ha) and VC (203.1 kg/ha) along with biofertilizer treatments and sole Poultry Manure (204.2 kg/ha), significantly higher than all the treatment and it was 200.5 kg/ha in cow based treatment and 177.7 kg/ha in control. The available phosphorus (27.4 kg/ha) in the RDF treatment was significantly superior than other treatments but at par with Poultry Manure + biofertilizer treatment (25.1 kg/ha). The available potash (295.3-323.7 kg/ha) in the treatments from T2 to T9 was at par but shown their significant superiority over control (260.8 kg/ha). During 2022, bacterial counts were observed significantly higher in T8 than all the treatments except FYM alone and FYM along with biofertilizer treatments which remained statistically at par. The microbial counts study was not reported during 2023, 2024 and 2025 crop seasons.

Maximum mustard seed yield was recorded in the RDF treatment (25.57 q/ha) whereas, the respective yield in the control was 10.20 q/ha whereas, in cow based formulation treatment it was 13.99 q/ha. The range of seed yield in the sole organic manure treatments i.e FYM, VC and PM was between 11.93-14.30 q/ha whereas, the combination of these organic manures with biofertilizer it varied between 16.85-20.53 q/ha. Simiilar trend was also observed for yield attributes viz. seeds/siliqua and no. of siliquae/plant. The oil content was 34.9% in the RDF treatment whereas, it was 29.9% in the control and 32.6% in the cow based formulation treatment during 2024-25 crop season. The highest gross returns (Rs. 167887/ha) and net returns (Rs. 137762/ha) and BC ratio (5.6) were found highest in the RDF treatment and resulted in Rs. 56066/ha more net returns over the cow based treatment (T_8).

After mustard harvest, the OC was between 0.60-0.71 % among organic manure treatments in comparison to 0.61 % in cow based treatment, 0.47 % in RDF and 0.46 % in control. The available N was significantly highest in RDF treatment (226.4 kg/ha) as compared to all the treatments from T2 to T7 (188.9-205.4 kg/ha), control (180.1 kg/ha) and cow based treatment (199.1 kg/ha). The available P was statistically at par between T4 to T9 treatments but significantly superior over control. The available K was found statistically at par between T4 to T9 treatments and cow based bio formulation treatment (319.9 kg/ha) showed higher value than control (281.4 kg/ha).

5.6 Jammu: The data was not reported during 2025 crop season.

Zonal performance – Zone A

The four locations mean data showed the superiority of T_9 (RDF) treatment in terms of grain and stover yield (30.77 and 61.81 q/ha, respectively) compared to all the remaining treatments including control (18.30 q/ha grain; 39.47 q/ha stover). The grain and stover yields were higher by 68.1 and 56.6 % in the T9 treatment over the control and by 31.3 and 24.9% than the cow based formulation treatment (T8). Among organic manures, the treatment T7 (RDN through Poultry Manure+ Biofertilizer) produced maximum grain yield (27.48 q/ha) and stover yield (56.85 q/ha) and was comparable to RDF treatment. The T9 treatment resulted in Rs. 44841/ha and Rs. 26863/ha more net returns over the control and cow based treatments. The maximum B:C was also recorded in the T9 (2.61) whereas it was 1.58 and 1.91 in control and cow based treatments. The protein content was observed maximum in the Poultry manure (10.0%) treatment as compared to 9.8% in RDF and 9.5 % in cow based treatments whereas, lowest in the control (8.6%).

At Hisar, It can be inferred from the Table II.91-92 that organic sources of nutrients alone as well as along with biofertilizers were found to be higher in SOC and available nitrogen (N). Maximum available soil organic carbon (0.42 %) was observed in the FYM along with biofertilizers treatment. However, organic carbon (0.31%) and available nitrogen (178.7 q/ha) in post-harvest soils were observed minimum under control followed by cow based formulation treatment (0.35% and 185.3 q/ha, respectively). EC and pH were not affected significantly by the application of different organic and RDF treatments.

An appraisal of data presented in Table II.96 inferred that remarkable effects of biofertilizers, FYM and vermicompost were observed on the bacterial population of soil after harvesting of pearl millet. Treatments RDN through FYM + Biofertilizer (5.43×10^7 cfu count g^{-1} soil) and RDN through VC+ Biofertilizer (5.54×10^7 cfu count g^{-1} soil) treatments notably recorded significantly higher bacterial population over RDF (4.17×10^7 cfu count g^{-1} soil) and control (3.59×10^7 cfu count g^{-1} soil). The fungal population was found significantly highest in RDN through PM + Biofertilizer (4.27×10^5 cfu count g^{-1} soil) than other treatments including the cow based treatment (3.73×10^5 cfu count g^{-1} soil), control (1.60×10^5 cfu count g^{-1} soil) and RDF treatment (2.80×10^5 cfu count g^{-1} soil). The actinomycetes population was found significantly higher among all the organic manure alone, organic manure+biofertilizer and cow based treatments as compared to control. However, the treatment RDN through poultry manure (4.70×10^5 cfu count g^{-1} soil) showed its significant superiority than all the treatments except cow based treatment (4.33×10^5 cfu count g^{-1} soil) and RDN through FYM treatment (4.30×10^5 cfu count g^{-1} soil).

At Jamnagar, Table II.91-92 exhibited that organic sources of nutrients alone as well as along with biofertilizers were found to be higher in SOC (0.62-0.75%) than 0.63% in cow based treatment, 0.53 % in control and 0.58 % in RDF treatment. The available nitrogen in the RDF (225.3 kg/ha), Poultry Manure (210.0 kg/ha) and VC (203.1 kg/ha) along with biofertilizer treatments and sole Poultry Manure (204.2 kg/ha), significantly higher than all the treatment and it was 200.5 kg/ha in cow based treatment and 177.7 kg/ha in control. The available phosphorus (27.4 kg/ha) in the RDF treatment was significantly superior than other treatments but at par with Poultry Manure + biofertilizer treatment (25.1 kg/ha). The available potash (295.3-323.7 kg/ha) in the treatments from T2 to T9 was at par but shown their significant superiority over control (260.8 kg/ha). During 2022, bacterial counts were

observed significantly higher in T_8 than all the treatments except FYM alone and FYM along with biofertilizer treatments which remained statistically at par.

The three locations mean data showed the superiority of treatment T9 (RDF) treatment in terms of seed and straw yield of mustard (16.12 and 37.73 q/ha, respectively) compared to all the remaining treatments including control (7.78 q/ha seed; 21.87 q/ha straw). The seed and straw yield were higher by 107.2 and 72.5 % in the T9 treatment over the control and by 63.3 and 36.9% over the cow based formulation treatment (T8).

At Jamnagar, after mustard harvest, the OC was between 0.60-0.71 % among organic manure treatments in comparison to 0.61 % in cow based treatment, 0.47 % in RDF and 0.46 % in control. The available N was significantly highest in RDF treatment (226.4 kg/ha) as compared to all the treatments from T2 to T7 (188.9-205.4 kg/ha), control (180.1 kg/ha) and cow based treatment (199.1 kg/ha). The available P was statistically at par between T4 to T9 treatments but significantly superior over control. The available K was found statistically at par between T4 to T9 treatments and cow based bio formulation treatment (319.9 kg/ha) showed higher value than control (281.4 kg/ha).

5.7 Aurangabad:

The data presented in the Tables II.103 to 109 exhibited that the grain and stover yields were significantly higher in the RDF treatment (24.89 q/ha and 57.00 q/ha, respectively) over all the treatments except T7 (RDN through Poultry manure + Biofertilizer; 22.27 q/ha and 51.00 q/ha, respectively). The grain yield was higher by 68.4 and 34.3 per cent higher over control and cow based treatments. Similarly, the stover yield was higher by 67.6 and 33.7 per cent higher over control and cow based treatments. Among organic manure treatments, the poultry manure in combination with biofertilizer (22.27 q/ha) resulted into significantly higher grain yield as compared to sole application of FYM (16.41 q/ha), vermicompost (17.14 q/ha) and poultry manure (17.44 q/ha) treatments. The T9 treatment resulted in Rs. 32153/ha and Rs. 23245/ha more net returns over the control and cow based treatments. The maximum B:C was also recorded in the T9 (2.75) whereas, it was 1.79 and 1.97 % in control and cow based treatments, respectively.

5.8 Dhule: The grain and and stover yields were found maximum in T9 treatment (27.23 q/ha grain; 50.16 q/ha stover) and grain yield was higher by 78.4 and 40.7 % over the control and cow based treatment, respectively. The grain and stover yield were significantly lower in the cow based treatments (T8) treatment (19.35 q/ha grain; 35.66 q/ha stover) as compared to RDF treatment but remained at par with the sole VC and Poultry Manure treatments but significantly lesser grain yield than their combination with biofertilizers treatments. The maximum gross (Rs. 72091/ha), net returns (Rs. 41251/ha) and BC ratio (2.34) were found in the T9 treatment and resulted in Rs. 20146/ha more net returns over the cow based treatment (T8).

The perusal of the data in Table II.110-112 revealed that organic sources of nutrients alone as well as along with biofertilizers were found to be higher in SOC , available nitrogen (N), phosphorus (P) and potash (K). Maximum available soil organic carbon (0.53 %) and N (217.0 kg/ha) were observed in the FYM along with biofertilizer treatment. However, organic carbon and available nitrogen (N) in post-harvest soils were observed minimum under control followed by RDF treatment. Maximum available soil P (16.0 kg/ha) and K (477.0 kg/ha) were recorded in the FYM along with biofertilizer treatment.

During Rabi 2024-25 season, maximum chickpea seed yield (18.62 q/ha) was recorded by RDF treatment which was significantly higher than all other organic treatments (12.95-15.90 q/ha) and cow

based bio formulation treatment (11.69 q/ha seed) but at par with FYM + biofertilizer (16.72 q/ha) and Vermicompost + biofertilizer (15.90 q/ha) treatments. Maximum straw yield was recorded in RDF treatment (31.57 q/ha) which was significantly higher than control (17.05 q/ha) and sole application of FYM, VC, poultry manure as well as Poultry manure and biofertilizer combination treatments (21.95-25.74 q/ha) and cow based bio formulation treatment (19.82 q/ha seed). Similarly maximum gross returns (Rs. 155386/ha), net returns (Rs. 97290/ha) and BC ratio (2.67) were recorded by RDF treatment and this treatment resulted in Rs. 63993 and Rs. 50407/ha more net returns over control and cow based bio formulation treatments.

5.9 Vijayapur: All the yield attributes (total no. of tillers, effective tillers, ear head length, ear head girth and 1000 grains weight) grain and stover yields were significantly increased with the application of different sole organic manures (farmyard manure, vermicompost and poultry manure) and also along with biofertilizers over control (Tables II.103-106 and 110-114). Highest grain yield (24.17 q/ha) was obtained under vermicompost + biofertilizers treatment whereas, stover yield was found statistically at par among all the treatments (T2 to T9) but significantly higher over control (T1). However, lowest grain and straw yields (10.32 & 32.26 q/ha) were obtained in the control. The respective range of grain yield was in the range of 19.31 to 24.17 q/ha and 48.47 to 57.69 q/ha, respectively in the T5 to T7 treatments whereas, it was 16.39 q/ha and 43.68 q/ha, respectively in cow based treatment (T8). The Fe content in pearl millet grain was found significantly higher in vermicompost + biofertilizer treatment over sole poultry manure, FYM + biofertilizer, cow based formulation and control treatments. Maximum Zn content was recorded in sole FYM treatment, which was significantly higher than control and RDF treatments.

The SOC (%) was statistically at par in cow based (0.65%) and RDF (0.61%) over the control (0.61%) but significantly higher in the sole organic manures and their combination with biofertilizer treatments (0.66-0.71%). Maximum available N (222.3 kg/ha), P (26.3 kg/ha) and K (430.0 kg/ha) were observed in the vermicompost along with biofertilizer treatment. The data presented in Table II.114 inferred that cow based formulation, organic manures (FYM, PM and vermicompost) and organic manures with biofertilizers showed significantly higher bacterial population (53.33 to 82.00 x 10^6 cfu count g^{-1} soil in soil) over control and RDF treatments after harvesting of pearl millet. However, treatment receiving cow based bio formulations notably recorded higher bacterial population (56.33 × 10^6 cfu count g^{-1} soil) over control (39.33 × 10^6 cfu count g^{-1} soil) and RDF (48.00 × 10^6 cfu count g^{-1} soil).

In chickpea crop during 2024-25, the seed yield was 9.20 q/ha in control whereas, it was 10.24 q/ha in cow based bio formulation treatment. Maximum yield was realized in RDN through vermicompost + biofertilizers treatment (13.85 q/ha). The seed yield was 11.16 q/ha in RDF treatment. The stover yield was improved significantly by organic manures, their combination with biofertilizers, cow based formulation and RDF treatments over the control. Straw yield was statistically at par in T2 to T9 treatments and all these treatments produce significantly higher stover yield than control. Protein content, no. of seeds/pod and no. of primary branches/plant were not affected significantly by different treatments.

5.10 Coimbatore:

The study exhibited that the grain yield was significantly higher in the RDF (21.85 q/ha) over control (14.31 q/ha) and sole organic treatments (18.24-18.75 q/ha) but at par with combinations of organic + biofertilizers treatments (19.67-20.71 q/ha) and cow based treatment (20.94 q/ha). The stover yield also followed the trend of grain yield. Among sole organic manure treatments and along with biofertilizers,

the grain and stover yields were at par among themselves as well as in comparison to cow based treatment. The highest gross returns (Rs. 72364/ha) and net returns (Rs. 32964/ha) were found in the RDF treatment and resulted in Rs. 547/ha and Rs. 17333/ha more net returns over the cow based (T_8) and control treatments.

During Rabi 2023-24 season, maximum chickpea seed yield (13.41 q/ha) was recorded by RDF treatment which was significantly higher than all organic treatments (10.48-11.81 q/ha), control (6.53 q/ha) and cow based bio formulation treatment (11.81 q/ha). Maximum straw yield was recorded in RDF treatment (25.00 q/ha) which was significantly higher than control (12.21 q/ha) and sole application of FYM, VC, goat manure as well as in combination treatments (19.43-20.27 q/ha) and cow based bio formulation treatment (22.02 q/ha). Similarly maximum gross returns (Rs. 93142/ha), net returns (Rs. 52820/ha) and BC ratio (2.31) were recorded by RDF treatment and this treatment resulted in Rs. 34849 and Rs. 8189/ha more net returns over control and cow based bio formulation treatments.

After pearl millet- chickpea crop rotation during *Rabi* 2024-25 (Tables 119-120), the soil study revealed that the soil OC was found statistically at par among organic manures and cow based treatments (0.43-0.44%) and shown their significant superiority over control (0.40%) and RDF (0.41%). The available N was significantly higher in RDF treatment as compared to all the treatments except T6, T7 and cow based treatments. The available P among T2 to T9 treatments exhibited their statistical superiority over the control. The available K was found statistically at par among T5 to T9 treatments but cow based and RDF treatments shown their significant superiority over T1 to T4 treatments.

5.11 Perruvullam: The data was not reported during *kharif* 2025 pearl millet crop season. During Rabi 2024-25 crop season, chickpea seed yield was significantly improved by all the treatments as compared to control except cow based bioformulation treatment.

Zonal performance – Zone B

The mean data of the five locations for grain and stover yield revealed the superiority of RDF treatment T9 (26.50 and 49.28 q/ha, respectively) compared to all the remaining treatments including control (14.72 q/ha grain; 30.82 q/ha stover). The grain and stover yields were higher by 80.0 and 59.9% in the T9 treatment over the control and by 33.5 and 23.9% over the cow based formulation treatment (19.85 q/ha grain; 39.78 q/ha stover). The T9 treatment resulted in Rs. 34845/ha and Rs. 21875/ha more net returns over the control and cow based treatments. The maximum B:C was also recorded in the T9 (2.63) whereas it was 1.68 and 2.01 in control and cow based treatments.

At Vijyapur, SOC (%) was statistically at par in cow based (0.65%) and RDF (0.61%) over the control (0.61%) but significantly higher in the sole organic manures and their combination with biofertilizer treatments (0.66-0.71%). Maximum available N (222.3 kg/ha), P (26.3 kg/ha) and K (430.0 kg/ha) were observed in the vermicompost along with biofertilizer treatment. The data inferred that cow based formulation, organic manures (FYM, PM and vermicompost) and organic manures with biofertilizers showed significantly higher bacterial population (53.33 to 82.00 $x10^6$ cfu count g^{-1} soil in soil) over control and RDF treatments after harvesting of pearl millet. However, treatment receiving cow based bio formulations notably recorded bacterial population (56.33×10^6 cfu count g^{-1} soil) over control (39.33×10^6 cfu count g^{-1} soil) and RDF (48.00×10^6 cfu count g^{-1} soil).

The four locations mean data showed the superiority of treatment T9 (RDF) treatment in terms of seed and straw yields of chickpea (15.56 and 23.41 q/ha, respectively) compared to all the remaining treatments including control (9.20 q/ha seed; 13.69 q/ha straw). The seed and straw yields were higher

by 69.1 and 71.0% in the T_9 treatment over the control and by 28.1 and 30.2% over the cow based formulation treatment (T_8). Maximum gross returns (Rs. 82203/ha), net returns (Rs. 48000/ha) and BC ratio (2.40) were recorded by RDF treatment and this treatment resulted in Rs. 33169 and Rs. 16489/ha more net returns over control and cow based bio formulations treatment.

At Coimbatore, after pearl millet- chickpea crop rotation during *Rabi* 2024-25, the soil study revealed that the soil OC was found statistically at par among organic manures and cow based treatments (0.43-0.44%) and shown their significant superiority over control (0.40%) and RDF (0.41%). The available N was significantly higher in RDF treatment as compared to all the treatments except T6, T7 and cow based treatments. The available P among T2 to T9 treatments exhibited their statistical superiority over the control. The available K was found statistically at par among T5 to T9 treatments but cow based and RDF treatments shown their significant superiority over T1 to T4 treatments.

PMAT 6: Evaluation of Biopolymeric seed treatments for enhancing stress tolerance and yield in pearl millet (*Pennisetum glaucum* L.) under A_1 zone conditions.

The field experiment aimed to evaluate the efficacy of biopolymeric seed treatment, individually and in combination with crop production inputs, in improving seed germination, vigor, plant growth, yield, stress resilience, soil microbial dynamics, enzymatic activity and water use efficiency in pearl millet under A_1 zone conditions was started during *Kharif*, 2025 at two locations (Mandor and Bikaner). The performance of pearl millet was evaluated with ten different treatments *i.e.* T_1 : Biopolymer (BP_2) alone @10 ml/kg, T_2 : Biopolymer(BP_1)+ Thiomethaxam @5 ml/kg, T_3 : BP_1+ Fungicide 5 g/kg, T_4 : BP+ Azotobacter, T_5 : Biopolymer(BP_2)+ Thiomethaxam @5 ml/kg, T_6 : Biopolymeric ML Layer 1+ BP ML Layer 2, T_7 : Thiomethaxam alone @5 ml/kg, T_8 : *Trichoderma harzianum*, T_9 : Thiram@ 4 g/kg and Metalaxyl @ 5 g/kg and T_{10} : Azotobacter (Control). Ten treatments were replicated three times in RBD design. Data on ancillary characters, germination percentage, yield attributes, yield and water use efficiency are presented in Table II.123.

6.1 Bikaner: The data presented in the Tables II.123 during *kharif*, 2025 exhibited no significant variations in the germination percentage, growth parameters, yield attributes, yield and water use efficiency among various biopolimaric seed treatments.

6.2 Mandor: Similar to the Bikaner centre, the data presented in Tables II.123 and II.124 showed no significant variations in germination percentage, growth parameters, yield attributes, yield, water use efficiency and economics among the various biopolymeric seed treatments during Kharif 2025.

Zonal performance – Zone A1

Mean data showed that the treatment T5 [Biopolymer (BP2) + Thiamethoxam @ 5 ml/kg] produced the highest grain (20.77 q/ha) and stover yields (43.08 q/ha); however, differences among treatments in yield attributes, grain yield, dry fodder yield and water use efficiency of pearl millet did not vary significant.

Table II.1: Summary of Agronomical trials conducted during 2025

S. No.	Name of centre	PMAT								Trials allotted	Result reported	Trial failed/not conducted
		1			2	3	4	5	6			
		a	b	c								
ZONE A1												
1	Mandor	A	-	-	A	A	A*	A	A*	6	4	PMAT 4 data not reported
2	Bikaner	A	-	-	A	A	A*	A	A	6	5	PMAT 4 data and *PMAT 5 Rabi season 2024-25 data not reported
ZONE A												
3	Jaipur	-	A	-	A	A	A	A		5	5	-
4	New Delhi	-	A	-	-	-	-	-		1	1	-
5	Hisar	-	A	-	A	A	A	A		5	5	-
6	Jamnagar	-	A	-	A	A	A	A		5	5	-
7	Jammu	-	-	-	-	-	-	A		1	0	PMAT 5 data not reported
ZONE B												
7	Aurangabad	-	-	A	A	A	A	A		5	5	-
8	Dhule	-	-	A	A	A	A	A		5	5	-
9	Vijayapur	-	-	A	A	A	A	A*		5	5	PMAT 5 Rabi season 2024-25 data not reported
10	Coimbatore	-	-	A	A	A	A	A		5	5	
11	Perumallapalle	-	-	-	-	-	-	A*		1	0	PMAT 5 Kharif and Rabi data not reported
	Total	**2**	**4**	**4**	**10**	**9**	**9**	**11**	**2**	**50**	**45**	

A= Alloted; A*= Not conducted

Table II.2: Experimental details of Agronomy trials– *Kharif* 2025

Trials & Locations	Soil Status						Previous Crop	Variety Used	Nutrient (Kg/ha)			Date of operations carried						
	Type	pH	N	P	K	Depth/ Fe status			N	P	K	Sowing	Thinning	Top dresing	Weeding	Hoeing	Irri.	Pl. Prot.	Harvest
PMAT 1b																			
Bikaner	LS	7.8	L	L	M	Deep	Fallow	APT	APT	APT	APT	13-07-2025	06-08-2025	11-08-2025	14/8/25 1/9/25	14/8/25 1/9/25	11/8/25 , 5/9/25, 16/9/25	-	10-11/10/25
Mandor	SL	8.0	L	M	H	Deep	Pearl Millet	APT	APT	APT	APT	09-07-2025	23-07-2025	05-08-2025	4/8/25 6/9/25	4/8/25 6/9/25	-	-	12-10-2025
PMAT 1b																			
Jaipur	LS	7.8	L	M	M	Deep	-	APT	APT	30	-	08-07-2025	28-07-2025	05-08-2025	31-07-2025	31-07-2025	-	-	04-10-2025
Aurangabad	CL	7.5	L	M	H	60 cm	Groundnut	APT	APT	40	-	02-07-2025	17-07-2025	25-07-2025	18/7/25 31/8/25	18/7/25 31/8/25	12-08-2025	-	08-10-2025
Dhule	SL	7.7	181 kg/ha	19 kg/ha	221 kg/ha	Deep	Mustard	APT	40	40	-	06-07-2025	23-07-2025	01-08-2025	28/7/25 26/8/25	28/7/25 26/8/25	-	13/09/22	03-10-2025
Hisar	SL	8.1	149.12 kg/ha	18.3 kg/ha	165.76 kg/ha	Deep	Wheat	APT	APT	62.5	-	02-07-2025	17-07-2025	23-07-2025	22/7/25 6/8/25	22/7/25 6/8/25	-	5/8/25 Coragen	11-10-2025
PMAT 1c																			
Aurangabad	MDB	8.1	L	M	H	60 cm	Fallow	APT	APT	APT	APT	17-07-2025	08-08-2025	09-08-2025	29-08-2025	29-08-2025	-	-	09-10-2025
Dhule	MB	8.2	L	M	H	60-90 cm	Fallow	APT	60	30	-	29-07-2025	14-08-2025	27-08-2025	17/8/25 9/9/25	15/8/25 2/9/25	-	-	11-11-2025
Vijayapur	MB	8.1	190 kg/ha	21.7 kg/ha	384.4 kg/ha	30-45 cm	Fallow	APT	APT	APT	APT	18-07-2025	12-08-2025	21-08-2025	12/8/25 9/9/25	12/8/25 9/9/25	-	-	17-10-2025
Coimbatore	CL	8.4	L	M	H	1.48 m	Fallow	APT	APT	40	40	17-07-2025	08-08-2025	6/8/25 25/9/25	4/8/25 20/8/25	4/8/25 20/8/25	19-07-2025	-	27-28/10/25
PMAT 1d																			
Aurangabad	MDB	8.3	L	M	H	60 cm	Soybean	APT	APT	APT	-	22-02-2025	19-03-2025	20-03-2025	08-03-2025	08-03-2025	23.1.25, 7/2/25, 17/3/25, 10/4/25	-	-
Dhule	MB	7.4	L	M	H	60-90 cm	Soybean	APT	APT	30	-	28-02-2025	14-03-2025	28/2/25 29/3/25	20/3/25 25/3/25	20/3/25 25/3/25	8 irrigations	-	05-06-2025
Jamnagar	CL	7.6	M	M	H	60 cm	Pearl Millet	APT	APT	40	-	17-02-2025	05-03-2025	13-03-2025	6/3/25 15/3/25	6/3/25 15/3/25	21/2/25, 28/2/25, 11/3/25, 25/3/25,	-	17-05-2025
PMAT 2																			
Bikaner	LS	7.8	L	L	M	Deep	Fallow	APT	APT	APT	APT	13-07-2025	04-08-2025	6-08-25 23/8/25	15/8/25 4/9/25	15/8/25 4/9/25	11/8/25 , 5/9/25, 16/9/25	06-08-2025	11-12/10/25
Mandor	SL	8.1	L	M	H	Deep	Pearl Millet	APT	APT	APT	APT	10-07-2025	26-07-2025	APT	18-09-2025	18-09-2025	-	-	12-10-2025

Table II.2: Experimental details of Agronomy trials– *Kharif* 2025

Trials & Locations	Soil Status						Previous Crop	Variety Used	Nutrient (Kg/ha)			Date of operations carried						
	Type	pH	N	P	K	Depth/ Fe status			N	P	K	Sowing	Thinning	Top dresing	Weeding	Hoeing	Irri.	Pl. Prot.	Harvest
Jaipur	LS	7.5	L	M	M	Deep	-	RHB 234	60	30	-	08-07-2025	28-07-2025	02-08-2025	27-07-2025	27-07-2025	-	-	25-09-2025
Jamnagar	CL	7.5	L	M	H	60 cm	Groundnut	GHB 1231	APT	APT	-	02-07-2025	17-07-2025	25-07-2025	18/7/25 31/8/25	18/7/25 31/8/25	12-08-2025	-	07-10-2025
Hisar	SL	8.1	0.11 kg/	9.8 kg/h	170 kg/h	Deep	Wheat	HHB 299	APT	APT	-	02-07-2025	18-07-2025	23/7/25 05/8/25	22/7/25 06/8/25	22/7/25 06/8/25	-	5/8/25 Coragen	11-10-2025
Aurangabad	MDB	8.2	L	M	H	60 cm	Fallow	AHB 1200	APT	APT	APT	26-06-2025	25-07-2025	02-08-2025	05-08-2025	05-08-2025	-	-	24-09-2025
Dhule	MB	8.2	L	M	H	60-90 cm	Fallow	APT	APT	APT	APT	06-07-2025	20-07-2025	08-08-2025	29/07/25 30/07/25	29/07/25 30/07/25	-	-	06-10-2025
Vijayapur	MB	8.2	195.4 kg/ha	24.8 kg/ha	411.3 kg/ha	30-45 cm	Fallow	VPMH 14	APT	APT	APT	09-07-2025	29-07-2025	APT	6/8/25 4/9/25	6/8/25 4/9/25	-	-	14-10-2025
Coimbatore	CL	8.4	L	M	H	1.48 m	Fallow	COH 10	APT	40	40	17-07-2025	08-08-2025	7/8/25 16/8/25 25/9/25	5/8/25 23/9/25	5/8/25 23/9/25	19/7/25 10/9/25	-	24-10-2025
PMAT 3																			
Bikaner	LS	7.8	L	L	M	Deep	Fallow	APT	APT	APT	APT	13-07-2025	07-08-2025	8-08-25 21/8/25	12/8/25 4/9/25	12/8/25 4/9/25	8/8/25 , 6/9/25, 15/9/25	08-08-2025	11-12/10/25
Mandor	SL	8.1	L	M	H	Deep	Pearl Millet	APT	APT	APT	APT	10-07-2025	26-07-2025	APT	6/8/25 18/9/25	6/8/25 18/9/25	-	-	13-10-2025
Jaipur	LS	7.8	L	M	M	Deep	-	GHB 1231	APT	APT	-	08-07-2025	28-07-2025	02-08-2025	27-07-2025	27-07-2025	-	-	25-09-2025
Hisar	SL	8.1	182.12 kg/ha	19.4 kg/ha	174.08 kg/ha	Deep	Wheat	HHB 299	APT	APT	APT	-	18-07-2025	23/7/25 05/8/25	22/7/25 06/8/25	22/7/25 06/8/25	-	5/8/25 Coragen	11-10-2025
Jamnagar	CL	7.5	L	M	H	60 cm	Groundnut	GHB 1231	APT	APT	-	02-07-2025	17-07-2025	25-07-2025	18/7/25 31/8/25	18/7/25 31/8/25	12-08-2025	-	06-10-2025
Aurangabad	MDB	8.0	L	M	H	60 cm	Fallow	APT	APT	APT	APT	27-06-2025	26-07-2025	27-07-2025	21-08-2025	21-08-2025	-	-	26-09-2025
Dhule	MB	8.2	L	M	H	60-90 cm	Fallow	APT	APT	APT	APT	06-07-2025	20-07-2025	08-08-2025	29/7/25 30/7/25	29/7/25 30/7/25	-	-	16-10-2025
Vijayapur	MB	8.2	191.7 kg/ha	22.3 kg/ha	389.9 kg/ha	30-45 cm	Fallow	VPMH 14	APT	APT	APT	09-07-2025	30-07-2025	APT	7/8/25 9/9/25	7/8/25 9/9/25	-	-	14-10-2025
Coimbatore	CL	8.3	L	M	H	1.53 m	Fallow	COH 10	APT	APT	40	19-07-2025	08-08-2025	8/8/25 28/9/25	5/8/25 24/9/25	5/8/25 24/9/25	19/7/25 10/9/25	-	24-10-2025

Table II.2: Experimental details of Agronomy trials– *Kharif* 2025

Trials & Locations	Soil Status						Previous Crop	Variety Used	Nutrient (Kg/ha)			Date of operations carried						
	Type	pH	N	P	K	Depth/ Fe status			N	P	K	Sowing	Thinning	Top dresing	Weeding	Hoeing	Irri.	Pl. Prot.	Harvest
PMAT 4																			
Jaipur	LS	7.8	L	M	M	Deep	-	RHB 233	APT	APT	-	08-07-2025	28-07-2025	02-08-2025	27-07-2025	27-07-2025	-	-	25-09-2025
Hisar	SL	8.1	162.14 kg/ha	18.5 kg/ha	168.66 kg/ha	Deep	Wheat	APT	APT	APT	-	02-07-2025	19-07-2025	20-07-2025	22/7/25 06/8/25	22/7/25 06/8/25	-	-	As per Maturity
Jamnagar	CL	7.6	L	L	H	60 cm	Groundnut	GHB 1231	APT	APT	-	02-07-2025	17-07-2025	25-07-2025	18/7/25 31/8/25	18/7/25 31/8/25	12-08-2025	-	4-24/10/25
Aurangabad	MDB	8.0	L	M	H	60 cm	Fallow	APT	APT	APT	APT	28-06-2025	29-07-2025	29-07-2025	24-08-2025	29-08-2025	-	-	02-10-2025
Dhule	MB	8.2	L	M	H	60-90 cm	Fallow	Aadhishakti	APT	APT	-	07-07-2025	20-07-2025	08-08-2025	29/7/25 30/7/25	29/7/25 30/7/25	-	-	07-10-2025
Vijayapur	MB	8.4	211.3 kg/ha	24.1kg/ ha	398.7k g/ha	30-45 cm	Fallow	VPMH 14	APT	APT	APT	13-07-2025	01-08-2025	APT	12-08-2025	12-08-2025	-	-	19-10-2025
Coimbatore	CL	8.4	L	M	H	1.53 m	Fallow	COH 10	APT	APT	APT	17-07-2025	30-07-2025	10/8/25 2/9/25	5/8/25 21/9/25	5/8/25 21/9/25	19-07-2025 10/9/25	-	31-10-2025
PMAT 5																			
Bikaner	LS	7.7	L	L	M	Deep	Fallow	APT	APT	APT	APT	12-07-2025	02-08-2025	10-08-2025	13/8/25 3/9/25	13/8/25 3/9/25	10/8/25 , 5/9/25, 14/9/25	-	8-9/10/25
Mandor	SL	8.2	L	M	H	Deep	Pearl Millet	APT	APT	APT	APT	11-07-2025	27-07-2025	05-08-2025	5/8/25 18/9/25	5/8/25 18/9/25	-	-	12-10-2025
Jaipur	LS	7.6	L	M	M	Deep	-	RHB 234	APT	APT	-	10-07-2025	30-07-2025	APT	03-08-2025	03-08-2025	-	-	28-09-2025
Hisar	SL	8.0	180 kg/ha	19.6 kg/ha	185.41 kg/ha	Deep	Mustard	HHB 299	APT	APT	-	02-07-2025	17-07-2025	23/7/25 05/8/25	22/7/25 06/8/25 20/8/25	22/7/25 06/8/25 20/8/25	-	-	26-09-2025
Jamnagar	CL	7.7	L	M	H	60 cm	Mustard	GHB 1225	APT	APT	-	02-07-2025	17-07-2025	25-07-2025	18/7/25 31/8/25	18/7/25 31/8/25	12-08-2025	-	05-10-2025
Aurangabad	MDB	8.2	L	M	H	60 cm	Fallow	APT	APT	APT	APT	26-06-2025	28-07-2025	29-07-2025	20-08-2025	20-08-2025	-	-	25-09-2025
Dhule	MB	8.2	L	M	H	60-90 cm	Fallow	APT	APT	APT	-	06-07-2025	21-07-2025	08-08-2025	29/7/25 30/7/25	29/7/25 30/7/25	-	-	07-10-2025
Vijayapur	MB	8.2	209 kg/ha	23.9 kg/ha	405.2 kg/ha	30-45 cm	Fallow	HHB 299	60	30	0	09-07-2025	31-07-2025	APT	5/8/25 10/9/25	5/8/25 10/9/25	-	-	16-10-2025
Coimbatore	CL	8.2	L	M	H	1.50 m	Bengal gram	COH 10	APT	40	40	12-12-2025	23-12-2025	-	28/12/25 20/1/26	28/12/25 20/1/26	12/12/25 15/12/25 19/1/26 15/2/26	-	03-03-2026

Table II.2: Experimental details of Agronomy trials– *Kharif* 2025

Trials & Locations	Soil Status						Previous Crop	Variety Used	Nutrient (Kg/ha)			Date of operations carried							
	Type	pH	N	P	K	Depth/ Fe status			N	P	K	Sowing	Thinning	Top dresing	Weeding	Hoeing	Irri.	Pl. Prot.	Harvest
PMAT 6																			
Bikaner	LS	7.8	L	L	M	Deep	Fallow	APT	60	30	-	19-07-2025	02-08-2025	14-08-2025	13-08-25 1/9/25	13-08-25 1/9/25	14/8/25 , 5/9/25, 16/9/25	-	17-18/10/25
Mandor	SL	8.1	L	M	H	Deep	Pearl Millet	APT	APT	APT	APT	10-07-2025	26-07-2025	APT	6/8/25 18/9/25	6/8/25 18/9/25	-	-	12-10-2025

VL = Very Low H = High Input/agronomic operation not applied L = Low M = Medium APR = As per requirement

SL = Sandy loam LS = Lomy sand MB = Medium Black CL = Clay Loam APT = As per treatment MDB = Medium deep Black

Table II.3: PMAT 1A1: Performance of pearl millet advance hybrids and/or populations entries for plant height, days to 50% flowering and yields as affected by nitrogen levels in Zone A1 during *kharif* 2025

Treatment		Grain yield (q/ha)			Stover yield (q/ha)			Days to 50% Flowering			Plant height (cm)		
N(kg/ha)	Entries	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean
0	MH 2743	10.30	15.73	13.02	34.40	22.80	28.60	48.3	44.7	46.5	164.9	135.6	150.3
	MH 2744	11.57	16.77	14.17	51.16	24.40	37.78	52.0	44.3	48.2	174.9	136.7	155.8
	MH 2747	11.34	14.33	12.84	42.13	21.03	31.58	48.7	44.7	46.7	156.0	133.2	144.6
	MH 2758	12.62	15.33	13.98	46.11	22.23	34.17	45.0	45.3	45.2	146.3	134.0	140.2
	HHB 67 Imp (c)	8.80	11.00	9.90	32.18	16.00	24.09	47.3	44.3	45.8	160.0	129.9	144.9
	RHB 223 (c)/MPMH 35	11.13	12.47	11.80	48.66	18.20	33.43	48.0	44.7	46.3	168.3	131.1	149.7
	Mean	**10.96**	**14.27**	**12.62**	**42.44**	**20.78**	**31.61**	**48.2**	**44.7**	**46.4**	**161.7**	**133.4**	**147.6**
20	MH 2743	13.78	17.80	15.79	47.45	25.77	36.61	51.3	44.7	48.0	175.3	143.4	159.4
	MH 2744	17.59	18.30	17.95	52.78	26.57	39.67	50.7	44.3	47.5	182.8	147.5	165.1
	MH 2747	12.38	15.73	14.06	47.22	22.97	35.10	50.7	44.7	47.7	164.2	143.1	153.7
	MH 2758	13.77	16.63	15.20	48.38	24.20	36.29	46.0	44.7	45.3	154.8	146.0	150.4
	HHB 67 Imp (c)	12.39	11.90	12.14	36.34	17.27	26.81	46.0	44.7	45.3	159.4	137.1	148.2
	RHB 223 (c)/MPMH 35	14.00	13.73	13.87	56.71	19.93	38.32	46.0	44.3	45.2	176.0	141.3	158.7
	Mean	**13.99**	**15.68**	**14.83**	**48.15**	**22.78**	**35.47**	**48.4**	**44.6**	**46.5**	**168.7**	**143.1**	**155.9**
40	MH 2743	22.22	18.63	20.43	55.09	27.10	41.10	45.3	45.3	45.3	172.0	151.4	161.7
	MH 2744	22.22	19.53	20.88	60.65	28.93	44.79	48.7	44.3	46.5	182.5	152.6	167.6
	MH 2747	16.21	17.03	16.62	50.00	24.77	37.38	49.3	45.3	47.3	166.3	147.4	156.8
	MH 2758	19.21	17.93	18.57	53.47	26.03	39.75	45.0	44.7	44.8	159.6	150.0	154.8
	HHB 67 Imp (c)	10.99	12.70	11.85	38.31	18.70	28.51	45.7	43.7	44.7	180.3	143.8	162.1
	RHB 223 (c)/MPMH 35	14.00	14.90	14.45	61.11	21.73	41.42	45.3	45.3	45.3	194.1	145.7	169.9
	Mean	**17.48**	**16.79**	**17.13**	**53.11**	**24.54**	**38.83**	**46.6**	**44.8**	**45.7**	**175.8**	**148.5**	**162.1**
60	MH 2743	23.96	19.50	21.73	55.09	29.33	42.21	46.7	44.7	45.7	178.7	159.1	168.9
	MH 2744	22.68	20.87	21.78	60.65	31.77	46.21	49.0	44.3	46.7	189.6	162.3	176.0
	MH 2747	24.54	17.87	21.20	50.00	26.30	38.15	50.3	45.0	47.7	170.0	156.9	163.5
	MH 2758	20.26	18.67	19.46	53.47	27.67	40.57	45.7	45.7	45.7	163.4	157.6	160.5
	HHB 67 Imp (c)	17.01	13.73	15.37	38.31	19.93	29.12	45.7	43.3	44.5	183.2	153.2	168.2
	RHB 223 (c)/MPMH 35	17.13	16.10	16.62	61.11	24.17	42.64	45.3	44.3	44.8	188.4	154.8	171.6
	Mean	**20.93**	**17.79**	**19.36**	**53.11**	**26.53**	**39.82**	**47.1**	**44.6**	**45.8**	**178.9**	**157.3**	**168.1**
Entries Mean	MH 2743	17.56	17.92	17.74	48.01	26.25	37.13	47.9	44.8	46.4	172.7	147.4	160.1
	MH 2744	18.52	18.87	18.69	56.31	27.92	42.11	50.1	44.3	47.2	182.4	149.8	166.1
	MH 2747	16.12	16.24	16.18	47.34	23.77	35.55	49.8	44.9	47.3	164.1	145.2	154.6
	MH 2758	16.47	17.14	16.80	50.36	25.03	37.70	45.4	45.1	45.3	156.0	146.9	151.5
	HHB 67 Imp (c)	12.30	12.33	12.32	36.29	17.98	27.13	46.2	44.0	45.1	170.7	141.0	155.9
	RHB 223 (c)/MPMH 35	14.07	14.30	14.18	56.90	21.01	38.95	46.2	44.7	45.4	181.7	143.2	162.5
CD (5%)	**N**	1.55	0.72		2.12	1.23		NS	NS		0.5	2.3	
	E	1.70	1.09		2.11	1.49		1.2	0.5		5.5	1.6	
	N x E	3.51	NS		4.38	NS		2.6	NS		NS	NS	
	E x N	3.46	NS		4.38	NS		3.4	NS		NS	NS	
CV (%)		13.0	8.1		5.2	7.6		3.0	1.4		3.9		

Table II.4: PMAT 1A1: Performance of pearl millet advance hybrids and/or populations entries for growth and yield attributes as affected by nitrogen levels in Zone A1 during *kharif* 2025

Treatment		Plant population ('000/ha)			Total tillers/plant			Effective Tillers/plant			Test weight (g)		
N(kg/ha)	Entries	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean
0	MH 2743	125.3	102.0	113.6	1.5	2.7	2.1	1.3	2.0	1.7	12.1	8.8	10.5
	MH 2744	129.3	103.6	116.5	1.4	2.8	2.1	1.2	2.4	1.8	10.8	8.5	9.7
	MH 2747	126.8	100.8	113.8	2.0	2.3	2.1	1.7	1.7	1.7	12.0	7.8	9.9
	MH 2758	128.5	101.6	115.1	1.8	2.5	2.1	1.5	1.8	1.6	10.7	8.0	9.4
	HHB 67 Imp (c)	127.0	102.2	114.6	1.8	1.9	1.8	1.4	1.3	1.3	11.8	8.0	9.9
	RHB 223 (c)/MPMH 35	125.3	101.2	113.3	1.5	2.1	1.8	1.3	1.5	1.4	12.3	7.9	10.1
	Mean	**127.0**	**101.9**	**114.5**	**1.6**	**2.4**	**2.0**	**1.4**	**1.8**	**1.6**	**11.6**	**8.2**	**9.9**
20	MH 2743	125.1	102.1	113.6	2.6	3.0	2.8	2.1	2.5	2.3	12.8	8.8	10.8
	MH 2744	127.8	103.9	115.9	2.5	3.1	2.8	2.1	2.6	2.3	10.8	8.5	9.7
	MH 2747	130.5	101.0	115.7	3.1	2.7	2.9	2.6	2.3	2.5	10.8	7.9	9.4
	MH 2758	126.9	102.2	114.6	2.9	2.9	2.9	2.3	2.4	2.4	11.0	8.1	9.6
	HHB 67 Imp (c)	128.6	102.2	115.4	3.0	2.3	2.6	2.5	1.8	2.1	11.5	8.0	9.8
	RHB 223 (c)/MPMH 35	126.7	101.7	114.2	2.6	2.4	2.5	2.3	2.0	2.1	12.6	7.9	10.3
	Mean	**127.6**	**102.2**	**114.9**	**2.8**	**2.7**	**2.8**	**2.3**	**2.3**	**2.3**	**11.6**	**8.2**	**9.9**
40	MH 2743	126.3	102.5	114.4	2.9	3.7	3.3	2.5	3.1	2.8	12.6	8.8	10.7
	MH 2744	130.3	103.8	117.0	2.8	3.8	3.3	2.3	3.3	2.8	12.6	8.6	10.6
	MH 2747	128.1	101.9	115.0	3.6	3.3	3.5	3.1	2.8	3.0	11.8	8.0	9.9
	MH 2758	129.6	102.3	116.0	3.2	3.5	3.4	2.6	2.9	2.8	10.8	8.1	9.5
	HHB 67 Imp (c)	128.0	102.4	115.2	3.4	3.1	3.2	2.7	2.5	2.6	11.7	8.1	9.9
	RHB 223 (c)/MPMH 35	126.3	101.8	114.1	2.6	3.3	2.9	2.2	2.7	2.5	12.9	8.0	10.5
	Mean	**128.1**	**102.4**	**115.3**	**3.1**	**3.4**	**3.3**	**2.6**	**2.9**	**2.7**	**12.1**	**8.3**	**10.2**
60	MH 2743	126.2	102.5	114.4	3.3	4.1	3.7	2.7	3.4	3.1	12.3	8.8	10.6
	MH 2744	129.0	104.7	116.9	3.4	4.4	3.9	2.6	3.7	3.2	11.9	8.6	10.3
	MH 2747	131.7	102.0	116.8	3.8	3.9	3.9	3.3	3.1	3.2	11.0	8.0	9.5
	MH 2758	127.9	102.8	115.4	3.9	3.9	3.9	2.9	3.1	3.0	11.0	8.0	9.5
	HHB 67 Imp (c)	129.6	102.5	116.1	3.9	3.6	3.7	2.8	2.8	2.8	11.8	8.0	9.9
	RHB 223 (c)/MPMH 35	127.9	101.9	114.9	3.3	3.7	3.5	2.6	2.9	2.8	12.0	8.0	10.0
	Mean	**128.7**	**102.7**	**115.7**	**3.6**	**3.9**	**3.8**	**2.8**	**3.2**	**3.0**	**11.7**	**8.2**	**10.0**
Entries Mean	MH 2743	125.7	102.3	114.0	2.6	3.4	3.0	2.2	2.7	2.4	12.5	8.8	10.7
	MH 2744	129.1	104.0	116.6	2.5	3.5	3.0	2.0	3.0	2.5	11.6	8.6	10.1
	MH 2747	129.3	101.4	115.3	3.1	3.1	3.1	2.7	2.5	2.6	11.4	8.0	9.7
	MH 2758	128.3	102.2	115.2	3.0	3.2	3.1	2.3	2.6	2.4	10.9	8.1	9.5
	HHB 67 Imp (c)	128.3	102.3	115.3	3.0	2.7	2.9	2.3	2.1	2.2	11.7	8.0	9.9
	RHB 223 (c)/MPMH 35	126.6	101.7	114.1	2.5	2.9	2.7	2.1	2.3	2.2	12.5	8.0	10.2
CD (5%)	**N**	NS	NS		0.1	0.1		0.1	0.1		NS	NS	
	E	NS	0.9		0.3	0.1		0.3	0.2		0.6	0.1	
	N x E	NS	NS		NS	NS		NS	NS		NS	NS	
	E x N	NS	NS		NS	NS		NS	NS		NS	NS	
CV (%)		4.7	1.1		10.9	5.6		13.8	7.6		5.7	1.2	

Table II.5: PMAT 1a: Performance of pearl millet advance medium and late maturing hybrids or populations entries for grain yield, stover yield, days to 50% flowering and plant height as affected by nitrogen levels in Zone A during *kharif* 2025

Treatment		Grain yield (q/ha)					Stover yield (q/ha)					Days to 50% flowering					Plant height (cm)				
N(kg/ha)	Entries	HSR	JMR	JPR	NDL	Mean	HSR	JMR	JPR	NDL	Mean	JMR	HSR	JPR	NDL	Mean	HSR	JMR	JPR	NDL	Mean
0	MH 2796	28.99	29.09	21.67	22.69	**25.61**	90.10	46.48	50.16	45.43	**58.04**	55.7	52.0	49.7	50.7	**52.0**	229.3	232.7	196.0	168.3	**206.6**
	MH 2797	26.83	25.38	19.20	21.51	**23.23**	89.22	44.11	44.44	47.45	**56.31**	46.3	52.0	50.7	50.7	**49.9**	224.3	219.4	200.3	188.3	**208.1**
	MH 2798	30.83	32.28	20.30	24.18	**26.90**	93.54	53.75	47.06	48.75	**60.78**	45.0	53.0	52.7	51.3	**50.5**	235.7	245.0	221.0	203.3	**226.3**
	MH 2806	27.88	27.54	16.92	22.84	**23.79**	84.24	45.11	39.72	48.21	**54.32**	45.3	51.0	52.7	53.0	**50.5**	231.3	237.7	205.0	205.3	**219.8**
	MH 2808	28.41	28.13	19.02	22.60	**24.54**	92.74	49.30	47.34	48.35	**59.43**	54.3	56.0	50.0	49.7	**52.5**	234.3	257.3	224.7	197.3	**228.4**
	86M86 (C)	22.35	24.43	18.77	20.71	**21.56**	72.32	39.41	45.34	47.70	**51.19**	45.7	52.0	54.7	53.7	**51.5**	219.7	229.4	183.7	193.7	**206.6**
	MP 7878 (C)	23.80	26.73	18.42	18.61	**21.89**	86.77	52.64	42.70	43.79	**56.48**	56.0	52.5	51.0	49.0	**52.1**	236.3	261.7	213.3	205.7	**229.3**
	Mean	**27.01**	**27.65**	**19.18**	**21.88**	**23.93**	**86.99**	**47.26**	**45.25**	**47.10**	**56.65**	**49.8**	**52.6**	**51.6**	**51.1**	**51.3**	**230.1**	**240.5**	**206.3**	**194.6**	**217.9**
30	MH 2796	36.71	34.90	24.53	23.37	**29.88**	108.27	50.91	56.95	58.63	**68.69**	56.3	53.0	51.7	51.7	**53.2**	239.0	242.1	198.3	177.3	**214.2**
	MH 2797	32.93	29.46	26.48	22.06	**27.73**	106.00	52.00	61.61	63.41	**70.76**	47.3	54.0	51.0	51.7	**51.0**	234.0	228.7	205.3	200.0	**217.0**
	MH 2798	38.05	36.95	26.64	24.81	**31.61**	115.10	56.89	61.57	66.84	**75.10**	46.0	54.0	52.7	52.0	**51.2**	245.0	254.1	226.0	216.0	**235.3**
	MH 2806	34.59	34.67	24.45	23.61	**29.33**	102.67	54.38	56.75	65.34	**69.78**	46.3	52.0	53.7	52.7	**51.2**	239.7	246.9	206.0	221.7	**228.6**
	MH 2808	36.54	34.07	22.50	23.39	**29.13**	110.62	54.12	52.30	65.91	**70.73**	55.3	57.0	52.0	51.0	**53.8**	244.3	266.9	226.0	210.7	**237.0**
	86M86 (C)	30.07	27.36	21.78	21.45	**25.17**	87.72	41.19	54.12	58.79	**60.45**	47.0	53.0	55.3	53.3	**52.2**	233.7	237.0	198.3	212.0	**220.3**
	MP 7878 (C)	31.31	32.96	25.13	20.30	**27.42**	103.24	55.28	58.23	57.48	**68.56**	57.0	53.0	52.3	48.7	**52.8**	246.7	270.5	220.0	213.0	**237.5**
	Mean	**34.32**	**32.91**	**24.50**	**22.71**	**28.61**	**104.80**	**52.11**	**57.36**	**62.34**	**69.15**	**50.8**	**53.7**	**52.7**	**51.6**	**52.2**	**240.3**	**249.4**	**211.4**	**207.2**	**227.1**
60	MH 2796	41.90	39.93	28.07	29.31	**34.80**	118.59	59.00	65.18	63.11	**76.47**	57.0	54.0	53.7	51.3	**54.0**	241.3	247.4	199.0	192.7	**220.1**
	MH 2797	39.05	34.22	28.98	28.28	**32.63**	117.05	59.21	67.24	68.21	**77.93**	47.7	55.0	51.7	50.7	**51.3**	241.7	232.5	204.7	223.0	**225.5**
	MH 2798	43.52	41.89	27.95	31.31	**36.17**	123.68	61.22	64.85	73.92	**80.92**	46.7	55.0	52.7	52.3	**51.7**	249.0	256.2	225.7	233.7	**241.1**
	MH 2806	39.98	37.57	26.85	31.06	**33.87**	113.36	54.08	62.00	70.03	**74.87**	47.0	52.5	53.7	52.3	**51.4**	243.3	251.2	209.0	235.7	**234.8**
	MH 2808	41.03	39.49	27.60	30.32	**34.61**	120.70	58.04	63.88	72.30	**78.73**	55.7	57.0	51.3	51.0	**53.8**	250.7	271.2	228.7	233.3	**246.0**
	86M86 (C)	36.04	31.91	22.03	25.47	**28.86**	95.82	46.83	50.94	63.26	**64.21**	47.7	53.0	57.3	53.7	**52.9**	242.3	241.5	207.0	228.0	**229.7**
	MP 7878 (C)	37.46	36.87	20.57	22.97	**29.47**	114.46	58.72	48.76	60.92	**70.72**	57.3	54.0	53.0	49.7	**53.5**	255.7	272.8	215.7	224.0	**242.0**
	Mean	**39.86**	**37.41**	**26.01**	**28.39**	**32.92**	**114.81**	**56.73**	**60.41**	**67.39**	**74.83**	**51.3**	**54.4**	**53.3**	**51.6**	**52.6**	**246.3**	**253.3**	**212.8**	**224.3**	**234.2**
90	MH 2796	46.60	45.52	31.78	31.20	**38.78**	125.45	62.45	73.52	65.37	**81.70**	57.3	55.5	57.0	51.3	**55.3**	243.0	251.5	211.3	194.7	**225.1**
	MH 2797	42.63	36.91	32.57	30.65	**35.69**	124.88	62.17	75.44	70.18	**83.17**	48.3	55.5	52.3	51.3	**51.9**	244.0	238.1	210.3	224.3	**229.2**
	MH 2798	48.17	45.07	33.20	33.71	**40.04**	128.31	68.24	76.67	76.03	**87.31**	47.7	55.3	53.7	53.3	**52.5**	254.0	261.8	231.7	238.7	**246.5**
	MH 2806	43.91	42.13	30.43	32.59	**37.27**	119.56	58.16	70.34	74.21	**80.57**	48.3	53.0	54.7	52.0	**52.0**	244.3	258.0	228.7	238.3	**242.3**
	MH 2808	45.02	42.28	31.67	31.56	**37.63**	127.33	64.82	73.25	74.26	**84.92**	56.7	57.0	52.7	51.3	**54.4**	253.0	276.3	235.7	235.3	**250.1**
	86M86 (C)	38.32	34.64	25.62	26.84	**31.35**	106.58	57.52	59.26	66.35	**72.43**	48.0	54.0	56.0	53.3	**52.8**	243.0	246.3	208.0	229.7	**231.7**
	MP 7878 (C)	40.11	39.57	24.15	23.70	**31.88**	121.06	61.90	55.86	62.12	**75.23**	57.7	54.0	54.7	49.7	**54.0**	262.3	278.9	222.7	223.0	**246.7**
	Mean	**43.54**	**40.87**	**29.92**	**30.04**	**36.09**	**121.88**	**62.18**	**69.19**	**69.79**	**80.76**	**52.0**	**54.9**	**54.4**	**51.8**	**53.3**	**249.1**	**258.7**	**221.2**	**226.3**	**238.8**
Entries Mean	MH 2796	38.55	37.36	26.51	26.64	**32.27**	110.60	54.71	61.45	58.14	**71.22**	56.6	53.6	53.0	51.3	**53.6**	238.2	243.4	201.2	183.3	**216.5**
	MH 2797	35.36	31.49	26.81	25.63	**29.82**	109.29	54.37	62.18	62.31	**72.04**	47.4	54.1	51.4	51.1	**51.0**	236.0	229.7	205.2	208.9	**219.9**
	MH 2798	40.15	39.05	27.02	28.50	**33.68**	115.16	60.03	62.54	66.39	**76.03**	46.3	54.3	52.9	52.3	**51.5**	245.9	254.3	226.1	222.9	**237.3**
	MH 2806	36.59	35.48	24.66	27.53	**31.07**	104.96	52.93	57.20	64.44	**69.88**	46.8	52.1	53.7	52.5	**51.3**	239.7	248.5	212.2	225.3	**231.4**
	MH 2808	37.75	35.99	25.20	26.97	**31.48**	112.85	56.57	59.19	65.21	**73.45**	55.5	56.8	51.5	50.8	**53.6**	245.6	267.9	228.8	219.2	**240.4**
	86M86 (C)	31.70	29.58	22.05	23.62	**26.74**	90.61	46.24	52.41	59.02	**62.07**	47.1	53.0	55.8	53.5	**52.4**	234.7	238.5	199.3	215.8	**222.1**
	MP 7878 (C)	33.17	34.03	22.07	21.40	**27.67**	106.38	57.14	51.39	56.08	**67.75**	57.0	53.4	52.8	49.3	**53.1**	250.3	271.0	217.9	216.4	**238.9**
CD (5%)	**N**	2.85	4.75	3.69	0.93		5.06	5.07	8.27	3.16		1.2	-	1.1	NS		3.5	7.8	8.4	4.3	
	E	2.45	3.40	1.93	0.78		6.24	3.77	4.32	4.16		1.0	-	1.3	1.3		6.3	5.1	8.1	8.8	
	N x E	NS	NS	4.23	1.64		NS	NS	9.48	NS		NS	-	NS	NS		NS	NS	NS	NS	
	E x N	NS	NS	5.11	1.71		NS	NS	11.44	NS		NS	-	NS	NS		NS	NS	NS	NS	
CV (%)		8.2	11.9	9.4	3.7		7.1	8.4	9.0	8.2		2.5	-	2.9	3.0		3.2	2.5	4.6	5.0	

Table II.6: PMAT 1a: Effect of N levels on total & effective tillers/plant, test weight and plant populatiion of pearl millet advance medium and late maturing hybrids or populations entries in Zone A during *kharif* 2025

Treatment		Total tillers/plant					Effective Tillers/plant					Test weight (g)					Plant population ('000/ha)				
N(kg/ha)	Entries	HSR	JMR	JPR	NDL	Mean	HSR	JMR	JPR	NDL	Mean	HSR	JMR	JPR	NDL	Mean	HSR	JMR	JPR	NDL	Mean
0	MH 2796	2.7	2.7	4.5	3.9	**3.5**	2.1	2.2	1.3	1.5	**1.8**	11.2	11.9	11.0	7.8	**10.5**	166.3	160.1	163.3	168.3	**164.5**
	MH 2797	2.5	2.4	4.6	4.1	**3.4**	1.9	1.9	1.8	1.9	**1.9**	11.4	10.9	11.4	8.0	**10.4**	167.7	161.2	163.7	166.7	**164.8**
	MH 2798	2.8	3.1	4.2	4.1	**3.6**	2.2	2.7	1.7	1.9	**2.1**	12.2	12.2	11.1	7.5	**10.7**	166.3	162.6	162.3	166.3	**164.4**
	MH 2806	2.6	2.9	3.6	4.0	**3.3**	2.1	2.5	1.0	1.9	**1.8**	12.0	11.3	11.0	8.2	**10.6**	165.8	160.5	166.3	169.0	**165.4**
	MH 2808	2.6	2.7	4.1	3.9	**3.4**	2.1	2.3	1.6	1.8	**1.9**	11.5	11.6	11.5	8.0	**10.7**	162.8	161.5	166.3	166.3	**164.3**
	86M86 (C)	2.3	2.3	4.2	4.3	**3.3**	1.8	1.8	1.7	2.0	**1.8**	11.1	9.9	10.5	7.5	**9.7**	167.6	161.9	166.0	167.0	**165.6**
	MP 7878 (C)	2.4	2.5	4.0	3.7	**3.2**	1.9	2.1	1.8	1.6	**1.9**	11.4	11.1	10.4	6.8	**9.9**	169.4	160.1	169.3	169.3	**167.1**
	Mean	**2.6**	**2.7**	**4.2**	**4.0**	**3.3**	**2.0**	**2.2**	**1.5**	**1.8**	**1.9**	**11.5**	**11.3**	**11.0**	**7.7**	**10.4**	**166.6**	**161.1**	**165.3**	**167.6**	**165.1**
30	MH 2796	2.9	3.0	4.5	4.1	**3.6**	2.3	2.5	2.0	1.8	**2.1**	11.7	12.2	11.1	8.2	**10.8**	163.1	160.5	164.3	169.0	**164.2**
	MH 2797	2.7	2.9	4.4	4.2	**3.6**	2.2	2.3	2.1	2.1	**2.2**	11.9	11.3	11.4	8.6	**10.8**	165.3	162.6	166.7	166.3	**165.2**
	MH 2798	3.1	3.5	3.6	4.2	**3.6**	2.4	3.0	1.7	1.9	**2.2**	12.8	12.5	11.1	8.3	**11.2**	168.3	161.9	169.0	166.7	**166.5**
	MH 2806	2.7	3.4	3.5	4.1	**3.4**	2.3	2.8	1.9	2.3	**2.3**	12.6	11.7	11.1	8.2	**10.9**	165.1	162.6	174.7	168.7	**167.7**
	MH 2808	3.0	3.3	4.1	4.1	**3.6**	2.4	2.6	2.1	2.0	**2.3**	12.0	11.9	11.0	8.6	**10.9**	169.8	160.5	168.7	167.0	**166.5**
	86M86 (C)	2.5	2.7	3.8	4.3	**3.3**	1.9	2.2	1.8	2.1	**2.0**	11.4	10.1	11.6	8.1	**10.3**	166.5	160.1	165.7	166.3	**164.7**
	MP 7878 (C)	2.6	2.9	4.2	3.9	**3.4**	2.1	2.3	2.2	2.0	**2.2**	11.7	11.5	10.8	7.7	**10.4**	166.6	161.5	166.0	169.7	**165.9**
	Mean	**2.8**	**3.1**	**4.0**	**4.1**	**3.5**	**2.2**	**2.5**	**2.0**	**2.0**	**2.2**	**12.0**	**11.6**	**11.2**	**8.2**	**10.8**	**166.4**	**161.4**	**167.9**	**167.7**	**165.8**
60	MH 2796	3.1	3.4	4.6	4.5	**3.9**	2.5	2.9	2.2	2.2	**2.4**	12.0	12.4	11.1	8.7	**11.0**	163.1	162.2	166.3	168.3	**165.0**
	MH 2797	2.8	2.9	4.6	4.6	**3.7**	2.3	2.5	2.4	2.5	**2.4**	12.3	11.7	11.1	9.2	**11.0**	168.9	160.5	169.0	169.3	**166.9**
	MH 2798	3.2	3.7	4.9	5.1	**4.2**	2.6	3.3	2.2	2.6	**2.7**	13.0	12.9	11.9	10.1	**12.0**	168.3	160.8	166.0	170.7	**166.5**
	MH 2806	2.9	3.5	4.0	4.9	**3.8**	2.3	3.0	2.1	2.5	**2.5**	12.7	12.1	11.0	9.9	**11.4**	168.5	161.9	166.3	170.3	**166.8**
	MH 2808	3.0	3.5	4.3	4.7	**3.9**	2.4	2.9	1.7	2.3	**2.3**	12.4	12.2	11.2	9.0	**11.2**	167.7	160.8	167.0	168.7	**166.0**
	86M86 (C)	2.7	2.8	3.5	4.7	**3.4**	2.1	2.4	1.9	2.4	**2.2**	11.7	10.5	11.2	8.5	**10.5**	169.8	161.5	164.0	168.3	**165.9**
	MP 7878 (C)	2.8	3.1	3.8	4.3	**3.5**	2.2	2.5	2.1	2.1	**2.2**	12.1	11.9	11.8	7.8	**10.9**	169.7	162.6	166.7	170.3	**167.3**
	Mean	**2.9**	**3.3**	**4.2**	**4.7**	**3.8**	**2.4**	**2.8**	**2.1**	**2.4**	**2.4**	**12.3**	**11.9**	**11.3**	**9.0**	**11.1**	**168.0**	**161.5**	**166.5**	**169.4**	**166.3**
90	MH 2796	3.2	3.6	4.5	4.6	**4.0**	2.5	3.1	2.4	2.5	**2.6**	12.2	12.8	11.4	8.8	**11.3**	167.0	161.9	163.0	169.0	**165.2**
	MH 2797	3.0	3.4	4.2	4.9	**3.9**	2.4	2.8	2.6	2.7	**2.6**	12.5	12.1	11.5	9.4	**11.4**	164.1	163.6	169.3	165.7	**165.7**
	MH 2798	3.3	4.3	4.5	5.2	**4.3**	2.7	3.7	2.4	2.8	**2.9**	13.2	13.2	11.3	10.3	**12.0**	166.7	159.4	174.7	169.3	**167.5**
	MH 2806	3.0	4.0	4.1	5.1	**4.0**	2.4	3.6	2.2	2.5	**2.7**	13.0	12.3	12.4	10.2	**12.0**	169.1	163.6	165.7	171.3	**167.4**
	MH 2808	3.2	3.6	4.2	5.0	**4.0**	2.5	3.2	1.9	2.8	**2.6**	12.6	12.7	11.5	9.4	**11.5**	168.8	159.8	166.3	166.7	**165.4**
	86M86 (C)	2.8	3.3	4.4	4.9	**3.9**	2.3	2.7	2.2	2.6	**2.4**	11.9	11.0	11.7	8.8	**10.8**	167.8	163.2	166.3	169.0	**166.6**
	MP 7878 (C)	2.9	3.4	4.8	4.4	**3.9**	2.4	2.9	2.4	2.0	**2.4**	12.3	12.1	11.4	7.9	**10.9**	166.5	160.5	168.7	169.7	**166.3**
	Mean	**3.1**	**3.7**	**4.4**	**4.9**	**4.0**	**2.4**	**3.1**	**2.3**	**2.6**	**2.6**	**12.5**	**12.3**	**11.6**	**9.2**	**11.4**	167.1	**161.7**	**167.7**	**168.7**	**166.3**
Entries Mean	MH 2796	3.0	3.2	4.5	4.3	**3.7**	2.4	2.7	2.0	2.0	**2.3**	11.8	12.3	11.1	8.4	**10.9**	164.9	161.2	164.3	168.7	**164.7**
	MH 2797	2.8	2.9	4.4	4.5	**3.6**	2.2	2.4	2.2	2.3	**2.3**	12.0	11.5	11.3	8.8	**10.9**	166.5	161.9	167.2	167.0	**165.7**
	MH 2798	3.1	3.7	4.3	4.6	**3.9**	2.5	3.2	2.0	2.3	**2.5**	12.8	12.7	11.3	9.1	**11.5**	167.4	161.2	168.0	168.3	**166.2**
	MH 2806	2.8	3.5	3.8	4.5	**3.6**	2.3	3.0	1.8	2.3	**2.3**	12.6	11.9	11.4	9.1	**11.2**	167.1	162.1	168.3	169.8	**166.8**
	MH 2808	3.0	3.3	4.2	4.4	**3.7**	2.3	2.8	1.8	2.2	**2.3**	12.1	12.1	11.3	8.7	**11.1**	167.3	160.6	167.1	167.2	**165.5**
	86M86 (C)	2.6	2.8	4.0	4.5	**3.5**	2.0	2.3	1.9	2.3	**2.1**	11.5	10.4	11.2	8.2	**10.3**	167.9	161.7	165.5	167.7	**165.7**
	MP 7878 (C)	2.7	3.0	4.2	4.0	**3.5**	2.2	2.5	2.1	1.9	**2.2**	11.9	11.7	11.1	7.5	**10.5**	168.1	161.2	167.7	169.8	**166.7**
CD (5%)	**N**	0.2	0.2	0.2	0.3		0.2	0.2	0.2	0.3		0.5	0.5	NS	0.2		NS	NS	NS	NS	
	E	0.2	0.2	0.5	NS		0.2	0.2	NS	NS		0.4	0.5	NS	0.7		NS	NS	NS	NS	
	N x E	NS	NS	NS	NS		NS	NS	NS	NS		NS	NS	0.8	NS		NS	NS	NS	NS	
	E x N	NS	NS	NS	NS		NS	NS	NS	NS		NS	NS	0.8	NS		NS	NS	NS	NS	
CV (%)		8.6	8.0	13.3	11.5		8.6	9.8	19.4	17.5		4.3	4.9	3.9	9.3		3.8	1.8	3.9	2.6	

Table II.7: PMAT 1b: Effect of N levels on grain yield of pearl millet medium and late advance hybrids/population entries in Zone B during *kharif* 2025

Treatments		Grain yield (q/ha)				Zonal mean
N(kg/ha)	Entries	ABD1	DHL	VYP	CBE	
0	MH 2667	15.43	19.95	10.23	30.28	18.97
	MH 2773	14.82	16.11	10.94	37.19	19.77
	MH 2775	20.57	16.59	8.36	30.67	19.05
	MH 2777	13.00	18.46	8.62	24.56	16.16
	MH 2784	21.17	17.11	9.51	36.51	21.08
	MH 2705	18.45	15.46	9.06	25.26	17.06
	MH2798	14.22	20.58	10.01	41.33	21.53
	86M86 (C)	21.78	14.88	9.79	33.68	20.03
	86 M 01(C)	18.15	17.82	8.51	25.61	17.52
	Kaveri Super Boss (C)	22.08	16.84	9.92	32.54	20.35
	AHB 1269/ 1200 (C)	18.76	15.53	7.80	26.47	17.14
	Mean	**18.04**	**17.21**	**9.34**	**31.28**	**18.97**
30	MH 2667	18.54	25.13	16.34	44.91	26.23
	MH 2773	17.94	19.42	17.15	42.13	24.16
	MH 2775	22.38	20.80	11.02	37.84	23.01
	MH 2777	15.43	23.89	12.14	25.70	19.29
	MH 2784	23.83	22.35	15.35	41.67	25.80
	MH 2705	20.87	18.66	11.41	31.14	20.52
	MH2798	16.45	26.87	14.62	45.85	25.95
	86M86 (C)	24.50	18.56	11.10	38.88	23.26
	86 M 01(C)	21.17	19.31	12.31	26.50	19.82
	Kaveri Super Boss (C)	23.71	22.33	14.45	36.48	24.24
	AHB 1269/ 1200 (C)	22.90	19.12	11.39	31.18	21.15
	Mean	**20.70**	**21.50**	**13.39**	**36.57**	**23.04**
60	MH 2667	22.83	26.93	25.18	45.94	30.22
	MH 2773	21.48	22.11	24.83	45.53	28.49
	MH 2775	25.83	23.42	21.26	42.20	28.18
	MH 2777	18.61	25.05	19.54	28.93	23.03
	MH 2784	25.71	24.41	23.88	46.59	30.15
	MH 2705	22.68	21.63	21.13	33.51	24.74
	MH2798	19.96	28.57	24.36	48.45	30.34
	86M86 (C)	27.52	21.41	22.69	40.28	27.97
	86 M 01(C)	23.29	21.63	21.83	31.45	24.55
	Kaveri Super Boss (C)	28.56	23.89	23.55	42.55	29.64
	AHB 1269/ 1200 (C)	25.41	21.64	22.45	35.81	26.33
	Mean	**23.81**	**23.70**	**22.79**	**40.11**	**27.60**
90	MH 2667	24.42	29.57	28.30	52.15	33.61
	MH 2773	22.92	23.71	29.04	47.88	30.89
	MH 2775	25.96	25.37	22.07	44.85	29.56
	MH 2777	19.80	28.57	25.43	31.75	26.39
	MH 2784	26.44	27.91	27.93	52.13	33.60
	MH 2705	23.91	22.56	26.70	36.13	27.32
	MH2798	21.18	30.59	27.64	50.84	32.56
	86M86 (C)	28.60	22.25	24.42	42.90	29.54
	86 M 01(C)	24.31	22.71	24.87	39.08	27.74
	Kaveri Super Boss (C)	28.82	24.41	26.53	49.35	32.28
	AHB 1269/ 1200 (C)	25.81	22.52	24.93	38.61	27.97
	Mean	**24.74**	**25.47**	**26.17**	**44.15**	**30.13**
Entries Mean	MH 2667	20.31	25.40	20.01	43.32	27.26
	MH 2773	19.29	20.34	20.49	43.18	25.83
	MH 2775	23.69	21.55	15.68	38.89	24.95
	MH 2777	16.71	23.99	16.43	27.74	21.22
	MH 2784	24.29	22.95	19.17	44.23	27.66
	MH 2705	21.48	19.58	17.08	31.51	22.41
	MH2798	17.95	26.65	19.16	46.62	27.60
	86M86 (C)	25.60	19.27	17.00	38.94	25.20
	86 M 01(C)	21.73	20.37	16.88	30.66	22.41
	Kaveri Super Boss (C)	25.80	21.87	18.61	40.23	26.63
	AHB 1269/ 1200 (C)	23.22	19.70	16.64	33.02	23.15
CD (5%)	**N**	1.81	1.00	0.57	2.35	
	E	2.21	1.16	1.06	3.12	
	N x E	NS	NS	2.15	NS	
	E x N	NS	NS	2.10	NS	
CV (%)		12.5	6.5	7.3	10.1	

Table II.8: PMAT 1b: Effect of N levels on dry fodder yield of pearl millet medium and late advance hybrids/ population entries in Zone B during *kharif* 2025

Treatments		Dry fodder yield (q/ha)				Zonal mean
N(kg/ha)	Entries	ABD1	DHL	VYP	CBE	
0	MH 2667	41.41	38.11	36.97	44.93	40.35
	MH 2773	34.21	30.11	37.65	56.29	39.56
	MH 2775	31.33	31.07	32.64	46.51	35.39
	MH 2777	30.61	35.46	29.35	37.34	33.19
	MH 2784	48.61	32.40	36.26	55.27	43.13
	MH 2705	34.93	29.04	32.30	38.39	33.66
	MH2798	34.39	39.02	34.78	62.50	42.67
	86M86 (C)	31.69	27.78	29.89	51.02	35.10
	86 M 01(C)	48.61	33.47	29.71	38.92	37.68
	Kaveri Super Boss (C)	44.29	31.57	35.79	49.31	40.24
	AHB 1269/ 1200 (C)	49.33	29.01	28.24	40.21	36.70
	Mean	**39.04**	**32.46**	**33.05**	**47.33**	**37.97**
30	MH 2667	43.57	48.00	38.67	67.33	49.39
	MH 2773	37.09	36.29	40.06	62.63	44.02
	MH 2775	34.21	38.96	36.64	56.43	41.56
	MH 2777	32.82	45.89	35.22	38.58	38.13
	MH 2784	52.26	42.32	39.71	62.80	49.27
	MH 2705	38.89	35.04	38.48	46.46	39.72
	MH2798	36.11	50.95	40.43	68.33	48.95
	86M86 (C)	36.37	34.65	34.60	58.02	40.91
	86 M 01(C)	51.13	36.27	35.65	40.45	40.87
	Kaveri Super Boss (C)	48.61	41.87	41.08	54.36	46.48
	AHB 1269/ 1200 (C)	51.18	35.72	35.81	46.99	42.42
	Mean	**42.02**	**40.54**	**37.85**	**54.76**	**43.79**
60	MH 2667	48.25	51.44	52.63	68.59	55.23
	MH 2773	40.33	41.32	54.48	67.46	50.90
	MH 2775	37.81	43.87	44.29	62.70	47.17
	MH 2777	35.29	48.12	47.13	42.86	43.35
	MH 2784	52.93	46.22	53.83	68.97	55.49
	MH 2705	41.41	40.62	50.06	50.23	45.58
	MH2798	36.73	54.17	54.04	72.08	54.25
	86M86 (C)	38.53	39.97	47.58	59.61	46.42
	86 M 01(C)	51.49	40.62	48.79	46.70	46.90
	Kaveri Super Boss (C)	52.93	44.80	52.19	62.90	53.20
	AHB 1269/ 1200 (C)	55.81	40.42	45.94	53.22	48.85
	Mean	**44.68**	**44.69**	**50.09**	**59.57**	**49.76**
90	MH 2667	48.73	56.48	56.07	78.23	59.88
	MH 2773	40.64	44.31	58.59	71.82	53.84
	MH 2775	38.20	47.52	53.83	67.28	51.71
	MH 2777	36.02	54.88	56.01	47.63	48.64
	MH 2784	53.45	52.85	57.07	78.20	60.39
	MH 2705	42.03	42.37	54.26	54.20	48.21
	MH2798	37.93	58.00	56.91	76.26	57.28
	86M86 (C)	39.52	41.54	49.13	64.35	48.64
	86 M 01(C)	51.96	42.65	52.51	58.62	51.43
	Kaveri Super Boss (C)	54.10	45.77	55.19	74.03	57.27
	AHB 1269/ 1200 (C)	56.32	42.07	52.06	57.92	52.09
	Mean	**45.35**	**48.04**	**54.69**	**66.23**	**53.58**
Entries Mean	MH 2667	45.49	48.51	46.09	64.77	51.21
	MH 2773	38.07	38.01	47.70	64.55	47.08
	MH 2775	35.39	40.35	41.85	58.23	43.96
	MH 2777	33.69	46.09	41.93	41.60	40.83
	MH 2784	51.81	43.45	46.72	66.31	52.07
	MH 2705	39.32	36.77	43.77	47.32	41.79
	MH2798	36.29	50.53	46.54	69.79	50.79
	86M86 (C)	36.53	35.99	40.30	58.25	42.77
	86 M 01(C)	50.80	38.25	41.67	46.17	44.22
	Kaveri Super Boss (C)	49.98	41.00	46.06	60.15	49.30
	AHB 1269/ 1200 (C)	53.16	36.80	40.51	49.58	45.02
CD (5%)	**N**	2.31	1.90	1.17	3.91	
	E	3.90	2.20	1.56	4.65	
	N x E	NS	NS	3.19	NS	
	E x N	NS	NS	3.19	NS	
CV (%)		11.2	6.5	4.4	10.0	

Table II.9: PMAT 1b: Effect of N levels on total & effective tillers/plant of pearl millet medium and late advance hybrid entries in Zone B during *kharif* 2025

Treatment		Total tillers/plant					Effective Tillers/plant				
N(kg/ha)	Entries	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean
0	MH 2667	2.7	3.0	2.6	3.5	2.9	1.7	2.1	2.1	2.5	2.1
	MH 2773	3.2	2.8	2.7	3.3	3.0	2.2	1.9	2.3	2.2	2.1
	MH 2775	3.0	2.9	2.5	3.4	3.0	2.0	2.0	2.1	2.3	2.1
	MH 2777	2.8	2.9	2.5	3.3	2.9	1.7	2.0	2.2	2.3	2.1
	MH 2784	2.4	2.9	2.7	3.5	2.9	1.4	2.0	2.3	2.5	2.0
	MH 2705	3.0	2.7	2.4	3.4	2.9	2.0	1.9	2.1	2.2	2.0
	MH2798	2.9	3.0	2.6	3.5	3.0	1.7	2.1	2.2	2.6	2.1
	86M86 (C)	2.6	2.7	2.5	3.3	2.8	1.6	1.9	2.2	2.2	2.0
	86 M 01(C)	2.4	2.8	2.6	3.3	2.8	1.4	2.0	2.1	2.2	1.9
	Kaveri Super Boss (C)	2.5	2.9	2.7	3.5	2.9	1.4	2.0	2.2	2.5	2.0
	AHB 1269/ 1200 (C)	2.6	2.8	2.5	3.4	2.8	1.6	1.9	2.1	2.3	2.0
	Mean	**2.7**	**2.9**	**2.6**	**3.4**	**2.9**	**1.7**	**2.0**	**2.2**	**2.3**	**2.0**
30	MH 2667	3.2	3.0	2.9	3.9	3.2	2.2	2.3	2.3	3.5	2.6
	MH 2773	3.2	2.9	2.8	3.4	3.1	2.1	2.2	2.4	3.0	2.4
	MH 2775	2.9	2.9	2.7	3.8	3.1	1.9	2.2	2.3	3.0	2.3
	MH 2777	3.4	3.0	2.8	3.8	3.2	2.4	2.3	2.2	2.7	2.4
	MH 2784	3.0	3.0	2.9	4.1	3.3	2.1	2.2	2.4	3.5	2.5
	MH 2705	3.3	2.9	2.7	3.8	3.2	2.2	2.1	2.2	2.9	2.3
	MH2798	3.0	3.1	3.0	4.3	3.4	2.0	2.3	2.6	3.5	2.6
	86M86 (C)	3.0	2.8	2.7	3.9	3.1	2.2	2.1	2.2	3.0	2.4
	86 M 01(C)	3.2	2.9	2.6	4.0	3.2	1.9	2.2	2.4	3.0	2.4
	Kaveri Super Boss (C)	3.2	3.0	2.9	4.3	3.3	2.2	2.2	2.6	3.5	2.6
	AHB 1269/ 1200 (C)	3.0	2.9	2.9	4.1	3.2	1.9	2.2	2.5	3.0	2.4
	Mean	**3.1**	**2.9**	**2.8**	**4.0**	**3.2**	**2.1**	**2.2**	**2.4**	**3.1**	**2.5**
60	MH 2667	3.3	3.2	3.1	4.7	3.6	2.1	2.4	2.8	3.5	2.7
	MH 2773	3.3	3.1	3.3	4.5	3.5	2.3	2.2	2.9	3.2	2.7
	MH 2775	3.6	3.1	3.1	4.4	3.6	2.4	2.3	2.8	3.2	2.7
	MH 2777	3.6	3.2	3.2	4.3	3.6	2.7	2.4	2.7	3.0	2.7
	MH 2784	3.1	3.1	3.5	4.9	3.7	2.1	2.4	2.8	3.8	2.7
	MH 2705	3.3	3.0	3.6	4.5	3.6	2.3	2.2	2.7	3.2	2.6
	MH2798	3.3	3.3	3.6	4.9	3.8	2.3	2.4	2.9	3.7	2.8
	86M86 (C)	3.5	3.0	3.5	4.2	3.5	2.6	2.2	2.9	3.2	2.7
	86 M 01(C)	3.2	3.1	3.5	4.3	3.5	2.2	2.3	2.9	3.2	2.6
	Kaveri Super Boss (C)	3.3	3.1	3.7	4.9	3.8	2.4	2.3	3.0	3.7	2.8
	AHB 1269/ 1200 (C)	3.7	3.1	3.5	4.5	3.7	2.7	2.2	2.9	3.2	2.8
	Mean	**3.4**	**3.1**	**3.4**	**4.6**	**3.6**	**2.4**	**2.3**	**2.8**	**3.3**	**2.7**
90	MH 2667	4.0	3.5	3.6	5.2	4.1	2.7	2.5	2.9	3.8	3.0
	MH 2773	3.5	3.2	3.7	4.5	3.7	2.5	2.3	3.1	3.3	2.8
	MH 2775	3.2	3.3	3.6	4.7	3.7	2.2	2.4	3.1	3.2	2.7
	MH 2777	3.6	3.4	3.7	4.6	3.8	2.5	2.5	3.8	3.2	3.0
	MH 2784	3.7	3.4	3.8	5.3	4.0	2.7	2.5	3.2	3.9	3.1
	MH 2705	3.7	3.1	3.7	4.6	3.8	2.5	2.3	3.1	3.3	2.8
	MH2798	4.2	3.6	3.6	5.6	4.2	3.1	2.7	3.2	3.9	3.2
	86M86 (C)	4.1	3.0	3.6	4.2	3.7	2.8	2.3	3.2	3.3	2.9
	86 M 01(C)	4.1	3.3	3.7	4.3	3.9	3.1	2.4	3.2	3.3	3.0
	Kaveri Super Boss (C)	3.9	3.3	3.7	5.1	4.0	2.9	2.4	3.3	3.9	3.1
	AHB 1269/ 1200 (C)	4.4	3.2	3.7	4.6	4.0	3.4	2.3	3.1	3.3	3.0
	Mean	**3.9**	**3.3**	**3.7**	**4.8**	**3.9**	**2.8**	**2.4**	**3.2**	**3.5**	**3.0**
Entries Mean	MH 2667	3.3	3.2	3.1	4.3	3.5	2.2	2.3	2.5	3.3	2.6
	MH 2773	3.3	3.0	3.1	3.9	3.3	2.3	2.2	2.7	2.9	2.5
	MH 2775	3.2	3.0	3.0	4.1	3.3	2.1	2.2	2.6	2.9	2.5
	MH 2777	3.3	3.1	3.1	4.0	3.4	2.3	2.3	2.7	2.8	2.5
	MH 2784	3.1	3.1	3.2	4.4	3.5	2.1	2.3	2.7	3.4	2.6
	MH 2705	3.3	2.9	3.1	4.1	3.4	2.2	2.1	2.5	2.9	2.4
	MH2798	3.4	3.2	3.2	4.6	3.6	2.3	2.4	2.7	3.4	2.7
	86M86 (C)	3.3	2.9	3.1	3.9	3.3	2.3	2.1	2.6	2.9	2.5
	86 M 01(C)	3.2	3.0	3.1	4.0	3.3	2.2	2.2	2.7	2.9	2.5
	Kaveri Super Boss (C)	3.2	3.1	3.3	4.5	3.5	2.2	2.2	2.8	3.4	2.7
	AHB 1269/ 1200 (C)	3.4	3.0	3.2	4.1	3.4	2.4	2.1	2.7	3.0	2.5
CD (5%)	**N**	0.2	0.1	0.1	0.1		0.2	0.0	0.1	0.2	
	E	NS	0.1	0.1	0.2		NS	0.1	0.1	0.1	
	N x E	NS	NS	0.2	0.3		0.6	NS	0.2	NS	
	E x N	NS	NS	0.2	0.3		0.6	NS	0.2	NS	
CV (%)		11.4	3.9	3.8	4.6		15.0	4.3	4.9	5.9	

Table II.10: PMAT 1b: Effect of N levels on plant populatiion and plant height of pearl millet medium and late advance hybrids and population entries in Zone B during *kharif* 2025

Treatment		Plant population ('000/ha)					Plant height (cm)				
N(kg/ha)	Entries	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean
0	MH 2667	216.8	134.6	136.8	125.0	153.3	173.8	251.0	161.0	153.7	184.9
	MH 2773	215.8	134.9	138.2	126.3	153.8	148.6	238.0	160.3	164.3	177.8
	MH 2775	211.9	134.4	136.5	126.0	152.2	150.9	212.0	154.1	150.4	166.9
	MH 2777	210.4	134.6	138.2	127.3	152.6	152.8	204.0	159.0	144.6	165.1
	MH 2784	199.3	133.8	132.6	126.0	147.9	173.3	210.0	156.9	150.9	172.8
	MH 2705	215.8	134.0	139.2	124.7	153.4	148.9	195.0	158.5	140.4	160.7
	MH2798	216.8	132.6	143.8	128.7	155.5	149.4	224.0	164.2	171.2	177.2
	86M86 (C)	213.5	134.7	134.7	128.3	152.8	141.4	221.0	152.4	162.2	169.2
	86 M 01(C)	212.4	134.3	138.5	126.0	152.8	189.3	225.0	155.8	134.6	176.2
	Kaveri Super Boss (C)	211.2	135.0	139.2	128.7	153.5	161.1	207.0	166.3	158.6	173.3
	AHB 1269/ 1200 (C)	212.7	134.8	134.4	124.0	151.5	175.6	210.0	154.1	148.4	172.0
	Mean	**212.4**	134.3	**137.5**	126.5	**152.7**	**160.5**	**217.9**	**158.4**	152.7	**172.4**
30	MH 2667	209.4	133.4	133.3	131.7	151.9	177.7	254.0	166.3	172.6	192.7
	MH 2773	214.0	134.6	134.4	132.0	153.7	152.7	254.0	167.0	170.5	186.0
	MH 2775	215.5	134.0	134.0	131.3	153.7	156.1	225.0	168.9	158.6	177.2
	MH 2777	213.2	134.7	136.5	133.3	154.4	168.7	211.0	162.1	147.2	172.3
	MH 2784	214.8	133.6	140.6	133.3	155.6	179.5	223.0	167.7	158.2	182.1
	MH 2705	211.9	133.7	133.0	134.7	153.3	154.5	199.0	162.1	144.8	165.1
	MH2798	215.0	134.3	139.2	135.7	156.0	155.3	227.0	169.0	173.8	181.3
	86M86 (C)	213.7	134.6	138.9	135.0	155.5	156.6	231.0	158.8	164.8	177.8
	86 M 01(C)	215.5	134.7	133.3	133.3	154.2	190.6	227.0	161.1	143.8	180.6
	Kaveri Super Boss (C)	213.5	134.8	137.8	134.3	155.1	178.7	218.0	171.1	170.6	184.6
	AHB 1269/ 1200 (C)	214.0	134.7	137.5	133.0	154.8	187.5	220.0	164.3	154.4	181.6
	Mean	**213.7**	**134.3**	**136.2**	**133.4**	**154.4**	**168.9**	**226.3**	**165.3**	**159.9**	**180.1**
60	MH 2667	213.7	133.4	133.7	133.0	153.4	180.1	258.0	180.3	181.2	199.9
	MH 2773	213.0	133.8	136.5	135.0	154.5	155.1	264.0	179.5	180.4	194.8
	MH 2775	214.2	133.3	138.2	138.0	155.9	156.0	229.0	178.4	162.7	181.5
	MH 2777	214.5	133.4	135.1	138.0	155.2	157.6	222.0	179.8	156.2	178.9
	MH 2784	216.3	134.0	141.0	135.0	156.6	197.7	229.0	185.3	161.3	193.3
	MH 2705	217.3	133.7	135.4	132.0	154.6	162.0	212.0	181.3	158.3	178.4
	MH2798	215.3	135.2	139.9	135.0	156.4	155.0	229.0	185.3	184.8	188.5
	86M86 (C)	215.5	134.3	134.4	135.0	154.8	145.0	235.3	172.3	174.4	181.8
	86 M 01(C)	212.2	133.7	139.6	135.0	155.1	203.1	228.0	175.1	156.2	190.6
	Kaveri Super Boss (C)	214.2	135.3	133.0	138.0	155.1	170.6	227.0	182.7	172.4	188.2
	AHB 1269/ 1200 (C)	214.0	134.3	136.1	131.0	153.8	187.1	222.0	177.1	160.7	186.7
	Mean	**214.6**	**134.0**	**136.6**	**135.0**	**155.1**	**169.9**	**232.3**	**179.8**	**168.1**	**187.5**
90	MH 2667	214.8	133.9	141.7	141.0	157.8	187.7	282.0	181.1	185.7	209.1
	MH 2773	214.5	133.8	134.4	138.0	155.2	157.9	267.0	186.0	188.6	199.9
	MH 2775	212.4	134.8	131.6	143.0	155.5	156.3	236.0	185.3	166.4	186.0
	MH 2777	216.0	133.9	134.7	142.0	156.7	158.5	238.3	180.9	160.7	184.6
	MH 2784	215.5	133.3	133.0	139.0	155.2	201.7	235.0	185.2	168.4	197.6
	MH 2705	213.2	134.1	138.9	141.0	156.8	169.4	217.0	183.9	168.4	184.7
	MH2798	214.2	133.3	133.7	146.0	156.8	156.2	234.0	186.1	188.8	191.3
	86M86 (C)	213.7	133.2	138.5	140.7	156.5	146.0	237.0	176.9	178.3	184.6
	86 M 01(C)	210.9	133.7	138.5	141.3	156.1	224.8	229.0	178.3	167.4	199.9
	Kaveri Super Boss (C)	211.4	132.7	140.6	142.3	156.8	170.5	229.0	185.1	176.3	190.2
	AHB 1269/ 1200 (C)	211.9	134.1	135.4	145.3	156.7	196.5	226.0	179.6	164.3	191.6
	Mean	**213.5**	**133.7**	**136.5**	**141.8**	**156.4**	**175.1**	**239.1**	**182.6**	**173.9**	**192.7**
Entries Mean	MH 2667	213.7	133.8	136.4	132.7	154.1	179.8	261.3	172.2	173.3	196.6
	MH 2773	214.3	134.3	135.9	132.8	154.3	153.6	255.8	173.2	176.0	189.6
	MH 2775	213.5	134.1	135.1	134.6	154.3	154.9	225.5	171.7	159.5	177.9
	MH 2777	213.5	134.1	136.1	135.2	154.7	159.4	218.8	170.4	152.2	175.2
	MH 2784	211.5	133.7	136.8	133.3	153.8	188.1	224.3	173.8	159.7	186.4
	MH 2705	214.6	133.9	136.6	133.1	154.5	158.7	205.8	171.5	153.0	172.2
	MH2798	215.3	133.9	139.1	136.3	156.2	154.0	228.5	176.2	179.7	184.6
	86M86 (C)	214.1	134.2	136.6	134.8	154.9	147.2	231.1	165.1	169.9	178.3
	86 M 01(C)	212.8	134.1	137.5	133.9	154.6	201.9	227.3	167.6	150.5	186.8
	Kaveri Super Boss (C)	212.6	134.5	137.7	135.8	155.1	170.2	220.3	176.3	169.5	184.1
	AHB 1269/ 1200 (C)	213.2	134.5	135.9	133.3	154.2	186.7	219.5	168.8	157.0	183.0
CD (5%)	**N**	NS	0.4	NS	3.9		1.8	5.4	1.0	5.7	
	E	NS	NS	NS	NS		2.2	5.3	2.1	8.9	
	N x E	NS	NS	5.9	NS		4.6	10.9	4.2	NS	
	E x N	NS	NS	5.8	NS		4.6	11.4	4.0	NS	
CV (%)		2.4	1.0	2.6	5.6		1.6	2.8	1.5	6.7	

Table II.11: PMAT 1b: Effect of N levels on days to 50% flowering and test weight of pearl millet medium and late advance hybrids and population entries in Zone B during *kharif* 2025

Treatment		Days to 50% flowering					Test weight (g)				
N(kg/ha)	Entries	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean
0	MH 2667	57.0	52.3	47.5	50.3	51.8	11.1	11.3	10.6	10.8	11.0
	MH 2773	55.0	48.3	46.5	47.3	49.3	10.5	11.5	11.1	9.9	10.7
	MH 2775	56.3	48.7	47.5	45.3	49.5	8.3	11.4	10.2	9.4	9.8
	MH 2777	52.3	53.3	47.5	42.0	48.8	10.7	11.9	10.9	10.8	11.1
	MH 2784	53.7	49.0	48.0	45.7	49.1	9.9	11.3	11.1	9.6	10.5
	MH 2705	56.0	48.3	46.5	42.7	48.4	9.6	11.3	10.1	10.3	10.3
	MH2798	53.7	50.0	47.0	48.0	49.7	15.6	11.9	10.8	11.1	12.3
	86M86 (C)	64.0	51.0	46.5	47.7	52.3	7.5	11.6	10.8	9.4	9.8
	86 M 01(C)	56.0	49.0	46.5	47.0	49.6	10.1	11.8	11.2	10.3	10.8
	Kaveri Super Boss (C)	55.3	48.0	47.0	45.7	49.0	9.2	11.6	10.6	10.0	10.4
	AHB 1269/ 1200 (C)	48.0	48.7	46.5	42.0	46.3	9.1	11.7	10.2	9.6	10.1
	Mean	**55.2**	49.697	**47.0**	45.8	**49.4**	**10.2**	**11.6**	**10.7**	**10.1**	**10.6**
30	MH 2667	56.0	51.0	48.5	50.3	51.5	12.1	11.5	11.4	11.2	11.5
	MH 2773	54.0	49.7	47.5	49.0	50.0	11.5	11.5	11.8	10.6	11.3
	MH 2775	55.3	49.7	48.5	46.3	50.0	9.2	11.4	11.4	10.2	10.6
	MH 2777	51.3	52.0	48.5	41.7	48.4	11.4	12.0	10.7	11.1	11.3
	MH 2784	52.7	48.3	48.0	45.7	48.7	10.9	11.3	11.1	10.3	10.9
	MH 2705	55.0	49.0	48.0	42.3	48.6	10.5	12.0	10.9	11.8	11.3
	MH2798	52.7	49.7	49.0	47.7	49.8	16.6	12.0	11.5	12.1	13.0
	86M86 (C)	63.0	49.3	47.5	48.0	52.0	8.6	11.5	11.4	10.6	10.5
	86 M 01(C)	55.0	49.3	48.5	46.3	49.8	11.1	11.4	10.3	11.6	11.1
	Kaveri Super Boss (C)	54.3	49.0	47.5	45.7	49.1	10.2	11.6	11.0	10.4	10.8
	AHB 1269/ 1200 (C)	47.0	49.7	47.5	42.0	46.5	10.0	11.6	11.5	10.6	10.9
	Mean	**54.2**	**49.7**	**48.1**	**45.9**	**49.5**	**11.1**	**11.6**	**11.2**	**10.9**	**11.2**
60	MH 2667	54.0	51.7	47.5	50.3	50.9	13.0	11.5	11.7	12.0	12.0
	MH 2773	52.0	50.3	48.0	50.0	50.1	12.4	11.5	11.7	10.9	11.6
	MH 2775	53.3	48.3	48.5	45.7	49.0	10.2	11.4	11.6	10.7	11.0
	MH 2777	49.3	53.7	48.0	41.7	48.2	12.4	11.9	12.1	11.5	12.0
	MH 2784	50.7	52.0	47.5	46.7	49.2	12.0	11.9	11.6	10.6	11.5
	MH 2705	53.0	49.7	48.5	45.0	49.0	11.6	11.9	11.9	12.6	12.0
	MH2798	50.7	50.3	47.0	48.3	49.1	17.2	11.9	12.4	12.5	13.5
	86M86 (C)	61.0	48.7	47.5	48.0	51.3	9.7	11.3	11.5	10.4	10.7
	86 M 01(C)	53.0	50.3	48.5	45.7	49.4	12.2	11.4	11.2	12.4	11.8
	Kaveri Super Boss (C)	52.3	50.7	48.5	45.7	49.3	11.1	11.6	12.0	10.9	11.4
	AHB 1269/ 1200 (C)	45.0	50.7	47.0	42.0	46.2	11.2	11.5	12.2	11.6	11.6
	Mean	**52.2**	**50.6**	**47.9**	**46.3**	**49.2**	**12.1**	**11.6**	**11.8**	**11.5**	**11.7**
90	MH 2667	52.0	51.7	47.5	50.3	50.4	14.1	11.7	12.0	12.7	12.6
	MH 2773	50.0	51.3	48.0	49.7	49.8	13.4	11.6	12.1	11.4	12.1
	MH 2775	51.3	50.7	46.5	46.7	48.8	11.4	11.5	12.1	11.2	11.5
	MH 2777	47.3	53.3	48.0	41.7	47.6	13.5	12.0	12.2	13.3	12.7
	MH 2784	48.7	52.7	47.5	46.3	48.8	12.7	11.9	12.1	10.8	11.9
	MH 2705	51.0	51.3	47.5	45.3	48.8	12.8	11.7	12.0	13.1	12.4
	MH2798	50.0	51.7	46.5	49.3	49.4	17.5	11.6	12.6	13.0	13.7
	86M86 (C)	59.0	49.3	47.5	48.0	51.0	10.6	11.4	12.3	10.8	11.3
	86 M 01(C)	50.7	50.7	48.0	46.7	49.0	13.4	11.5	11.7	13.0	12.4
	Kaveri Super Boss (C)	50.3	51.3	48.5	45.3	48.9	12.2	11.9	11.9	11.2	11.8
	AHB 1269/ 1200 (C)	44.0	50.7	48.5	41.7	46.2	12.3	11.5	12.4	12.1	12.1
	Mean	**50.4**	**51.3**	**47.6**	**46.5**	**49.0**	**13.1**	**11.7**	**12.1**	**12.0**	**12.2**
Entries Mean	MH 2667	54.8	51.7	47.8	50.3	51.1	12.6	11.5	11.4	11.7	11.8
	MH 2773	52.8	49.9	47.5	49.0	49.8	11.9	11.5	11.7	10.7	11.4
	MH 2775	54.1	49.3	47.8	46.0	49.3	9.8	11.4	11.3	10.4	10.7
	MH 2777	50.1	53.1	48.0	41.8	48.2	12.0	12.0	11.5	11.7	11.8
	MH 2784	51.4	50.5	47.8	46.1	48.9	11.4	11.6	11.5	10.3	11.2
	MH 2705	53.8	49.6	47.6	43.8	48.7	11.1	11.7	11.2	11.9	11.5
	MH2798	51.8	50.4	47.4	48.3	49.5	16.7	11.9	11.8	12.2	13.1
	86M86 (C)	61.8	49.6	47.3	47.9	51.6	9.1	11.4	11.5	10.3	10.6
	86 M 01(C)	53.7	49.8	47.9	46.4	49.4	11.7	11.5	11.1	11.8	11.5
	Kaveri Super Boss (C)	53.1	49.8	47.9	45.6	49.1	10.7	11.7	11.4	10.6	11.1
	AHB 1269/ 1200 (C)	46.0	49.9	47.4	41.9	46.3	10.6	11.5	11.6	11.0	11.2
CD (5%)	**N**	0.1	0.5	0.3	NS		0.1	0.1	0.2	0.1	
	E	0.9	0.6	0.5	0.7		0.3	0.1	0.4	0.1	
	N x E	NS	1.2	0.9	1.4		NS	0.2	0.7	0.3	
	E x N	NS	1.2	0.9	1.4		NS	0.1	0.7	0.3	
CV (%)		2.0	1.4	1.2	1.8		3.6	0.8	3.8	1.6	

Table II.12: PMAT 1D: Performance of pearl millet advance summer hybrid entries for grain yield and stover yield as affected by N levels in Zone A&B during Summer 2025

Treatment		Grain yield (q/ha)				Stover yield (q/ha)			
N(kg/ha)	**Entries**	**ABD**	**JMR**	**DHL**	**Mean**	**ABD**	**JMR**	**DHL**	**Mean**
60	MSH 406	17.41	48.12	35.63	33.72	52.39	61.61	62.35	58.78
	Proagro 9444(c)	21.65	43.73	29.86	31.75	63.88	56.02	49.27	56.39
	MP 7366 (c)	22.52	45.99	30.29	32.93	68.68	58.56	50.89	59.38
	Nandi 75(c)	18.05	43.77	29.96	30.59	54.51	52.84	49.43	52.26
	86 M 64(c)	20.42	38.87	32.69	30.66	62.47	49.07	54.59	55.38
	86M22 (c)	24.23	41.45	29.68	31.79	74.87	51.23	48.97	58.36
	Mean	**20.71**	**43.66**	**31.35**	**31.91**	**62.80**	**54.89**	**52.59**	**56.76**
90	MSH 406	25.37	52.38	38.95	38.90	76.37	66.66	68.16	70.40
	Proagro 9444(c)	26.00	48.42	31.25	35.23	76.71	61.59	51.56	63.29
	MP 7366 (c)	29.33	52.05	33.25	38.21	89.47	65.06	55.86	70.13
	Nandi 75(c)	22.74	45.02	32.39	33.38	68.66	60.28	54.09	61.01
	86 M 64(c)	25.82	42.50	34.65	34.32	79.01	51.63	57.17	62.60
	86M22 (c)	27.97	44.45	**32.56**	34.99	86.44	54.00	**53.72**	64.72
	Mean	**26.21**	**47.47**	**33.84**	**35.84**	**79.44**	**59.87**	**56.76**	**65.36**
120	MSH 406	28.40	55.84	41.21	41.82	85.49	73.38	72.12	77.00
	Proagro 9444(c)	30.29	51.22	32.68	38.06	89.35	64.73	53.92	69.33
	MP 7366 (c)	33.14	55.39	36.52	41.68	101.09	69.04	61.35	77.16
	Nandi 75(c)	24.86	48.43	34.15	35.82	75.08	64.01	57.03	65.37
	86 M 64(c)	27.72	45.23	36.89	36.61	84.83	55.53	60.87	67.08
	86M22 (c)	29.33	46.38	34.15	36.62	90.63	57.24	56.35	68.07
	Mean	**28.96**	**50.41**	**35.93**	**38.44**	**87.75**	**63.99**	**60.27**	**70.67**
Entries Mean	MSH 406	23.73	52.11	38.60	38.15	71.42	67.22	67.54	68.73
	Proagro 9444(c)	25.98	47.79	31.26	35.01	76.65	60.78	51.59	63.00
	MP 7366 (c)	28.33	51.15	33.35	37.61	86.41	64.22	56.03	68.89
	Nandi 75(c)	21.88	45.74	32.17	33.26	66.08	59.05	53.52	59.55
	86 M 64(c)	24.65	42.20	34.74	33.87	75.44	52.08	57.54	61.69
	86M22 (c)	27.18	44.09	32.13	34.47	83.98	54.16	53.01	63.72
CD (5%)	**N**	3.04	4.48	1.41		9.16	NS	2.37	
	E	4.08	5.39	2.39		12.30	4.83	4.01	
	N x E	NS	NS	NS		NS	NS	NS	
	E x N	NS	NS	NS		NS	NS	NS	
CV (%)		16.7	11.8	7.3		16.6	8.4	7.3	

Table II.13: PMAT 1d: Performance of pearl millet advance summer hybrid entries for total & effectiv tillers/plant and test weight as affected by N levels in Zone A&B during Summer 2025

Treatment		Total tillers/plant				Effective tillers/plant				Test weight (g)			
N(kg/ha)	Entries	ABD	JMR	DHL	Mean	ABD	JMR	DHL	Mean	ABD	JMR	DHL	Mean
60	MSH 406	3.7	3.2	3.2	3.4	2.8	2.9	2.0	2.5	11.2	10.9	11.0	11.0
	Proagro 9444(c)	3.6	2.9	2.8	3.1	2.4	2.5	2.0	2.3	9.8	10.2	10.1	10.0
	MP 7366 (c)	4.0	3.1	3.1	3.4	2.8	2.6	3.0	2.8	11.2	10.9	10.4	10.9
	Nandi 75(c)	3.6	2.9	3.0	3.1	2.6	2.4	1.9	2.3	10.9	9.7	10.4	10.3
	86 M 64(c)	3.3	2.4	3.2	3.0	2.3	2.2	1.9	2.2	10.8	9.4	10.1	10.1
	86M22 (c)	3.8	2.7	2.9	3.1	2.4	2.3	1.9	2.2	11.1	9.5	10.3	10.3
	Mean	**3.7**	**2.9**	**3.0**	**3.2**	**2.6**	**2.5**	**2.1**	**2.4**	**10.8**	**10.1**	**10.4**	**10.4**
90	MSH 406	4.5	3.5	3.4	3.8	3.6	3.0	2.4	3.0	11.5	11.3	11.2	11.3
	Proagro 9444(c)	4.5	3.3	3.0	3.6	3.8	2.8	2.1	2.9	10.5	10.5	11.0	10.7
	MP 7366 (c)	4.8	3.4	3.3	3.8	3.8	2.9	2.4	3.0	11.8	11.2	10.9	11.3
	Nandi 75(c)	4.7	3.3	3.1	3.7	3.7	2.7	2.2	2.9	11.5	10.3	10.9	10.9
	86 M 64(c)	4.6	2.7	3.2	3.5	3.8	2.4	2.2	2.8	11.1	9.8	11.0	10.6
	86M22 (c)	4.8	2.9	**3.1**	3.6	4.0	2.6	**2.2**	2.9	10.8	10.1	**10.8**	10.6
	Mean	**4.7**	**3.2**	**3.2**	**3.7**	**3.8**	**2.7**	**2.2**	**2.9**	**11.2**	**10.5**	**11.0**	**10.9**
120	MSH 406	5.3	3.9	3.5	4.2	4.3	3.5	3.0	3.6	11.8	12.0	12.4	12.1
	Proagro 9444(c)	4.9	3.5	3.4	3.9	4.0	3.3	2.3	3.2	11.5	11.1	11.2	11.2
	MP 7366 (c)	5.6	3.9	3.5	4.3	4.6	3.3	2.4	3.5	12.0	11.6	11.1	11.6
	Nandi 75(c)	5.6	3.8	3.4	4.3	4.6	3.3	2.4	3.4	12.6	10.7	11.1	11.5
	86 M 64(c)	5.3	3.0	3.4	3.9	4.3	2.6	2.3	3.0	11.9	10.1	11.3	11.1
	86M22 (c)	6.3	3.1	3.4	4.3	5.4	2.9	2.4	3.6	11.6	10.3	11.1	11.0
	Mean	**5.5**	**3.5**	**3.4**	**4.1**	**4.5**	**3.1**	**2.5**	**3.4**	**11.9**	**11.0**	**11.3**	**11.4**
Entries Mean	MSH 406	4.5	3.5	3.4	3.8	3.6	3.1	2.4	3.0	11.5	11.4	11.5	11.5
	Proagro 9444(c)	4.3	3.2	3.1	3.6	3.4	2.8	2.1	2.8	10.6	10.6	10.7	10.6
	MP 7366 (c)	4.8	3.5	3.3	3.8	3.7	3.0	2.6	3.1	11.7	11.2	10.8	11.3
	Nandi 75(c)	4.6	3.3	3.2	3.7	3.6	2.8	2.2	2.9	11.7	10.2	10.8	10.9
	86 M 64(c)	4.4	2.7	3.2	3.5	3.5	2.4	2.1	2.7	11.3	9.7	10.8	10.6
	86M22 (c)	5.0	2.9	3.1	3.7	4.0	2.6	2.2	2.9	11.2	10.0	10.7	10.6
CD (5%)	**N**	0.5	0.4	0.0		0.6	0.2	0.1		0.6	0.3	0.2	
	E	0.3	0.2	0.1		0.4	0.2	0.1		0.3	0.3	0.2	
	N x E	NS	NS	NS		NS	NS	0.1		0.7	NS	0.4	
	E x N	NS	NS	NS		NS	NS	0.1		0.8	NS	0.4	
CV (%)		6.3	7.8	4.7		10.2	9.2	3.4		3.0	3.1	1.9	

Table II.14: PMAT 1d: Performance of pearl millet advance summer hybrid entries for plant height, plant populations and days to 50% flowering as affected by N levels in Zone A&B during Summer 2025

Treatment		Plant population ('000/ha)				Plant height (cm)				Days to 50% flowering			
N(kg/ha)	Entries	ABD	JMR	DHL	Mean	ABD	JMR	DHL	Mean	ABD	JMR	DHL	Mean
60	MSH 406	211.2	162.5	142.7	172.1	151.0	195.4	201.0	182.5	57.0	53.7	51.0	53.9
	Proagro 9444(c)	205.8	163.2	141.0	170.0	143.9	166.3	194.0	168.1	59.0	47.3	50.7	52.3
	MP 7366 (c)	209.4	163.5	140.6	171.2	161.0	171.7	187.9	173.5	62.0	49.3	50.0	53.8
	Nandi 75(c)	212.6	162.1	141.0	171.9	159.1	192.5	197.7	183.1	59.0	48.0	50.7	52.6
	86 M 64(c)	212.1	163.6	140.3	172.0	141.7	165.2	181.7	162.8	58.0	52.3	50.0	53.4
	86M22 (c)	213.0	159.4	140.3	170.9	156.9	173.7	178.3	169.6	57.3	51.3	50.7	53.1
	Mean	**210.7**	**162.4**	**141.0**	**171.3**	**152.3**	**177.5**	**190.1**	**173.3**	**58.7**	**50.3**	**50.5**	**53.2**
90	MSH 406	212.6	163.9	143.8	173.4	164.1	204.5	210.7	193.1	56.0	55.0	53.0	54.7
	Proagro 9444(c)	210.8	163.2	141.7	171.9	153.0	174.8	185.9	171.2	58.0	48.0	52.7	52.9
	MP 7366 (c)	210.3	164.2	142.7	172.4	167.5	174.1	179.0	173.5	61.0	50.7	51.0	54.2
	Nandi 75(c)	209.4	163.5	142.7	171.9	168.7	196.5	207.5	190.9	58.0	49.3	51.7	53.0
	86 M 64(c)	208.1	165.3	141.2	171.5	152.6	167.7	187.7	169.4	57.0	53.0	51.0	53.7
	86M22 (c)	213.9	162.5	**142.0**	172.8	164.7	178.3	**166.3**	169.8	56.3	52.3	**51.3**	53.3
	Mean	**210.9**	**163.8**	**142.3**	**172.3**	**161.8**	**182.7**	**189.5**	**178.0**	**57.7**	**51.4**	**51.8**	**53.6**
120	MSH 406	212.6	161.1	145.1	172.9	171.9	206.8	199.3	192.7	54.0	56.7	54.0	54.9
	Proagro 9444(c)	213.9	161.5	142.6	172.7	155.9	178.7	179.7	171.4	56.0	49.7	53.0	52.9
	MP 7366 (c)	209.0	163.5	145.0	172.5	177.4	179.9	182.0	179.8	59.0	52.7	52.0	54.6
	Nandi 75(c)	209.4	160.4	143.5	171.1	173.7	202.3	202.3	192.8	55.3	50.7	52.0	52.7
	86 M 64(c)	212.6	162.2	142.6	172.4	161.5	175.5	191.3	176.1	55.0	54.0	52.0	53.7
	86M22 (c)	209.9	163.9	143.3	172.4	165.5	181.7	180.1	175.8	54.3	55.0	52.0	53.8
	Mean	**211.2**	**162.1**	**143.7**	**172.3**	**167.6**	**187.5**	**189.1**	**181.4**	**55.6**	**53.1**	**52.5**	**53.7**
Entries Mean	MSH 406	212.1	162.5	143.9	172.8	162.3	202.2	203.7	189.4	55.7	55.1	52.7	54.5
	Proagro 9444(c)	210.2	162.6	141.7	171.5	150.9	173.3	186.5	170.3	57.7	48.3	52.1	52.7
	MP 7366 (c)	209.6	163.8	142.7	172.0	168.6	175.2	183.0	175.6	60.7	50.9	51.0	54.2
	Nandi 75(c)	210.5	162.0	142.4	171.6	167.2	197.1	202.5	188.9	57.4	49.3	51.4	52.7
	86 M 64(c)	210.9	163.7	141.4	172.0	151.9	169.5	186.9	169.4	56.7	53.1	51.0	53.6
	86M22 (c)	212.3	161.9	141.8	172.0	162.3	177.9	174.9	171.7	56.0	52.9	51.3	53.4
CD (5%)	**N**	NS	NS	0.8		1.3	5.3	NS		0.3	NS	1.3	
	E	NS	NS	0.8		2.1	5.3	15.2		1.1	1.7	NS	
	N x E	NS	NS	NS		3.7	NS	NS		NS	NS	NS	
	E x N	NS	NS	NS		3.5	NS	NS		NS	NS	NS	
CV (%)		1.4	1.7	0.6		1.3	3.0	8.3		2.1	3.4	3.3	

Table II.15: PMAT 2a1: Effect of foliar application of nano urea on productivity of pearl millet in Zone A1 during *kharif* 2024 and 2025

Treatments	Grain yield (q/ha)							Stover yield (q/ha)						
	BKR			MDR			Zonal mean	BKR			MDR			Zonal mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	17.33	12.70	15.02	10.67	10.13	10.40	**12.71**	32.67	27.96	30.31	18.90	17.80	18.35	**24.33**
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	25.23	24.00	24.62	19.13	18.70	18.92	**21.77**	49.57	51.92	50.74	38.43	37.60	38.02	**44.38**
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	23.33	22.10	22.72	14.70	14.60	14.65	**18.68**	44.53	46.87	45.70	28.03	27.80	27.92	**36.81**
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	20.50	19.20	19.85	15.60	15.20	15.40	**17.63**	41.07	43.38	42.22	29.10	28.37	28.73	**35.48**
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	23.77	22.53	23.15	15.33	15.00	15.17	**19.16**	47.43	51.13	49.28	26.77	26.17	26.47	**37.88**
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	21.67	21.20	21.43	16.97	16.63	16.80	**19.12**	44.70	48.21	46.46	32.90	31.90	32.40	**39.43**
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	20.13	18.90	19.52	12.63	12.37	12.50	**16.01**	40.37	42.70	41.54	23.13	22.43	22.78	**32.16**
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	15.83	15.47	15.65	13.33	13.03	13.18	**14.42**	38.43	40.75	39.59	24.87	24.17	24.52	**32.05**
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	18.73	17.50	18.12	12.87	12.57	12.72	**15.42**	38.27	42.63	40.45	23.97	23.20	23.58	**32.02**
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	19.00	17.67	18.33	14.07	13.83	13.95	**16.14**	36.67	40.17	38.42	26.43	25.97	26.20	**32.31**
CD at 5 %	3.33	4.15		2.88	2.75			7.33	5.49		6.01	4.82		
CV (%)	9.4	12.6		11.5	11.2			10.3	7.3		12.7	10.5		

Table II.16: PMAT 2a1: Effect of foliar application of nano urea on yield attributes of pearl millet in Zone A1 during *kharif* 2025

Treatments	Plant population ('000/ha)			Total tillers/plant			Effective tillers/plant			Plant height (cm)			Test weight (g)		
	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean
T_1 : Control (No nitrogen)	123.5	94.7	**109.1**	3.5	2.4	**2.9**	2.2	1.7	**2.0**	138.8	127.7	**133.3**	8.0	8.6	**8.3**
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	130.3	98.5	**114.4**	5.1	4.0	**4.6**	4.0	3.0	**3.5**	171.9	158.7	**165.3**	8.1	8.8	**8.5**
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	124.3	96.9	**110.6**	5.1	3.2	**4.1**	3.9	2.5	**3.2**	168.2	143.3	**155.8**	8.2	8.6	**8.4**
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	129.4	98.4	**113.9**	5.0	3.7	**4.3**	3.8	2.8	**3.3**	160.2	151.3	**155.7**	8.2	8.7	**8.5**
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	127.2	97.9	**112.5**	5.1	3.3	**4.2**	3.9	2.7	**3.3**	166.8	146.3	**156.6**	8.2	8.6	**8.4**
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	123.6	98.2	**110.9**	4.8	3.7	**4.3**	3.7	2.9	**3.3**	158.3	155.0	**156.6**	8.3	8.7	**8.5**
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	124.3	94.6	**109.5**	4.0	2.9	**3.4**	2.8	2.0	**2.4**	156.5	137.2	**146.8**	8.2	8.9	**8.6**
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	123.1	95.0	**109.1**	4.6	3.0	**3.8**	3.1	2.2	**2.7**	151.8	138.1	**145.0**	8.3	8.8	**8.5**
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	126.6	96.1	**111.4**	3.7	2.8	**3.3**	2.5	2.1	**2.3**	156.4	138.0	**147.2**	8.3	9.0	**8.6**
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	124.8	95.2	**110.0**	4.2	3.1	**3.7**	3.0	2.4	**2.7**	153.5	140.8	**147.2**	8.2	8.9	**8.6**
CD at 5 %	NS	NS		1.0	0.4		0.9	0.4		13.3	8.4		NS	NS	
CV (%)	4.7	2.0		13.1	7.6		16.3	8.7		4.9	3.4		2.9	2.5	

Table II.17: PMAT 2a1: Effect of foliar application of nano urea on economics of pearl millet in Zone A1 during *kharif* 2024 and 2025

Treatments	Gross return (Rs/ha)						Net return (Rs/ha)						BC ratio					
	BKR		MDR			Zonal mean	BKR		MDR			Zonal mean	BKR		MDR			Zonal mean
	2025	Mean	2024	2025	Mean		2025	Mean	2024	2025	Mean		2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	46906	46906	40285	38170	39228	**43067**	10806	10806	16985	14870	15928	**13367**	1.30	1.30	1.73	1.64	1.68	**1.49**
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	88026	88026	75207	73528	74367	**81196**	48577	48577	49707	48028	48867	**48722**	2.23	2.23	2.95	2.89	2.92	**2.58**
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	80342	80342	56810	56395	56603	**68472**	40625	40625	31110	30695	30903	**35764**	2.02	2.02	2.21	2.19	2.20	**2.11**
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	71735	71735	59865	58339	59102	**65419**	31207	31207	33365	31839	32602	**31905**	1.77	1.77	2.26	2.20	2.23	**2.00**
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	84378	84378	57648	56384	57016	**70697**	44632	44632	31948	30684	31316	**37974**	2.12	2.12	2.24	2.19	2.22	**2.17**
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	79472	79472	65923	64398	65160	**72316**	39344	39344	38623	37098	37860	**38602**	1.98	1.98	2.41	2.36	2.39	**2.18**
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	70643	70643	48200	47044	47622	**59133**	31123	31123	22800	21644	22222	**26673**	1.79	1.79	1.90	1.85	1.87	**1.83**
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	61958	61958	51164	49921	50542	**56250**	21627	21627	24964	23721	24342	**22985**	1.54	1.54	1.96	1.90	1.93	**1.73**
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	67608	67608	49354	48068	48711	**58159**	28023	28023	23854	22568	23211	**25617**	1.71	1.71	1.94	1.88	1.91	**1.81**
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	66219	66219	54107	53191	53649	**59934**	26288	26288	27107	26191	26649	**26468**	1.66	1.66	2.00	1.97	1.99	**1.82**
CD at 5 %	11134		11406	10286			11134		11406	10286			0.28		0.44	0.39		
CV (%)	9.0		11.8	10.9			20.0		22.0	20.7			9.0		11.7	10.8		

Table II.18: PMAT 2a1: Effect of foliar application of nano urea on protein, N and P content in grain of pearl millet in Mandor center of Zone A1 during kharif 2024 and kharif 2025

Treatments	Protein content in grain (%)			N Content from grain (%)			P Content from grain (%)		
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean
T1 : Control (No nitrogen)	7.04	7.03	7.03	1.13	1.13	1.13	0.25	0.24	0.24
T2 : RDN (½ at basal + ½ at 25-30 DAS)	9.17	8.83	9.00	1.47	1.41	1.44	0.32	0.31	0.32
T3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	8.22	8.13	8.18	1.32	1.30	1.31	0.28	0.27	0.27
T4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	8.62	8.59	8.60	1.38	1.37	1.38	0.30	0.30	0.30
T5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	8.28	8.27	8.28	1.33	1.32	1.32	0.29	0.28	0.28
T6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3 -4 WAS	8.99	8.81	8.90	1.44	1.41	1.42	0.31	0.31	0.31
T7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	7.54	7.40	7.47	1.21	1.18	1.19	0.25	0.25	0.25
T8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	8.03	7.95	7.99	1.29	1.27	1.28	0.27	0.27	0.27
T9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	7.75	7.65	7.70	1.24	1.23	1.23	0.26	0.25	0.26
T10: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	8.12	8.02	8.07	1.30	1.28	1.29	0.28	0.27	0.27
CD at 5 %	0.71	0.54		0.11	0.09		0.01	0.02	
CV (%)	5.0	3.9		5.0	3.9		2.3	3.3	

Table II.19: PMAT 2a1: Effect of foliar application of nano urea on N and P content in fodder of pearl millet in Mandor center of Zone A1 during kharif 2024 and kharif 2025

Treatments	N Content from fodder (%)			P Content from fodder (%)		
	2024	2025	Mean	2024	2025	Mean
T1 : Control (No nitrogen)	0.72	0.71	0.71	0.16	0.16	0.16
T2 : RDN (½ at basal + ½ at 25-30 DAS)	1.14	1.13	1.13	0.23	0.23	0.23
T3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.98	0.98	0.98	0.20	0.20	0.20
T4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	1.03	0.98	1.01	0.22	0.22	0.22
T5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	1.00	0.97	0.99	0.21	0.21	0.21
T6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3 -4 WAS	1.07	1.04	1.06	0.20	0.21	0.21
T7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.79	0.79	0.79	0.18	0.18	0.18
T8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.92	0.90	0.91	0.20	0.20	0.20
T9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	0.89	0.88	0.89	0.19	0.19	0.19
T10: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	0.95	0.94	0.95	0.19	0.19	0.19
CD at 5 %	0.08	0.09		0.02	0.02	
CV (%)	5.1	5.4		4.5	5.0	

Table II.20: PMAT 2a: Effect of foliar application of nano urea on grain yield of pearl millet during *kharif* 2024 and *kharif* 2025 in Zone A

Treatment	Grain yield (q/ha)									Zonal Mean
	HSR			JMR			JPR			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	24.32	20.82	22.57	16.92	21.79	19.36	20.52	19.90	20.21	20.71
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	39.71	34.32	37.02	31.30	33.18	32.24	25.38	25.32	25.35	31.54
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	33.09	29.28	31.19	24.51	29.39	26.95	26.33	24.83	25.58	27.91
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	34.45	30.09	32.27	28.91	30.60	29.76	25.89	24.93	25.41	29.15
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	35.19	30.68	32.94	25.98	29.54	27.76	27.35	26.73	27.04	29.25
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	35.87	31.04	33.45	30.16	33.07	31.62	27.56	28.18	27.87	30.98
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	30.88	26.66	28.77	19.23	23.02	21.13	25.46	26.02	25.74	25.21
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	32.14	27.72	29.93	21.08	24.76	22.92	25.75	22.98	24.37	25.74
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	33.63	28.45	31.04	20.04	24.89	22.46	26.61	22.45	24.53	26.01
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	34.78	29.57	32.18	23.43	25.82	24.63	26.70	21.21	23.95	26.92
CD at 5 %	3.45	2.82		4.54	6.39		3.22	3.26		
CV (%)	6.0	5.6		10.9	13.4		7.2	7.8		

Table II.21: PMAT 2a: Effect of foliar application of nano urea on stover yield of pearl millet during *kharif* 2024 and *kharif* 2025 in Zone A

Treatment	Stover yield (q/ha)									Zonal Mean
	HSR			JMR			JPR			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	71.90	59.21	65.56	34.61	37.39	36.00	52.35	49.12	50.73	50.76
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	115.44	100.65	108.05	48.23	55.63	51.93	60.50	58.54	59.52	73.17
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	101.11	85.58	93.34	42.86	49.89	46.38	62.26	57.50	59.88	66.53
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	104.97	89.17	97.07	45.10	50.66	47.88	60.70	57.59	59.15	68.03
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	106.65	89.89	98.27	43.03	50.60	46.82	64.42	61.95	63.19	69.42
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	107.93	93.19	100.56	46.16	55.14	50.65	64.86	65.28	65.07	72.09
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	93.57	78.10	85.84	37.54	41.29	39.42	60.22	60.20	60.21	61.82
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	97.80	81.64	89.72	41.03	44.84	42.93	59.61	53.23	56.42	63.03
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	102.03	83.80	92.91	38.72	42.54	40.63	62.21	52.21	57.21	63.58
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	104.15	87.36	95.75	41.11	48.31	44.71	64.79	50.72	57.76	66.07
CD at 5 %	6.83	7.35		7.32	8.73		7.01	7.19		
CV (%)	3.9	5.0		10.1	10.6		6.6	7.3		

Table II.22: PMAT 2a: Effect of foliar application of nano urea on total & effective tillers/plant and test weight of pearl millet in Zone A during *kharif* 2025

Treatment	Total tillers/plant				Effective tillers/plant				Test weight (g)			
	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean
T_1 : Control (No nitrogen)	2.0	2.7	3.8	**2.8**	1.4	2.1	1.6	**1.7**	8.8	9.5	7.9	**8.7**
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	3.2	3.9	4.1	**3.7**	2.6	3.4	2.0	**2.7**	10.3	11.8	8.4	**10.2**
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	2.7	3.4	4.4	**3.5**	2.1	2.7	2.2	**2.3**	9.8	10.1	8.4	**9.4**
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	2.8	3.6	4.1	**3.5**	2.2	3.1	2.5	**2.6**	9.9	10.9	8.3	**9.7**
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	2.8	3.5	4.9	**3.7**	2.3	2.9	2.7	**2.6**	10.2	10.5	8.4	**9.7**
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	2.9	3.7	5.0	**3.9**	2.3	3.3	3.0	**2.9**	10.1	11.3	8.7	**10.0**
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	2.5	2.9	4.6	**3.3**	1.8	2.2	2.1	**2.0**	9.4	9.9	8.5	**9.3**
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	2.6	3.2	4.5	**3.4**	1.8	2.5	2.3	**2.2**	9.6	10.1	8.6	**9.4**
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	2.7	3.0	4.7	**3.5**	1.9	2.4	2.8	**2.4**	9.5	10.0	8.5	**9.3**
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	2.8	3.4	4.6	**3.6**	2.0	2.5	2.7	**2.4**	9.7	10.2	8.8	**9.5**
CD at 5 %	0.3	0.5	NS		0.3	0.5	0.4		0.6	1.3	NS	
CV (%)	5.4	8.3	9.8		8.0	10.7	10.7		3.8	7.2	3.9	

Table II.23: PMAT 2a: Effect of foliar application of nano urea on plant height and plant population of pearl millet in Zone A during *kharif* 2025

Treatment	Plant height (cm)				Plant population ('000/ha)			
	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean
T_1 : Control (No nitrogen)	169.0	238.1	166.0	**191.0**	160.6	157.3	170.3	**162.7**
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	198.7	271.0	184.7	**218.1**	162.0	156.9	171.0	**163.3**
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	183.3	252.4	192.7	**209.5**	161.6	158.0	171.0	**163.5**
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	186.7	264.7	193.3	**214.9**	163.0	156.9	176.0	**165.3**
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	188.3	257.9	190.3	**212.2**	161.9	159.4	172.7	**164.7**
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	190.0	266.8	195.3	**217.4**	163.5	158.3	173.7	**165.2**
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	177.3	240.9	193.7	**204.0**	164.7	160.4	174.0	**166.4**
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	179.7	251.3	180.7	**203.9**	163.3	156.9	168.0	**162.7**
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	181.0	244.7	188.3	**204.7**	162.6	158.7	172.0	**164.4**
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	185.3	250.1	184.0	**206.5**	163.3	159.7	169.7	**164.2**
CD at 5 %	11.2	13.2	16.8		NS	NS	NS	
CV (%)	3.5	3.0	5.2		3.1	4.0	2.2	

Table II.24: PMAT 2a: Effect of foliar application of nano urea on N content of grain and fodder of pearl millet in Zone A during *kharif* 2024 and kharif 2025

Treatment	N Content from grain (%)							N Content from fodder (%)						
	HSR			JMR			Zone mean	HSR			JMR			Zone mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	1.18	1.24	1.21	1.40	1.27	1.34	1.27	0.44	0.51	0.47	0.94	1.02	0.98	0.73
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	1.28	1.36	1.32	1.81	1.60	1.71	1.51	0.55	0.66	0.61	1.43	1.34	1.39	1.00
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	1.23	1.32	1.28	1.59	1.50	1.54	1.41	0.50	0.62	0.56	1.12	1.16	1.14	0.85
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	1.25	1.33	1.29	1.69	1.53	1.61	1.45	0.52	0.63	0.58	1.28	1.27	1.27	0.92
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	1.25	1.34	1.30	1.62	1.53	1.57	1.43	0.51	0.63	0.57	1.21	1.24	1.22	0.90
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	1.26	1.34	1.30	1.70	1.55	1.63	1.46	0.53	0.65	0.59	1.35	1.33	1.34	0.96
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	1.21	1.29	1.25	1.52	1.30	1.41	1.33	0.46	0.58	0.52	0.98	1.00	0.99	0.76
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	1.22	1.30	1.26	1.56	1.46	1.51	1.39	0.47	0.60	0.54	1.05	1.11	1.08	0.81
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	1.23	1.30	1.27	1.53	1.39	1.46	1.36	0.48	0.61	0.54	1.04	1.05	1.05	0.79
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	1.24	1.31	1.28	1.57	1.48	1.53	1.40	0.49	0.62	0.55	1.07	1.11	1.09	0.82
CD at 5 %	0.05	0.07		0.16	0.15			0.05	0.06		0.10	0.08		
CV (%)	2.4	2.9		5.6	5.8			5.9	6.1		4.9	4.0		

Table II.25: PMAT 2a: Effect of foliar application of nano urea on P content of grain and fodder of pearl millet in Zone A during *kharif* 2024 and kharif 2025

Treatment	P Content from grain (%)							P Content from fodder (%)						
	HSR			JMR			Zone mean	HSR			JMR			Zone mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	0.34	0.33	0.34	0.27	0.29	0.28	0.31	0.17	0.15	0.16	0.19	0.23	0.21	0.19
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	0.39	0.37	0.38	0.33	0.32	0.33	0.35	0.21	0.18	0.20	0.24	0.26	0.25	0.22
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.36	0.35	0.35	0.30	0.31	0.31	0.33	0.18	0.16	0.17	0.22	0.24	0.23	0.20
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.37	0.36	0.37	0.32	0.31	0.32	0.34	0.19	0.17	0.18	0.24	0.24	0.24	0.21
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	0.37	0.36	0.37	0.31	0.30	0.30	0.33	0.19	0.18	0.18	0.23	0.25	0.24	0.21
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	0.38	0.37	0.38	0.34	0.31	0.32	0.35	0.21	0.17	0.19	0.24	0.25	0.25	0.22
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.35	0.34	0.35	0.27	0.28	0.28	0.31	0.18	0.16	0.17	0.20	0.23	0.22	0.19
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.34	0.35	0.35	0.29	0.29	0.29	0.32	0.19	0.17	0.18	0.21	0.23	0.22	0.20
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	0.36	0.34	0.35	0.28	0.28	0.28	0.32	0.20	0.16	0.18	0.21	0.22	0.22	0.20
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	0.36	0.36	0.36	0.30	0.30	0.30	0.33	0.21	0.17	0.19	0.22	0.23	0.23	0.21
CD at 5 %	NS	NS		0.02	NS			NS	NS		0.02	NS		
CV (%)	5.7	6.3		4.0	4.9			8.6	9.8		4.0	5.3		

Table II.26: PMAT 2a: Effect of foliar application of nano urea on av. NPK in soil after harvest and K content in grain and fodder of pearl millet in Hisar centre of Zone A during *kharif* 2024 and kharif 2025

Treatment	K Content in Hisar (%)						Av. N in soil (kg/ha)		Av. P2O5 in soil (kg/ha)			Av. K2O in soil (kg/ha)		
	Grain			Fodder			Hisar		Hisar			Hisar		
	2024	2025	Mean	2024	2025	Mean	2025	Mean	2024	2025	Mean	2024	2025	Mean
T_1 : Control (No nitrogen)	0.23	0.31	0.27	1.55	1.49	1.52	179.7	179.7	21.96	20.32	21.14	153.4	151.2	152.3
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	0.27	0.34	0.31	1.75	1.61	1.68	192.3	192.3	21.24	19.43	20.34	146.9	145.5	146.2
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.25	0.32	0.29	1.71	1.57	1.64	187.0	187.0	21.52	19.69	20.60	148.7	146.5	147.6
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.26	0.33	0.29	1.72	1.58	1.65	188.3	188.3	21.47	19.61	20.54	147.8	147.4	147.6
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	0.26	0.33	0.30	1.72	1.58	1.65	190.3	190.3	21.20	19.70	20.45	148.4	146.0	147.2
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	0.27	0.34	0.31	1.73	1.60	1.66	189.0	189.0	21.10	19.53	20.32	147.4	147.5	147.5
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.24	0.32	0.28	1.70	1.52	1.61	183.7	183.7	21.78	19.78	20.78	148.9	149.0	149.0
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.24	0.32	0.28	1.70	1.53	1.62	185.0	185.0	21.61	20.11	20.86	148.4	148.1	148.2
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	0.25	0.33	0.29	1.71	1.56	1.64	186.3	186.3	21.64	19.88	20.76	148.7	146.8	147.7
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	0.25	0.32	0.28	1.71	1.57	1.64	187.0	187.0	21.30	19.65	20.47	147.6	147.7	147.7
CD at 5 %	NS	NS		0.06	NS		6.5	6.5	NS	NS		NS	NS	
CV (%)	6.5	5.9		1.9	2.7		2.0	2.0	5.5	4.3		1.8	4.4	

Table II.27: PMAT 2a: Effect of foliar application of nano urea on gross returns and net returns of pearl millet in Zone A during kharif 2024 and kharif 2025

Treatment	Gross returns (Rs/ha)							Net returns (Rs/ha)						
	HSR			JMR			Zone mean	HSR			JMR			Zone mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	78219	69616	73918	45761	58215	51988	62953	27092	15094	21093	22416	33640	28028	24561
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	127327	115376	121352	83073	88514	85794	103573	73005	57619	65312	58749	62960	60855	63083
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	107091	98380	102735	65561	78440	72001	87368	53281	41043	47162	40840	52489	46665	46913
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	111433	101332	106382	76785	81566	79176	92779	56821	43184	50002	51250	54801	53026	51514
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	113695	103122	108409	69253	78911	74082	91245	59788	45725	52756	44503	52931	48717	50737
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	115744	104770	110257	80016	88189	84103	97180	60232	45723	52977	53625	60568	57097	55037
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	99782	89606	94694	51829	61678	56754	75724	46482	32779	39631	27352	35971	31662	35646
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	103920	93254	98587	56803	66383	61593	80090	49818	35617	42717	31512	39862	35687	39202
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	108692	95718	102205	53972	66478	60225	81215	55295	38831	47063	29466	40742	35104	41083
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	112135	99543	105839	62686	69380	66033	85936	57133	41005	49069	36539	42003	39271	44170

Table II.28: PMAT 2a: Effect of foliar application of nano urea on BC ratio and protein content of pearl millet in Zone A during kharif 2024 and kharif 2025

Treatment	BC ratio							Protein content (%)						
	HSR			JMR			Zone mean	HSR			JMR			Zone mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	1.53	1.28	1.40	1.96	2.37	2.17	1.78	7.36	7.73	7.54	8.76	7.95	8.36	7.95
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	2.34	2.00	2.17	3.42	3.46	3.44	2.81	7.98	8.50	8.24	11.33	10.03	10.68	9.46
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	1.99	1.72	1.85	2.65	3.02	2.84	2.34	7.67	8.27	7.97	9.93	9.38	9.65	8.81
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	2.04	1.74	1.89	3.01	3.05	3.03	2.46	7.81	8.30	8.06	10.57	9.56	10.06	9.06
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	2.11	1.80	1.95	2.80	3.04	2.92	2.44	7.81	8.38	8.10	10.12	9.56	9.84	8.97
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	2.09	1.77	1.93	3.03	3.19	3.11	2.52	7.88	8.40	8.14	10.65	9.66	10.16	9.15
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	1.87	1.58	1.72	2.12	2.4	2.26	1.99	7.58	8.04	7.81	9.50	8.14	8.82	8.32
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	1.92	1.62	1.77	2.25	2.5	2.38	2.07	7.63	8.13	7.88	9.77	9.14	9.45	8.66
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	2.04	1.68	1.86	2.2	2.58	2.39	2.12	7.71	8.15	7.93	9.53	8.66	9.09	8.51
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 - 4 WAS	2.04	1.70	1.87	2.4	2.53	2.47	2.17	7.77	8.21	7.99	9.82	9.25	9.54	8.76
CD at 5 %	-	-		-	-			0.05	0.41		0.97	0.92		
CV (%)	-	-		-	-			2.4	2.9		5.6	5.8		

Table II.29: PMAT 2b: Effect of foliar application of nano urea on grain yield of pearl millet in Zone B during *kharif* 2024 and *kharif* 2025

Treatments	Grain yield (q/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	16.57	15.20	15.89	19.29	19.82	19.55	15.15	10.99	13.07	19.01	19.68	19.35	16.96
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	24.00	25.07	24.54	30.95	31.92	31.44	23.77	21.15	22.46	27.72	27.19	27.46	26.47
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	23.60	20.21	21.91	27.83	27.67	27.75	20.99	19.62	20.30	27.11	27.92	27.52	24.37
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	23.86	20.35	22.11	28.13	28.63	28.38	20.18	18.13	19.15	30.78	31.61	31.20	25.21
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	24.20	21.82	23.01	29.57	30.63	30.10	22.09	20.31	21.20	29.84	32.11	30.97	26.32
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	27.05	23.20	25.13	26.55	26.85	26.70	20.84	19.03	19.94	31.12	33.42	32.27	26.01
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	23.49	20.06	21.78	23.09	23.79	23.44	17.50	17.43	17.46	23.47	24.81	24.14	21.70
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	23.64	20.16	21.90	24.22	24.53	24.38	16.01	15.88	15.95	24.20	25.16	24.68	21.72
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	23.83	22.37	23.10	25.51	26.22	25.86	21.19	17.68	19.43	24.60	24.87	24.74	23.28
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	26.56	20.76	23.66	22.30	22.86	22.58	19.96	16.09	18.02	25.72	25.81	25.76	22.51
CD at 5 %	4.48	3.92		3.63	2.58		3.23	2.12		4.35	4.99		
CV (%)	10.9	10.8		8.2	5.7		9.4	7.0		9.5	10.6		

Table II.30: PMAT 2b: Effect of foliar application of nano urea on dry fodder yield of pearl millet in Zone B during *kharif* 2024 *and kharif* 2025

Treatments	Stover yield (q/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	37.13	33.01	35.07	35.20	36.17	35.68	46.88	38.72	42.80	24.77	29.69	27.23	35.20
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	53.76	59.09	56.43	56.49	58.25	57.37	56.41	53.15	54.78	42.22	41.12	41.67	52.56
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	54.52	47.12	50.82	50.79	50.49	50.64	51.78	49.42	50.60	41.17	42.58	41.87	48.48
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	55.12	47.82	51.47	51.34	52.25	51.80	50.93	47.78	49.35	45.69	47.69	46.69	49.83
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	55.90	48.95	52.43	53.96	55.90	54.93	54.22	51.83	53.02	44.02	47.67	45.85	51.56
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	62.48	54.52	58.50	48.46	49.00	48.73	52.50	49.10	50.80	47.09	50.36	48.72	51.69
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	52.62	47.14	49.88	42.13	43.41	42.77	49.75	45.88	47.81	36.43	36.84	36.64	44.28
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	52.95	47.38	50.16	44.20	44.77	44.48	45.93	41.97	43.95	35.87	37.62	36.74	43.83
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	53.38	48.23	50.81	46.56	47.84	47.20	52.29	44.17	48.23	35.80	37.24	36.52	45.69
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	59.49	48.78	54.14	40.69	41.72	41.21	51.78	42.69	47.24	38.58	38.49	38.53	45.28
CD at 5 %	10.09	8.81		6.62	4.71		NS	5.58		5.87	7.34		
CV (%)	10.9	10.6		8.2	5.7		9.8	6.9		8.7	10.4		

Table II.31: PMAT 2b: Effect of foliar application of nano urea on gross returns of pearl millet in Zone B during *kharif* 2024 and *kharif* 2025

Treatments	Gross returns (Rs/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	56327	52203	54265	51033	52436	51735	35593	26361	30977	47570	55138	51354	47083
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	81555	87019	84287	81903	84452	83178	55862	50761	53311	69372	76619	72996	73443
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	80527	70051	75289	73641	73200	73420	49323	47078	48200	67845	78316	73081	67498
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	81417	70614	76015	74672	75760	75216	47413	43494	45454	77027	88563	82795	69870
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	82564	75260	78912	78014	81046	79530	51918	48739	50328	74658	89809	82234	72751
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	92283	80509	86396	70134	71038	70586	48991	45683	47337	77862	93622	85742	72515
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	79816	69611	74713	61144	62946	62045	41114	41822	41468	58721	69393	64057	60571
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	80313	69955	75134	64190	64906	64548	37633	38105	37869	60554	70650	65602	60788
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	80975	76749	78862	67215	69366	68291	49785	42428	46107	61562	69623	65593	64713
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	90249	72026	81137	58009	60484	59247	46891	38611	42751	64350	72775	68563	62924
CD at 5 %	15232	13417		9666	6833		7697	5096		-	-		
CV (%)	10.9	11		8.2	6		10	7		-	-		

Table II.32: PMAT 2b: Effect of foliar application of nano urea on net returns of pearl millet in Zone B during *kharif* 2024 *and kharif* 2025

Treatments	Net returns (Rs/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	28827	24603	26715	22707	21278	21993	21277	11616	16446	10526	16794	13660	19703
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	50055	55419	52737	51809	50300	51054	38885	33275	36080	29684	35631	32658	43132
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	49727	39151	44439	42797	39272	41034	31425	28643	30034	27711	36882	32297	36951
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	51017	40114	45565	44090	41895	42993	28322	23831	26077	36143	46379	41261	38974
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	51564	44160	47862	47064	46338	46701	33917	30198	32057	34506	48357	41432	42013
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	62083	50209	56146	39072	36872	37972	30400	26535	28467	37978	52438	45208	41948
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	50016	39711	44863	30492	29229	29861	23454	23633	23543	17578	26950	22264	30133
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	50913	40455	45684	33800	31477	32639	18780	18687	18733	19138	27934	23536	30148
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	50975	46649	48812	36457	35530	35994	32022	24132	28077	20439	27200	23820	34176
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	61049	42726	51887	27139	27462	27300	28538	19707	24123	23934	31059	27497	32702
CD at 5 %	15232	13417		9666	6731		7697	5096		-	-		
CV (%)	17.4	18		14.9	11		16	12		-	-		

Table II.33: PMAT 2b: Effect of foliar application of nano urea on BC ratio of pearl millet in Zone B during *kharif 2024 and kharif* 2025

Treatments	BC ratio												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	2.05	1.89	1.97	1.80	1.68	1.74	2.49	1.79	2.14	1.28	1.44	1.36	1.80
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	2.59	2.75	2.67	2.72	2.47	2.60	3.29	2.90	3.10	1.75	1.87	1.81	2.54
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	2.61	2.27	2.44	2.39	2.16	2.27	2.75	2.56	2.66	1.69	1.89	1.79	2.29
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	2.68	2.31	2.50	2.44	2.24	2.34	2.48	2.21	2.35	1.88	2.10	1.99	2.29
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	2.66	2.42	2.54	2.52	2.33	2.43	2.88	2.63	2.76	1.86	2.17	2.02	2.43
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	3.06	2.66	2.86	2.26	2.08	2.17	2.64	2.38	2.51	1.95	2.27	2.11	2.41
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	2.68	2.33	2.50	2.00	1.87	1.93	2.33	2.30	2.31	1.43	1.63	1.53	2.07
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	2.73	2.37	2.55	2.11	1.94	2.03	2.00	1.96	1.98	1.46	1.65	1.56	2.03
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	2.70	2.55	2.62	2.19	2.05	2.12	2.80	2.32	2.56	1.50	1.64	1.57	2.22
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	3.09	2.46	2.77	1.88	1.84	1.86	2.55	2.04	2.30	1.59	1.74	1.67	2.15
CD at 5 %	0.5	0.45		0.3	0.20		0.4	0.28		-	-		
CV (%)	10.8	10.8		8.1	5.6		9.9	6.9		-	-		

Table II.34: PMAT 2b: Effect of foliar application of nano urea on protein content, N and P content from grain after harvesting of pearl millet in Zone B during *kharif* 2024 and *kharif* 2025

Treatments	Protein content (%)								N Content from grain(%)								P Content from grain (%)							
	DHL	VYP			CBE			Zonal mean	DHL	VYP			CBE			Zonal mean	DHL	VYP			CBE			Zonal mean
	2024	2024	2025	Mean	2024	2025	Mean		2024	2024	2025	Mean	2024	2025	Mean		2024	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	9.6	11.2	10.7	10.9	9.3	9.4	9.3	10.0	1.54	1.79	1.71	1.75	1.16	1.19	1.18	1.49	0.47	0.27	0.19	0.23	0.21	0.22	0.22	0.30
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	9.8	13.0	12.1	12.6	11.8	12.0	11.9	11.4	1.57	2.09	1.94	2.01	1.60	1.68	1.64	1.74	0.48	0.31	0.28	0.29	0.27	0.28	0.27	0.35
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	9.8	13.2	12.6	12.9	11.9	12.0	11.9	11.5	1.57	2.11	2.02	2.06	1.63	1.71	1.67	1.77	0.48	0.30	0.23	0.26	0.27	0.28	0.27	0.34
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	9.9	12.8	13.0	12.9	12.2	12.4	12.3	11.7	1.58	2.05	2.08	2.06	1.71	1.81	1.76	1.80	0.48	0.28	0.27	0.27	0.28	0.29	0.28	0.35
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	9.9	13.2	12.5	12.9	12.2	12.3	12.2	11.7	1.58	2.12	2.00	2.06	1.69	1.78	1.73	1.79	0.48	0.32	0.26	0.29	0.28	0.29	0.29	0.35
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	9.9	12.8	13.2	13.0	12.4	12.5	12.4	11.8	1.59	2.06	2.11	2.08	1.73	1.84	1.79	1.82	0.48	0.30	0.28	0.29	0.28	0.29	0.29	0.35
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	9.8	12.3	11.7	12.0	11.4	11.5	11.5	11.1	1.56	1.98	1.87	1.92	1.27	1.31	1.29	1.59	0.48	0.25	0.24	0.25	0.25	0.25	0.25	0.33
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	9.8	12.1	12.0	12.0	11.6	11.7	11.6	11.1	1.56	1.93	1.92	1.93	1.42	1.48	1.45	1.65	0.48	0.28	0.26	0.27	0.25	0.26	0.26	0.33
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	9.8	12.8	12.4	12.6	11.5	11.7	11.6	11.3	1.56	2.04	1.99	2.02	1.43	1.46	1.45	1.67	0.48	0.29	0.25	0.27	0.26	0.26	0.26	0.34
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	9.8	12.3	12.2	12.2	11.8	11.9	11.8	11.3	1.57	1.97	1.95	1.96	1.51	1.57	1.54	1.69	0.48	0.30	0.27	0.29	0.26	0.27	0.26	0.34
CD at 5 %	NS	1.2	1.2		0.5	0.4			NS	0.19	0.20		0.16	0.11			NS	NS	NS		0.02	0.01		
CV (%)	2.5	5.4	5.7		2.7	2.1			6.4	5.4	5.7		6.0	4.1			7.7	18.8	16.2		4.7	2.9		

Table II.35: PMAT 2b: Effect of foliar application of nano urea on N and P content from fodder after harvesting of pearl millet in Zone B during *kharif 2024 and kharif 2025*

Treatments	N Content from fodder (%)								P Content from fodder (%)							
	DHL	VYP			CBE			Zonal mean	DHL	VYP			CBE			Zonal mean
	2024	2024	2025	Mean	2024	2025	Mean		2024	2024	2025	Mean	2024	2025	Mean	
T_1 : Control (No nitrogen)	0.99	0.38	0.36	0.37	0.50	0.50	0.50	0.62	0.30	0.08	0.08	0.08	0.12	0.13	0.12	0.17
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	1.03	0.47	0.43	0.45	0.56	0.57	0.56	0.68	0.31	0.14	0.11	0.13	0.17	0.17	0.17	0.20
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	1.03	0.47	0.40	0.43	0.55	0.56	0.56	0.67	0.31	0.10	0.11	0.11	0.17	0.17	0.17	0.20
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	1.04	0.42	0.45	0.44	0.58	0.59	0.59	0.69	0.31	0.10	0.13	0.11	0.19	0.19	0.19	0.20
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	1.04	0.48	0.44	0.46	0.58	0.58	0.58	0.69	0.31	0.12	0.12	0.12	0.18	0.19	0.18	0.20
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	1.06	0.42	0.46	0.44	0.59	0.60	0.59	0.70	0.32	0.12	0.13	0.12	0.19	0.19	0.19	0.21
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	1.02	0.42	0.41	0.41	0.51	0.52	0.51	0.65	0.31	0.10	0.11	0.11	0.14	0.15	0.15	0.19
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	1.02	0.38	0.42	0.40	0.52	0.53	0.53	0.65	0.31	0.09	0.10	0.10	0.15	0.16	0.15	0.19
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	1.02	0.43	0.47	0.45	0.53	0.53	0.53	0.67	0.31	0.11	0.12	0.11	0.15	0.16	0.16	0.19
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	1.03	0.43	0.38	0.40	0.53	0.54	0.54	0.66	0.31	0.12	0.10	0.11	0.16	0.17	0.16	0.20
CD at 5 %	NS	NS	NS		0.02	0.02			NS	NS	NS		0.02	0.01		
CV (%)	5.0	15.7	17.0		2.2	1.5			9.7	23.7	20.8		7.2	2.3		

Table II.36: PMAT 2b: Effect of foliar application of nano urea on yield attributes of pearl millet in Zone B during *kharif* 2025

Treatments	Total tillers/plant					Effective tillers/plant					Test weight (g)					Plant height (cm)					Plant population ('000/ha)				
	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean
T_1 : Control (No nitrogen)	3.1	3.5	2.3	2.9	2.9	2.1	1.9	1.9	2.2	2.0	12.0	11.6	11.4	9.2	11.0	171.7	183.3	150.5	143.5	162.3	215.7	129.9	138.2	121.0	151.2
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	4.5	4.7	3.3	4.1	4.2	3.5	3.1	2.7	3.0	3.1	15.9	12.6	11.9	12.2	13.2	188.6	202.3	172.4	176.8	185.0	219.5	136.6	137.5	133.0	156.6
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	3.6	4.3	3.1	4.0	3.8	2.8	3.1	2.6	2.9	2.8	12.3	12.2	12.0	11.3	11.9	179.7	200.7	168.5	174.2	180.8	217.4	136.0	138.9	134.0	156.6
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	3.8	4.4	3.0	4.2	3.9	2.8	3.0	2.5	3.4	2.9	13.2	12.2	12.0	14.8	13.1	183.0	199.3	164.1	181.6	182.0	215.9	135.8	134.7	131.0	154.4
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	4.1	4.6	3.2	4.2	4.0	2.8	3.1	2.6	3.2	2.9	13.8	12.3	12.0	12.3	12.6	183.7	199.7	170.9	175.4	182.4	218.2	135.6	136.3	132.0	155.5
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3-4 WAS	4.1	4.4	3.1	4.3	3.9	3.2	3.0	2.5	3.7	3.1	14.0	12.3	12.1	14.3	13.2	185.7	199.3	165.9	186.6	184.4	217.0	135.4	135.9	135.0	155.8
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	3.0	4.2	2.8	3.5	3.4	2.0	3.0	2.1	2.1	2.3	13.2	12.2	11.6	11.1	12.0	178.7	198.3	160.4	149.7	171.8	216.4	134.3	135.4	130.0	154.0
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	3.6	4.2	2.7	3.7	3.6	2.8	3.0	2.1	2.5	2.6	13.6	12.3	11.5	11.6	12.2	181.5	198.3	157.5	156.3	173.4	216.0	134.7	136.3	125.0	153.0
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	3.9	4.3	2.9	3.6	3.7	2.9	3.0	2.1	2.4	2.6	13.7	12.2	11.8	11.4	12.3	182.9	198.3	161.2	153.8	174.1	216.8	135.0	133.6	126.0	152.9
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3- 4 WAS	4.0	4.2	2.7	3.9	3.7	3.0	3.0	2.2	2.56	2.7	13.8	12.2	11.8	11.9	12.4	183.5	198.3	159.3	165.1	176.6	217.4	134.2	137.0	130.0	154.7
CD at 5 %	0.6	0.4	0.3	0.3		0.7	0.1	0.3	0.3		1.7	NS	NS	0.8		8.3	3.7	6.9	9.6		NS	2.0	NS	6.6	
CV (%)	9.5	5.7	5.1	3.9		14.0	2.7	7.5	5.6		7.1	3.8	2.3	3.6		2.6	1.1	2.4	3.4		1.0	0.8	2.1	2.9	

Table II.37: PMAT 2b: Effect of foliar application of nano urea on physio-chemical properties of soil after harvesting of pearl millet crop in Zone B during *kharif* 2024 and *kharif* 2025

Treatment	Soil status after harvest																	
	OC (%)	pH	EC	Available N (kg/ha)					Available P (kg/ha)					Available K (kg/ha)				
	DHL			DHL	VYP			Zonal mean	DHL	VYP			Zonal mean	DHL	VYP			Zonal mean
	2024			2024	2024	2025	Mean		2024	2024	2025	Mean		2024	2024	2025	Mean	
T_1 : Control (No nitrogen)	0.46	8.21	0.41	176.0	189.5	169.5	179.5	177.7	15.5	23.7	19.6	21.6	18.6	480.0	415.0	383.6	399.3	439.6
T_2 : RDN (½ at basal + ½ at 25-30 DAS)	0.48	8.19	0.43	202.0	177.1	187.7	182.4	192.2	15.7	20.3	20.8	20.5	18.1	474.0	388.1	387.8	388.0	431.0
T_3 : 75% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.48	8.20	0.42	198.0	181.5	184.2	182.9	190.4	15.7	21.9	21.5	21.7	18.7	476.0	394.1	403.1	398.6	437.3
T_4 : 75% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.48	8.20	0.42	196.0	183.0	181.0	182.0	189.0	15.7	22.8	22.3	22.6	19.1	476.0	414.3	396.3	405.3	440.7
T_5 : 75% RDN + foliar spray of urea @ 2.5% at 3 and 5 WAS	0.48	8.20	0.42	198.0	178.6	179.4	179.0	188.5	15.7	22.5	21.8	22.1	18.9	476.0	406.3	406.2	406.2	441.1
T_6 : 75% RDN + foliar spray of nano urea @ 4 ml/l at 3 -4 WAS	0.48	8.20	0.42	198.0	180.2	183.9	182.1	190.0	15.7	21.2	22.6	21.9	18.8	475.0	397.2	393.2	395.2	435.1
T_7 : 50% RDN + foliar spray of urea @ 1.5% at 3 and 5 WAS	0.47	8.21	0.41	182.0	184.8	178.5	181.6	181.8	15.7	21.8	21.8	21.8	18.8	479.0	408.9	387.4	398.2	438.6
T_8 : 50% RDN + foliar spray of nano urea @ 2 ml/l at 3 and 5 WAS	0.48	8.21	0.41	178.0	178.5	180.4	179.5	178.7	15.7	23.5	22.5	23.0	19.4	479.0	415.0	391.6	403.3	441.1
T_9 : 50% RDN + foliar spray of urea @ 2.5 % at 3 and 5 WAS	0.47	8.21	0.41	180.0	182.3	182.8	182.6	181.3	15.7	23.2	20.7	21.9	18.8	478.0	413.8	381.7	397.8	437.9
T_{10}: 50% RDN + foliar spray of nano urea @ 4 ml/l at 3 -4 WAS	0.47	8.21	0.41	180.0	185.5	179.2	182.4	181.2	15.7	22.4	22.5	22.5	19.1	478.0	403.2	399.9	401.5	439.8
CD at 5 %	-	-	-	-	NS	NS			-	NS	NS			-	NS	NS		
CV (%)	-	-	-	-	4.0	3.7			-	6.5	6.3			-	4.9	4.0		
Initial value (Dhule)	0.48	8.20	0.41	206.0	-	-			15.2	-	-			472.0	-	-		

Table II.38: PMAT 3A1: Effect of foliar application of nano DAP on grain yield and stover yield of pearl millet in Zone A1 during *kharif* 2024 and 2025

Treatment	Grain yield (q/ha)							Stover yield (q/ha)						
	BKR			MDR			Zonal mean	BKR			MDR			Zonal mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control	19.53	13.83	16.68	11.60	10.63	11.12	**13.90**	47.33	33.07	40.20	20.60	18.87	19.73	**29.97**
T_2 : RDP	28.23	26.10	27.17	20.23	19.47	19.85	**23.51**	71.37	70.27	70.82	40.53	39.30	39.92	**55.37**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	23.97	21.87	22.92	15.43	14.90	15.17	**19.04**	68.47	64.83	66.65	29.30	28.50	28.90	**47.78**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	21.00	18.87	19.93	13.77	13.23	13.50	**16.72**	62.63	59.07	60.85	25.73	24.73	25.23	**43.04**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	24.90	22.77	23.83	16.00	15.67	15.83	**19.83**	70.47	69.00	69.73	27.97	27.30	27.63	**48.68**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	23.97	22.83	23.40	16.57	16.00	16.28	**19.84**	73.33	72.00	72.67	30.87	29.80	30.33	**51.50**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	24.47	22.37	23.42	17.37	16.73	17.05	**20.23**	70.37	69.10	69.73	31.80	30.50	31.15	**50.44**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	24.20	22.07	23.13	14.23	13.83	14.03	**18.58**	62.70	61.00	61.85	26.70	25.70	26.20	**44.03**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	25.33	23.20	24.27	18.03	17.57	17.80	**21.03**	70.53	66.80	68.67	33.57	32.67	33.12	**50.89**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	23.33	21.13	22.23	14.60	14.17	14.38	**18.31**	60.47	61.27	60.87	27.40	26.67	27.03	**43.95**
CD at 5 %	NS	5.42		3.01	2.91			12.15	13.81		5.79	5.54		
CV (%)	18.6	14.6		11.0	11.1			10.7	12.8		11.4	11.3		

Table II.39: PMAT 3A1: Effect of foliar application of nano DAP on growth and yield attributes of pearl millet in Zone A1 during *kharif* 2025

Treatment	Plant population			Total tillers/plant			Effective tillers/plant			Test weight (g)			Plant height (cm)		
	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean
T_1 : Control	126.7	97.0	111.9	3.1	2.5	2.8	1.6	1.7	1.7	8.1	8.6	8.4	132.3	132.3	132.3
T_2 : RDP	131.8	103.0	117.4	5.1	4.1	4.6	3.6	3.4	3.5	8.5	8.9	8.7	156.0	162.5	159.3
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	129.5	97.6	113.6	4.6	3.3	4.0	3.5	2.6	3.1	8.5	8.7	8.6	153.0	155.7	154.4
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	130.0	97.3	113.6	4.4	3.1	3.7	3.2	2.3	2.8	8.4	8.8	8.6	151.2	152.9	152.1
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	129.3	98.1	113.7	4.6	3.5	4.0	3.1	2.7	2.9	8.5	8.7	8.6	155.5	156.8	156.2
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	127.6	98.5	113.0	4.6	3.5	4.1	3.1	2.9	3.0	8.5	8.8	8.6	155.0	157.2	156.1
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	127.5	100.1	113.8	4.5	3.7	4.1	3.1	2.9	3.0	8.5	8.9	8.7	154.1	158.6	156.4
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	127.9	97.6	112.8	4.3	3.1	3.7	2.9	2.3	2.6	8.6	8.9	8.7	147.4	153.2	150.3
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	128.9	102.1	115.5	4.6	3.8	4.2	3.1	3.1	3.1	8.5	8.9	8.7	154.4	160.3	157.3
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	127.3	97.1	112.2	4.3	3.3	3.8	3.1	2.5	2.8	8.5	8.8	8.6	150.9	154.0	152.4
CD at 5 %	NS	2.7		0.9	0.4		0.7	0.2		NS	0.2		9.3	5.2	
CV (%)	5.4	1.6		12.0	7.3		14.3	5.2		2.8	1.1		3.6	2.0	

Table II.40: PMAT 3A1: Effect of foliar application of nano DAP on gross returns and net returns of pearl millet in Zone A1 during *kharif* 2024 and 2025

Treatments	Gross return (Rs/ha)						Net return (Rs/ha)					
	BKR		MDR			Zonal mean	BKR		MDR			Zonal mean
	2025	Mean	2024	2025	Mean		2025	Mean	2024	2025	Mean	
T_1 : Control	48263	48263	43840	40176	42008	**45136**	12163	12163	20540	16876	18708	**15436**
T_2 : RDP	105719	105719	79459	76645	78052	**91886**	66819	66819	53959	51145	52552	**59685**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	92897	92897	59558	57638	58598	**75747**	54399	54399	33858	31938	32898	**43648**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	82408	82408	52865	50814	51840	**67124**	44307	44307	26365	24314	25340	**34823**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	97821	97821	60178	58870	59524	**78673**	57423	57423	34478	33170	33824	**45624**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	100080	100080	63551	61370	62461	**81270**	58182	58182	36251	34070	35161	**46671**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	97040	97040	66258	63750	65004	**81022**	54742	54742	40858	38350	39604	**47173**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	90530	90530	54718	53018	53868	**72199**	48629	48629	28518	26818	27668	**38148**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	97136	97136	69156	67346	68251	**82694**	51838	51838	43656	41846	42751	**47295**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	88827	88827	56135	54521	55328	**72077**	43926	43926	29135	27521	28328	**36127**
CD at 5 %	15134		11607	11140			15134		11607	11140		
CV (%)	9.7		11.1	11.0			17.8		19.3	19.8		

Table II.41: PMAT 3A1: Effect of foliar application of nano DAP on BC ratio of pearl millet in Zone A1 during *kharif* 2024 and *kharif* 2025

Treatments	BC ratio					Zonal mean
	BKR		MDR			
	2025	Mean	2024	2025	Mean	
T_1 : Control	1.34	1.34	1.88	1.73	1.81	**1.57**
T_2 : RDP	2.72	2.72	3.12	3.01	3.06	**2.89**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	2.41	2.41	2.32	2.24	2.28	**2.35**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	2.16	2.16	2.00	1.92	1.96	**2.06**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	2.42	2.42	2.34	2.29	2.32	**2.37**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	2.39	2.39	2.33	2.25	2.29	**2.34**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	2.29	2.29	2.61	2.51	2.56	**2.43**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	2.16	2.16	2.09	2.02	2.06	**2.11**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	2.15	2.15	2.71	2.64	2.68	**2.41**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.98	1.98	2.08	2.02	2.05	**2.02**
CD at 5 %	0.37		0.44	0.43		
CV (%)	9.6		10.9	10.9		

Table II.42: PMAT 3A1: Effect of foliar application of nano DAP on protein content, N and P content in grain of pearl millet in Mandor Zone A1 during kharif 2024 and kharif 2025

Treatments	Protein content in grain (%)			N Content from grain (%)			P Content from grain (%)		
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean
T_1 : Control	7.06	6.93	6.99	1.13	1.11	1.12	0.24	0.23	0.24
T_2 : RDP	9.25	8.57	8.91	1.48	1.37	1.43	0.33	0.31	0.32
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	8.13	7.80	7.96	1.30	1.25	1.27	0.28	0.27	0.27
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	7.92	7.64	7.78	1.27	1.22	1.25	0.26	0.24	0.25
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 weeks after sowing	8.25	7.94	8.09	1.32	1.27	1.29	0.28	0.27	0.27
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 weeks after sowing	8.61	8.21	8.41	1.38	1.31	1.35	0.29	0.28	0.28
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 weeks after sowing	8.66	8.14	8.40	1.39	1.30	1.34	0.30	0.29	0.30
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 weeks after sowing	7.61	7.38	7.50	1.22	1.18	1.20	0.27	0.25	0.26
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 weeks after sowing	8.98	8.61	8.80	1.44	1.38	1.41	0.31	0.30	0.31
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 weeks after sowing	8.03	7.68	7.85	1.28	1.23	1.26	0.27	0.26	0.26
CD at 5 %	0.90	0.85		0.14	0.14		0.01	0.01	
CV (%)	6.3	6.2		6.3	6.2		2.9	3.1	

Table II.43: PMAT 3A1: Effect of foliar application of nano DAP on N and P content in fodder of pearl millet in Mandor Zone A1 during kharif 2024 and kharif 2025

Treatments	N Content from fodder (%)			P Content from fodder (%)		
	2024	2025	Mean	2024	2025	Mean
T_1 : Control	0.60	0.55	0.57	0.16	0.14	0.15
T_2 : RDP	0.99	0.97	0.98	0.23	0.22	0.22
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	0.76	0.73	0.74	0.20	0.18	0.19
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	0.69	0.67	0.68	0.19	0.16	0.18
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 weeks after sowing	0.77	0.76	0.76	0.20	0.19	0.20
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 weeks after sowing	0.79	0.78	0.79	0.21	0.20	0.20
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 weeks after sowing	0.82	0.80	0.81	0.21	0.20	0.20
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 weeks after sowing	0.72	0.71	0.71	0.18	0.16	0.17
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 weeks after sowing	0.86	0.84	0.85	0.22	0.21	0.21
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 weeks after sowing	0.74	0.73	0.73	0.19	0.18	0.19
CD at 5 %	0.09	0.09		0.01	0.02	
CV (%)	7.1	7.0		3.1	4.7	

Table II.44: PMAT 3A: Effect of foliar application of nano DAP on grain yield of pearl millet in Zone A during *kharif* 2024 and *kharif* 2025

Treatment	Grain yield (q/ha)									
	HSR			JMR			JPR			Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	20.54	19.39	19.96	14.20	22.63	18.41	23.65	20.87	22.26	20.21
T_2 : RDP	37.12	33.38	35.25	24.71	34.92	29.82	25.13	23.55	24.34	29.80
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	30.61	28.04	29.32	19.38	30.12	24.75	26.37	23.98	25.18	26.42
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	27.92	25.19	26.55	17.30	26.61	21.96	26.39	24.87	25.63	24.71
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 weeks after sowing	31.90	28.79	30.34	19.64	30.55	25.10	27.76	25.00	26.38	27.27
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 weeks after sowing	32.92	29.19	31.06	20.16	31.48	25.82	27.56	25.32	26.44	27.77
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	33.16	29.56	31.36	21.96	32.34	27.15	30.19	27.08	28.64	29.05
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	29.91	26.12	28.02	17.61	28.83	23.22	29.45	26.75	28.10	26.45
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	33.29	30.09	31.69	24.41	35.94	30.18	30.93	27.15	29.04	30.30
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	31.02	27.01	29.02	18.59	29.86	24.23	30.78	27.10	28.94	27.39
CD at 5 %	3.50	3.13		4.92	5.95		4.31	2.56		
CV (%)	6.6	6.5		14.4	11.4		9.0	5.9		

Table II.45: PMAT 3A: Effect of foliar application of nano DAP on stover yield of pearl millet in Zone A during *kharif* 2024 and *kharif* 2025

Treatment	Stover yield (q/ha)									
	HSR			JMR			JPR			Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	70.67	55.66	63.17	27.49	41.97	34.73	56.40	49.60	53.00	50.30
T_2 : RDP	114.87	97.54	106.21	41.33	56.92	49.13	59.97	56.06	58.02	71.12
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	102.32	82.34	92.33	32.26	51.13	41.70	62.82	57.25	60.04	64.69
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	96.47	73.20	84.84	29.28	46.74	38.01	63.14	59.18	61.16	61.33
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 weeks after sowing	105.13	84.05	94.59	33.56	51.27	42.42	66.29	59.73	63.01	66.67
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 weeks after sowing	107.05	85.26	96.15	35.63	52.12	43.88	65.57	60.33	62.95	67.66
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	108.30	86.67	97.49	37.43	53.16	45.30	72.12	64.70	68.41	70.40
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	100.73	76.07	88.40	29.83	47.68	38.76	70.15	63.71	66.93	64.69
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	109.04	88.69	98.86	39.14	57.38	48.26	73.51	64.71	69.11	72.08
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	103.80	79.34	91.57	30.49	49.11	39.80	73.56	64.55	69.05	66.81
CD at 5 %	6.32	8.12		6.06	7.94		8.41	6.30		
CV (%)	3.6	5.8		10.4	9.1		7.3	6.1		

Table II.46: PMAT 3A: Effect of foliar application of nano DAP on total tillers/plant, effective tillers/plant and test weight of pearl millet in Zone A during kharif 2025

Treatment	Total tillers/plant				Effective tillers/plant				Test weight (g)			
	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean
T_1 : Control	3.0	3.4	3.9	3.4	1.9	2.3	2.0	2.1	9.1	9.3	8.5	9.0
T_2 : RDP	3.8	4.3	4.1	4.1	3.0	3.4	2.2	2.9	10.7	11.0	9.1	10.3
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	3.4	3.9	4.8	4.0	2.6	3.0	2.5	2.7	10.0	10.2	9.2	9.8
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	3.2	3.4	4.3	3.6	2.3	2.5	2.6	2.4	9.7	9.8	9.3	9.6
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 weeks after sowing	3.5	4.0	4.2	3.9	2.6	3.1	2.5	2.7	10.0	10.3	9.4	9.9
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 weeks after sowing	3.6	4.2	4.9	4.2	2.7	3.1	2.6	2.8	10.0	10.5	9.3	9.9
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	3.4	4.3	4.8	4.2	2.7	3.2	2.9	2.9	10.1	10.9	9.5	10.2
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	3.1	3.7	4.8	3.9	2.4	2.7	2.9	2.7	9.8	9.9	9.3	9.7
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	3.6	4.6	4.8	4.3	2.8	3.7	2.8	3.1	10.1	11.1	9.7	10.3
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	3.3	3.7	5.0	4.0	2.6	2.8	2.9	2.8	9.9	10.0	9.5	9.8
CD at 5 %	0.4	0.5	0.4		0.2	0.5	0.4		0.6	0.9	0.5	
CV (%)	6.7	7.3	4.9		5.4	10.4	9.2		3.6	5.2	2.9	

Table II.47: PMAT 3A: Effect of foliar application of nano DAP on plant height and plant population of pearl millet in Zone A during kharif 2025

Treatment	Plant height (cm)				Plant population ('000/ha)			
	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean
T_1 : Control	178.3	249.3	171.3	199.7	136.4	156.1	173.3	155.3
T_2 : RDP	200.0	270.7	183.7	218.1	139.2	161.1	171.7	157.3
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	193.3	260.1	188.7	214.0	140.9	158.6	182.3	160.6
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	188.7	252.7	193.0	211.5	138.3	160.4	181.0	159.9
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 weeks after sowing	194.7	260.5	191.3	215.5	140.5	158.3	181.7	160.2
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 weeks after sowing	196.3	264.5	194.3	218.4	141.5	158.6	179.7	159.9
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	195.7	267.9	191.7	218.4	139.2	162.1	178.0	159.8
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	189.7	256.3	193.3	213.1	140.6	161.1	175.0	158.9
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	197.3	274.1	189.7	220.4	139.7	159.7	180.3	159.9
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	190.3	258.3	196.0	214.9	139.3	159.3	178.0	158.9
CD at 5 %	9.6	11.6	NS		NS	NS	NS	
CV (%)	2.9	2.6	5.8		3.5	2.7	2.4	

Table II.48: PMAT 3A: Effect of foliar application of nano DAP on gross returns and net returns of pearl millet in Zone A during *kharif* 2024 and *kharif* 2025

Treatment	Gross returns (Rs/ha)							Net returns (Rs/ha)						
	HSR			JMR			Zonal mean	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control	68052	64933	66492	38249	60772	49511	**58001**	17350	10776	14063	17479	38772	28126	**21094**
T_2 : RDP	120415	112144	116279	65908	92992	79450	**97865**	66093	54386	60240	41773	67627	54700	**57470**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	100816	94273	97544	51676	80413	66045	**81794**	47946	36788	42367	28087	55594	41841	**42104**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	92585	84529	88557	46178	71199	58689	**73623**	40643	27937	34290	23157	46948	35053	**34671**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	104764	96694	100729	52456	81502	66979	**83854**	49514	36809	43162	27139	54955	41047	**42104**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	107832	98045	102939	53963	83912	68938	**85938**	50782	34591	42686	27218	55937	41578	**42132**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	108706	99360	104033	58643	86166	72405	**88219**	51076	33505	42290	31598	57891	44745	**43517**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	98667	87706	93186	47008	76843	61926	**77556**	41935	22743	32339	20531	49136	34834	**33586**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	109194	101226	105210	64939	95588	80264	**92737**	47964	31171	39568	35038	64457	49748	**44658**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	102180	90830	96505	49524	79561	64543	**80524**	41848	21668	31758	20191	48998	34595	**33176**

Table II.49: PMAT 3A: Effect of foliar application of nano DAP on BC ratio and protein content of pearl millet in Zone A during *kharif* 2024 and *kharif* 2025

Treatment	BC ratio							Protein content (%)						
	HSR			JMR			Zonal mean	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control	1.34	1.20	1.27	1.84	2.76	2.30	**1.79**	8.67	8.25	8.46	8.92	8.68	8.80	**8.63**
T_2 : RDP	2.22	1.94	2.08	2.73	3.67	3.20	**2.64**	9.38	9.00	9.19	10.70	10.18	10.44	**9.81**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	1.91	1.64	1.77	2.19	3.24	2.72	**2.24**	8.92	8.71	8.82	9.67	10.22	9.95	**9.38**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	1.78	1.49	1.64	2.01	2.94	2.48	**2.06**	8.73	8.47	8.60	9.15	9.48	9.31	**8.96**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	1.90	1.61	1.76	2.07	3.07	2.57	**2.16**	9.02	8.71	8.86	9.72	10.29	10.00	**9.43**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	1.89	1.55	1.72	2.02	3.00	2.51	**2.11**	9.08	8.73	8.91	9.80	10.51	10.15	**9.53**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	1.89	1.51	1.70	2.17	3.05	2.61	**2.15**	9.11	8.79	8.95	10.39	10.70	10.55	**9.75**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	1.74	1.35	1.54	1.78	2.77	2.28	**1.91**	8.88	8.67	8.77	9.24	9.80	9.52	**9.15**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.78	1.44	1.61	2.17	3.07	2.62	**2.12**	9.19	8.94	9.06	10.55	11.02	10.79	**9.92**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.69	1.31	1.50	1.69	2.60	2.15	**1.82**	8.94	8.77	8.86	9.48	10.17	9.83	**9.34**
CD at 5 %	-	-		-	-			0.26	NS		0.59	0.65		
CV (%)	-	-		-	-			1.7	2.8		3.5	3.7		

Table II.50: PMAT 3A: Effect of foliar application of nano DAP on N and P content in grain of pearl millet in Zone A during *kharif* 2024 and *kharif* 2025

Treatment	N Content in grain (%)							P Content in grain (%)						
	HSR			JMR			Zonal mean	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control	1.39	1.32	1.35	1.37	1.39	1.38	**1.37**	0.33	0.27	0.30	0.26	0.26	0.26	**0.28**
T_2 : RDP	1.50	1.44	1.47	1.65	1.63	1.64	**1.55**	0.38	0.35	0.37	0.34	0.35	0.34	**0.36**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	1.43	1.39	1.41	1.49	1.64	1.56	**1.49**	0.36	0.32	0.34	0.30	0.30	0.30	**0.32**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	1.40	1.36	1.38	1.41	1.52	1.46	**1.42**	0.33	0.30	0.32	0.28	0.33	0.31	**0.31**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	1.44	1.39	1.42	1.50	1.65	1.57	**1.49**	0.37	0.33	0.35	0.31	0.30	0.31	**0.33**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	1.45	1.40	1.43	1.51	1.68	1.59	**1.51**	0.38	0.33	0.36	0.31	0.31	0.31	**0.33**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	1.46	1.41	1.43	1.60	1.71	1.66	**1.54**	0.38	0.34	0.36	0.32	0.32	0.32	**0.34**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	1.42	1.39	1.40	1.42	1.57	1.50	**1.45**	0.35	0.31	0.33	0.29	0.28	0.29	**0.31**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.47	1.43	1.45	1.62	1.76	1.69	**1.57**	0.38	0.34	0.36	0.33	0.36	0.35	**0.35**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.43	1.40	1.42	1.46	1.63	1.54	**1.48**	0.36	0.32	0.34	0.29	0.29	0.29	**0.31**
CD at 5 %	0.04	NS		0.09	0.10			0.03	0.03		0.02	0.02		
CV (%)	1.7	2.8		3.5	3.7			4.3	5.0		3.7	3.9		

Table II.51: PMAT 3A: Effect of foliar application of nano DAP on N and P content in fodder of pearl millet in Zone A during *kharif* 2024 and *kharif* 2025

Treatment	N Content fodder (%)							P Content fodder (%)						
	HSR			JMR			Zonal mean	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	
T_1 : Control	0.34	0.33	0.34	1.01	1.12	1.06	**0.70**	0.18	0.16	0.17	0.19	0.19	0.19	**0.18**
T_2 : RDP	0.42	0.40	0.41	1.36	1.42	1.39	**0.90**	0.23	0.22	0.23	0.25	0.28	0.27	**0.25**
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	0.37	0.37	0.37	1.15	1.30	1.23	**0.80**	0.19	0.20	0.19	0.21	0.21	0.21	**0.20**
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	0.33	0.35	0.34	1.02	1.20	1.11	**0.72**	0.16	0.18	0.17	0.19	0.20	0.19	**0.18**
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	0.39	0.38	0.39	1.22	1.32	1.27	**0.83**	0.20	0.20	0.20	0.22	0.25	0.23	**0.22**
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	0.40	0.38	0.39	1.30	1.36	1.33	**0.86**	0.21	0.21	0.21	0.23	0.25	0.24	**0.23**
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.40	0.39	0.39	1.31	1.39	1.35	**0.87**	0.22	0.21	0.21	0.23	0.26	0.24	**0.23**
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.35	0.37	0.36	1.03	1.21	1.12	**0.74**	0.20	0.19	0.19	0.19	0.21	0.20	**0.20**
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.40	0.40	0.40	1.35	1.46	1.41	**0.90**	0.22	0.22	0.22	0.24	0.28	0.26	**0.24**
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.36	0.38	0.37	1.05	1.23	1.14	**0.76**	0.21	0.20	0.20	0.20	0.22	0.21	**0.20**
CD at 5 %	0.04	NS		0.08	0.13			0.04	0.03		0.01	0.02		
CV (%)	5.9	6.6		4.1	5.7			10.7	7.8		3.9	4.8		

Table II.52: PMAT 2a: Effect of foliar application of nano DAP on av. NPK in soil after harvest and K content in grain and fodder of pearl millet in Hisar centre of Zone A during *kharif* 2024 and *kharif* 2025

Treatment	K Content in Hisar (%)						Av. N in soil (kg/ha)		Av. P2O5 in soil (kg/ha)			Av. K2O in soil (kg/ha)		
	Grain			Fodder			Hisar		Hisar			Hisar		
	2024	2025	Mean	2024	2025	Mean	2025	Mean	2024	2025	Mean	2024	2025	Mean
T_1 : Control	0.23	0.28	0.25	1.52	1.51	1.52	192.0	192.0	20.20	19.18	19.69	174.8	176.3	175.6
T_2 : RDP	0.31	0.32	0.32	1.73	1.64	1.69	187.7	187.7	21.80	21.92	21.86	176.6	175.0	175.8
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	0.27	0.31	0.29	1.68	1.59	1.64	188.3	188.3	20.77	20.52	20.64	174.3	174.4	174.4
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	0.25	0.29	0.27	1.65	1.56	1.60	189.7	189.7	20.57	20.15	20.36	174.6	175.9	175.3
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	0.28	0.31	0.29	1.69	1.60	1.64	187.3	187.3	20.97	20.82	20.90	174.3	174.8	174.5
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	0.29	0.30	0.29	1.70	1.61	1.66	190.0	190.0	21.13	21.00	21.07	174.1	175.1	174.6
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.30	0.32	0.31	1.70	1.63	1.67	189.0	189.0	21.17	21.09	21.13	174.0	174.5	174.2
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.26	0.29	0.28	1.66	1.59	1.63	190.7	190.7	20.80	20.46	20.63	174.5	175.3	174.9
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.30	0.32	0.31	1.70	1.64	1.67	189.0	189.0	21.30	21.38	21.34	174.1	174.7	174.4
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.27	0.30	0.28	1.67	1.60	1.64	191.0	191.0	20.97	20.64	20.80	174.4	175.2	174.8
CD at 5 %	0.04	NS		0.05	NS		NS		NS	1.12		NS	NS	
CV (%)	8.4	5.6		1.8	3.7		3.0		3.7	3.1		1.7	1.8	

Table II.53: PMAT 3B: Effect of foliar application of nano DAP on grain yield of pearl millet in Zone B during *kharif* 2024 and *kharif* 2025

Treatment	Grain yield (q/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	16.08	14.92	15.50	18.06	18.14	18.10	17.79	16.04	16.92	22.33	22.83	22.58	18.27
T_2 : RDP	26.93	25.46	26.20	30.78	31.52	31.15	22.17	21.25	21.71	30.63	31.94	31.29	27.59
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	23.63	21.03	22.33	26.40	26.90	26.65	19.83	18.86	19.35	27.00	26.37	26.69	23.75
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	22.42	19.41	20.91	22.68	24.01	23.35	18.82	18.37	18.59	25.74	25.13	25.43	22.07
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	24.15	19.73	21.94	27.10	28.21	27.65	20.19	19.13	19.66	31.09	31.84	31.46	25.18
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	25.71	21.03	23.37	28.42	29.25	28.84	20.89	20.22	20.55	28.69	29.12	28.91	25.42
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	24.59	22.22	23.41	29.13	31.07	30.10	22.21	21.93	22.07	31.93	32.05	31.99	26.89
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	23.03	20.81	21.92	24.79	28.76	26.77	21.34	19.25	20.30	27.77	27.61	27.69	24.17
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	26.75	23.62	25.19	23.64	27.89	25.77	24.68	23.78	24.23	31.99	32.67	32.33	26.88
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	24.37	21.77	23.07	25.58	28.65	27.12	22.11	20.82	21.47	28.53	28.84	28.68	25.08
CD at 5 %	5.20	3.05		4.89	3.36		NS	3.89		3.57	4.16		
CV (%)	12.7	8.4		11.0	7.1		12.2	11.3		7.2	8.3		

Table II.54: PMAT 3B: Effect of foliar application of nano DAP on dry stover yield of pearl millet in Zone B during *kharif* 2024 *and kharif* 2025

Treatment	Dry fodder yield(q/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	34.84	34.32	34.58	33.47	33.96	33.71	54.82	44.54	49.68	33.42	34.24	33.83	37.95
T_2 : RDP	58.48	59.07	58.78	57.04	59.01	58.02	62.41	54.66	58.53	46.74	48.55	47.64	55.74
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	50.44	48.16	49.30	48.92	50.36	49.64	59.35	50.21	54.78	39.65	40.28	39.97	48.42
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	48.24	44.64	46.44	42.03	44.95	43.49	57.71	49.42	53.57	37.37	37.94	37.66	45.29
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	52.14	45.18	48.66	50.21	52.81	51.51	62.89	50.79	56.84	47.81	48.67	48.24	51.31
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	55.19	48.37	51.78	52.66	54.76	53.71	63.19	51.92	57.56	43.98	44.26	44.12	51.79
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	52.27	51.33	51.80	53.98	58.16	56.07	61.04	55.81	58.43	48.44	48.35	48.40	53.67
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	56.28	47.65	51.97	45.93	53.83	49.88	58.66	51.67	55.16	41.38	41.86	41.62	49.66
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	57.02	54.32	55.67	43.81	52.22	48.01	62.75	56.92	59.84	48.92	49.25	49.08	53.15
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	50.20	49.84	50.02	47.39	53.64	50.52	59.91	52.57	56.24	42.92	43.51	43.22	50.00
CD at 5 %	9.86	7.02		9.06	6.28		NS	6.36		4.76	5.75		
CV (%)	11.1	8.4		11.0	7.1		7.3	7.1		6.4	7.6		

Table II.55: PMAT 3B: Effect of foliar application of nano DAP on gross returns of pearl millet in Zone B during *kharif* 2024 *and kharif* 2025

Treatment	Gross returns (Rs/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	54410	51623	53017	47828	48070	47949	41800	38494	40147	55883	63923	59903	50254
T_2 : RDP	91124	88203	89663	81513	83529	82521	52103	51000	51551	76645	89560	83103	76709
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	79812	72733	76273	69915	71280	70597	46592	45272	45932	67559	73981	70770	65893
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	75794	67147	71470	60064	63625	61844	44225	44083	44154	64398	70413	67406	61219
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	81663	68215	74939	71766	74745	73256	47446	45917	46682	77788	89334	83561	69609
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	86872	72764	79818	75260	77506	76383	49089	48522	48806	71791	81652	76722	70432
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	82981	76935	79958	77148	82326	79737	52206	52628	52417	79906	89795	84851	74241
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	79184	71950	75567	65648	76193	70921	50155	46205	48180	69479	77397	73438	67026
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	90329	81714	86021	62608	73911	68260	57999	57066	57533	80057	91525	85791	74401
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	81920	75269	78595	67732	75923	71828	51967	49972	50970	71381	80802	76092	69371
CD at 5 %	16614	10548		12950	8891		NS	9343		-	-		
CV (%)	12	8		11	7		12	11		-	-		

Table II.56: PMAT 3B: Effect of foliar application of nano DAP on net returns of pearl millet in Zone B during *kharif* 2024 *and kharif* 2025

Treatment	Net returns (Rs/ha)												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	27910	24023	25967	19984	17442	18713	26539	22776	24657	19795	26535	23165	23125
T_2 : RDP	59624	56553	58088	51419	50426	50922	35126	33514	34320	38557	50172	44365	46924
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	49362	42133	45748	40364	38774	39569	30015	28198	29107	29721	34843	32282	36676
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	46594	37647	42120	31076	31738	31407	28077	27451	27764	27060	31775	29418	32677
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	51013	37615	44314	40015	39819	39917	28897	26811	27854	40450	50696	45573	39414
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	56122	41864	48993	41959	40875	41417	29040	27872	28456	34203	42764	38484	39337
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	52131	45985	49058	43147	44925	44036	31657	31462	31560	40068	48657	44363	42254
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	49784	41450	45617	34410	41831	38121	30035	25482	27759	29891	36509	33200	36174
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	59479	50514	54996	28657	36565	32611	34450	32811	33631	41469	51637	46553	41948
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	52420	45369	48895	34244	39086	36665	28847	26158	27503	33543	41664	37604	37666
CD at 5 %	16614	10548		12950	8891		NS	NS		-	-		
CV (%)	19	14		21	13		20	19		-	-		

Table II.57: PMAT 3B: Effect of foliar application of nano DAP on BC ratio of pearl millet in Zone B during *kharif* 2024 *and kharif 2025*

Treatment	BC ratio												Zone Mean
	ABD1			DHL			VYP			CBE			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	2.05	1.87	1.96	1.72	1.57	1.65	2.74	2.45	2.59	1.55	1.71	1.63	1.96
T_2 : RDP	2.89	2.79	2.84	2.71	2.52	2.62	3.07	2.92	3.00	2.01	2.27	2.14	2.65
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	2.62	2.38	2.50	2.37	2.19	2.28	2.81	2.65	2.73	1.79	1.89	1.84	2.34
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	2.59	2.28	2.44	2.07	2.00	2.04	2.74	2.65	2.70	1.72	1.82	1.77	2.23
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	2.66	2.23	2.45	2.26	2.14	2.20	2.56	2.40	2.48	2.08	2.31	2.20	2.33
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	2.82	2.36	2.59	2.26	2.11	2.19	2.45	2.35	2.40	1.91	2.10	2.01	2.30
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	2.69	2.49	2.59	2.27	2.20	2.23	2.54	2.49	2.51	2.01	2.18	2.10	2.36
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	2.69	2.36	2.52	2.10	2.22	2.16	2.49	2.23	2.36	1.76	1.89	1.83	2.22
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	2.93	2.62	2.77	1.84	1.98	1.91	2.47	2.35	2.41	2.07	2.29	2.18	2.32
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	2.78	2.52	2.65	2.02	2.06	2.04	2.25	2.10	2.17	1.89	2.06	1.98	2.21
CD at 5 %	NS	0.34		0.4	0.25		NS	NS		-	-		
CV (%)	12.1	8.34		11.4	7.0		13.3	10.8		-	-		

Table II.58: PMAT 3B: Effect of foliar application of nano DAP on total tillers/plant, effective tillers/plant and test weight of pearl millet in Zone B during *kharif* 2025

Treatments	Total tillers/plant					Effective tillers/plant					Test weight (g)				
	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean
T_1 : Control	3.7	3.4	2.9	3.3	3.3	2.8	2.3	1.9	2.7	2.4	12.5	11.6	11.7	11.4	11.8
T_2 : RDP	6.1	4.4	3.3	4.4	4.6	5.1	3.3	2.7	3.7	3.7	15.8	12.3	12.8	13.7	13.6
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	5.1	4.1	3.1	4.0	4.1	4.1	3.1	2.1	3.2	3.1	14.7	12.1	12.1	12.2	12.8
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	4.9	4.1	3.1	3.9	4.0	3.9	3.0	2.1	3.0	3.0	14.5	12.1	12.1	12.1	12.7
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	4.9	4.2	3.1	4.4	4.2	3.9	3.1	2.3	3.7	3.2	14.7	12.2	12.1	13.5	13.1
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	5.2	4.2	3.2	4.2	4.2	4.2	3.2	2.3	3.6	3.3	15.5	12.2	12.1	13.1	13.2
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	5.4	4.3	3.5	4.5	4.4	4.4	3.2	2.9	3.7	3.5	14.5	12.3	12.8	13.6	13.3
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	5.2	4.1	3.1	4.1	4.1	4.2	3.0	2.5	3.3	3.3	16.1	12.1	12.4	12.4	13.3
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	5.2	4.0	3.5	4.5	4.3	4.8	3.0	3.0	3.7	3.6	15.3	12.1	13.0	13.7	13.5
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	5.0	4.0	3.3	4.2	4.1	4.0	3.1	2.5	3.42	3.3	15.8	12.1	12.4	12.9	13.3
CD at 5 %	1.1	0.2	0.2	0.3		1.0	0.3	0.2	0.5		1.9	0.3	NS	0.6	
CV (%)	12.3	3.4	4.0	3.6		13.6	6.4	5.0	9.0		7.3	1.2	5.4	2.9	

Table II.59: PMAT 3B: Effect of foliar application of nano DAP on plant height and plant populations of pearl millet in Zone B during *kharif* 2025

Treatments	Plant height (cm)					Plant population ('000/ha)				
	ABD1	DHL	VYP	CBE	Mean	ABD1	DHL	VYP	CBE	Mean
T_1 : Control	164.7	191.0	163.4	158.3	169.3	216.6	128.7	136.1	116.7	149.5
T_2 : RDP	186.1	201.7	171.5	190.5	187.4	217.4	135.1	140.0	137.7	157.6
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	174.6	197.7	165.9	164.3	175.6	215.9	135.2	137.7	124.3	153.3
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	172.0	195.7	166.0	159.9	173.4	216.6	133.8	135.9	121.7	152.0
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	173.4	197.0	167.3	188.6	181.6	217.2	134.7	138.2	138.7	157.2
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	174.0	198.3	168.5	182.4	180.8	219.5	135.3	134.5	134.3	155.9
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	178.3	199.7	173.7	191.3	185.8	217.4	135.4	136.3	140.3	157.4
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	175.5	196.7	169.1	172.5	178.4	218.0	134.4	135.9	127.7	154.0
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	178.3	195.3	177.5	193.3	186.1	218.2	134.4	138.2	142.7	158.4
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	172.7	196.7	171.6	177.8	179.7	216.2	134.7	135.6	131.3	154.5
CD at 5 %	8.2	4.9	7.9	7.7		NS	1.7	NS	8.0	
CV (%)	2.7	1.5	2.7	2.5		0.8	0.7	2.8	3.5	

Table II.60: PMAT 3B: Effect of foliar application of nano DAP on protein content, N content from grain after harveast of pearl millet in Zone B during kharif 2024 and 2025

Treatment	Protein content (%)								N Content from grain (%)							
	DHL	VYP			CBE			Zonal mean	DHL	VYP			CBE			Zonal mean
	2024	2024	2025	Mean	2024	2025	Mean		2024	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	9.63	11.48	11.71	11.60	10.32	10.42	10.37	10.53	1.56	1.84	1.87	1.86	1.18	1.12	1.15	1.52
T_2 : RDP	9.81	13.18	12.11	12.64	11.18	11.56	11.37	11.27	1.56	2.11	1.94	2.02	1.39	1.42	1.41	1.66
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	9.81	12.70	11.57	12.14	10.56	10.59	10.57	10.84	1.56	2.03	1.85	1.94	1.22	1.23	1.22	1.58
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	9.88	11.28	11.21	11.24	10.48	10.52	10.50	10.54	1.56	1.81	1.79	1.80	1.18	1.19	1.19	1.51
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	9.88	11.84	12.75	12.30	11.28	11.31	11.30	11.16	1.57	1.90	2.04	1.97	1.41	1.44	1.43	1.65
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	9.94	12.47	12.97	12.72	10.86	10.92	10.89	11.18	1.58	2.00	2.07	2.03	1.33	1.36	1.35	1.65
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	9.75	12.80	13.15	12.97	11.32	11.35	11.34	11.35	1.57	2.05	2.10	2.08	1.43	1.47	1.45	1.70
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	9.75	11.05	12.46	11.76	10.68	10.72	10.70	10.73	1.57	1.77	1.99	1.88	1.28	1.31	1.30	1.58
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	9.75	12.34	13.41	12.88	11.35	11.38	11.37	11.33	1.58	1.98	2.15	2.06	1.46	1.53	1.50	1.71
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	9.81	12.09	11.68	11.89	10.73	10.85	10.79	10.83	1.57	1.94	1.87	1.90	1.31	1.34	1.32	1.60
CD at 5 %	NS	NS	1.24		0.42	0.28			NS	NS	0.20		0.17	0.20		
CV (%)	1.8	18.9	5.8		2.2	1.5			3.4	18.9	5.8		7.4	8.5		

Table II.61: PMAT 3B: Effect of foliar application of nano DAP on P content from grain after harveast of pearl millet in Zone B during kharif 2024 and 2025

Treatment	P Content from grain (%)							
	DHL	VYP			CBE			Zonal mean
	2024	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	0.46	0.24	0.19	0.22	0.19	0.20	0.19	0.29
T_2 : RDP	0.48	0.37	0.28	0.32	0.25	0.26	0.26	0.35
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	0.47	0.29	0.27	0.28	0.23	0.23	0.23	0.33
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	0.47	0.27	0.24	0.25	0.22	0.23	0.22	0.32
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	0.49	0.28	0.31	0.30	0.26	0.26	0.26	0.35
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	0.50	0.34	0.29	0.32	0.24	0.25	0.25	0.35
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.50	0.29	0.30	0.29	0.26	0.27	0.26	0.35
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.49	0.32	0.19	0.25	0.23	0.24	0.23	0.32
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.50	0.35	0.32	0.33	0.27	0.27	0.27	0.37
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.49	0.31	0.21	0.26	0.24	0.24	0.24	0.33
CD at 5 %	NS	0.07	0.08		0.02	0.03		
CV (%)	10.3	13.6	17.4		5.5	5.9		

Table II.62: PMAT 3B: Effect of foliar application of nano DAP on N & P content from fodder after harveast of pearl millet in Zone B during kharif 2024 and 2025

Treatment	N Content from fodder %)								P Content from fodder (%)							
	DHL	VYP			CBE			Zonal mean	DHL	VYP			CBE			Zonal mean
	2024	2024	2025	Mean	2024	2025	Mean		2024	2024	2025	Mean	2024	2025	Mean	
T_1 : Control	1.00	0.20	0.15	0.17	0.50	0.51	0.50	0.56	0.29	0.08	0.08	0.08	0.13	0.13	0.13	0.17
T_2 : RDP	1.02	0.33	0.21	0.27	0.58	0.58	0.58	0.62	0.31	0.13	0.10	0.12	0.18	0.18	0.18	0.20
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	1.01	0.23	0.20	0.22	0.53	0.53	0.53	0.59	0.30	0.12	0.08	0.10	0.14	0.14	0.14	0.18
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	1.01	0.22	0.16	0.19	0.52	0.53	0.53	0.57	0.30	0.10	0.10	0.10	0.14	0.14	0.14	0.18
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	1.03	0.20	0.20	0.20	0.58	0.59	0.58	0.61	0.32	0.12	0.09	0.11	0.18	0.18	0.18	0.20
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	1.03	0.22	0.26	0.24	0.56	0.57	0.57	0.61	0.32	0.12	0.09	0.11	0.17	0.17	0.17	0.20
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	1.04	0.25	0.21	0.23	0.59	0.59	0.59	0.62	0.33	0.12	0.10	0.11	0.18	0.18	0.18	0.21
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	1.03	0.26	0.14	0.20	0.54	0.55	0.55	0.59	0.32	0.12	0.08	0.10	0.15	0.15	0.15	0.19
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.05	0.32	0.25	0.28	0.59	0.59	0.59	0.64	0.33	0.13	0.10	0.12	0.18	0.19	0.18	0.21
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	1.04	0.28	0.16	0.22	0.56	0.56	0.56	0.61	0.33	0.12	0.09	0.10	0.16	0.16	0.16	0.20
CD at 5 %	NS	NS	0.07		0.03	0.03			NS	NS	NS		0.02	0.02		
CV (%)	6.0	30.7	21.3		3.1	3.2			14.5	15.9	18.6		8.7	7.2		

Table II.63: PMAT 3B: Effect of foliar application of nano DAP on soil chemical properties after harveast of pearl millet in Zone B during kharif 2024 and 2025

Treatments	Soil status after harvest																	
	OC (%)	pH	EC (dS/m)	Available N (kg/ha)					Available P (kg/ha)					Available K (kg/ha)				
	DHL			DHL	VYP			Zonal mean	DHL	VYP			Zonal mean	DHL	VYP			Zonal mean
	2024			2024	2024	2025	Mean		2024	2024	2025	Mean		2024	2024	2025	Mean	
T_1 : Control	0.47	8.19	0.40	198.0	186.1	168.2	177.2	187.6	13.6	18.3	17.5	17.9	15.8	478.0	388.8	399.0	393.9	435.9
T_2 : RDP	0.47	8.22	0.44	202.0	197.7	179.3	188.5	195.2	15.9	21.9	21.3	21.6	18.8	472.0	414.0	390.2	402.1	437.0
T_3 : 75% RDP + seed treatment of nano DAP 5 ml/kg seed	0.47	8.21	0.43	198.0	193.9	182.7	188.3	193.2	15.9	20.6	20.3	20.5	18.2	474.0	401.8	395.2	398.5	436.2
T_4 : 50% RDP + seed treatment of nano DAP 5 ml/kg seed	0.47	8.21	0.42	198.0	188.1	180.2	184.1	191.1	15.9	19.6	19.8	19.7	17.8	474.0	397.8	379.2	388.5	431.3
T_5 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 WAS	0.47	8.21	0.43	192.0	192.2	185.4	188.8	190.4	15.9	20.9	21.9	21.4	18.6	476.0	410.6	416.2	413.4	444.7
T_6 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 WAS	0.47	8.21	0.43	192.0	197.2	188.6	192.9	192.5	15.9	20.9	22.3	21.6	18.7	475.0	401.1	395.0	398.1	436.5
T_7 : T_3 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.46	8.21	0.43	193.0	193.0	184.7	188.9	190.9	15.9	21.3	21.1	21.2	18.5	474.0	409.4	403.2	406.3	440.1
T_8 : T_4 + foliar spray of nano DAP 2.5 ml/l at 3 & 5 WAS	0.47	8.20	0.42	194.0	196.7	179.8	188.3	191.1	15.9	19.5	20.4	20.0	17.9	476.0	410.7	392.3	401.5	438.8
T_9 : T_3 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.47	8.21	0.43	194.0	194.2	184.6	189.4	191.7	15.9	20.5	20.7	20.6	18.2	475.0	400.3	400.9	400.6	437.8
T_{10}: T_4 + foliar spray of nano DAP 5.0 ml/l at 3 & 5 WAS	0.47	8.20	0.42	195.0	189.9	178.5	184.2	189.6	15.9	19.5	22.1	20.8	18.3	476.0	411.1	393.0	402.1	439.0
CD at 5 %	-	-	-	-	NS	10.1			-	NS	2.3			-	NS	NS		
CV (%)	-	-	-	-	3.8	3.2			-	6.5	6.3			-	3.4	5.9		
Initial (Dhule)	0.5	8.2	0.4	204.0	-	-			15.4	-	-			469.0	-	-		

Table II.64: PMAT 4A: Effect of pearl millet based inter cropping system on grain yield of pearlmillet and sole millets & moong under rainfed conditions during kharif 2024 and kharif 2025 in Zone A

Treatment	Grain yield (q/ha)									Zonal mean
	HSR			JMR			JPR			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T1: Sole pearl millet (45 cm x 10 cm)	41.88	33.50	37.69	24.49	27.75	26.12	-	20.38	20.38	**28.06**
T2: Sole Proso millet (30 cm x 5 cm)	5.42	4.36	4.89	11.30	15.42	13.36	-	9.08	9.08	**9.11**
T3: Sole Foxtail millet (30 cm x 5 cm)	3.93	5.85	4.89	10.28	18.88	14.58	-	7.67	7.67	**9.04**
T4: Sole Little millet (30 cm x 5 cm)	-	4.30	4.30	20.18	19.78	19.98	-	2.38	2.38	**8.89**
T5: Sole Barnyard millet (30 cm x 5 cm)	9.65	13.10	11.38	23.38	26.98	25.18	-	13.38	13.38	**16.64**
T6: Sole mungbean (30 cm x 5 cm)	3.90	5.55	4.73	12.67	12.72	12.70	-	6.89	6.89	**8.11**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	37.57	28.16	32.87	13.95	18.29	16.12	-	16.31	16.31	**21.77**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	38.11	29.21	33.66	14.77	20.83	17.80	-	19.57	19.57	**23.68**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	37.84	24.23	31.03	12.61	14.30	13.46	-	17.01	17.01	**20.50**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	32.92	13.86	23.39	12.54	13.43	12.98	-	15.82	15.82	**17.40**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	39.07	24.59	31.83	19.99	21.56	20.77	-	18.53	18.53	**23.71**

Table II.65: PMAT 4A: Effect of pearl millet based inter cropping system on fodder yield of pearlmillet and sole millets & moong under rainfed conditions during kharif 2024 and kharif 2025in Zone A

Treatment	Fodder yield (q/ha)									Zonal mean
	HSR			JMR			JPR			
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T1: Sole pearl millet (45 cm x 10 cm)	118.57	92.67	105.62	37.27	42.99	40.13	-	48.00	48.00	**64.58**
T2: Sole Proso millet (30 cm x 5 cm)	26.28	23.70	24.99	13.89	16.99	15.44	-	19.20	19.20	**19.88**
T3: Sole Foxtail millet (30 cm x 5 cm)	20.46	47.11	33.79	12.10	14.86	13.48	-	15.45	15.45	**20.91**
T4: Sole Little millet (30 cm x 5 cm)	66.02	76.87	71.44	63.52	65.31	64.41	-	4.48	4.48	**46.78**
T5: Sole Barnyard millet (30 cm x 5 cm)	55.33	78.55	66.94	55.52	53.63	54.57	-	35.49	35.49	**52.34**
T6: Sole mungbean (30 cm x 5 cm)	10.77	23.52	17.14	13.21	14.26	13.74	-	15.03	15.03	**15.30**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	111.21	85.54	98.37	21.40	26.85	24.12	-	38.47	38.47	**53.66**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	113.19	82.33	97.76	21.58	27.98	24.78	-	40.96	40.96	**54.50**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	116.41	76.38	96.40	19.69	25.74	22.71	-	37.14	37.14	**52.09**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	99.68	43.31	71.49	18.42	23.94	21.18	-	39.07	39.07	**43.91**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	116.53	79.76	98.14	29.64	36.32	32.98	-	41.59	41.59	**57.57**

Table II.66: PMAT 4A: Effect of pearl millet based inter cropping system on pearl millet equivalent yield under rainfed conditions during kharif 2024 and kharif 2025 in Zone A

Treatment	PMEY (q/ha)									
	HSR			JMR			JPR			Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	
T1: Sole pearl millet (45 cm x 10 cm)	50.92	40.18	45.55	24.49	27.75	26.12	-	20.38	20.38	**30.68**
T2: Sole Proso millet (30 cm x 5 cm)	9.23	9.39	9.31	22.58	30.85	26.71	-	29.06	29.06	**21.69**
T3: Sole Foxtail millet (30 cm x 5 cm)	1.56	11.07	6.32	20.56	37.76	29.16	-	24.53	24.53	**20.00**
T4: Sole Little millet (30 cm x 5 cm)	11.01	13.97	12.49	32.28	31.65	31.96	-	7.63	7.63	**17.36**
T5: Sole Barnyard millet (30 cm x 5 cm)	18.93	11.85	15.39	37.40	37.62	37.51	-	42.83	42.83	**31.91**
T6: Sole mungbean (30 cm x 5 cm)	13.83	19.23	16.53	38.01	38.17	38.09	-	22.06	22.06	**25.56**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	46.59	35.81	41.20	27.37	36.24	31.80	-	24.02	24.02	**32.34**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	47.86	38.36	43.11	27.51	43.15	35.33	-	29.07	29.07	**35.84**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	47.67	29.73	38.70	30.53	35.49	33.01	-	20.02	20.02	**30.58**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	47.72	21.22	34.47	34.72	40.54	37.63	-	38.73	38.73	**36.94**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	50.69	39.13	44.91	41.43	46.31	43.87	-	28.67	28.67	**39.15**
CD at 5 %	3.41	3.29	3.35	7.21	9.87		-	4.80		
CV (%)	6.3	7.8	7.1	10.4	11.9		-	10.7		

Table II.67: PMAT 4A: Effect of pearl millet based inter cropping system on gross returns of sole millets and moong bean and intercrop with pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Zone A

Treatment	Gross returns (Rs/ha)						
	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean	
T1: Sole pearl millet (45 cm x 10 cm)	133657	111497	122577	61225	69350	65288	**93932**
T2: Sole Proso millet (30 cm x 5 cm)	24221	26040	25130	56450	77125	66788	**45959**
T3: Sole Foxtail millet (30 cm x 5 cm)	4095	30722	17408	51400	94400	72900	**45154**
T4: Sole Little millet (30 cm x 5 cm)	28909	38760	33835	80700	79100	79900	**56867**
T5: Sole Barnyard millet (30 cm x 5 cm)	49683	32894	41289	93500	94050	93775	**67532**
T6: Sole mungbean (30 cm x 5 cm)	36312	53366	44839	95025	95425	95225	**70032**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	122307	99360	110833	68425	90600	79513	**95173**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	125640	106456	116048	68775	107875	88325	**102187**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	125142	82504	103823	76325	88725	82525	**93174**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	125265	58900	92082	86800	101325	94063	**93072**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	133061	108576	120818	103575	115775	109675	**115247**

Table II.68: PMAT 4A: Effect of pearl millet based inter cropping system on net returns of sole millets and moong bean and intercrop with pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Zone A

Treatment	Net returns (Rs/ha)						
	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean	
T1: Sole pearl millet (45 cm x 10 cm)	86159	63910	75035	33438	41563	37501	**56268**
T2: Sole Proso millet (30 cm x 5 cm)	-22827	-21047	-21937	30476	51151	40814	**9438**
T3: Sole Foxtail millet (30 cm x 5 cm)	-43003	-16365	-29684	25426	68426	46926	**8621**
T4: Sole Little millet (30 cm x 5 cm)	-18139	-8327	-13233	54726	53126	53926	**20347**
T5: Sole Barnyard millet (30 cm x 5 cm)	2585	-14193	-5804	67526	68076	67801	**30999**
T6: Sole mungbean (30 cm x 5 cm)	-12525	4041	-4242	65574	65974	65774	**30766**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	73312	50126	61719	35116	57291	46204	**53961**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	76595	57221	66908	35466	74566	55016	**60962**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	76217	33269	54743	43016	55416	49216	**51979**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	76220	9665	42942	53491	68016	60754	**51848**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	84963	58251	71607	68527	80727	74627	**73117**

Table II.69: PMAT 4A: Effect of pearl millet based inter cropping system on BC ratio of sole millets and moong bean and intercrop with pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Zone A

Treatment	BC ratio						
	HSR			JMR			Zonal mean
	2024	2025	Mean	2024	2025	Mean	
T1: Sole pearl millet (45 cm x 10 cm)	2.81	2.34	2.58	2.20	2.50	2.35	**2.46**
T2: Sole Proso millet (30 cm x 5 cm)	0.51	0.55	0.53	2.17	2.97	2.57	**1.55**
T3: Sole Foxtail millet (30 cm x 5 cm)	0.09	0.65	0.37	1.98	3.63	2.81	**1.59**
T4: Sole Little millet (30 cm x 5 cm)	0.61	0.82	0.72	3.11	3.05	3.08	**1.90**
T5: Sole Barnyard millet (30 cm x 5 cm)	1.05	0.70	0.88	3.60	3.62	3.61	**2.24**
T6: Sole mungbean (30 cm x 5 cm)	0.74	1.08	0.91	3.23	3.24	3.24	**2.07**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.50	2.02	2.26	2.05	2.72	2.39	**2.32**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.56	2.16	2.36	2.06	3.24	2.65	**2.51**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.56	1.68	2.12	2.29	2.66	2.48	**2.30**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.55	1.20	1.88	2.61	3.04	2.83	**2.35**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.77	2.16	2.46	2.96	3.30	3.13	**2.80**

Table II.70: PMAT 4B: Effect of millets & mungbean based intercropping systems on grain yield of pearl millet, sole millets and moong under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	Grain yield (q/ha)										
	ABD1			CBE			VYP			DHL	Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	26.83	25.41	26.12	33.96	31.83	32.89	17.10	26.18	21.64	24.02	**26.17**
T2: Sole Proso millet (30 cm x 5 cm)	10.45	9.93	10.19	19.66	18.01	18.83	14.62	19.42	17.02	15.29	**15.33**
T3: Sole Foxtail millet (30 cm x 5 cm)	9.69	7.68	8.69	12.28	10.94	11.61	12.69	16.55	14.62	20.29	**13.80**
T4: Sole Little millet (30 cm x 5 cm)	11.55	10.96	11.26	14.46	12.98	13.72	11.41	11.87	11.64	14.95	**12.89**
T5: Sole Barnyard millet (30 cm x 5 cm)	8.69	8.27	8.48	22.88	20.82	21.85	13.73	14.76	14.25	17.13	**15.43**
T6: Sole mungbean (30 cm x 5 cm)	9.04	8.59	8.82	8.01	7.02	7.51	10.41	21.85	16.13	12.81	**11.32**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	14.76	13.32	14.04	23.87	22.27	23.07	15.65	21.52	18.58	15.33	**17.75**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	15.03	11.63	13.33	21.31	19.53	20.42	17.25	21.46	19.36	18.95	**18.01**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	13.95	12.66	13.31	25.79	23.83	24.81	15.84	20.65	18.24	14.68	**17.76**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	14.22	13.14	13.68	20.18	19.22	19.70	16.82	20.32	18.57	13.67	**16.41**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	16.10	14.64	15.37	26.15	24.72	25.43	15.40	22.25	18.83	15.83	**18.87**

Table II.71: PMAT 4B: Effect of millets & mungbean based intercropping systems on dry fodder yield of pearl millet, sole millets and moong under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	Fodder yield (q/ha)										
	ABD1			CBE			VYP			DHL	Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	58.35	58.95	58.65	46.25	48.37	47.31	53.63	58.29	55.96	45.39	**51.83**
T2: Sole Proso millet (30 cm x 5 cm)	24.24	23.03	23.64	37.98	39.02	38.50	35.71	31.09	33.40	29.86	**31.35**
T3: Sole Foxtail millet (30 cm x 5 cm)	22.48	17.81	20.15	36.56	39.41	37.98	38.57	36.97	37.77	39.62	**33.88**
T4: Sole Little millet (30 cm x 5 cm)	27.02	25.65	26.34	50.77	37.20	43.98	37.35	38.34	37.85	29.19	**34.34**
T5: Sole Barnyard millet (30 cm x 5 cm)	19.56	18.60	19.08	62.25	62.05	62.15	41.65	44.04	42.84	33.44	**39.38**
T6: Sole mungbean (30 cm x 5 cm)	16.28	15.47	15.87	16.69	12.98	14.83	59.38	44.78	52.08	52.56	**33.83**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	28.21	30.90	29.56	34.78	34.28	34.53	36.93	32.27	34.60	28.96	**31.91**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	34.88	26.74	30.81	31.57	29.22	30.40	37.79	30.62	34.20	35.82	**32.81**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	26.92	29.11	28.01	36.14	35.76	35.95	36.67	31.99	34.33	27.74	**31.51**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	33.59	30.34	31.97	30.44	29.16	29.80	36.03	30.23	33.13	25.85	**30.19**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	28.42	33.97	31.20	32.98	37.10	35.04	34.76	32.91	33.83	29.93	**32.50**

Table II.72: PMAT 4B: Effect of millets & mungbean based intercropping systems on gross returns of pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	Gross returns (Rs/ha)										
	ABD1			VYP			CBE			DHL	Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	59830	88007	73918	40193	63139	51666	84957	89961	87459	63678	**69180**
T2: Sole Proso millet (30 cm x 5 cm)	27887	53088	40487	51156	69527	60342	117968	114874	116421	36036	**63322**
T3: Sole Foxtail millet (30 cm x 5 cm)	23821	41054	32438	50759	66666	58712	44245	46636	45441	47819	**46102**
T4: Sole Little millet (30 cm x 5 cm)	33794	58649	46221	39941	42593	41267	98345	96893	97619	35231	**55085**
T5: Sole Barnyard millet (30 cm x 5 cm)	18398	44134	31266	54940	59998	57469	137312	138709	138011	40356	**66776**
T6: Sole mungbean (30 cm x 5 cm)	36935	61688	49312	41636	108054	74845	72087	96480	84284	81103	**72386**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	47823	74086	60954	59086	95061	77074	100317	102083	101200	53811	**73260**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	48236	66617	57426	66396	104960	85678	67879	69543	68711	64537	**69088**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	46560	71308	58934	56368	82849	69608	99909	100024	99967	50703	**69803**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	41697	68298	54998	63009	99344	81176	99117	100487	99802	47418	**70849**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	59707	85861	72784	61812	114433	88122	94634	96307	95471	75517	**82974**
CD at 5 %	20090	13011		7029	11929		-	-		5078	
CV (%)	29.0	11.7		7.7	8.4		-	-		5.5	

Table II.73: PMAT 4B: Effect of millets & mungbean based intercropping systems on net returns of pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	Net returns (Rs/ha)										
	ABD1			VYP			CBE			DHL	Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	3079	57007	30043	23616	46062	34839	45871	49075	47473	33513	**36467**
T2: Sole Proso millet (30 cm x 5 cm)	1894	25088	13491	35558	53429	44494	81736	76842	79289	6351	**35906**
T3: Sole Foxtail millet (30 cm x 5 cm)	1757	13054	7405	35161	50568	42864	8013	8604	8309	18134	**19178**
T4: Sole Little millet (30 cm x 5 cm)	2095	30649	16372	24343	26495	25419	62113	58861	60487	5546	**26956**
T5: Sole Barnyard millet (30 cm x 5 cm)	1573	16134	8853	39342	43900	41621	101330	100927	101129	10671	**40569**
T6: Sole mungbean (30 cm x 5 cm)	2201	33688	17945	25312	91230	58271	30977	53570	42274	53453	**42985**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2706	42086	22396	41488	76963	59226	60855	60821	60838	23936	**41599**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	2720	34617	18668	48798	86862	67830	28417	28281	28349	34662	**37377**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2663	39308	20986	38770	64751	51760	60447	58762	59605	20828	**38295**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	2498	36298	19398	45411	81246	63328	59755	59325	59540	17543	**39952**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	3109	53861	28485	43488	95609	69548	53940	53813	53877	46539	**49612**
CD at 5 %	681	13011		7029	11929		-	-		5078	
CV (%)	16.6	21.9		11.2	10.7		-	-		12.0	

Table II.74: PMAT 4B: Effect of millets & mungbean based intercropping systems on BC ratio of pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	BC ratio										
	ABD1			VYP			CBE			DHL	Zonal mean
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	2.93	2.84	2.89	2.43	3.70	3.06	2.17	2.20	2.19	2.11	**2.56**
T2: Sole Proso millet (30 cm x 5 cm)	2.00	1.89	1.95	3.28	4.32	3.80	3.26	3.02	3.14	1.21	**2.52**
T3: Sole Foxtail millet (30 cm x 5 cm)	1.85	1.47	1.66	3.25	4.14	3.70	1.22	1.23	1.23	1.61	**2.05**
T4: Sole Little millet (30 cm x 5 cm)	2.20	2.10	2.15	2.56	2.65	2.61	2.71	2.55	2.63	1.19	**2.14**
T5: Sole Barnyard millet (30 cm x 5 cm)	1.66	1.58	1.62	3.52	3.72	3.62	3.82	3.67	3.75	1.36	**2.59**
T6: Sole mungbean (30 cm x 5 cm)	2.32	2.20	2.26	2.55	6.42	4.49	1.75	2.25	2.00	2.93	**2.92**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.50	2.31	2.41	3.36	5.26	4.31	2.54	2.47	2.51	1.80	**2.75**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	2.51	2.08	2.30	3.77	5.80	4.79	1.72	1.69	1.71	2.16	**2.74**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.46	2.23	2.34	3.20	4.58	3.89	2.53	2.42	2.48	1.70	**2.60**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	2.30	2.13	2.22	3.58	5.49	4.54	2.52	2.44	2.48	1.59	**2.71**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	2.87	2.68	2.78	3.37	6.08	4.73	2.33	2.27	2.30	2.61	**3.10**
CD at 5 %	0.69	0.44		0.42	0.70		-	-		0.18	
CV (%)	17.4	12.0		7.7	8.6		-	-		5.5	

Table II.75: PMAT 4B: Effect of millets & mungbean based intercropping systems on pearl millet grain equivalent yield under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	PMEY (q/ha)			PMGEY (q/ha)							Zonal mean
	ABD1			CBE			VYP			DHL	
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	30.79	29.33	30.06	33.96	32.12	33.04	17.10	26.18	21.64	24.02	**27.19**
T2: Sole Proso millet (30 cm x 5 cm)	18.94	17.70	18.32	47.17	42.83	45.00	21.77	29.55	25.66	13.46	**25.61**
T3: Sole Foxtail millet (30 cm x 5 cm)	17.57	13.69	15.63	17.68	15.50	16.59	21.60	28.18	24.89	17.86	**18.74**
T4: Sole Little millet (30 cm x 5 cm)	20.95	19.55	20.25	39.32	35.78	37.55	16.99	17.68	17.34	13.16	**22.07**
T5: Sole Barnyard millet (30 cm x 5 cm)	15.73	14.71	15.22	54.90	50.52	52.71	23.38	25.13	24.25	15.07	**26.81**
T6: Sole mungbean (30 cm x 5 cm)	22.01	20.56	21.29	43.79	36.52	40.15	17.72	46.49	32.10	30.76	**31.07**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	27.06	24.69	25.88	40.10	37.06	38.58	25.14	40.21	32.68	20.25	**29.34**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	27.20	22.21	24.70	27.13	24.54	25.84	28.26	44.52	36.39	24.29	**27.80**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	26.63	23.77	25.20	39.94	36.09	38.01	23.99	34.96	29.47	19.08	**27.94**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	24.98	22.77	23.88	39.62	36.27	37.95	26.81	42.09	34.45	17.85	**28.53**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	31.09	28.62	29.86	37.83	34.74	36.29	26.30	48.80	37.55	28.58	**33.07**
CD at 5 %	6.81	4.34		16.28	-		2.99	5.17		1.93	
CV (%)	16.6	11.7		18.8	-		7.7	8.6		5.5	

Table II.76: PMAT 4B: Effect of millets & mungbean based intercropping systems on pearl millet fodder equivalent yield under rainfed conditions during kharif 2024 and kharif 2025 in Zone B

Treatments	PMFEY (q/ha)				Zonal mean
	VYP			DHL	
	2024	2025	Mean	2025	
T1: Sole pearl millet (45 cm x 10 cm)	53.63	58.29	55.96	45.39	**50.68**
T2: Sole Proso millet (30 cm x 5 cm)	35.71	31.09	33.40	29.86	**31.63**
T3: Sole Foxtail millet (30 cm x 5 cm)	38.57	36.97	37.77	39.62	**38.70**
T4: Sole Little millet (30 cm x 5 cm)	37.35	38.34	37.85	29.19	**33.52**
T5: Sole Barnyard millet (30 cm x 5 cm)	41.65	44.04	42.84	33.44	**38.14**
T6: Sole mungbean (30 cm x 5 cm)	29.69	22.39	26.04	52.56	**39.30**
T7: Pearl millet + Proso millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	57.09	51.69	54.39	39.88	**47.14**
T8: Pearl millet + Foxtail millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	62.13	51.39	56.76	47.66	**52.21**
T9: Pearl millet + Little millet (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	59.18	48.81	54.00	37.51	**45.75**
T10: Pearl millet + Barnyard millet (2:2) 2 rows of PM at 30 cm: 2 rows of intercrop at 30 cm	60.37	50.75	55.56	35.09	**45.33**
T11: Pearl millet + mungbean (2:2) 2 rows of PM paired at 30 cm: 2 rows of intercrop at 30 cm	51.29	43.99	47.64	50.83	**49.24**
CD at 5 %	7.51	8.88		3.47	
CV (%)	9.1	11.9		5.1	

Table II.77: PMAT 5A1: Effect of organic and natural farming on grain yield of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A1

Treatment	Grain yield (q/ha)										Zonal Mean
	BKR					MDR					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	19.34	19.10	16.53	12.57	16.89	7.53	6.37	10.67	10.03	8.65	12.77
T_2: RDN* through Farm yard manure (FYM)	15.55	15.57	18.03	20.00	17.29	15.63	14.67	13.90	12.47	14.17	15.73
T_3: RDN through Vermicompost (VC)	16.39	17.50	18.67	20.77	18.33	14.73	13.83	14.50	13.20	14.07	16.20
T_4: RDN through Sheep or Goat manure	15.96	17.73	18.20	21.07	18.24	15.80	15.63	14.87	13.73	15.01	16.62
T_5: RDN through FYM+ Biofertilizer	14.28	17.17	21.30	22.60	18.84	18.53	18.03	15.73	14.17	16.62	17.73
T_6: RDN through Vermicompost+ Biofertilizer	16.47	18.27	23.77	24.67	20.79	17.43	16.93	16.03	14.53	16.23	18.51
T_7: RDN through Poultry manure + Biofertilizer	16.01	18.33	24.00	25.27	20.90	17.83	17.70	16.63	15.17	16.83	18.87
T_8: *** Cow based bio formulation	16.44	17.13	23.13	21.73	19.61	16.73	18.53	13.00	11.63	14.97	17.29
T_9: RDF**	20.51	19.97	26.00	26.77	23.31	19.83	18.73	19.37	17.90	18.96	21.13
CD at 5 %	3.02	NS	3.13	3.10		2.90	2.91	3.33	3.40		
CV (%)	9.6	10.6	8.5	8.2		10.4	10.7	12.8	14.3		

Table II.78: PMAT 5A1: Effect of organic and natural farming on stover yield of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A1

Treatment	Stover yield (q/ha)										Zonal Mean
	BKR					MDR					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	38.46	37.20	37.30	31.50	36.12	14.13	10.57	18.00	16.93	14.91	25.51
T_2: RDN* through Farm yard manure (FYM)	32.43	28.87	43.53	45.73	37.64	31.17	23.90	24.70	22.17	25.48	31.56
T_3: RDN through Vermicompost (VC)	30.55	33.27	45.77	47.30	39.22	29.40	22.57	26.27	23.93	25.54	32.38
T_4: RDN through Sheep or Goat manure	31.48	33.90	44.43	49.53	39.84	32.73	26.73	27.87	25.63	28.24	34.04
T_5: RDN through FYM+ Biofertilizer	27.16	30.53	44.10	46.53	37.08	38.70	31.47	29.13	26.23	31.38	34.23
T_6: RDN through Vermicompost+ Biofertilizer	32.10	34.13	51.63	50.33	42.05	34.20	30.10	31.23	28.27	30.95	36.50
T_7: RDN through Poultry manure + Biofertilizer	29.21	34.10	57.70	55.07	44.02	35.93	28.83	31.53	28.80	31.27	37.65
T_8: *** Cow based bio formulation	30.79	33.77	49.63	46.87	40.26	33.03	33.53	23.50	21.03	27.77	34.02
T_9: RDF**	40.52	39.80	59.00	57.30	49.16	41.37	33.90	35.17	32.47	35.73	42.44
CD at 5 %	7.29	5.63	13.09	13.29		5.47	5.98	5.63	5.42		
CV (%)	6.9	9.5	15.6	15.9		9.7	12.8	11.7	12.4		

Table II.79: PMAT 5A1: Effect of organic and natural farming on growth and yield attributes of pearl millet crop during kharif 2025 in Zone A1

Treatment	Plant height (cm)			Plant population ('000/ha)			Total tillers/plant			Effective tillers/plant			Test wt. (g)			Earhead length (cm)	Earhead girth (mm)
	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	BKR
T_1:Control	141.2	126.6	133.9	-	104.8	104.8	3.4	2.3	2.9	2.5	1.8	2.2	7.7	8.5	8.1	19.0	25.2
T_2: RDN* through Farm yard manure (FYM)	148.6	140.4	144.5	-	105.8	105.8	4.1	2.9	3.5	3.2	2.2	2.7	8.2	8.5	8.3	23.3	31.5
T_3: RDN through Vermicompost (VC)	150.5	142.5	146.5	-	106.3	106.3	4.3	2.9	3.6	3.5	2.4	2.9	8.1	8.8	8.5	23.3	32.5
T_4: RDN through Sheep or Goat manure	150.4	144.5	147.5	-	105.4	105.4	4.1	3.1	3.6	3.2	2.5	2.8	8.3	8.6	8.5	23.9	33.4
T_5: RDN through FYM+ Biofertilizer	152.7	147.0	149.9	-	107.3	107.3	4.4	3.2	3.8	3.3	2.6	2.9	8.1	8.7	8.4	23.8	32.7
T_6: RDN through Vermicompost+ Biofertilizer	154.2	150.5	152.3	-	107.1	107.1	4.5	3.3	3.9	3.4	2.6	3.0	8.3	8.8	8.6	24.2	32.7
T_7: RDN through Poultry manure + Biofertilizer	156.2	151.1	153.7	-	109.4	109.4	4.7	3.4	4.0	3.6	2.7	3.2	8.3	8.7	8.5	24.2	33.9
T_8: *** Cow based bio formulation	152.1	137.4	144.8	-	106.7	106.7	4.2	2.8	3.5	3.1	2.1	2.6	7.9	8.7	8.3	22.6	30.6
T_9: RDF**	161.2	158.0	159.6	-	109.6	109.6	4.7	3.9	4.3	3.8	3.2	3.5	8.4	8.8	8.6	25.0	34.8
CD at 5 %	NS	12.7		-	NS		NS	0.5		NS	0.4		NS	NS		1.9	4.3
CV (%)	5.5	5.0		-	2.9		17.1	9.1		17.3	9.8		3.9	1.7		4.6	7.8

Table II.80: PMAT 5A1: Effect of organic and natural farming on economics of pearl millet crop during kharif 2023, 2024 and 2025 in Zone A1

Treatment	Gross returns (Rs./ha)					Zonal mean	Net returns (Rs./ha)					Zonal mean	BC ratio (%)					Zonal mean
	BKR	MDR					BKR	MDR					BKR	MDR				
	2023	2023	2024	2025	Mean		2023	2023	2024	2025	Mean		2023	2023	2024	2025	Mean	
T_1:Control	63468	22257	39683	37344	33095	48281	33468	5292	20618	18279	14730	24099	2.13	1.31	2.08	1.96	1.79	1.96
T_2: RDN* through Farm yard manure (FYM)	50998	51007	52543	47134	50228	50613	14998	17865	24743	19334	20647	17823	1.43	1.54	1.89	1.70	1.71	1.57
T_3: RDN through Vermicompost (VC)	57750	48123	55136	50207	51155	54453	27250	14315	26336	21407	20686	23968	1.90	1.43	1.92	1.74	1.70	1.80
T_4: RDN through Sheep or Goat manure	58615	55123	57139	52712	54991	56803	28115	29648	30664	26237	28850	28482	1.93	2.16	2.16	1.99	2.10	2.02
T_5: RDN through FYM+ Biofertilizer	55592	63963	60237	54239	59480	57536	31592	30920	31737	25739	29465	30529	2.30	1.93	2.11	1.90	1.98	2.14
T_6: RDN through Vermicompost+ Biofertilizer	59929	60393	62389	56524	59769	59849	29429	26684	28680	22815	26060	27745	1.93	1.79	1.85	1.68	1.77	1.85
T_7: RDN through Poultry manure + Biofertilizer	60117	61550	64160	58533	61414	60765	29617	36174	36460	30833	34489	32053	2.00	2.43	2.32	2.11	2.28	2.14
T_8: *** Cow based bio formulation	57138	66453	49400	44209	53354	55246	28138	42733	27400	22209	30781	29460	1.97	2.80	2.24	2.01	2.35	2.16
T_9: RDF**	66797	67173	73696	68091	69653	68225	37797	46801	48196	42591	45863	41830	2.27	3.30	2.89	2.67	2.95	2.61
CD at 5 %	8095	9857	12248	12331			8095	9857	12248	12331			0.28	0.41	0.46	0.47		
CV (%)	7.9	10.2	12.3	13.6			16.0	20.3	23.0	27.7			8.0	11.3	12.2	13.6		

Table II.81: PMAT 5A1: Effect of organic and natural farming on the enzymatic activities in pearl millet under rainfed conditions during kharif 2024 anf kharif 2025 in Mandor center Zone A1

Treatments	Dehydrogenase (µg TPF) (g soil)-1 (day)-1			Alkaline phosphatase (µg) (g soil)-1 (h)-1			Acid phosphatase (µg) (g soil)-1 (h)-1			Urease (µmol NH3) (g soil)-1 (h)-1		
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean
T_1:Control	172.0	172.2	172.1	5.67	6.28	5.97	2.62	2.70	2.66	8.22	8.31	8.26
T_2: RDN* through Farm yard manure (FYM)	271.7	310.6	291.1	5.87	6.42	6.15	3.13	3.22	3.17	10.77	10.87	10.82
T_3: RDN through Vermicompost (VC)	286.8	311.2	299.0	5.99	6.56	6.27	3.25	3.35	3.30	10.72	10.83	10.78
T_4: RDN through Sheep or Goat manure	301.1	351.7	326.4	6.86	7.53	7.20	3.77	3.89	3.83	10.20	10.51	10.35
T_5: RDN through FYM+ Biofertilizer	458.1	503.3	480.7	10.83	12.35	11.59	4.19	4.43	4.31	14.70	15.14	14.92
T_6: RDN through Vermicompost+ Biofertilizer	444.9	477.5	461.2	10.53	12.22	11.38	4.16	4.36	4.26	13.47	14.01	13.74
T_7: RDN through Poultry manure + Biofertilizer	377.0	408.9	393.0	9.61	10.88	10.24	4.34	4.46	4.40	14.06	14.62	14.34
T_8: *** Cow based bio formulation	243.8	262.4	253.1	6.11	6.71	6.41	3.57	3.67	3.62	9.58	9.68	9.63
T_9: RDF**	252.6	285.0	268.8	6.22	6.40	6.31	2.54	2.61	2.57	8.25	8.33	8.29
CD at 5 %	37.9	38.1		0.62	0.59		0.84	0.87		1.55	1.59	
CV (%)	7.0	6.4		4.7	4.1		13.7	13.7		8.0	8.0	

Table II.82: PMAT 5A1: Effect of organic and natural farming on the soil microbial counts in pearl millet under rainfed conditions during kharif 2024 and kharif 2025 in Mandor center Zone A1

Treatments	SMBC (µg) (g soil)-1			Bacterial population log10((CFU) (g soil)-1)			Fungal population log10((CFU) (g soil)-1)			Actinomycetes population log10((CFU) (g soil)-1)		
	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean	2024	2025	Mean
T_1:Control	300.17	309.2	304.7	9.43	9.71	9.57	5.52	5.59	5.55	7.39	6.58	6.99
T_2: RDN* through Farm yard manure (FYM)	358.67	369.4	364.1	9.81	10.11	9.96	5.85	5.93	5.89	7.92	8.03	7.98
T_3: RDN through Vermicompost (VC)	367.53	385.9	376.7	9.71	10.19	9.95	5.94	6.09	6.01	7.78	7.98	7.88
T_4: RDN through Sheep or Goat manure	432.83	458.8	445.8	10.33	10.95	10.64	6.24	6.62	6.43	7.97	8.37	8.17
T_5: RDN through FYM+ Biofertilizer	475.70	499.5	487.6	11.26	11.82	11.54	6.58	6.91	6.74	9.17	9.63	9.40
T_6: RDN through Vermicompost+ Biofertilizer	455.30	478.1	466.7	11.10	11.83	11.47	6.96	7.41	7.19	9.31	9.91	9.61
T_7: RDN through Poultry manure + Biofertilizer	440.30	457.9	449.1	10.96	11.39	11.18	6.90	7.18	7.04	8.84	9.19	9.02
T_8: *** Cow based bio formulation	364.43	368.1	366.3	9.74	9.74	9.74	6.16	6.28	6.22	8.29	8.37	8.33
T_9: RDF**	324.77	328.0	326.4	9.57	9.38	9.47	5.54	5.53	5.54	7.80	7.72	7.76
CD at 5 %	74.48	76.9		0.51	0.53		0.43	0.44		0.42	0.44	
CV (%)	10.9	10.8		2.9	2.8		4.0	3.9		2.9	3.0	

Table II.83: PMAT 5A1: Effect of organic and natural farming on productivity, growth and yield attributes of chickpea crop during Rabi 2022-23, 2023-24 and 2024-25 in Mandor centre of Zone A1

Treatments	Seed yield (q/ha)				Straw yield (q/ha)				Plant height (cm)	Number of primary branches/ plant	Number of pods/ plant	Test wt. (g)
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean				
T_1:Control	10.97	14.93	12.80	**12.90**	17.90	21.97	18.80	**19.56**	37.4	2.6	24.3	131.6
T_2: RDN* through Farm yard manure (FYM)	18.90	19.30	17.07	**18.42**	24.40	27.90	24.63	**25.64**	46.2	3.2	30.0	137.0
T_3: RDN through Vermicompost (VC)	18.13	19.67	17.40	**18.40**	27.13	28.33	25.07	**26.84**	48.2	3.4	31.2	137.5
T_4: RDN through Sheep or Goat manure	21.20	20.63	18.10	**19.98**	29.90	28.80	25.30	**28.00**	49.4	3.6	33.3	138.6
T_5: RDN through FYM+ Biofertilizer	22.93	21.07	19.03	**21.01**	32.20	29.30	26.50	**29.33**	50.6	3.7	34.8	140.4
T_6: RDN through Vermicompost+ Biofertilizer	22.13	21.93	19.67	**21.24**	30.43	30.60	27.43	**29.49**	52.5	4.0	36.7	141.6
T_7: RDN through Poultry manure + Biofertilizer	22.43	23.00	21.63	**22.36**	31.60	31.47	29.53	**30.87**	53.8	4.1	40.8	143.1
T_8: *** Cow based bio formulation	24.27	19.13	16.30	**19.90**	33.17	27.73	23.60	**28.17**	43.6	3.0	28.4	135.6
T_9: RDF**	26.43	25.80	23.37	**25.20**	35.83	33.93	30.73	**33.50**	57.7	4.4	45.7	147.9
CD at 5 %	3.08	2.85	2.67		4.88	2.47	3.76		5.8	0.4	5.9	4.0
CV (%)	8.5	7.9	8.3		9.6	4.9	8.4		6.8	6.5	10.0	1.6

Table II.84: PMAT 5A1: Effect of organic and natural farming on economics of chickpea crop during Rabi 2022-23, 2023-24 and 2024-25 in Mandor centre of Zone A1

Treatments	Gross returns (Rs./ha)				Net returns (Rs./ha)				BC ratio (%)			
	2023	2024	2025	Mean	2023	2024	2025	Mean	2023	2024	2025	Mean
T_1:Control	72827	101007	86566	**86800**	48862	72007	57566	**59479**	3.07	3.48	2.98	**3.18**
T_2: RDN* through Farm yard manure (FYM)	120436	130102	115005	**121848**	85274	96302	81205	**87594**	3.40	3.85	3.40	**3.55**
T_3: RDN through Vermicompost (VC)	118379	132487	117215	**122693**	80551	94687	79415	**84884**	3.13	3.50	3.10	**3.25**
T_4: RDN through Sheep or Goat manure	137022	138165	121202	**132130**	96527	102690	85727	**94981**	3.37	3.90	3.42	**3.56**
T_5: RDN through FYM+ Biofertilizer	148149	140973	127372	**138831**	112702	103473	89872	**102016**	4.20	3.76	3.39	**3.78**
T_6: RDN through Vermicompost+ Biofertilizer	142428	146857	131651	**140312**	104315	104148	88942	**99135**	3.73	3.44	3.08	**3.42**
T_7: RDN through Poultry manure + Biofertilizer	144972	153440	144279	**147564**	104192	116740	107579	**109504**	3.53	4.18	3.93	**3.88**
T_8: *** Cow based bio formulation	156006	129045	109926	**131659**	125286	95245	76126	**98886**	5.07	3.82	3.25	**4.05**
T_9: RDF**	169686	170892	154776	**165118**	142314	136392	120276	**132994**	6.20	4.96	4.49	**5.22**
CD at 5 %	19785	17549	17377		19785	17549	17377		0.57	0.51	0.48	
CV (%)	8.4	7.3	8.1		11.3	9.8	11.4		8.2	7.5	8.0	

Table II.85: PMAT 5A1: Effect of organic and natural farming on the enzymatic activities in chickpea under rainfed conditions during Rabi 2023-24 in Mandor center Zone A1

Treatments	Dehydrogenase (µg TPF) (g soil)-1 (day)-1	Alkaline phosphatase (µg) (g soil)-1 (h)-1	Acid phosphatase (µg) (g soil)-1 (h)-1	Urease (µmol NH3) (g soil)-1 (h)-1
T_1:Control	163.8	5.43	2.60	8.14
T_2: RDN* through Farm yard manure (FYM)	262.7	5.63	3.10	10.66
T_3: RDN through Vermicompost (VC)	278.2	5.73	3.23	10.62
T_4: RDN through Sheep or Goat manure	281.0	6.57	3.60	9.71
T_5: RDN through FYM+ Biofertilizer	409.9	7.37	3.80	13.36
T_6: RDN through Vermicompost+ Biofertilizer	392.7	7.20	3.77	12.25
T_7: RDN through Poultry manure + Biofertilizer	335.5	6.60	3.97	12.78
T_8: *** Cow based bio formulation	235.2	5.87	3.53	9.49
T_9: RDF**	225.7	6.00	2.50	8.17
CD at 5 %	34.0	0.56	0.81	1.48
CV (%)	6.8	5.1	13.9	8.0

Table II.86: PMAT 5A1: Effect of organic and natural farming on the soil microbial counts in chickpea under rainfed conditions during Rabi 2023-24 in Mandor center Zone A1

Treatments	SMBC (µg) (g soil)-1	Bacterial population log10((CFU) (g soil)-1)	Fungal population log10((CFU) (g soil)-1)	Actinomycetes population log10((CFU) (g soil)-1)
T_1:Control	297.2	9.33	5.46	7.32
T_2: RDN* through Farm yard manure (FYM)	355.1	9.71	5.79	7.85
T_3: RDN through Vermicompost (VC)	363.9	9.61	5.88	7.71
T_4: RDN through Sheep or Goat manure	412.2	9.84	5.95	7.59
T_5: RDN through FYM+ Biofertilizer	432.4	10.24	5.98	8.34
T_6: RDN through Vermicompost+ Biofertilizer	413.9	10.10	6.32	8.46
T_7: RDN through Poultry manure + Biofertilizer	400.3	9.96	6.28	8.03
T_8: *** Cow based bio formulation	360.8	9.64	6.09	8.20
T_9: RDF**	321.6	9.48	5.48	7.73
CD at 5 %	71.5	0.49	0.41	0.39
CV (%)	11.0	2.9	4.0	2.8

Table II.87: PMAT 5A: Effect of organic and natural farming on grain yield of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatments	Grain yield (q/ha)																			Zonal mean
	HSR					JMR					JPR					JMU				
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2024	2025	Mean	
T_1:Control	21.36	24.59	22.14	18.35	21.61	9.99	13.81	10.85	11.60	11.56	30.34	16.24	19.88	17.64	21.02	18.19	19.79	-	18.99	18.30
T_2: RDN* through Farm yard manure (FYM)	27.71	30.26	31.40	25.40	28.69	12.71	17.35	12.28	15.81	14.54	33.31	18.78	20.39	18.16	22.66	19.73	20.09	-	19.91	21.45
T_3: RDN through Vermicompost (VC)	28.91	31.35	31.52	26.85	29.66	11.42	16.69	11.81	14.15	13.52	37.72	23.17	22.02	19.78	25.67	20.29	21.19	-	20.74	22.40
T_4: RDN through Poultry manure(PM)	29.88	32.23	33.18	28.08	30.84	15.50	19.44	18.16	17.06	17.54	38.54	22.76	24.57	22.33	27.05	21.39	23.06	-	22.23	24.42
T_5: RDN through FYM+ Biofertilizer	31.32	32.51	33.11	28.24	31.29	14.64	20.67	20.18	18.95	18.61	37.49	21.20	22.67	20.43	25.45	23.21	23.56	-	23.39	24.68
T_6: RDN through Vermicompost+ Biofertilizer	32.09	33.52	33.58	29.11	32.08	12.65	18.23	14.48	16.82	15.55	40.14	26.42	24.61	22.38	28.39	24.03	24.10	-	24.07	25.02
T_7: RDN through Poultry manure + Biofertilizer	33.28	34.23	34.57	30.84	33.23	19.37	24.25	22.63	23.97	22.56	39.72	24.66	26.60	24.36	28.84	24.90	25.66	-	25.28	27.48
T_8: *** Cow based bio formulation	26.26	27.13	26.62	22.89	25.73	13.32	21.80	20.38	20.64	19.04	38.06	23.46	25.55	23.31	27.59	20.83	21.91	-	21.37	23.43
T_9: RDF**	40.56	40.69	39.15	35.31	38.93	25.46	28.05	24.39	27.70	26.40	39.34	23.71	26.14	23.90	28.27	28.96	29.97	-	29.46	30.77
CD at 5 %	3.04	3.20	4.35	2.56		3.59	6.11	4.26	5.32		4.34	3.83	3.23	3.23		4.46	4.41	-		
CV (%)	5.8	5.8	7.9	5.4		13.7	17.5	14.2	16.4		6.7	9.8	7.8	8.7		11.4	10.9	-		

Table II.88: PMAT 5A: Effect of organic and natural farming on stover yeld of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatments	Stover yield (q/ha)																			Zonal mean
	HSR					JMR					JPR					JMU				
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2024	2025	Mean	
T_1:Control	64.90	79.92	62.43	53.15	65.10	23.43	28.95	19.95	19.82	23.04	79.75	39.67	45.19	38.43	50.76	37.12	38.76	-	37.94	39.47
T_2: RDN* through Farm yard manure (FYM)	75.97	101.36	88.49	72.95	84.69	28.33	35.24	22.67	24.99	27.81	87.31	47.23	50.12	39.60	56.06	39.25	41.68	-	40.47	47.12
T_3: RDN through Vermicompost (VC)	77.61	104.43	92.13	77.29	87.86	26.85	34.15	21.26	22.06	26.08	98.88	56.37	52.63	43.14	62.76	41.38	42.98	-	42.18	49.36
T_4: RDN through Poultry manure(PM)	84.14	106.15	93.17	79.33	90.70	31.08	36.44	29.61	26.44	30.89	96.42	57.89	51.80	49.33	63.86	42.09	43.87	-	42.98	51.92
T_5: RDN through FYM+ Biofertilizer	85.87	107.05	97.05	79.97	92.49	31.33	40.30	31.93	29.58	33.28	98.33	57.95	51.03	44.81	63.03	43.35	44.47	-	43.91	53.05
T_6: RDN through Vermicompost+ Biofertilizer	87.10	108.49	99.10	82.14	94.21	30.12	35.42	26.41	25.72	29.42	98.23	64.26	53.75	49.33	66.39	46.44	46.09	-	46.26	53.52
T_7: RDN through Poultry manure + Biofertilizer	90.15	109.13	101.17	86.65	96.78	36.76	43.78	35.18	36.65	38.09	97.33	63.14	54.80	53.73	67.25	45.40	48.11	-	46.76	56.85
T_8: *** Cow based bio formulation	75.56	87.94	74.83	65.94	76.07	30.81	41.46	32.19	32.55	34.25	99.82	57.97	55.87	51.59	66.31	41.91	43.77	-	42.84	49.50
T_9: RDF**	111.79	116.81	107.95	98.89	108.86	42.12	49.92	38.24	41.59	42.97	97.11	57.79	56.14	52.77	65.95	50.64	51.77	-	51.21	61.81
CD at 5 %	8.71	6.02	5.82	10.04		5.87	8.27	4.80	7.96		10.69	8.21	5.69	7.44		NS	5.69	-		
CV (%)	6.0	3.4	3.7	7.4		10.8	12.3	9.6	15.8		6.5	8.4	6.2	9.1		10.1	7.3	-		

Table II.89: PMAT 5A: Effect of organic and natural farming on growth and yield attributes of pearl millet crop during kharif 2025 in Zone A

Treatment	Total tillers/plant					Effective tillers/plant					Earhead Length (cm)					Plant height (cm)				
	HSR	JMR	JPR	JMU	Mean	HSR	JMR	JPR	JMU	Mean	HSR	JMR	JPR	JMU	Mean	HSR	JMR	JPR	JMU	Mean
T_1:Control	2.2	3.0	3.7	-	3.0	1.5	2.3	2.0	-	1.9	19.2	19.1	23.3	-	20.5	169.7	181.3	160.0	-	170.3
T_2: RDN* through Farm yard manure (FYM)	2.8	3.3	3.8	-	3.3	2.1	2.9	2.6	-	2.5	21.4	19.9	25.1	-	22.1	180.7	199.3	167.3	-	182.4
T_3: RDN through Vermicompost (VC)	2.9	3.3	4.9	-	3.7	2.2	2.9	3.0	-	2.7	22.3	19.4	25.3	-	22.4	182.3	196.8	180.0	-	186.4
T_4: RDN through Poultry manure(PM)	3.0	3.8	4.8	-	3.9	2.1	3.3	3.1	-	2.9	22.5	21.3	26.3	-	23.4	185.0	207.4	184.3	-	192.2
T_5: RDN through FYM+ Biofertilizer	2.9	3.9	4.7	-	3.9	2.2	3.5	2.9	-	2.9	22.4	21.5	25.5	-	23.1	183.7	210.3	182.0	-	192.0
T_6: RDN through Vermicompost+ Biofertilizer	3.2	3.7	5.2	-	4.0	2.3	3.3	3.1	-	2.9	23.1	21.1	25.8	-	23.3	188.3	204.3	195.3	-	196.0
T_7: RDN through Poultry manure + Biofertilizer	3.2	4.2	5.0	-	4.1	2.4	3.8	3.5	-	3.2	22.7	24.0	28.6	-	25.1	187.3	226.1	194.3	-	202.6
T_8: *** Cow based bio formulation	2.6	4.1	4.7	-	3.8	1.9	3.7	3.1	-	2.9	20.8	22.8	25.7	-	23.1	175.0	217.5	180.3	-	191.0
T_9: RDF**	3.7	4.5	5.1	-	4.4	2.7	4.1	3.5	-	3.4	24.2	27.2	26.2	-	25.9	196.7	244.1	195.0	-	211.9
CD at 5 %	0.4	0.7	0.4	-	0.5	0.4	0.5	0.5	-		2.4	2.5	2.4	-		11.1	19.4	18.0	-	
CV (%)	8.6	10.4	5.3	-	8.1	9.5	8.4	9.6	-		6.2	6.5	5.4	-		3.5	5.3	5.7	-	

Table II.90: PMAT 5A: Effect of organic and natural farming on test weight, protein content and earhead girth of pearl millet crop during kharif 2025 in Zone A

Treatment	Test weight (g)					Protein content (%)				Earhead Girth (cm)					Plant population ('000/ha)		
	HSR	JMR	JPR	JMU	Mean	HSR	JMR	JPR	Mean	HSR	JMR	JPR	JMU	Mean	HSR	JPR	Mean
T_1:Control	8.7	8.3	10.7	-	9.2	8.3	8.8	8.7	8.6	29.0	21.1	28.5	-	26.2	162.1	167.0	164.6
T_2: RDN* through Farm yard manure (FYM)	9.3	8.7	10.7	-	9.6	8.7	9.2	9.1	9.0	31.4	22.7	30.5	-	28.2	163.9	168.0	166.0
T_3: RDN through Vermicompost (VC)	9.4	8.3	11.3	-	9.7	8.9	9.0	9.2	9.1	31.7	21.7	32.0	-	28.5	163.1	168.7	165.9
T_4: RDN through Poultry manure(PM)	9.4	9.3	10.9	-	9.9	9.1	10.4	9.2	9.6	32.1	25.3	34.1	-	30.5	161.6	172.0	166.8
T_5: RDN through FYM+ Biofertilizer	9.6	10.1	11.0	-	10.2	9.1	11.0	9.0	9.7	32.0	27.1	31.4	-	30.2	165.7	167.0	166.3
T_6: RDN through Vermicompost+ Biofertilizer	9.5	9.0	11.5	-	10.0	9.2	9.9	9.3	9.5	32.4	23.9	33.3	-	29.9	161.6	171.0	166.3
T_7: RDN through Poultry manure + Biofertilizer	9.7	10.7	11.3	-	10.6	9.3	11.3	9.3	10.0	33.4	38.3	33.5	-	35.1	162.2	170.0	166.1
T_8: *** Cow based bio formulation	9.0	10.3	10.9	-	10.1	8.5	10.9	9.0	9.5	30.9	32.0	30.4	-	31.1	162.8	169.7	166.3
T_9: RDF**	10.2	11.3	11.3	-	10.9	9.7	10.4	9.3	9.8	34.5	43.4	31.9	-	36.6	161.5	171.7	166.6
CD at 5 %	0.7	1.2	NS	-		0.7	0.9	NS		2.7	4.1	2.5	-		NS	NS	
CV (%)	4.5	7.0	4.0	-		4.5	4.9	3.6		4.9	8.2	4.5	-		2.8	2.5	

Table II.91: PMAT 5A: Effect of organic and natural farming on soil chemical properties after pearl millet crop harvest during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatment	Soil status after harvest																				
	OC (%)										Zonal Mean	pH					EC				
	HSR					JMR						HSR					HSR				
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean		2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean
T_1:Control	0.32	0.33	0.32	0.31	0.32	0.51	0.49	0.47	0.53	0.50	0.41	8.31	8.20	8.16	8.15	8.20	0.27	0.31	0.30	0.33	0.30
T_2: RDN* through Farm yard manure (FYM)	0.35	0.38	0.40	0.41	0.39	0.62	0.63	0.65	0.64	0.64	0.51	8.29	8.17	8.13	8.10	8.17	0.26	0.35	0.33	0.36	0.32
T_3: RDN through Vermicompost (VC)	0.34	0.37	0.38	0.39	0.37	0.58	0.60	0.63	0.62	0.61	0.49	8.29	8.12	8.14	8.12	8.17	0.25	0.36	0.31	0.37	0.32
T_4: RDN through Poultry manure(PM)	0.34	0.35	0.37	0.38	0.36	0.65	0.66	0.68	0.68	0.67	0.51	8.30	8.15	8.16	8.13	8.19	0.26	0.32	0.31	0.34	0.31
T_5: RDN through FYM+ Biofertilizer	0.36	0.39	0.42	0.42	0.40	0.66	0.69	0.71	0.75	0.70	0.55	8.28	8.15	8.08	8.11	8.16	0.25	0.34	0.31	0.35	0.31
T_6: RDN through Vermicompost+ Biofertilizer	0.35	0.38	0.39	0.41	0.38	0.64	0.65	0.68	0.68	0.66	0.52	8.28	8.16	8.10	8.06	8.15	0.25	0.34	0.30	0.36	0.31
T_7: RDN through Poultry manure + Biofertilizer	0.36	0.37	0.38	0.40	0.38	0.68	0.71	0.72	0.74	0.71	0.54	8.29	8.25	8.12	8.09	8.19	0.25	0.34	0.30	0.35	0.31
T_8: *** Cow based bio formulation	0.33	0.34	0.34	0.35	0.34	0.59	0.60	0.63	0.63	0.61	0.48	8.30	8.22	8.13	8.10	8.19	0.27	0.35	0.30	0.36	0.32
T_9: RDF**	0.30	0.32	0.33	0.32	0.32	0.46	0.45	0.44	0.58	0.48	0.40	8.32	8.23	8.19	8.13	8.22	0.28	0.34	0.32	0.38	0.33
CD at 5 %	0.03	0.02	0.02	0.04		0.04	0.02	0.07	0.11			0.02	NS	0.05	NS		0.02	0.03	NS	NS	
CV (%)	5.3	4.1	3.2	5.6		3.9	2.1	6.7	9.3			0.2	0.8	0.5	0.4		4.7	6.4	5.1	7.7	

Table II.92: PMAT 5A: Effect of organic and natural farming on available N, P and K status of soil after pearl millet harvest during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatment	Soil status after harvest																				
	Available N (kg/ha)										Zonal Mean	Av. P (kg/ha)					Av. K(kg/ha)				
	HSR					JMR						JMR					JMR				
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean		2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean
T_1:Control	183.3	183.5	179.7	178.7	181.3	186.1	183.5	182.5	177.7	182.4	181.9	18.2	18.0	17.5	18.2	17.98	296.4	293.5	291.6	260.8	285.6
T_2: RDN* through Farm yard manure (FYM)	188.3	191.7	194.8	195.3	192.5	191.6	192.6	192.8	193.3	192.6	192.6	22.3	22.8	22.9	22.3	22.57	299.7	300.8	301.7	295.3	299.4
T_3: RDN through Vermicompost (VC)	188.7	192.0	192.7	193.7	191.8	190.5	191.9	192.1	192.8	191.8	191.8	22.2	22.4	22.7	21.7	22.22	308.8	310.6	311.7	308.5	309.9
T_4: RDN through Poultry manure(PM)	189.0	193.3	193.7	194.3	192.6	198.3	200.1	201.2	204.2	201.0	196.8	25.0	25.4	25.4	23.2	24.75	317.3	319.9	320.8	314.4	318.1
T_5: RDN through FYM+ Biofertilizer	189.0	194.2	195.3	195.7	193.5	188.6	189.9	190.5	195.0	191.0	192.3	24.4	24.6	24.9	23.5	24.37	315.7	317.4	318.4	315.3	316.7
T_6: RDN through Vermicompost+ Biofertilizer	190.0	196.0	193.8	196.0	194.0	199.6	201.8	202.0	203.1	201.6	197.8	24.9	25.1	25.2	22.7	24.45	320.5	321.6	322.2	319.0	320.8
T_7: RDN through Poultry manure + Biofertilizer	191.0	196.7	194.5	195.0	194.3	202.9	205.0	205.6	210.0	205.9	200.1	27.0	27.6	27.8	25.1	26.87	322.0	323.9	324.1	323.7	323.4
T_8: *** Cow based bio formulation	186.7	188.6	183.7	185.3	186.1	196.6	199.0	199.1	200.5	198.8	192.4	24.4	24.8	24.9	23.3	24.34	317.0	318.2	319.0	316.9	317.8
T_9: RDF**	186.7	187.3	192.7	193.3	190.0	225.4	223.4	220.2	225.3	223.6	206.8	27.2	27.2	28.3	27.4	27.50	311.3	309.8	315.7	312.6	312.4
CD at 5 %	3.1	5.0	4.3	7.1		10.5	9.6	20.0	24.3			1.6	2.2	4.3	3.4		10.5	9.3	19.4	32.8	
CV (%)	1.0	1.5	1.3	2.1		3.0	2.8	5.8	7.0			3.9	5.2	10.1	8.5		1.9	1.7	3.5	6.1	

Table II.93: PMAT 5A: Effect of organic and natural farming on gross returns of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatment	Gross returns (Rs./ha)										Zonal mean
	HSR					JMR					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	63175	77459	70595	61557	**68197**	24658	47220	34545	36781	**35801**	**51999**
T_2: RDN* through Farm yard manure (FYM)	80320	95929	100115	85084	**90362**	31066	59098	39107	49928	**44800**	**67581**
T_3: RDN through Vermicompost (VC)	83460	99254	101165	89966	**93461**	28202	56898	37556	44656	**41828**	**67645**
T_4: RDN through Poultry manure(PM)	87053	101798	105731	93788	**97093**	37193	65606	57441	53853	**53523**	**75308**
T_5: RDN through FYM+ Biofertilizer	90770	102685	106316	94350	**98530**	35549	70072	63733	59807	**57290**	**77910**
T_6: RDN through Vermicompost+ Biofertilizer	92832	105506	107975	97218	**100883**	31328	61774	46081	53031	**48054**	**74468**
T_7: RDN through Poultry manure + Biofertilizer	96246	107400	110972	102902	**104380**	46085	81508	71408	75575	**68644**	**86512**
T_8: *** Cow based bio formulation	76816	85406	84852	76716	**80947**	32799	73692	64359	65175	**59006**	**69977**
T_9: RDF**	117668	125088	124367	117763	**121221**	59325	80134	76994	73385	**72460**	**96840**

Table II.94: PMAT 5A: Effect of organic and natural farming on net returns of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatment	Net returns (Rs./ha)										Zonal mean
	HSR					JMR					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	3703	8349	24438	14542	**12758**	6828	29390	15075	16901	**17049**	**14903**
T_2: RDN* through Farm yard manure (FYM)	5361	18721	36815	21762	**20664**	5236	33268	11637	22048	**18047**	**19356**
T_3: RDN through Vermicompost (VC)	-8327	199	17793	5528	**3798**	-5628	23068	6086	12776	**9076**	**6437**
T_4: RDN through Poultry manure(PM)	18389	31728	50688	38952	**34939**	17363	37776	27971	23973	**26771**	**30855**
T_5: RDN through FYM+ Biofertilizer	15703	25327	42910	30923	**28716**	9719	44242	36263	31927	**30538**	**29627**
T_6: RDN through Vermicompost+ Biofertilizer	937	6301	24499	12675	**11103**	-2652	27794	14461	21001	**15151**	**13127**
T_7: RDN through Poultry manure + Biofertilizer	27473	37180	55825	47962	**42110**	26105	53528	41788	45545	**41742**	**41926**
T_8: *** Cow based bio formulation	9206	18623	29036	19980	**19211**	10194	51012	39994	40400	**35400**	**27306**
T_9: RDF**	49854	56178	69883	62246	**59540**	37967	58776	53717	49698	**50040**	**54790**

Table II.95: PMAT 5A: Effect of organic and natural farming on BC ratio of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatment	BC ratio (%)										Zonal mean
	HSR					JMR					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	1.06	1.12	1.53	1.31	**1.26**	1.38	2.65	1.77	1.85	**1.91**	**1.58**
T_2: RDN* through Farm yard manure (FYM)	1.07	1.24	1.58	1.34	**1.31**	1.20	2.29	1.42	1.79	**1.68**	**1.49**
T_3: RDN through Vermicompost (VC)	0.91	1.00	1.21	1.07	**1.05**	0.83	1.68	1.19	1.40	**1.28**	**1.16**
T_4: RDN through Poultry manure(PM)	1.27	1.45	1.92	1.71	**1.59**	1.88	2.36	1.95	1.80	**2.00**	**1.79**
T_5: RDN through FYM+ Biofertilizer	1.21	1.33	1.68	1.49	**1.43**	1.38	2.71	2.32	2.15	**2.14**	**1.78**
T_6: RDN through Vermicompost+ Biofertilizer	1.01	1.06	1.29	1.15	**1.13**	0.92	1.82	1.46	1.66	**1.47**	**1.30**
T_7: RDN through Poultry manure + Biofertilizer	1.40	1.53	2.01	1.87	**1.70**	2.31	2.91	2.41	2.52	**2.54**	**2.12**
T_8: *** Cow based bio formulation	1.14	1.28	1.52	1.35	**1.32**	1.45	3.25	2.64	2.63	**2.49**	**1.91**
T_9: RDF**	1.74	1.82	2.28	2.12	**1.99**	2.78	3.75	3.31	3.10	**3.24**	**2.61**

Table II.96: PMAT 5: Effect of organic and natural farming on the soil microbial counts after pearl millet crop harvest at Hisar during kharif 2022, 2023, 2024 and 2025 in Zone A

Treatment	Bacterial count					Fungal count (10^5 cfu/g soil)					Actinomycetes count ($10^{6/5*}$ cfu/g				
	HSR ($10^{9/7*}$cfu/g soil)					HSR					HSR				
	2022	2023	2024*	2025	Mean	2022	2023	2024*	2025	Mean	2022	2023	2024*	2025	Mean
T_1:Control	3.30	4.54	4.10	3.59	**3.88**	3.35	3.32	2.80	1.60	**2.77**	2.20	2.77	10.83	2.05	**4.46**
T_2: RDN* through Farm yard manure (FYM)	4.50	5.86	5.57	5.37	**5.32**	3.53	3.71	3.48	3.80	**3.63**	2.42	3.10	11.93	4.30	**5.44**
T_3: RDN through Vermicompost (VC)	4.60	5.94	5.37	4.97	**5.22**	3.52	3.41	4.03	3.85	**3.70**	2.40	3.23	13.92	3.77	**5.83**
T_4: RDN through Poultry manure(PM)	4.40	5.73	5.05	5.03	**5.05**	3.51	3.63	4.52	3.55	**3.80**	2.36	3.35	13.83	4.70	**6.06**
T_5: RDN through FYM+ Biofertilizer	5.20	6.46	5.82	5.43	**5.73**	3.64	3.75	6.52	3.30	**4.30**	2.54	3.33	14.51	4.15	**6.13**
T_6: RDN through Vermicompost+ Biofertilizer	5.40	6.66	5.75	5.54	**5.84**	3.58	3.67	7.12	3.55	**4.48**	2.61	3.37	16.52	3.67	**6.54**
T_7: RDN through Poultry manure + Biofertilizer	5.35	6.07	5.52	5.22	**5.54**	3.54	3.69	7.47	4.27	**4.74**	2.54	3.40	15.70	4.18	**6.46**
T_8: *** Cow based bio formulation	5.50	6.13	5.25	5.07	**5.49**	4.51	3.60	4.50	3.73	**4.08**	2.88	3.32	13.98	4.33	**6.13**
T_9: RDF**	3.18	4.91	4.95	4.17	**4.30**	3.12	3.33	3.53	2.80	**3.19**	2.02	2.98	11.85	3.23	**5.02**
0-15 cm before sowing (Initial status)	3.20	4.96	4.34	3.92	4.11	3.15	3.36	3.46	2.72	3.17	2.12	3.15	12.06	2.21	4.89
CD at 5 %	1.05	0.21	0.38	0.57		0.92	NS	0.36	0.31		0.56	0.17	0.68	0.47	
CV (%)	7.6	2.1	4.2	6.6		8.7	5.4	4.3	5.20		7.5	3.1	2.9	7.1	

Table II.97: PMAT 5A: Effect of organic and natural farming on seed yield of mustard crop in Pearl millet-mustard cropping system during Rabi 2022-23, 2023-24 and 2024-25 in Zone A

Treatment	Seed yield (q/ha)												Zonal mean
	HSR				JMR				JPR				
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	
T_1:Control	5.26	5.45	7.39	6.03	5.81	4.65	10.20	6.89	8.68	8.55	14.06	10.43	7.78
T_2: RDN* through Farm yard manure (FYM)	7.50	7.84	9.61	8.32	7.99	5.62	11.93	8.52	11.17	10.33	16.26	12.59	9.81
T_3: RDN through Vermicompost (VC)	8.02	7.54	9.48	8.35	8.48	6.33	12.26	9.02	11.94	11.76	18.00	13.90	10.42
T_4: RDN through Poultry manure(PM)	8.27	7.61	9.56	8.48	9.97	7.49	14.30	10.59	12.59	11.44	18.53	14.19	11.08
T_5: RDN through FYM+ Biofertilizer	8.32	8.62	10.07	9.00	9.33	8.27	16.85	11.48	12.33	10.86	17.26	13.48	11.32
T_6: RDN through Vermicompost+ Biofertilizer	8.45	8.14	9.92	8.84	10.90	9.49	18.80	13.07	12.13	12.75	18.55	14.48	12.13
T_7: RDN through Poultry manure + Biofertilizer	8.48	8.36	10.03	8.96	13.35	11.77	20.53	15.22	12.62	12.56	19.06	14.75	12.97
T_8: *** Cow based bio formulation	6.12	6.25	8.47	6.95	8.32	6.65	13.99	9.66	12.08	10.29	16.68	13.02	9.87
T_9: RDF**	14.64	13.52	16.51	14.89	17.71	15.57	25.57	19.62	11.74	11.75	18.07	13.85	16.12
CD at 5 %	1.57	0.88	1.11		2.93	1.95	4.69		1.39	1.37	2.27		
CV (%)	10.8	6.2	6.3		16.5	13.2	16.7		6.8	7.0	7.5		

Table II.98: PMAT 5A: Effect of organic and natural farming on straw yield of mustard crop in Pearl millet-mustard cropping system during Rabi 2022-23, 2023-24 and 2024-25 in Zone A

Treatment	Straw yield (q/ha)												Zonal mean
	HSR				JMR				JPR				
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	
T_1:Control	23.84	27.47	26.52	25.94	13.88	12.16	16.13	14.06	19.45	18.99	38.43	25.62	21.87
T_2: RDN* through Farm yard manure (FYM)	30.89	34.79	33.67	33.12	17.25	13.99	19.27	16.83	25.77	25.35	39.60	30.24	26.73
T_3: RDN through Vermicompost (VC)	31.07	32.65	31.26	31.66	17.91	14.02	19.34	17.09	27.70	27.29	43.14	32.71	27.15
T_4: RDN through Poultry manure(PM)	31.23	33.49	32.32	32.35	19.64	15.72	23.44	19.60	29.08	28.67	49.33	35.70	29.21
T_5: RDN through FYM+ Biofertilizer	33.94	37.56	35.82	35.77	20.77	17.14	22.16	20.02	28.56	27.48	44.81	33.62	29.81
T_6: RDN through Vermicompost+ Biofertilizer	34.54	36.49	35.17	35.40	21.43	18.87	27.89	22.73	28.11	27.66	49.33	35.03	31.05
T_7: RDN through Poultry manure + Biofertilizer	34.94	37.09	35.59	35.87	24.03	21.58	30.82	25.48	29.25	28.83	53.73	37.27	32.87
T_8: *** Cow based bio formulation	25.77	31.17	28.98	28.64	18.66	14.23	22.04	18.31	28.00	27.58	51.59	35.72	27.56
T_9: RDF**	48.03	47.89	50.18	48.70	28.42	24.30	34.16	28.96	27.12	26.70	52.77	35.53	37.73
CD at 5 %	4.66	3.36	3.41		4.78	3.17	6.01		3.12	3.59	7.44		
CV (%)	8.2	5.4	5.7		13.5	10.8	14.4		6.6	7.7	9.1		

Table II.99: PMAT 5A: Effect of organic and natural farming on siliqua/plant, seeds/siliqua and test weight of mustard crop in Pearl millet-mustard cropping system during Rabi 2024-25 in Zone A

Treatment	Siliquae/plant				No. of seeds/siliqua				Test weight (g)			
	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean	HSR	JMR	JPR	Mean
T_1:Control	264.3	429.5	167.7	287.1	12.20	5.29	8.79	8.76	5.00	2.49	4.70	4.06
T_2: RDN* through Farm yard manure (FYM)	384.8	490.7	180.3	351.9	14.20	5.92	9.69	9.94	5.70	3.19	4.95	4.62
T_3: RDN through Vermicompost (VC)	378.0	504.9	197.7	360.2	13.80	6.08	11.54	10.47	5.60	3.66	5.28	4.85
T_4: RDN through Poultry manure(PM)	381.2	514.5	204.7	366.8	14.00	6.22	12.05	10.76	5.60	4.02	5.66	5.09
T_5: RDN through FYM+ Biofertilizer	388.2	528.1	182.3	366.2	15.00	6.29	11.44	10.91	5.90	4.12	5.44	5.15
T_6: RDN through Vermicompost+ Biofertilizer	383.2	529.7	205.3	372.8	14.70	6.43	12.28	11.14	5.80	4.30	5.71	5.27
T_7: RDN through Poultry manure + Biofertilizer	385.6	560.0	209.7	385.1	15.00	6.80	12.62	11.48	5.90	4.44	5.77	5.37
T_8: *** Cow based bio formulation	282.0	509.0	188.7	326.6	13.00	6.11	12.69	10.60	5.30	3.94	5.54	4.93
T_9: RDF**	453.7	726.3	184.7	454.9	17.00	7.10	12.62	12.24	6.00	4.93	5.70	5.54
CD at 5 %	8.6	87.6	17.3		1.70	0.93	0.74		0.30	0.59	0.48	
CV (%)	1.3	9.4	5.2		6.8	8.5	3.7		3.5	8.6	5.1	

Table II.100: PMAT 5A: Effect of organic and natural farming on no. of siliqua on main shoot, plant height, siliqua length and oil content of mustard crop in Pearl millet-mustard cropping system during Rabi 2024-25 in Zone A

Treatment	No. of siliqua on main shoot	Plant height (cm)	Length of silique (cm)	Primary branches per plant			Secondary branches per plant			Oil content (%)		
	HSR	JMR	JMR	JMR	JPR	Mean	JMR	JPR	Mean	HSR	JMR	Mean
T_1:Control	50.3	162.3	5.3	5.5	3.2	4.4	16.6	8.6	12.6	38.7	29.9	34.3
T_2: RDN* through Farm yard manure (FYM)	64.0	168.2	5.9	6.1	3.7	4.9	17.5	9.9	13.7	39.5	34.7	37.1
T_3: RDN through Vermicompost (VC)	60.0	170.7	6.1	6.3	4.9	5.6	17.9	11.0	14.5	40.0	32.4	36.2
T_4: RDN through Poultry manure(PM)	63.3	172.4	6.2	7.1	5.1	6.1	18.6	12.6	15.6	39.9	32.5	36.2
T_5: RDN through FYM+ Biofertilizer	66.3	174.3	6.3	7.3	4.7	6.0	19.5	10.4	15.0	39.7	33.3	36.5
T_6: RDN through Vermicompost+ Biofertilizer	63.0	179.1	6.4	7.7	5.0	6.3	20.3	12.9	16.6	40.1	33.6	36.9
T_7: RDN through Poultry manure + Biofertilizer	64.7	181.1	6.8	7.7	6.0	6.9	20.9	13.5	17.2	39.8	35.5	37.7
T_8: *** Cow based bio formulation	54.7	171.0	6.1	6.9	5.6	6.2	18.3	12.6	15.4	39.5	32.6	36.1
T_9: RDF**	72.3	191.5	7.1	9.3	5.3	7.3	24.5	13.0	18.8	40.1	34.9	37.5
CD at 5 %	4.0	11.3	0.9	0.6	0.4		2.7	1.2		0.8	2.4	
CV (%)	3.7	3.7	8.5	4.5	4.4		8.0	5.9		1.1	4.2	

Table II.101: PMAT 5A: Effect of organic and natural farming on soil OC and available NPK of soil after harvest in Pearl millet-mustard cropping system during Rabi 2023-24 and Rabi 2024-25 in Jamnagar Zone A

Treatment	Soil after harvest											
	OC (%)			Available N (kg/ha)			Available P (kg/ha)			Available K (kg/ha)		
	2023-24	2024-25	Mean	2023-24	2024-25	Mean	2023-24	2024-25	Mean	2023-24	2024-25	Mean
T_1:Control	0.47	0.46	0.46	181.4	180.1	180.7	17.6	17.7	17.6	287.3	281.4	284.3
T_2: RDN* through Farm yard manure (FYM)	0.65	0.66	0.65	193.3	193.6	193.4	23.1	23.3	23.2	303.2	305.9	304.6
T_3: RDN through Vermicompost (VC)	0.61	0.60	0.61	195.5	195.9	195.7	22.6	22.9	22.7	311.0	309.6	310.3
T_4: RDN through Poultry manure(PM)	0.68	0.69	0.69	200.9	201.1	201.0	25.2	25.3	25.2	321.4	323.9	322.6
T_5: RDN through FYM+ Biofertilizer	0.70	0.71	0.71	188.6	188.9	188.7	24.6	24.9	24.7	316.2	318.2	317.2
T_6: RDN through Vermicompost+ Biofertilizer	0.67	0.69	0.68	201.3	202.1	201.7	25.2	25.4	25.3	318.5	317.1	317.8
T_7: RDN through Poultry manure + Biofertilizer	0.70	0.69	0.70	204.8	205.4	205.1	27.5	27.7	27.6	324.4	325.0	324.7
T_8: *** Cow based bio formulation	0.62	0.61	0.62	198.8	199.1	198.9	24.7	25.0	24.8	316.9	319.9	318.4
T_9: RDF**	0.44	0.47	0.46	225.0	226.4	225.7	27.3	27.0	27.2	314.9	317.3	316.1
CD at 5 %	0.07	0.06		17.1	16.5		3.6	3.6		20.5	14.4	
CV (%)	6.2	5.2		4.9	4.7		8.5	8.5		3.7	2.6	

Table II.102: PMAT 5A: Effect of organic and natural farming on economics of mustard crop after harvest in Pearl millet-mustard cropping system during Rabi 2023-24 and Rabi 2024-25 in Jamnagar and pearl millet equivalent yield (PEY) in Hisar centre of Zone A

Treatment	Gross returns (Rs./ha)			Net returns (Rs./ha)			B:C			PMEY (q/ha)		
	Jamnagar									HSR		
	2023-24	2024-25	Mean	2023-24	2024-25	Mean	2023-24	2024-25	Mean	2023-24	2024-25	Mean
T_1:Control	34088	80377	57233	11864	56777	34321	1.53	3.41	2.47	47.23	44.31	45.77
T_2: RDN* through Farm yard manure (FYM)	41235	94049	67642	14011	65449	39730	1.51	3.29	2.40	61.14	60.75	60.95
T_3: RDN through Vermicompost (VC)	46277	96517	71397	14053	62917	38485	1.44	2.87	2.16	61.75	60.73	61.24
T_4: RDN through Poultry manure(PM)	54714	112674	83694	26240	82824	54532	1.92	3.77	2.85	63.05	62.70	62.88
T_5: RDN through FYM+ Biofertilizer	60401	132543	96472	33177	103943	68560	2.22	4.63	3.43	66.02	64.22	65.12
T_6: RDN through Vermicompost+ Biofertilizer	69272	148024	108648	36898	114274	75586	2.14	4.39	3.27	66.02	64.49	65.26
T_7: RDN through Poultry manure + Biofertilizer	85751	161685	123718	57127	131685	94406	3.00	5.39	4.20	67.37	65.90	66.64
T_8: *** Cow based bio formulation	48592	110221	79407	21593	81696	51645	1.80	3.86	2.83	52.70	52.21	52.46
T_9: RDF**	94635	167887	131261	65936	137762	101849	3.30	5.57	4.44	87.78	85.78	86.78

Table II.103: PMAT 5B: Effect of organic and natural farming on grain yield of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Grain yield (q/ha)																									Zonal Mean
	ABD					DHL					VYP					CBE					PML					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	19.38	15.04	14.12	14.78	15.83	10.65	13.30	14.63	15.26	13.46	17.16	16.45	14.38	10.32	14.58	17.49	17.49	16.24	14.31	16.38	12.29	14.35	13.40	-	13.35	**14.72**
T_2: RDN* through Farm yard manure (FYM)	20.72	17.90	17.36	16.41	18.10	15.59	20.99	21.23	22.85	20.17	22.56	19.87	21.11	20.68	21.05	20.28	20.28	19.53	18.24	19.58	21.94	24.16	23.19	-	23.10	**20.40**
T_3: RDN through Vermicompost (VC)	21.88	18.31	18.06	17.14	18.85	14.72	19.28	20.83	21.26	19.02	23.86	20.95	21.67	21.32	21.95	20.84	20.84	20.18	18.49	20.09	22.97	25.40	24.32	-	24.23	**20.83**
T_4: RDN through Poultry manure(PM)	22.83	18.43	18.29	17.44	19.24	14.09	18.96	19.37	20.92	18.34	22.24	20.62	20.56	18.05	20.37	19.68	19.68	19.24	18.75	19.34	23.92	29.54	25.11	-	26.19	**20.69**
T_5: RDN through FYM+ Biofertilizer	25.00	20.83	21.99	20.90	22.18	18.29	24.32	25.40	26.48	23.62	24.84	21.01	22.41	22.53	22.70	20.49	20.49	21.69	19.67	20.58	30.07	28.86	27.82	-	28.92	**23.60**
T_6: RDN through Vermicompost+ Biofertilizer	25.72	21.76	22.22	20.10	22.45	17.37	23.40	24.45	24.69	22.48	26.03	21.82	24.59	24.17	24.15	22.58	22.58	22.61	20.57	22.09	23.59	28.54	26.70	-	26.28	**23.49**
T_7: RDN through Poultry manure + Biofertilizer	26.39	22.36	23.38	22.27	23.60	16.72	22.12	23.10	23.42	21.34	23.93	21.65	20.16	19.31	21.26	23.41	23.41	22.11	20.71	22.41	27.40	27.96	26.90	-	27.42	**23.21**
T_8: *** Cow based bio formulation	22.43	18.29	19.21	18.53	19.62	12.85	17.95	18.85	19.35	17.25	21.61	19.81	19.84	16.39	19.41	22.85	22.85	24.39	20.94	22.76	22.92	23.33	14.39	-	20.22	**19.85**
T_9: RDF**	33.52	25.46	26.28	24.89	27.54	19.50	25.69	26.21	27.23	24.66	26.77	20.71	22.09	19.04	22.16	28.87	28.87	27.43	21.85	26.76	32.67	33.08	28.47	-	31.41	**26.50**
CD at 5 %	5.45	3.51	4.82	2.76		2.77	2.60	4.77	3.46		3.15	2.41	3.45	3.85		3.54	3.54	3.66	2.20		6.12	5.82	5.22	-		
CV (%)	12.90	10.14	13.74	8.26		10.23	7.19	12.67	8.87		7.77	6.80	9.52	11.55		9.27	9.27	9.75	6.52		14.48	12.75	12.80	-		

Table II.104: PMAT 5B: Effect of organic and natural farming on stover yield of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Stover yield (q/ha)																									Zonal Mean
	ABD					DHL					VYP					CBE					PML					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	38.89	39.12	30.56	34.00	35.64	20.97	22.37	26.81	28.10	24.56	47.60	49.71	43.71	32.26	43.32	29.18	29.18	28.19	22.67	27.31	27.29	21.74	20.83	-	23.29	**30.82**
T_2: RDN* through Farm yard manure (FYM)	41.37	46.52	37.73	38.07	40.92	32.85	35.29	38.90	42.09	37.28	54.98	51.27	51.18	50.09	51.88	33.26	33.26	32.58	27.87	31.74	38.93	36.87	23.84	-	33.21	**39.01**
T_3: RDN through Vermicompost (VC)	43.66	47.61	39.82	39.26	42.59	29.97	32.49	38.16	39.15	34.94	55.12	52.55	49.54	51.71	52.23	32.66	32.66	33.64	27.73	31.67	41.71	37.80	36.80	-	38.77	**40.04**
T_4: RDN through Poultry manure(PM)	44.45	47.91	40.28	40.10	43.18	27.18	31.90	35.49	38.54	33.28	54.21	51.50	51.55	47.82	51.27	21.18	21.18	31.91	27.97	25.56	42.89	40.97	40.97	-	41.61	**38.98**
T_5: RDN through FYM+ Biofertilizer	46.87	55.21	43.29	48.06	48.36	35.42	40.91	46.54	48.78	42.91	57.29	53.61	52.59	54.72	54.55	31.23	31.23	33.94	30.40	31.70	48.43	44.31	44.61	-	45.78	**44.66**
T_6: RDN through Vermicompost+ Biofertilizer	47.34	57.66	47.45	46.43	49.72	33.80	39.35	44.79	45.47	40.85	59.54	54.70	54.07	57.69	56.50	34.57	34.57	34.59	31.80	33.88	46.81	40.07	45.83	-	44.24	**45.04**
T_7: RDN through Poultry manure + Biofertilizer	47.11	59.27	48.38	51.00	51.44	31.83	37.21	42.31	43.13	38.62	55.16	55.23	51.76	48.47	52.66	35.67	35.67	34.87	32.13	34.58	44.07	44.54	43.05	-	43.89	**44.24**
T_8: *** Cow based bio formulation	44.21	47.54	40.05	42.63	43.61	24.67	30.20	34.54	35.66	31.27	52.04	51.69	48.98	43.68	49.10	34.27	34.27	36.59	32.49	34.40	44.86	40.37	36.04	-	40.42	**39.76**
T_9: RDF**	58.10	66.20	57.41	57.00	59.68	37.05	43.21	48.02	50.16	44.61	61.25	52.39	51.25	49.40	53.57	40.28	40.28	41.25	34.07	38.97	53.15	48.61	46.99	-	49.58	**49.28**
CD at 5 %	7.45	9.21	9.05	6.35		8.10	4.35	8.74	6.38		6.02	NS	5.37	7.24		4.15	4.15	5.05	3.34		6.95	5.42	7.76	-		
CV (%)	9.3	10.2	12.1	8.3		15.3	7.2	12.7	8.9		6.2	5.5	6.1	8.6		7.3	7.3	8.5	6.4		9.2	7.9	11.8	-		

Table II.105: PMAT 5B: Effect of organic and natural farming on earhead girth, plant height, plant population and test weight of pearl millet crop during kharif 2025 in Zone B

Treatment	Earhead girth (mm)				Plant height (cm)						Plant population ('000/ha)					Test weight (g)					
	DHL	VYP	CBE	Mean	ABD	DHL	VYP	CBE	PML	Mean	ABD	CBE	VYP	PML	Mean	ABD	VYP	DHL	PML	CBE	Mean
T_1:Control	28.3	25.1	21.5	**25.0**	167.0	180.3	154.3	148.4	-	**162.5**	215.3	129.0	138.0	-	**160.7**	12.9	10.9	11.5	-	11.1	**11.6**
T_2: RDN* through Farm yard manure (FYM)	29.8	31.2	29.4	**30.1**	172.9	192.0	171.6	153.2	-	**172.4**	217.4	142.0	138.9	-	**166.1**	13.6	11.9	11.9	-	12.2	**12.4**
T_3: RDN through Vermicompost (VC)	29.4	31.4	29.9	**30.2**	174.2	185.7	174.3	154.6	-	**172.2**	216.0	138.0	138.4	-	**164.2**	14.0	11.8	12.0	-	12.4	**12.5**
T_4: RDN through Poultry manure(PM)	29.2	28.1	30.5	**29.3**	177.0	185.7	170.8	155.7	-	**172.3**	217.2	144.0	140.5	-	**167.2**	14.3	11.3	12.0	-	12.4	**12.5**
T_5: RDN through FYM+ Biofertilizer	29.9	31.6	31.9	**31.2**	183.6	188.3	176.3	164.5	-	**178.2**	216.6	152.0	137.0	-	**168.6**	14.4	12.2	12.2	-	12.5	**12.8**
T_6: RDN through Vermicompost+ Biofertilizer	29.7	33.4	32.4	**31.8**	183.8	188.3	180.1	163.8	-	**179.0**	218.9	150.0	138.0	-	**169.0**	14.5	12.4	12.0	-	12.9	**12.9**
T_7: RDN through Poultry manure + Biofertilizer	29.5	29.0	33.3	**30.6**	186.9	186.3	171.2	159.4	-	**176.0**	214.9	151.0	132.9	-	**166.3**	14.7	11.5	12.2	-	13.1	**12.9**
T_8: *** Cow based bio formulation	29.2	27.6	33.8	**30.2**	174.2	186.0	168.5	164.3	-	**173.3**	200.2	152.0	137.3	-	**163.2**	13.5	11.0	12.2	-	13.2	**12.5**
T_9: RDF**	30.0	30.2	35.1	**31.8**	188.7	194.0	174.8	173.8	-	**182.8**	218.6	154.0	136.8	-	**169.8**	15.3	11.7	12.3	-	13.9	**13.3**
CD at 5 %	NS	2.2	2.7		13.7	NS	7.9	NS	-		NS	8.5	NS	-		1.4	0.7	0.3	-	0.8	
CV (%)	2.5	4.2	4.9		4.4	2.6	2.6	5.7	-		3.9	3.3	2.4	-		5.5	3.3	1.5	-	3.5	

Table II.106: PMAT 5B: Effect of organic and natural farming on total tillers/plant, effective tillers/plant and earhead length of pearl millet crop during kharif 2025 in Zone B

Treatment	Total tillers/plant						Effective tillers/plant						Earhead Length (cm)			
	ABD	DHL	VYP	CBE	PML	Mean	ABD	DHL	VYP	CBE	PML	Mean	DHL	VYP	CBE	Mean
T_1:Control	3.1	3.1	3.1	3.1	-	**3.1**	2.1	1.8	2.1	2.1	-	**2.0**	17.5	17.7	21.1	**18.8**
T_2: RDN* through Farm yard manure (FYM)	3.7	3.8	3.5	4.1	-	**3.8**	2.7	2.7	2.4	2.5	-	**2.6**	20.6	20.7	23.9	**21.7**
T_3: RDN through Vermicompost (VC)	3.8	3.7	3.5	4.1	-	**3.8**	2.8	2.5	2.5	2.4	-	**2.6**	19.9	21.5	23.8	**21.7**
T_4: RDN through Poultry manure(PM)	3.9	3.5	3.3	4.2	-	**3.7**	2.9	2.4	2.3	2.5	-	**2.5**	19.6	20.3	23.8	**21.2**
T_5: RDN through FYM+ Biofertilizer	4.5	4.1	3.6	4.1	-	**4.1**	3.6	2.7	2.5	2.6	-	**2.8**	20.8	22.0	26.9	**23.2**
T_6: RDN through Vermicompost+ Biofertilizer	5.1	4.0	3.7	4.4	-	**4.3**	4.3	2.5	2.7	2.7	-	**3.0**	20.6	22.7	26.7	**23.4**
T_7: RDN through Poultry manure + Biofertilizer	5.3	3.8	3.4	4.5	-	**4.2**	4.3	2.5	2.3	2.7	-	**3.0**	20.4	19.8	26.7	**22.3**
T_8: *** Cow based bio formulation	3.6	3.6	3.3	4.5	-	**3.7**	2.6	2.4	2.2	2.8	-	**2.5**	20.2	19.1	28.6	**22.7**
T_9: RDF**	5.8	4.3	3.4	4.8	-	**4.6**	4.8	2.9	2.4	3.4	-	**3.4**	20.9	20.4	30.9	**24.0**
CD at 5 %	0.8	0.3	0.3	NS	-		0.8	0.2	0.3	NS	-		0.4	1.3	2.4	
CV (%)	10.2	4.9	4.9	15.3	-		13.0	4.9	7.0	17.3	-		1.3	3.7	5.3	

Table II.107: PMAT 5B: Effect of organic and natural farming on gross returns of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Gross returns (Rs./ha)																				Zonal Mean
	ABD					DHL					CBE					PML					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	59892	48780	47766	51150	51897	28298	35042	38730	40391	35615	32645	32645	74852	47531	46918	39328	57413	48763	-	48501	45733
T_2: RDN* through Farm yard manure (FYM)	64006	58011	58762	56844	59406	41603	55283	56196	60497	53395	37797	37797	86440	60293	55582	70208	96640	83287	-	83378	62940
T_3: RDN through Vermicompost (VC)	67578	59362	61227	59282	61862	39197	50805	55118	56275	50349	38689	38689	89000	61016	56849	73515	101587	88679	-	87927	64247
T_4: RDN through Poultry manure(PM)	70322	59737	62002	60331	63098	37394	49959	51265	55392	48503	35569	35569	82953	61845	53984	76530	118147	92543	-	95740	65331
T_5: RDN through FYM+ Biofertilizer	76719	67719	73530	72303	72567	48556	64077	67230	70100	62491	37950	37950	89535	65091	57632	96235	115453	104024	-	105237	74482
T_6: RDN through Vermicompost+ Biofertilizer	78771	70728	75046	69586	73533	46124	61632	64706	65357	59455	41843	41843	91661	68069	60854	75499	114160	103452	-	97704	72886
T_7: RDN through Poultry manure + Biofertilizer	80578	72700	78646	77010	77233	44346	58277	61128	61992	56436	43369	43369	92525	68557	61955	87691	111853	106584	-	102043	74417
T_8: *** Cow based bio formulation	69200	59286	64688	64125	64325	34092	47306	49899	51244	45635	42278	42278	96616	69317	62622	73344	93333	49392	-	72023	61151
T_9: RDF**	102053	82551	88987	86070	89915	51720	67675	69374	72091	65215	53107	53107	109167	72364	71936	104563	132320	109106	-	115330	85599
CD at 5 %	15746	11393	14819	9560		7301	6836	12632	9175		-	-	-	-		19575	23262	19515	-		
CV (%)	12.1	10.1	12.5	8.3		10.1	7.2	12.7	8.9		-	-	-	-		14.5	12.7	12.8	-		

Table II.108: PMAT 5B: Effect of organic and natural farming on net returns of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Net returns (Rs./ha)																				Zonal Mean
	ABD					DHL					CBE					PML					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	32892	21780	20266	22617	24389	8781	13183	13811	12979	12189	15745	15745	43452	15631	22643	11828	18913	10263	-	13668	18222
T_2: RDN* through Farm yard manure (FYM)	33006	27011	27262	23794	27768	16975	27699	24752	25908	23834	-14103	-18331	42540	11665	5443	39208	54140	40787	-	44712	25439
T_3: RDN through Vermicompost (VC)	36078	27862	29227	27282	30112	4628	12088	10981	7724	8855	-6171	-6171	34670	6186	7129	41014	58753	45679	-	48482	23644
T_4: RDN through Poultry manure(PM)	38322	27737	29502	29431	31248	12809	22424	19875	20863	18993	-4665	-4665	28219	6611	6375	43030	74647	49043	-	55573	28047
T_5: RDN through FYM+ Biofertilizer	45219	36219	41530	40003	40743	23903	36466	35753	35476	32900	-14550	-14550	44785	19841	8882	64435	72453	61024	-	65971	37124
T_6: RDN through Vermicompost+ Biofertilizer	46771	38728	42546	37236	41320	11530	22886	20536	16771	17931	-3617	-3617	37051	12959	10694	42199	70660	59952	-	57604	31887
T_7: RDN through Poultry manure + Biofertilizer	48078	40200	45646	45110	44758	19734	30712	29704	27426	26894	2535	-26874	42541	18073	9069	53491	67853	62584	-	61309	35508
T_8: *** Cow based bio formulation	40200	30286	35188	31525	34300	12633	23272	22500	21105	19877	15378	15378	60216	32417	30847	44344	53833	21059	-	39745	31192
T_9: RDF**	72053	52551	57987	54770	59340	29761	43081	41337	41251	38857	21197	21197	70267	32964	36406	74563	90820	67606	-	77663	53067
CD at 5 %	15746	11393	14819	9632		7301	6837	12632	9175		-	-	-	-		19574	23283	19460	-		
CV (%)	20.7	19.4	23.2	15.9		26.7	15.2	29.7	22.6		-	-	-	-		24.4	21.4	24.0	-		

Table II.109: PMAT 5B: Effect of organic and natural farming on BC ratio of pearl millet crop during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	BC ratio (%)																				Zonal Mean
	ABD					DHL					CBE					PML					
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	2.22	1.80	1.74	1.79	1.89	1.45	1.60	1.55	1.47	1.52	1.93	1.93	2.38	1.49	1.93	1.43	1.49	1.26	-	1.39	1.68
T_2: RDN* through Farm yard manure (FYM)	2.06	1.87	1.87	1.72	1.88	1.69	2.01	1.79	1.75	1.81	0.73	0.67	1.97	1.24	1.15	2.26	2.27	1.95	-	2.16	1.75
T_3: RDN through Vermicompost (VC)	2.14	1.88	1.91	1.85	1.95	1.14	1.31	1.25	1.16	1.21	0.86	0.86	1.64	1.11	1.12	2.26	2.36	2.06	-	2.23	1.63
T_4: RDN through Poultry manure(PM)	2.20	1.87	1.91	1.95	1.98	1.52	1.81	1.63	1.60	1.64	0.88	0.88	1.52	1.12	1.10	2.29	2.71	2.12	-	2.37	1.77
T_5: RDN through FYM+ Biofertilizer	2.43	2.15	2.30	2.24	2.28	1.97	2.32	2.14	2.03	2.11	0.72	0.72	2.00	1.44	1.22	3.02	2.68	2.42	-	2.71	2.08
T_6: RDN through Vermicompost+ Biofertilizer	2.46	2.21	2.31	2.15	2.28	1.33	1.59	1.46	1.34	1.43	0.92	0.92	1.68	1.24	1.19	2.27	2.63	2.37	-	2.42	1.83
T_7: RDN through Poultry manure + Biofertilizer	2.48	2.24	2.38	2.41	2.38	1.80	2.12	1.95	1.79	1.92	1.06	0.62	1.85	1.36	1.22	2.56	2.54	2.42	-	2.51	2.01
T_8: *** Cow based bio formulation	2.39	2.04	2.19	1.97	2.15	1.59	1.97	1.82	1.70	1.77	1.57	1.57	2.65	1.88	1.92	2.53	2.36	1.73	-	2.21	2.01
T_9: RDF**	3.40	2.75	2.87	2.75	2.94	2.36	2.75	2.47	2.34	2.48	1.66	1.66	2.81	1.84	1.99	3.48	3.19	2.62	-	3.10	2.63
CD at 5 %	0.52	0.37	0.49	0.31		0.28	0.24	0.39	0.25		-	-	-	-		0.62	0.56	0.46	-		
CV (%)	12.4	10.1	12.9	8.5		9.7	7.0	12.5	8.3		-	-	-	-		14.6	13.0	12.6	-		

Table II.110: PMAT 5B: Effect of organic and natural farming on chemical properties of soil after harvesting of pearl millet during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	After harvest																										
	pH														Zonal Mean	EC (ds/m)												Zonal Mean
	DHL			VYP					PML							DHL			VYP					PML					
	2022	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean			2022	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	7.90	8.18	8.04	8.21	8.21	8.17	8.21	8.20	7.49	7.50	7.46	-	7.48	7.91	7.90	0.42	0.40	0.41	0.32	0.33	0.33	0.32	0.33	0.47	0.44	0.47	-	0.46	0.40
T_2: RDN* through Farm yard manure (FYM)	7.86	8.15	8.01	8.22	8.21	8.18	8.15	8.19	7.49	7.51	7.55	-	7.52	7.90	7.90	0.39	0.38	0.39	0.33	0.32	0.33	0.32	0.33	0.45	0.50	0.48	-	0.47	0.40
T_3: RDN through Vermicompost (VC)	7.88	8.15	8.02	8.22	8.23	8.20	8.13	8.20	7.54	7.50	7.54	-	7.53	7.91	7.91	0.39	0.38	0.39	0.33	0.32	0.32	0.33	0.33	0.50	0.47	0.51	-	0.49	0.40
T_4: RDN through Poultry manure(PM)	7.90	8.16	8.03	8.22	8.22	8.21	8.29	8.24	7.56	7.53	7.42	-	7.50	7.92	7.92	0.42	0.41	0.42	0.33	0.31	0.34	0.32	0.32	0.50	0.48	0.49	-	0.49	0.41
T_5: RDN through FYM+ Biofertilizer	7.86	8.15	8.01	8.20	8.22	8.19	8.08	8.17	7.52	7.46	7.57	-	7.52	7.90	7.90	0.39	0.38	0.39	0.33	0.33	0.33	0.32	0.33	0.53	0.47	0.54	-	0.51	0.41
T_6: RDN through Vermicompost+ Biofertilizer	7.88	8.15	8.02	8.20	8.23	8.20	8.15	8.20	7.54	7.54	7.47	-	7.52	7.91	7.91	0.39	0.38	0.39	0.33	0.32	0.33	0.31	0.32	0.51	0.49	0.53	-	0.51	0.41
T_7: RDN through Poultry manure + Biofertilizer	7.90	8.16	8.03	8.23	8.23	8.16	8.17	8.19	7.46	7.51	7.55	-	7.51	7.91	7.91	0.42	0.40	0.41	0.34	0.32	0.33	0.33	0.33	0.50	0.45	0.50	-	0.48	0.41
T_8: *** Cow based bio formulation	7.88	8.15	8.02	8.16	8.20	8.17	8.12	8.16	7.55	7.50	7.53	-	7.53	7.90	7.90	0.41	0.39	0.40	0.32	0.33	0.32	0.32	0.32	0.48	0.48	0.54	-	0.50	0.41
T_9: RDF**	7.92	8.22	8.07	8.27	8.23	8.18	8.14	8.21	7.44	7.54	7.58	-	7.52	7.93	7.93	0.43	0.43	0.43	0.33	0.34	0.33	0.32	0.33	0.50	0.46	0.52	-	0.50	0.42
CD at 5 %	-	-		NS	NS	NS	NS		NS	NS	NS	-				-	-		NS	0.01	NS	NS		NS	NS	NS	-		
CV (%)	-	-		0.8	0.4	1.0	0.9		1.2	0.7	2.1	-				-	-		2.5	2.1	2.3	3.8		5.5	7.1	9.8	-		

Table II.111: PMAT 5B: Effect of organic and natural farming on available N and P of soil after harvesting of pearl millet during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Available N&P after harvest (kg/ha)																										
	Available N														Zonal Mean	Available P												Zonal Mean
	DHL			VYP					PML							DHL			VYP					PML					
	2022	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean			2022	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	178.7	164.0	171.4	182.1	174.2	174.4	160.5	172.8	183.9	221.7	209.0	-	204.9	183.0	183.0	16.3	14.2	15.2	18.7	18.2	18.3	16.8	18.0	58.8	34.3	35.3	-	42.8	25.3
T_2: RDN* through Farm yard manure (FYM)	213.4	216.0	214.7	212.2	203.5	205.3	212.7	208.4	196.5	238.3	246.7	-	227.2	216.8	216.8	17.1	15.9	16.5	21.2	23.3	23.6	23.5	22.9	59.5	39.7	37.3	-	45.5	28.3
T_3: RDN through Vermicompost (VC)	209.2	213.0	211.1	223.2	210.5	212.8	209.2	213.9	188.1	250.7	254.7	-	231.1	218.7	218.7	17.1	15.8	16.4	21.7	24.2	23.1	24.1	23.3	68.7	41.7	39.7	-	50.0	29.9
T_4: RDN through Poultry manure(PM)	202.5	214.0	208.3	208.4	205.4	207.7	205.8	206.8	192.3	246.7	242.7	-	227.2	214.1	214.1	16.9	15.6	16.3	20.8	24.3	24.1	23.8	23.2	60.3	44.7	44.3	-	49.8	29.7
T_5: RDN through FYM+ Biofertilizer	213.7	217.0	215.4	221.5	211.1	211.1	218.0	215.4	183.9	250.7	234.3	-	223.0	217.9	217.9	17.2	15.9	16.5	21.9	24.6	24.4	24.5	23.8	56.5	42.0	42.7	-	47.1	29.1
T_6: RDN through Vermicompost+ Biofertilizer	210.7	216.0	213.3	223.7	215.6	215.9	222.3	219.4	204.8	234.0	246.7	-	228.5	220.4	220.4	17.1	15.9	16.5	22.1	25.4	25.2	26.3	24.7	67.6	49.3	52.7	-	56.5	32.6
T_7: RDN through Poultry manure + Biofertilizer	203.4	215.0	209.2	219.5	212.2	218.6	216.9	216.8	217.4	255.0	242.3	-	238.2	221.4	221.4	17.0	15.6	16.3	21.0	24.8	24.4	24.7	23.7	67.2	47.7	53.0	-	55.9	32.0
T_8: *** Cow based bio formulation	206.2	211.0	208.6	215.6	192.1	193.7	187.0	197.1	167.2	276.0	242.3	-	228.5	211.4	211.4	16.4	15.6	16.0	22.0	22.7	22.7	21.7	22.3	68.1	40.0	58.3	-	55.5	31.2
T_9: RDF**	197.3	192.0	194.6	211.5	179.4	182.9	178.4	188.0	209.0	242.3	263.3	-	238.2	207.0	207.0	17.2	16.0	16.6	20.7	21.7	21.4	20.4	21.1	67.9	39.7	55.0	-	54.2	30.6
CD at 5 %	-	-		15.6	11.4	10.8	20.8		NS	NS	21.1	-				-	-		1.9	2.0	2.3	4.3		9.0	4.4	7.6	-		
CV (%)	-	-		4.2	3.2	3.1	5.9		9.1	8.7	5.0	-				-	-		5.2	5.0	5.7	10.9		8.1	6.0	9.3	-		

Table II.112: PMAT 5B: Effect of organic and natural farming on available K and OC of soil after harvesting of pearl millet during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Available K (kg/ha) and OC (%) after harvest																										
	Available K														Zonal Mean	OC (%)												Zonal Mean
	DHL			VYP					PML							DHL			VYP					PML					
	2022	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean			2022	2025	Mean	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean	
T_1:Control	542.0	442.0	492.0	389.7	383.0	377.8	361.9	378.1	221.3	167.7	175.3	-	188.1	352.7		0.48	0.41	0.45	0.65	0.62	0.60	0.61	0.62	0.49	0.36	0.39	-	0.41	0.49
T_2: RDN* through Farm yard manure (FYM)	556.0	466.0	511.0	411.5	415.9	417.6	415.7	415.2	239.0	179.0	188.7	-	202.2	376.1		0.58	0.52	0.55	0.71	0.68	0.68	0.69	0.69	0.51	0.42	0.43	-	0.45	0.56
T_3: RDN through Vermicompost (VC)	556.0	466.0	511.0	416.6	418.2	422.2	423.6	420.1	220.3	194.7	229.3	-	214.8	382.0		0.56	0.52	0.54	0.68	0.69	0.70	0.70	0.69	0.50	0.43	0.43	-	0.45	0.56
T_4: RDN through Poultry manure(PM)	552.0	463.0	507.5	402.3	410.2	413.8	414.3	410.2	248.0	192.3	201.7	-	214.0	377.2		0.56	0.52	0.54	0.68	0.68	0.68	0.68	0.68	0.51	0.42	0.43	-	0.45	0.56
T_5: RDN through FYM+ Biofertilizer	558.0	468.0	513.0	423.5	417.4	419.2	417.1	419.3	233.7	190.3	204.7	-	209.6	380.6		0.58	0.53	0.56	0.70	0.69	0.70	0.70	0.70	0.50	0.44	0.45	-	0.46	0.57
T_6: RDN through Vermicompost+ Biofertilizer	556.0	468.0	512.0	428.5	421.3	425.5	430.0	426.3	258.0	203.0	206.7	-	222.6	387.0		0.56	0.52	0.54	0.71	0.70	0.69	0.71	0.70	0.50	0.44	0.47	-	0.47	0.57
T_7: RDN through Poultry manure + Biofertilizer	556.0	464.0	510.0	408.8	411.3	412.1	414.9	411.8	219.0	204.7	210.7	-	211.4	377.7		0.56	0.52	0.54	0.68	0.68	0.69	0.66	0.68	0.50	0.46	0.46	-	0.48	0.56
T_8: *** Cow based bio formulation	557.0	465.0	511.0	414.9	406.9	396.8	390.0	402.1	272.3	172.7	187.7	-	210.9	374.7		0.57	0.53	0.55	0.67	0.62	0.64	0.65	0.64	0.51	0.43	0.45	-	0.46	0.55
T_9: RDF**	568.0	477.0	522.5	395.1	390.7	387.3	382.8	389.0	213.0	199.3	198.0	-	203.4	371.6		0.56	0.46	0.51	0.66	0.62	0.62	0.61	0.63	0.50	0.42	0.41	-	0.44	0.53
CD at 5 %	-	-		22.1	8.8	NS	30.3		23.5	19.5	27.0	-				-	-		NS	0.03	0.04	0.04		NS	NS	NS	-		
CV (%)	-	-		3.1	1.2	5.4	4.3		5.7	5.9	7.7	-				-	-		5.4	3.0	3.5	3.6		2.3	11.7	16.2	-		

Table II.113: PMAT 5B: Effect of organic and natural farming on protein, Fe & Zn content of pearl millet during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Protein content (%)										Fe (mg/kg)					Zn (mg/kg)				
	VYP				CBE				DHL	Zonal Mean	VYP									
	2023	2024	2025	Mean	2023	2024	2025	Mean	2025		2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean
T_1:Control	11.64	10.49	10.34	10.82	9.32	9.45	9.26	9.34	9.36	9.84	8.04	8.56	8.76	8.15	8.38	0.70	0.61	0.59	0.49	0.60
T_2: RDN* through Farm yard manure (FYM)	12.66	11.89	12.43	12.33	11.37	11.49	11.38	11.41	9.50	11.08	10.39	9.82	10.48	10.65	10.33	0.77	0.68	0.68	0.73	0.71
T_3: RDN through Vermicompost (VC)	13.10	13.12	12.79	13.00	12.06	12.12	12.06	12.08	9.44	11.51	9.92	10.08	10.91	10.85	10.44	0.73	0.70	0.71	0.68	0.71
T_4: RDN through Poultry manure(PM)	13.33	13.49	11.37	12.73	11.84	11.95	11.82	11.87	9.44	11.35	9.03	9.46	10.15	9.45	9.52	0.71	0.65	0.66	0.65	0.67
T_5: RDN through FYM+ Biofertilizer	13.56	13.00	13.18	13.25	11.63	11.78	11.64	11.68	9.59	11.51	10.61	10.01	10.89	10.01	10.38	0.75	0.70	0.68	0.68	0.70
T_6: RDN through Vermicompost+ Biofertilizer	13.74	13.68	13.46	13.62	12.02	12.08	12.03	12.04	9.58	11.75	10.78	10.27	11.53	11.63	11.05	0.75	0.69	0.70	0.70	0.71
T_7: RDN through Poultry manure + Biofertilizer	14.03	13.87	11.23	13.04	11.53	11.63	11.54	11.57	9.44	11.35	9.40	9.90	10.67	11.06	10.26	0.70	0.67	0.67	0.61	0.66
T_8: *** Cow based bio formulation	12.49	12.13	11.03	11.88	11.86	11.95	11.79	11.87	9.46	11.07	10.03	9.62	9.97	9.81	9.86	0.71	0.63	0.66	0.69	0.67
T_9: RDF**	13.11	12.93	12.17	12.74	11.76	11.83	11.68	11.76	9.63	11.37	11.21	8.90	9.68	9.09	9.72	0.78	0.64	0.63	0.56	0.65
CD at 5 %	1.21	1.75	NS		0.41	0.53	0.60		NS		NS	NS	NS	1.51		NS	0.06	NS	0.12	
CV (%)	5.3	7.9	10.0		2.1	2.6	3.0		2.2		13.5	8.7	8.7	8.6		9.7	4.9	6.3	11.1	

Table II.114: PMAT 5B: Effect of organic and natural farming on bacterial & fungi counts of soil after harvest of pearl millet during kharif 2022, 2023, 2024 and 2025 in Zone B

Treatment	Bacteria (10^6 CFU/ml										Fungi (10^4 CFU/ml)				
	VYP					PML				Zonal Mean	PML				
	2022	2023	2024	2025	Mean	2022	2023	2024	2025	Mean		2022	2023	2024	2025	Mean
T_1:Control	30.67	38.67	34.00	39.33	35.67	3.33	7.00	7.67	-	6.00	20.83	6.00	3.00	3.67	-	4.22
T_2: RDN* through Farm yard manure (FYM)	36.00	51.67	59.00	62.00	52.17	3.67	10.00	11.33	-	8.33	30.25	11.00	4.33	5.67	-	7.00
T_3: RDN through Vermicompost (VC)	38.67	52.00	64.33	74.67	57.42	8.33	8.67	9.00	-	8.67	33.04	14.00	6.00	8.00	-	9.33
T_4: RDN through Poultry manure(PM)	33.33	43.67	55.67	61.33	48.50	12.67	8.33	9.33	-	10.11	29.31	8.67	5.33	7.00	-	7.00
T_5: RDN through FYM+ Biofertilizer	42.33	49.33	64.33	68.67	56.17	11.00	10.33	11.00	-	10.78	33.47	10.67	5.67	7.00	-	7.78
T_6: RDN through Vermicompost+ Biofertilizer	47.00	51.67	73.67	82.00	63.58	9.33	11.00	12.33	-	10.89	37.24	11.67	6.67	8.00	-	8.78
T_7: RDN through Poultry manure + Biofertilizer	34.00	48.67	59.00	53.33	48.75	12.33	10.00	11.33	-	11.22	29.99	13.00	5.67	6.33	-	8.33
T_8: *** Cow based bio formulation	42.00	46.33	65.33	56.33	52.50	13.00	11.67	12.33	-	12.33	32.42	6.67	6.00	6.67	-	6.44
T_9: RDF**	36.33	40.33	43.33	48.00	42.00	5.33	8.67	8.67	-	7.56	24.78	6.67	4.33	4.33	-	5.11
CD at 5 %	NS	NS	20.32	21.08		4.17	1.41	1.46	-			2.64	1.16	1.55	-	
CV (%)	19.0	11.7	20.2	19.9		27.2	8.5	8.1	-			15.4	12.8	14.1	-	

Table II.115: PMAT 5B: Effect of organic and natural farming on seed yield of chickpea crop in Pearl millet-chickpea cropping sysytem during Rabi 2022-23, 2023-24 and 2024-25 in Zone B

Treatment	Seed yield (q/ha)															Zonal mean
	VYP				CBE				PML				DHL			
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	2023-24	2024-25	2025-26	Mean	2023-24	2024-25	Mean	
T_1:Control	10.73	10.82	9.20	10.25	6.52	6.88	6.53	6.64	14.99	6.86	-	10.93	7.90	10.06	8.98	9.20
T_2: RDN* through Farm yard manure (FYM)	14.63	12.38	11.25	12.76	10.26	10.89	10.67	10.61	16.32	8.65	-	12.49	11.64	15.18	13.41	12.32
T_3: RDN through Vermicompost (VC)	16.27	13.15	11.76	13.73	10.38	10.73	10.53	10.55	16.99	9.20	-	13.10	10.79	13.81	12.30	12.42
T_4: RDN through Poultry manure(PM)	15.54	13.01	10.38	12.98	10.63	10.68	10.48	10.60	17.05	9.83	-	13.44	9.51	12.95	11.23	12.06
T_5: RDN through FYM+ Biofertilizer	17.31	14.46	12.91	14.89	11.11	11.45	11.02	11.19	19.53	12.98		16.26	14.43	16.72	15.58	14.48
T_6: RDN through Vermicompost+ Biofertilizer	18.65	15.11	13.85	15.87	11.08	11.26	10.86	11.07	19.53	12.72	-	16.13	13.57	15.90	14.73	14.45
T_7: RDN through Poultry manure + Biofertilizer	17.60	15.04	11.58	14.74	11.42	11.19	10.52	11.04	19.56	13.88	-	16.72	12.82	14.47	13.64	14.04
T_8: *** Cow based bio formulation	14.99	13.13	10.24	12.79	12.62	12.91	11.81	12.45	17.32	8.40	-	12.86	9.34	11.69	10.52	12.15
T_9: RDF**	17.18	14.04	11.16	14.13	13.55	14.08	13.41	13.68	20.22	13.84	-	17.03	16.18	18.62	17.40	15.56
CD at 5 %	2.86	1.45	1.21		2.02	1.77	1.01		NS	1.62	-		1.30	2.96		
CV (%)	10.3	6.2	6.1		10.7	9.1	5.4		11.8	8.7	-		6.3	11.8		

Table II.116: PMAT 5B: Effect of organic and natural farming on straw yield of chickpea crop in Pearl millet-chickpea cropping sysytem during Rabi 2022-23, 2023-24 and 2024-25 in Zone B

Treatment	Straw yield (q/ha)															Zonal mean
	VYP				CBE				PML				DHL			
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	2023-24	2024-25	2025-26	Mean	2023-24	2024-25	Mean	
T_1:Control	15.95	17.67	12.52	15.38	8.01	10.72	12.21	10.31	-	-	-	-	13.71	17.05	15.38	13.69
T_2: RDN* through Farm yard manure (FYM)	21.69	20.70	18.61	20.33	11.81	13.45	19.97	15.08	-	-	-	-	20.20	25.74	22.97	19.46
T_3: RDN through Vermicompost (VC)	22.61	21.31	19.68	21.20	12.06	13.24	19.55	14.95	-	-	-	-	18.71	23.41	21.06	19.07
T_4: RDN through Poultry manure(PM)	21.82	20.85	17.73	20.13	11.94	13.18	19.43	14.85	-	-	-	-	16.50	21.95	19.23	18.07
T_5: RDN through FYM+ Biofertilizer	22.51	21.69	20.02	21.41	12.68	14.29	20.27	15.75	-				25.04	28.34	26.69	21.28
T_6: RDN through Vermicompost+ Biofertilizer	24.01	22.15	20.93	22.36	12.43	13.33	19.89	15.22	-	-	-	-	23.54	26.94	25.24	20.94
T_7: RDN through Poultry manure + Biofertilizer	20.21	21.12	17.98	19.77	12.84	13.39	19.44	15.23	-	-	-	-	22.24	24.52	23.38	19.46
T_8: *** Cow based bio formulation	20.12	19.62	16.18	18.64	14.35	15.46	22.02	17.28	-	-	-	-	16.20	19.82	18.01	17.98
T_9: RDF**	25.04	19.94	18.91	21.30	15.27	17.05	25.00	19.11	-	-	-	-	28.07	31.57	29.82	23.41
CD at 5 %	NS	NS	4.67		1.71	2.02	2.03		-	-	-		2.25	5.03		
CV (%)	14.0	8.6	14.8		7.9	8.4	5.9		-	-	-		6.3	11.8		

Table II.117: PMAT 5B: Effect of organic and natural farming on growth and yield attributes of chickpea crop in pearl millet-chickpea cropping sysytem during Rabi 2024-25 in Zone B

Treatment	Plant height (cm)				No of primary branches/plant				No of secondary branches/plant				Number of pods/plant			
	VYP	CBE	PML	Mean	VYP	CBE	PML	Mean	VYP	CBE	PML	Mean	VYP	CBE	PML	Mean
T_1:Control	25.4	23.7	-	24.5	1.9	2.3	-	2.1	6.2	7.6	-	6.9	22.5	24.6	-	23.6
T_2: RDN* through Farm yard manure (FYM)	28.9	30.3	-	29.6	2.1	3.1	-	2.6	7.7	8.7	-	8.2	30.7	35.4	-	33.1
T_3: RDN through Vermicompost (VC)	29.4	31.5	-	30.5	2.1	2.8	-	2.5	7.6	9.5	-	8.6	31.8	36.3	-	34.0
T_4: RDN through Poultry manure(PM)	27.7	30.7	-	29.2	2.1	3.0	-	2.5	7.4	9.6	-	8.5	30.1	36.8	-	33.5
T_5: RDN through FYM+ Biofertilizer	29.5	36.2	-	32.9	2.1	3.4	-	2.8	7.8	10.3	-	9.1	33.3	44.3	-	38.8
T_6: RDN through Vermicompost+ Biofertilizer	30.3	37.6	-	34.0	2.1	3.3	-	2.7	7.8	10.0	-	8.9	33.8	45.0	-	39.4
T_7: RDN through Poultry manure + Biofertilizer	28.3	39.2	-	33.7	2.1	3.4	-	2.8	7.5	10.2	-	8.8	30.5	45.4	-	38.0
T_8: *** Cow based bio formulation	27.5	43.3	-	35.4	2.1	3.5	-	2.8	7.3	11.2	-	9.3	29.1	48.1	-	38.6
T_9: RDF**	28.4	46.6	-	37.5	2.1	3.8	-	3.0	7.7	13.1	-	10.4	31.9	49.4	-	40.6
CD at 5 %	2.6	5.4	-		NS	0.4	-		0.4	1.2	-		1.6	5.7	-	
CV (%)	5.3	8.7	-		5.8	6.7	-		2.7	7.1	-		3.0	8.0	-	

Table II.118: PMAT 5B: Effect of organic and natural farming on growth and yield attributes of chickpea crop in pearl millet-chickpea cropping sysytem during Rabi 2024-25 in Zone B

Treatment	Number of seeds/pod				Seed index (g) (100 seed weight)				Protein content (%)				Plant population (000/ha)			
	VYP	CBE	PML	Mean	VYP	CBE	PML	Mean	VYP	CBE	PML	Mean	VYP	CBE	PML	Mean
T_1:Control	1.9	1.4	-	1.6	25.7	17.7	-	21.7	21.8	21.3	-	21.6	-	326.0	-	326.0
T_2: RDN* through Farm yard manure (FYM)	1.9	1.6	-	1.7	29.9	23.2	-	26.5	23.3	23.8	-	23.5	-	338.7	-	338.7
T_3: RDN through Vermicompost (VC)	1.9	1.5	-	1.7	30.2	22.6	-	26.4	23.2	25.2	-	24.2	-	340.7	-	340.7
T_4: RDN through Poultry manure(PM)	1.9	1.6	-	1.7	29.7	23.1	-	26.4	23.0	26.6	-	24.8	-	327.0	-	327.0
T_5: RDN through FYM+ Biofertilizer	2.0	1.7	-	1.8	32.0	27.7	-	29.8	23.2	26.3	-	24.7	-	327.7	-	327.7
T_6: RDN through Vermicompost+ Biofertilizer	2.0	1.7	-	1.8	32.9	27.2	-	30.0	23.6	27.2	-	25.4	-	335.7	-	335.7
T_7: RDN through Poultry manure + Biofertilizer	2.0	1.7	-	1.8	29.0	28.1	-	28.5	23.0	27.7	-	25.4	-	339.7	-	339.7
T_8: *** Cow based bio formulation	1.9	1.7	-	1.8	28.1	30.3	-	29.2	22.8	28.2	-	25.5	-	341.7	-	341.7
T_9: RDF**	2.0	1.9	-	1.9	31.2	30.9	-	31.1	22.2	28.8	-	25.5	-	337.7	-	337.7
CD at 5 %	NS	0.1	-		1.5	3.8	-		NS	2.9	-		-	NS	-	
CV (%)	4.2	4.0	-		3.0	8.6	-		8.1	6.4	-		-	6.4	-	

Table II.119: PMAT 5B: Effect of organic and natural farming on soil vailable NPK after harvesting of chickpea crop in Pearl millet-chickpea cropping sysytem during Rabi 2022-23, 2023-24 and 2024-25 in Coimbatore in Zone B

Treatment	Soil available N (kg/ha)				Soil available P (kg/ha)				Soil available K (kg/ha)			
	CBE				CBE				CBE			
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean
T_1:Control	224.0	193.0	184.0	200.3	8.00	10.00	9.00	9.00	357.7	443.0	418.0	406.2
T_2: RDN* through Farm yard manure (FYM)	272.3	207.0	196.0	225.1	18.00	19.00	18.00	18.33	437.3	513.0	502.0	484.1
T_3: RDN through Vermicompost (VC)	246.0	209.0	201.0	218.7	16.67	18.00	17.00	17.22	453.7	518.0	512.0	494.6
T_4: RDN through Poultry manure(PM)	243.3	213.0	209.0	221.8	17.33	18.00	18.00	17.78	462.3	524.0	519.0	501.8
T_5: RDN through FYM+ Biofertilizer	234.0	225.0	215.0	224.7	14.00	15.00	14.00	14.33	512.3	548.0	534.0	531.4
T_6: RDN through Vermicompost+ Biofertilizer	240.7	237.0	228.0	235.2	14.67	16.00	15.00	15.22	533.7	552.0	543.0	542.9
T_7: RDN through Poultry manure + Biofertilizer	262.3	242.0	237.0	247.1	14.33	15.00	15.00	14.78	548.0	564.0	551.0	554.3
T_8: *** Cow based bio formulation	257.7	248.0	243.0	249.6	14.67	16.00	16.00	15.56	561.7	572.0	564.0	565.9
T_9: RDF**	250.3	264.0	251.0	255.1	14.00	15.00	14.00	14.33	574.3	567.0	539.0	560.1
CD at 5 %	NS	34.6	31.7		2.77	4.37	3.68		40.0	41.5	28.5	
CV (%)	7.8	8.8	8.3		10.9	15.9	14.0		4.6	4.5	3.1	

Table II.120: PMAT 5B: Effect of organic and natural farming on soil OC, pH and EC after harvesting of chickpea crop in Pearl millet-chickpea cropping sysytem during Rabi 2022-23, 2023-24 and 2024-25 in Coimbatore in Zone B

Treatment	Soil OC at harvest (%)				Soil pH at harvest (kg/ha)				Soil EC at harvest (dSm-1)			
	CBE				CBE				CBE			
	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean	2022-23	2023-24	2024-25	Mean
T_1:Control	0.41	0.41	0.40	0.41	8.38	0.41	8.48	5.76	0.35	0.38	0.39	0.37
T_2: RDN* through Farm yard manure (FYM)	0.42	0.43	0.43	0.43	8.24	0.43	8.05	5.57	0.36	0.35	0.34	0.35
T_3: RDN through Vermicompost (VC)	0.41	0.42	0.43	0.42	8.28	0.42	8.09	5.60	0.35	0.34	0.33	0.34
T_4: RDN through Poultry manure(PM)	0.42	0.43	0.43	0.42	8.27	0.43	8.06	5.59	0.34	0.33	0.32	0.33
T_5: RDN through FYM+ Biofertilizer	0.42	0.43	0.43	0.43	8.19	0.43	8.02	5.55	0.35	0.34	0.33	0.34
T_6: RDN through Vermicompost+ Biofertilizer	0.42	0.43	0.43	0.43	8.16	0.43	7.96	5.52	0.35	0.34	0.33	0.34
T_7: RDN through Poultry manure + Biofertilizer	0.43	0.43	0.43	0.43	8.15	0.43	7.88	5.49	0.34	0.33	0.32	0.33
T_8: *** Cow based bio formulation	0.43	0.44	0.44	0.44	8.13	0.44	7.86	5.48	0.35	0.34	0.33	0.34
T_9: RDF**	0.42	0.41	0.41	0.41	8.41	0.41	8.75	5.86	0.36	0.37	0.38	0.37
CD at 5 %	0.01	0.02	0.02		0.08	0.02	0.21		0.01	0.02	0.02	
CV (%)	1.4	2.3	2.1		0.5	2.3	1.5		1.5	3.3	2.9	

Table II.121: PMAT 5B: Effect of organic and natural farming on economics after harvesting of chickpea crop in Pearl millet-chickpea cropping sysytem during Rabi 2022-23, 2023-24, 2024-25 and 2025-26 in Zone B

Treatment	Gross Returns (Rs./ha)							Zonal mean	Net Returns (Rs./ha)							Zonal mean	B:C ratio							Zonal mean
	CBE				PML				CBE				PML				CBE				PML			
	2022-23	2023-24	2024-25	Mean	2024-25	2025-26	Mean		2022-23	2023-24	2024-25	Mean	2024-25	2025-26	Mean		2022-23	2023-24	2024-25	Mean	2024-25	2025-26	Mean	
T_1:Control	50846	56317	45371	50845	34300	-	34300	42572	25446	28917	17971	24111	5550	-	5550	14831	2.00	2.06	1.66	1.91	1.19	-	1.19	1.55
T_2: RDN* through Farm yard manure (FYM)	59383	88330	74143	73952	43250	-	43250	58601	18891	45838	31651	32127	14483	-	14483	23305	1.47	2.08	1.74	1.76	1.50	-	1.50	1.63
T_3: RDN through Vermicompost (VC)	60106	86979	73106	73397	46000	-	46000	59699	22154	47027	33154	34112	17233	-	17233	25672	1.58	2.18	1.83	1.86	1.60	-	1.60	1.73
T_4: RDN through Poultry manure(PM)	61450	86626	72748	73608	49150	-	49150	61379	25118	48294	34416	35943	20400	-	20400	28171	1.69	2.26	1.90	1.95	1.69	-	1.69	1.82
T_5: RDN through FYM+ Biofertilizer	64294	92882	76433	77870	64900	-	64900	71385	20610	47198	30749	32852	36150	-	36150	34501	1.47	2.03	1.67	1.72	2.25	-	2.25	1.99
T_6: RDN through Vermicompost+ Biofertilizer	64028	91161	75288	76826	63600	-	63600	70213	22884	48017	32144	34348	34583	-	34583	34466	1.56	2.11	1.75	1.81	2.21	-	2.21	2.01
T_7: RDN through Poultry manure + Biofertilizer	66021	90656	73000	76559	69400	-	69400	72980	26497	49132	31476	35702	40650	-	40650	38176	1.67	2.18	1.76	1.87	2.42	-	2.42	2.15
T_8: *** Cow based bio formulation	72998	104589	82031	86539	42000	-	42000	64270	37598	67189	44631	49806	13217	-	13217	31511	2.06	2.80	2.19	2.35	1.46	-	1.46	1.90
T_9: RDF**	78362	114113	93142	95206	69200	-	69200	82203	40040	73791	52820	55550	40450	-	40450	48000	2.04	2.83	2.31	2.39	2.40	-	2.40	2.40
CD at 5 %	-	-	-		8093	-			-	-	-		8189	-			-	-	-		0.29	-		
CV (%)	-	-	-		8.7	-			-	-	-		19.0	-			-	-	-		9.0	-		

Table II.122: PMAT 5B: Effect of organic and natural farming on gross returns, net returns and BC ratio of Pearlmillet-chickpea cropping sequence during 2023-24, 2024-25 and 2025-26 in Perumallapalle and Dhule and total PM equivalent yield of sequence in Dhule during 2023-24 and 2024-25 in Zone B

Treatment	Gross Returns (Rs./ha)						Zonal mean	Net Returns (Rs./ha)						Zonal mean	B:C ratio						Zonal mean	Total PM equivalent yield of sequence		
	DHL			PML				DHL			PML				DHL			PML				DHL		
	2023-24	2024-25	Mean	2024-25	2025-26	Mean		2023-24	2024-25	Mean	2024-25	2025-26	Mean		2023-24	2024-25	Mean	2024-25	2025-26	Mean		2023-24	2024-25	Mean
T_1:Control	75253	85184	80219	83063	-	83063	81641	30648	33297	31973	15813	-	15813	23893	1.69	1.64	1.67	1.23	-	1.23	1.45	30.10	34.08	32.09
T_2: RDN* through Farm yard manure (FYM)	109996	126331	118164	126537	-	126537	122350	54391	61606	57999	55270	-	55270	56634	1.98	1.95	1.97	1.77	-	1.77	1.87	44.00	50.53	47.27
T_3: RDN through Vermicompost (VC)	104970	118924	111947	134696	-	134696	123321	28108	29488	28798	62912	-	62912	45855	1.37	1.33	1.35	1.88	-	1.88	1.61	41.99	47.57	44.78
T_4: RDN through Poultry manure(PM)	95222	111072	103147	141693	-	141693	122420	39805	46567	43186	69443	-	69443	56315	1.72	1.72	1.72	1.91	-	1.91	1.81	38.09	44.43	41.26
T_5: RDN through FYM+ Biofertilizer	133930	144453	139192	176367	-	176367	157779	78200	79580	78890	97174	-	97174	88032	2.40	2.23	2.32	1.93	-	1.93	2.12	53.57	57.78	55.68
T_6: RDN through Vermicompost+ Biofertilizer	127395	138134	132764	168171	-	168171	150467	50495	48655	49575	94535	-	94535	72055	1.66	1.54	1.60	2.28	-	2.28	1.94	50.96	55.26	53.11
T_7: RDN through Poultry manure + Biofertilizer	120362	127949	124155	178200	-	178200	151178	64927	63424	64176	103234	-	103234	83705	2.17	1.98	2.08	2.39	-	2.39	2.24	48.15	51.18	49.66
T_8: *** Cow based bio formulation	93064	103922	98493	93469	-	93469	95981	44201	46883	45542	34275	-	34275	39909	1.90	1.82	1.86	1.58	-	1.58	1.72	37.22	41.57	39.40
T_9: RDF**	144152	155386	149769	172098	-	172098	160933	94249	97290	95770	108056	-	108056	101913	2.89	2.67	2.78	2.72	-	2.72	2.75	57.66	62.15	59.91
CD at 5 %	12002	14126		15692	-			12057	14126		19532	-			0.22	0.22		0.46	-			4.80	5.65	
CV (%)	6.2	6.6		6.3	-			12.8	14.4		15.7	-			6.4	6.8		13.4	-			6.2	6.6	

Table II.123: PMAT 6A1: Effect of Biopolimeric seed treatments on yield attributes, grain yield and dry fodder yield of pearl millet crop in Zone A1 during kharif 2025.

Treatments	Effective number of tillers/plant			Test Weight (g)			Grain yield (q/ha)			Dry fodder yield (q/ha)		
	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean
T1: Biopolymer (BP2) alone @10 ml/kg	3.6	3.3	3.5	8.6	8.5	8.5	23.40	14.97	19.18	58.20	26.50	42.35
T2: Biopolymer(BP1)+ Thiomethaxam @5 ml/kg	3.6	3.4	3.5	8.5	8.8	8.7	23.83	15.90	19.87	59.80	31.93	45.87
T3: BP1+ Fungicide 5 g/kg	3.6	3.3	3.5	8.5	8.6	8.6	23.70	14.67	19.18	58.40	28.07	43.23
T4: BP+ Azotobacter	3.7	3.5	3.6	8.7	8.6	8.7	24.27	17.27	20.77	61.20	32.23	46.72
T5: Biopolymer(BP2)+ Thiomethaxam @5 ml/kg	3.6	3.4	3.5	8.6	8.6	8.6	23.67	15.53	19.60	59.10	27.07	43.08
T6: Biopolymeric ML Layer 1+ BP ML Layer 2	3.6	3.2	3.4	8.6	8.6	8.6	23.53	15.23	19.38	59.40	28.37	43.88
T7: Thiomethaxam alone @ 5 ml/kg	3.6	3.3	3.4	8.4	8.7	8.5	22.33	14.60	18.47	56.60	26.63	41.62
T8: Trichoderma herzianum	3.5	3.0	3.3	8.5	8.8	8.6	22.13	14.33	18.23	57.30	26.83	42.07
T9: Thiram @ 4 g/kg and Metalaxyl @ 5 g/kg	3.6	3.1	3.3	8.5	8.6	8.6	22.17	14.50	18.33	57.00	26.93	41.97
T10: Azotobacter (Control)	3.7	3.6	3.6	8.6	8.9	8.7	23.87	16.70	20.28	59.50	31.33	45.42
CD at 5 %	NS	NS		NS	0.2		NS	NS		NS	NS	
CV (%)	8.9	7.9		2.4	1.4		10.0	11.4		6.6	11.6	

Table II.124: PMAT 6A1: Effect of Biopolimeric seed treatments on economics of Mandor, growth, germination percentage and WUE of pearl millet crop in Zone A1 during kharif 2025.

Treatments	Plant height (cm)			Germination percentage (%)			Water use efficiency (Kg/ha-cm)			Gross returns (Rs/ha)	Net returns (Rs/ha)	BC ratio
	BKR	MDR	Mean	BKR	MDR	Mean	BKR	MDR	Mean	Mandor		
T1: Biopolymer (BP2) alone @10 ml/kg	162.4	157.7	160.1	70.7	70.0	70.3	74.3	74.7	74.5	56536	30236	2.15
T2: Biopolymer(BP1)+ Thiomethaxam @5 ml/kg	161.2	158.1	159.7	70.3	70.7	70.5	75.7	73.3	74.5	62516	35016	2.27
T3: BP1+ Fungicide 5 g/kg	160.8	158.6	159.7	70.3	70.3	70.3	75.0	77.0	76.0	56719	29319	2.07
T4: BP+ Azotobacter	162.4	159.2	160.8	70.0	69.7	69.8	77.0	75.7	76.3	66280	39780	2.50
T5: Biopolymer(BP2)+ Thiomethaxam @5 ml/kg	164.2	161.0	162.6	69.7	69.0	69.3	75.0	76.7	75.8	58375	31675	2.18
T6: Biopolymeric ML Layer 1+ BP ML Layer 2	162.0	159.5	160.8	70.3	70.3	70.3	75.0	75.0	75.0	58428	31128	2.14
T7: Thiomethaxam alone @ 5 ml/kg	160.7	158.3	159.5	70.0	69.7	69.8	71.0	74.3	72.7	55624	30224	2.19
T8: Trichoderma herzianum	161.1	159.4	160.2	72.0	71.7	71.8	70.0	70.0	70.0	55076	28876	2.11
T9: Thiram @ 4 g/kg and Metalaxyl @ 5 g/kg	160.4	160.0	160.2	71.3	71.0	71.2	70.3	70.0	70.2	55578	30078	2.18
T10: Azotobacter (Control)	163.2	162.6	162.9	72.0	71.3	71.7	75.7	75.7	75.7	64221	38821	2.53
CD at 5 %	NS	NS		NS	NS		NS	NS		NS	NS	NS
CV (%)	2.3	2.0		5.0	4.2		9.9	6.1		11	21	11.5

CHAPTER III
PLANT PHYSIOLOGY

During *Kharif*-2025, these two plant physiology experiments were conducted at RARI, Durgapura

(1) Characterization for drought tolerance to identify parental lines

The experiment, involving 28 inbred parental lines, demonstrated substantial genetic variability for major physiological, biochemical and agronomic traits associated with drought tolerance. Several entries, notably PPHY-3, PPHY-11, PPHY-14, PPHY-26 and PPHY-28, consistently recorded higher chlorophyll content, membrane stability index and relative water content during all three growth stages, reflecting robust cellular protection and superior dehydration avoidance mechanisms. Enhanced osmotic adjustment was evident in PPHY-9, PPHY-14, PPHY-17 and PPHY-23, which expressed elevated proline, soluble sugars and total amino acids, key indicators of drought-induced metabolic resilience. Agronomic performance also showed wide variation, with PPHY-16, PPHY-24, PPHY-27 and PPHY-15 emerging as high-yielding entries possessing strong ear head weight, grain yield and fodder productivity. Similarly, PPHY-14, PPHY-15, PPHY-16 and PPHY-17 exhibited superior harvest index values, indicating efficient biomass partitioning under stress. Collectively, these results highlight several physiologically strong and high-yielding lines with considerable breeding value for developing climate-resilient parental lines and hybrids suited for drought-prone Kharif ecologies.

(2) Agro-physiological management to enhance drought resilience through plant growth regulators (PGRs)

This experiment on PGR-mediated drought management revealed significant variation among treatments for physiological and growth parameters. Application of PGRs enhanced chlorophyll content, relative water content (RWC), and membrane stability index (MSI) across growth stages, particularly at the panicle initiation and post-flowering stages. Foliar application of 10 mM proline and 1% KNO_3 consistently recorded higher chlorophyll content, RWC and biomass accumulation. Growth attributes such as number of leaves, fresh and dry weights of leaves, stems and roots were also superior under these treatments. Yield parameters showed notable improvement with foliar application of 10 mM proline producing the highest grain yield (2310 kg/ha) and fodder yield (4810 kg/ha). Enhanced crop growth rate, relative growth rate, and harvest index were observed under PGR-treated plots, reflecting improved drought resilience and productivity. Overall, exogenous application of suitable PGRs proved effective in mitigating drought stress and improving physiological efficiency and yield performance in pearl millet under semi-arid conditions.

PMPHY-1b: Characterization for drought tolerance to identify parental lines of pearl millet suitable *kharif* cultivation

Location : RARI, Durgapura- Jaipur Zone : A

Net Plot size : 4.0 x 1.2 sq m

Character: Chlorophyll content (Pre flowering stage) mg/L

No	Entry	I	II	III	Mean
1	PPHY-1	42.63	43.68	44.11	43.47
2	PPHY-2	51.80	49.01	42.03	47.61
3	PPHY-3	70.96	74.80	73.71	73.16
4	PPHY-4	44.48	41.96	35.67	40.70
5	PPHY-5	52.35	54.92	54.19	53.82
6	PPHY-6	57.90	60.95	50.28	56.38
7	PPHY-7	51.15	58.17	56.16	55.16
8	PPHY-8	40.75	35.34	42.91	39.67
9	PPHY-9	48.03	46.40	42.30	45.58
10	PPHY-10	55.01	46.18	58.55	53.25
11	PPHY-11	68.33	66.24	69.16	67.91
12	PPHY-12	67.80	65.16	58.56	63.84
13	PPHY-13	65.08	61.74	53.41	60.08
14	PPHY-14	65.61	59.03	68.24	64.29
15	PPHY-15	61.39	51.92	65.17	59.49
16	PPHY-16	49.82	49.03	47.04	48.63
17	PPHY-17	63.10	58.93	64.77	62.27
18	PPHY-18	59.18	60.27	56.45	58.63
19	PPHY-19	45.24	40.12	47.29	44.22
20	PPHY-20	55.36	48.01	58.30	53.89
21	PPHY-21	55.91	48.73	58.79	54.48
22	PPHY-22	55.81	48.28	58.82	54.30
23	PPHY-23	61.75	64.36	55.23	60.45
24	PPHY-24	39.16	37.57	33.60	36.78
25	PPHY-25	55.87	51.55	57.59	55.00
26	PPHY-26	68.37	67.64	65.81	67.27
27	PPHY-27	59.87	62.40	61.68	61.32
28	PPHY-28	67.73	72.44	74.33	71.50
				SEm±	2.305
				CD at 5%	6.55
				C.V.%	7.20

Character: Chlorophyll content (Flowering stage) mg/L

No	Entry	I	II	III	Mean
1	PPHY-1	21.14	23.81	23.05	22.67
2	PPHY-2	24.47	25.98	26.59	25.68
3	PPHY-3	51.92	53.13	48.88	51.31
4	PPHY-4	17.31	21.45	20.27	19.68
5	PPHY-5	31.74	33.74	26.75	30.74
6	PPHY-6	35.33	33.38	28.52	32.41
7	PPHY-7	28.08	32.78	31.43	30.76
8	PPHY-8	18.75	19.95	15.76	18.16
9	PPHY-9	24.33	20.27	23.17	22.59
10	PPHY-10	29.53	31.48	32.25	31.09
11	PPHY-11	40.13	42.17	42.99	41.76
12	PPHY-12	40.96	35.20	39.31	38.49
13	PPHY-13	41.08	39.30	34.84	38.41
14	PPHY-14	43.42	41.19	42.78	42.46
15	PPHY-15	38.03	36.69	33.33	36.02
16	PPHY-16	25.81	23.23	26.85	25.30
17	PPHY-17	40.97	40.55	39.49	40.34
18	PPHY-18	34.44	35.12	32.73	34.10
19	PPHY-19	21.71	23.42	24.10	23.07
20	PPHY-20	29.59	32.53	31.69	31.27
21	PPHY-21	33.66	26.77	31.69	30.71
22	PPHY-22	27.71	34.04	32.23	31.33
23	PPHY-23	38.83	40.42	34.85	38.03
24	PPHY-24	13.99	15.27	15.78	15.01
25	PPHY-25	31.40	26.39	33.40	30.40
26	PPHY-26	43.21	45.26	38.08	42.19
27	PPHY-27	37.65	40.33	39.56	39.18
28	PPHY-28	51.31	53.91	44.83	50.02
				SEm±	1.43
				CD at 5%	4.06
				C.V.%	7.59

Character: Chlorophyll content (Post Flowering stage) mg/L

No	Entry	I	II	III	Mean
1	PPHY-1	13.03	14.39	14.93	14.12
2	PPHY-2	17.63	17.16	17.83	17.54
3	PPHY-3	42.32	43.70	44.25	43.42
4	PPHY-4	12.13	11.45	9.77	11.12
5	PPHY-5	23.92	22.80	19.99	22.24
6	PPHY-6	24.61	25.74	21.80	24.05
7	PPHY-7	24.33	19.45	22.93	22.24
8	PPHY-8	8.78	10.44	9.96	9.73
9	PPHY-9	15.39	14.55	12.47	14.14
10	PPHY-10	23.07	20.80	23.97	22.61
11	PPHY-11	36.75	34.83	30.02	33.87
12	PPHY-12	32.37	31.25	28.42	30.68
13	PPHY-13	27.01	31.42	33.18	30.54
14	PPHY-14	34.71	32.18	35.72	34.20
15	PPHY-15	29.33	26.77	28.60	28.23
16	PPHY-16	17.06	15.76	17.58	16.80
17	PPHY-17	33.10	35.09	28.10	32.10
18	PPHY-18	23.41	27.28	26.18	25.62
19	PPHY-19	13.45	15.81	15.13	14.80
20	PPHY-20	24.83	20.93	23.72	23.16
21	PPHY-21	22.88	23.98	20.14	22.34
22	PPHY-22	21.44	23.62	24.50	23.19
23	PPHY-23	30.65	28.79	31.40	30.28
24	PPHY-24	6.69	7.06	5.77	6.51
25	PPHY-25	22.86	20.80	22.27	21.98
26	PPHY-26	34.06	34.53	32.87	33.82
27	PPHY-27	33.49	31.68	27.13	30.77
28	PPHY-28	38.14	43.33	45.40	42.29
				SEm±	1.17
				CD at 5%	3.34
				C.V.%	8.34

Character: Relative water content (Pre flowering stage)

No	Entry	I	II	III	Mean
1	PPHY-1	80.03	77.14	79.20	78.79
2	PPHY-2	81.99	84.60	75.48	80.69
3	PPHY-3	81.63	84.80	73.72	80.05
4	PPHY-4	72.78	78.59	76.93	76.10
5	PPHY-5	70.61	86.45	81.92	79.66
6	PPHY-6	79.24	84.26	66.69	76.73
7	PPHY-7	68.02	83.42	79.02	76.82
8	PPHY-8	75.88	83.54	81.35	80.26
9	PPHY-9	72.86	77.20	78.93	76.33
10	PPHY-10	79.90	77.29	80.95	79.38
11	PPHY-11	80.40	74.46	82.77	79.21
12	PPHY-12	78.68	77.56	74.76	77.00
13	PPHY-13	68.49	81.08	86.11	78.56
14	PPHY-14	79.77	76.80	80.96	79.18
15	PPHY-15	82.40	79.39	71.87	77.89
16	PPHY-16	83.85	72.54	80.62	79.00
17	PPHY-17	72.52	81.28	84.79	79.53
18	PPHY-18	68.98	81.05	77.60	75.88
19	PPHY-19	84.38	80.26	69.95	78.20
20	PPHY-20	71.65	81.20	85.02	79.29
21	PPHY-21	82.92	79.09	69.53	77.18
22	PPHY-22	71.77	78.91	81.76	77.48
23	PPHY-23	78.50	72.10	81.06	77.22
24	PPHY-24	79.40	77.42	80.19	79.00
25	PPHY-25	81.35	84.40	73.73	79.83
26	PPHY-26	69.37	78.42	82.04	76.61
27	PPHY-27	80.66	71.26	84.42	78.78
28	PPHY-28	81.50	78.96	72.60	77.69
				SEm±	2.86
				CD at 5%	5.93
				C.V.%	7.21

Character: Relative water content (Flowering stage)

No	Entry	I	II	III	Mean
1	PPHY-1	81.49	69.63	78.10	76.41
2	PPHY-2	73.92	81.92	79.63	78.49
3	PPHY-3	84.70	69.07	80.23	78.00
4	PPHY-4	64.53	76.19	80.86	73.86
5	PPHY-5	73.19	80.58	78.47	77.41
6	PPHY-6	81.87	64.68	76.96	74.50
7	PPHY-7	80.05	67.35	76.42	74.61
8	PPHY-8	86.11	80.85	67.70	78.22
9	PPHY-9	77.83	75.28	68.89	74.00
10	PPHY-10	79.77	66.79	84.96	77.17
11	PPHY-11	83.09	68.77	79.00	76.95
12	PPHY-12	75.52	76.91	72.03	74.82
13	PPHY-13	76.85	73.47	78.20	76.17
14	PPHY-14	79.33	84.22	67.10	76.88
15	PPHY-15	83.40	78.31	65.57	75.76
16	PPHY-16	77.28	78.77	73.54	76.53
17	PPHY-17	78.08	74.39	79.55	77.34
18	PPHY-18	76.61	69.36	74.54	73.50
19	PPHY-19	77.29	74.26	76.42	75.99
20	PPHY-20	79.89	73.27	78.00	77.05
21	PPHY-21	76.93	80.82	67.22	74.99
22	PPHY-22	78.43	76.34	71.12	75.30
23	PPHY-23	67.70	80.60	76.91	75.07
24	PPHY-24	66.65	79.00	83.94	76.53
25	PPHY-25	78.93	72.23	81.61	77.59
26	PPHY-26	66.73	76.19	79.97	74.30
27	PPHY-27	79.88	71.74	77.55	76.39
28	PPHY-28	76.70	79.00	70.95	75.55
				SEm±	3.60
				CD at 5%	6.02
				C.V.%	8.20

Character: Relative water content (Post Flowering stage)

No	Entry	I	II	III	Mean
1	PPHY-1	73.28	72.35	70.03	71.89
2	PPHY-2	79.56	66.50	75.83	73.96
3	PPHY-3	67.16	74.82	77.89	73.29
4	PPHY-4	71.18	69.92	66.77	69.29
5	PPHY-5	79.82	75.21	63.70	72.91
6	PPHY-6	62.65	71.80	75.46	69.97
7	PPHY-7	71.54	64.14	74.50	70.06
8	PPHY-8	76.16	63.77	81.11	73.68
9	PPHY-9	67.74	70.84	69.95	69.51
10	PPHY-10	68.50	73.61	75.66	72.59
11	PPHY-11	68.11	75.60	73.46	72.39
12	PPHY-12	70.72	68.25	71.71	70.23
13	PPHY-13	73.14	65.57	76.17	71.63
14	PPHY-14	73.59	72.74	70.60	72.31
15	PPHY-15	75.70	64.74	72.57	71.00
16	PPHY-16	66.00	73.62	76.67	72.10
17	PPHY-17	63.29	79.97	75.20	72.82
18	PPHY-18	70.85	69.62	66.56	69.01
19	PPHY-19	72.47	69.74	71.69	71.30
20	PPHY-20	76.50	67.16	73.83	72.50
21	PPHY-21	71.30	67.06	73.00	70.45
22	PPHY-22	71.17	72.14	68.76	70.69
23	PPHY-23	72.34	63.20	75.99	70.51
24	PPHY-24	62.73	79.13	74.44	72.10
25	PPHY-25	64.78	79.18	75.07	73.01
26	PPHY-26	71.95	76.17	61.40	69.84
27	PPHY-27	75.28	72.99	67.28	71.85
28	PPHY-28	72.73	63.23	76.53	70.83
				SEm±	3.17
				CD at 5%	NS
				C.V.%	7.69

Character: Membrane Stability Index (Pre flowering stage)

No	Entry	I	II	III	Mean
1	PPHY-1	74.58	63.69	78.93	72.40
2	PPHY-2	80.33	65.72	76.16	74.07
3	PPHY-3	86.89	81.64	68.53	79.02
4	PPHY-4	69.80	80.82	77.67	76.10
5	PPHY-5	68.78	85.91	81.02	78.57
6	PPHY-6	77.51	79.08	73.59	76.73
7	PPHY-7	68.57	81.27	86.35	78.73
8	PPHY-8	88.56	83.31	70.20	80.69
9	PPHY-9	87.63	69.24	82.38	79.75
10	PPHY-10	73.49	77.14	78.60	76.41
11	PPHY-11	79.17	74.90	80.88	78.32
12	PPHY-12	80.71	70.51	77.80	76.34
13	PPHY-13	73.77	71.86	74.54	73.39
14	PPHY-14	64.24	80.90	76.14	73.76
15	PPHY-15	71.50	88.12	83.37	81.00
16	PPHY-16	70.46	82.52	79.07	77.35
17	PPHY-17	78.52	75.65	68.48	74.22
18	PPHY-18	78.53	75.28	67.16	73.66
19	PPHY-19	67.40	80.29	85.45	77.71
20	PPHY-20	71.62	78.17	80.79	76.86
21	PPHY-21	75.44	79.54	65.18	73.39
22	PPHY-22	83.07	71.75	79.84	78.22
23	PPHY-23	66.02	79.90	75.93	73.95
24	PPHY-24	70.35	69.38	66.95	68.89
25	PPHY-25	78.75	77.84	75.55	77.38
26	PPHY-26	82.49	80.92	77.01	80.14
27	PPHY-27	79.27	84.22	66.88	76.79
28	PPHY-28	76.91	71.15	79.22	75.76
				SEm±	3.89
				CD at 5%	NS
				C.V.%	8.82

Character: Membrane Stability Index (Flowering stage)

No	Entry	I	II	III	Mean
1	PPHY-1	76.51	61.14	72.12	69.92
2	PPHY-2	61.77	65.11	64.16	63.68
3	PPHY-3	78.20	75.83	69.89	74.64
4	PPHY-4	76.35	80.96	64.82	74.04
5	PPHY-5	64.58	74.05	71.34	69.99
6	PPHY-6	69.30	71.50	63.80	68.20
7	PPHY-7	78.90	69.61	76.25	74.92
8	PPHY-8	64.45	59.34	66.50	63.43
9	PPHY-9	76.95	74.17	78.06	76.39
10	PPHY-10	79.94	69.49	76.95	75.46
11	PPHY-11	67.92	56.49	64.65	63.02
12	PPHY-12	78.98	65.80	75.21	73.33
13	PPHY-13	56.15	65.23	68.86	63.41
14	PPHY-14	64.68	58.69	67.07	63.48
15	PPHY-15	66.83	67.94	64.04	66.27
16	PPHY-16	73.95	62.94	78.35	71.75
17	PPHY-17	57.02	65.91	69.46	64.13
18	PPHY-18	73.18	74.01	71.12	72.77
19	PPHY-19	75.20	71.56	74.16	73.64
20	PPHY-20	58.41	69.54	66.36	64.77
21	PPHY-21	72.76	69.58	61.62	67.99
22	PPHY-22	74.20	68.55	76.46	73.07
23	PPHY-23	65.22	57.55	68.29	63.69
24	PPHY-24	68.65	62.05	66.76	65.82
25	PPHY-25	70.86	77.43	80.06	76.12
26	PPHY-26	74.57	80.40	78.73	77.90
27	PPHY-27	67.01	70.28	58.84	65.38
28	PPHY-28	76.44	72.65	77.95	75.68
				SEm±	2.90
				CD at 5%	8.25
				C.V.%	7.21

Character: Membrane Stability Index (Post Flowering stage)

No	Entry	I	II	III	Mean
1	PPHY-1	63.24	55.47	66.35	61.69
2	PPHY-2	64.16	58.18	62.45	61.60
3	PPHY-3	66.01	59.97	68.42	64.80
4	PPHY-4	57.92	72.94	68.65	66.50
5	PPHY-5	65.68	63.63	58.51	62.61
6	PPHY-6	65.89	64.17	59.85	63.30
7	PPHY-7	79.68	75.15	63.80	72.88
8	PPHY-8	56.98	52.26	55.63	54.95
9	PPHY-9	64.67	74.29	78.13	72.36
10	PPHY-10	68.43	74.01	72.42	71.62
11	PPHY-11	59.08	54.45	60.93	58.15
12	PPHY-12	63.28	67.93	69.78	67.00
13	PPHY-13	57.66	60.44	50.69	56.26
14	PPHY-14	50.13	58.45	61.78	56.79
15	PPHY-15	58.58	61.16	52.14	57.29
16	PPHY-16	69.60	68.64	66.24	68.16
17	PPHY-17	56.17	62.45	60.65	59.76
18	PPHY-18	65.63	64.61	62.06	64.10
19	PPHY-19	70.58	67.80	71.70	70.02
20	PPHY-20	54.22	63.07	66.60	61.30
21	PPHY-21	65.74	53.69	62.29	60.57
22	PPHY-22	70.20	68.92	65.74	68.29
23	PPHY-23	60.25	58.03	52.47	56.92
24	PPHY-24	60.38	58.27	61.22	59.96
25	PPHY-25	71.55	73.47	66.73	70.58
26	PPHY-26	75.36	72.00	63.61	70.32
27	PPHY-27	54.26	59.16	57.76	57.06
28	PPHY-28	64.37	71.71	74.65	70.24
				SEm±	2.68
				CD at 5%	7.62
				C.V.%	7.28

Character: Amino acid proline content (mg/g)

No	Entry	I	II	III	Mean
1	PPHY-1	0.63	0.50	0.59	0.57
2	PPHY-2	0.83	0.72	0.88	0.81
3	PPHY-3	0.55	0.43	0.52	0.5
4	PPHY-4	0.92	1.08	1.03	1.01
5	PPHY-5	0.84	0.89	0.88	0.87
6	PPHY-6	0.82	0.97	0.93	0.91
7	PPHY-7	0.85	0.87	0.80	0.84
8	PPHY-8	0.25	0.27	0.26	0.26
9	PPHY-9	1.32	1.06	1.25	1.21
10	PPHY-10	0.46	0.45	0.44	0.45
11	PPHY-11	0.66	0.69	0.60	0.65
12	PPHY-12	0.37	0.44	0.42	0.41
13	PPHY-13	1.09	1.05	0.95	1.03
14	PPHY-14	1.24	1.21	1.14	1.2
15	PPHY-15	1.07	1.03	1.06	1.05
16	PPHY-16	0.33	0.28	0.32	0.31
17	PPHY-17	1.18	0.97	1.12	1.09
18	PPHY-18	0.44	0.52	0.55	0.5
19	PPHY-19	0.57	0.55	0.50	0.54
20	PPHY-20	0.61	0.53	0.59	0.58
21	PPHY-21	0.41	0.39	0.40	0.4
22	PPHY-22	0.51	0.59	0.62	0.57
23	PPHY-23	1.28	1.14	1.24	1.22
24	PPHY-24	0.55	0.61	0.64	0.6
25	PPHY-25	0.65	0.68	0.56	0.63
26	PPHY-26	0.44	0.39	0.43	0.42
27	PPHY-27	0.22	0.18	0.23	0.21
28	PPHY-28	0.75	0.85	0.89	0.83
				SEm±	0.035
				CD at 5%	0.098
				C.V.%	8.51

Character: Total soluble sugars (%)

No	Entry	I	II	III	Mean
1	PPHY-1	2.12	1.96	2.07	2.05
2	PPHY-2	2.55	2.25	2.46	2.42
3	PPHY-3	2.11	2.04	1.88	2.01
4	PPHY-4	2.67	2.23	2.54	2.48
5	PPHY-5	2.58	2.27	2.49	2.45
6	PPHY-6	2.40	2.51	2.48	2.46
7	PPHY-7	2.38	2.46	2.49	2.44
8	PPHY-8	1.76	1.42	1.66	1.61
9	PPHY-9	2.72	2.42	2.63	2.59
10	PPHY-10	2.05	1.84	1.99	1.96
11	PPHY-11	2.46	2.58	2.16	2.40
12	PPHY-12	2.00	1.70	2.12	1.94
13	PPHY-13	2.38	2.51	2.56	2.48
14	PPHY-14	1.99	2.06	2.09	2.05
15	PPHY-15	2.54	2.28	2.65	2.49
16	PPHY-16	1.68	1.62	1.71	1.67
17	PPHY-17	2.63	2.74	2.35	2.57
18	PPHY-18	2.09	2.18	1.86	2.04
19	PPHY-19	2.09	1.93	2.04	2.02
20	PPHY-20	2.20	2.11	1.87	2.06
21	PPHY-21	1.78	2.00	1.94	1.91
22	PPHY-22	2.09	2.20	1.83	2.04
23	PPHY-23	2.47	2.71	2.64	2.61
24	PPHY-24	1.82	2.13	2.26	2.07
25	PPHY-25	2.12	2.19	1.94	2.08
26	PPHY-26	1.71	2.11	2.00	1.94
27	PPHY-27	1.44	1.59	1.65	1.56
28	PPHY-28	2.29	2.45	2.52	2.42
				SEm±	0.089
				CD at 5%	0.252
				C.V.%	7.07

Character: Total amino acids (mg/g)

No	Entry	I	II	III	Mean
1	PPHY-1	5.39	5.13	5.32	5.28
2	PPHY-2	7.44	7.01	5.95	6.80
3	PPHY-3	4.69	5.60	5.34	5.21
4	PPHY-4	6.43	7.60	7.27	7.10
5	PPHY-5	7.42	7.20	6.65	7.09
6	PPHY-6	7.62	6.50	7.30	7.14
7	PPHY-7	6.99	7.10	6.73	6.94
8	PPHY-8	4.78	4.83	4.64	4.75
9	PPHY-9	7.59	7.06	7.80	7.48
10	PPHY-10	5.33	4.69	5.58	5.20
11	PPHY-11	6.53	6.72	6.79	6.68
12	PPHY-12	5.14	4.98	5.21	5.11
13	PPHY-13	7.45	6.94	7.30	7.23
14	PPHY-14	5.48	5.03	5.35	5.29
15	PPHY-15	8.05	7.56	6.32	7.31
16	PPHY-16	4.44	5.26	5.03	4.91
17	PPHY-17	6.86	7.73	7.48	7.36
18	PPHY-18	5.16	5.29	5.34	5.26
19	PPHY-19	5.61	5.36	4.73	5.23
20	PPHY-20	5.80	5.47	4.65	5.31
21	PPHY-21	5.15	5.07	4.87	5.03
22	PPHY-22	5.28	4.98	5.40	5.22
23	PPHY-23	7.39	7.89	7.75	7.68
24	PPHY-24	5.52	5.84	4.72	5.36
25	PPHY-25	7.00	5.62	6.61	6.41
26	PPHY-26	4.87	5.20	5.33	5.13
27	PPHY-27	4.82	4.31	4.67	4.60
28	PPHY-28	7.21	6.56	7.02	6.93
				SEm±	0.249
				CD at 5%	0.707
				C.V.%	7.14

Panicle Initiation

No	Entry	I	II	III	Mean
1	PPHY-1	45.37	52.56	50.51	49.48
2	PPHY-2	53.13	44.77	56.48	51.46
3	PPHY-3	49.62	52.13	43.36	48.37
4	PPHY-4	57.57	54.98	48.52	53.69
5	PPHY-5	55.06	52.70	56.00	54.59
6	PPHY-6	47.32	50.45	49.56	49.11
7	PPHY-7	57.62	49.20	55.21	54.01
8	PPHY-8	46.50	53.41	56.18	52.03
9	PPHY-9	52.61	55.36	45.74	51.24
10	PPHY-10	48.49	55.60	53.57	52.55
11	PPHY-11	48.10	50.71	41.56	46.79
12	PPHY-12	45.42	44.79	43.23	44.48
13	PPHY-13	49.30	46.40	39.15	44.95
14	PPHY-14	46.40	45.48	43.18	45.02
15	PPHY-15	41.97	49.12	51.98	47.69
16	PPHY-16	45.27	38.38	48.02	43.89
17	PPHY-17	44.87	44.27	42.77	43.97
18	PPHY-18	40.59	46.58	48.97	45.38
19	PPHY-19	40.60	45.74	47.79	44.71
20	PPHY-20	48.87	46.51	48.20	47.86
21	PPHY-21	42.76	53.31	50.30	48.79
22	PPHY-22	49.27	43.82	47.71	46.93
23	PPHY-23	52.01	49.80	44.26	48.69
24	PPHY-24	40.92	50.02	47.42	46.12
25	PPHY-25	44.11	51.17	54.00	49.76
26	PPHY-26	50.55	47.04	51.96	49.85
27	PPHY-27	50.18	47.19	39.71	45.69
28	PPHY-28	46.27	47.88	42.24	45.46
				SEm±	2.37
				CD at 5%	6.74
				C.V.%	8.51

Character: Days to 50% flowering

No	Entry	I	II	III	Mean
1	PPHY-1	55.77	62.20	60.36	59.44
2	PPHY-2	53.06	61.80	65.29	60.05
3	PPHY-3	61.27	51.04	58.34	56.88
4	PPHY-4	64.72	55.29	68.49	62.83
5	PPHY-5	66.12	59.76	64.30	63.39
6	PPHY-6	52.01	63.57	60.27	58.62
7	PPHY-7	60.40	66.61	64.84	63.95
8	PPHY-8	60.12	62.37	61.73	61.40
9	PPHY-9	62.26	59.92	61.59	61.26
10	PPHY-10	56.32	64.15	67.28	62.58
11	PPHY-11	60.74	48.96	57.37	55.69
12	PPHY-12	54.58	57.53	47.22	53.11
13	PPHY-13	57.75	55.16	48.67	53.86
14	PPHY-14	47.51	58.45	55.33	53.76
15	PPHY-15	54.25	58.97	57.62	56.95
16	PPHY-16	53.59	56.25	46.94	52.26
17	PPHY-17	56.20	48.14	53.90	52.75
18	PPHY-18	51.50	57.44	55.74	54.89
19	PPHY-19	50.62	54.14	55.55	53.44
20	PPHY-20	60.41	57.96	51.84	56.74
21	PPHY-21	55.13	61.38	59.60	58.70
22	PPHY-22	56.95	54.38	57.97	56.43
23	PPHY-23	61.60	51.65	58.76	57.33
24	PPHY-24	57.52	56.09	52.50	55.37
25	PPHY-25	60.08	53.53	62.70	58.77
26	PPHY-26	59.42	60.23	57.41	59.02
27	PPHY-27	56.50	48.09	59.86	54.82
28	PPHY-28	51.20	54.90	56.37	54.16
				SEm±	2.54
				CD at 5%	7.20
				C.V.%	7.65

Character: No. of Productive tillers

No	Entry	I	II	III	Mean
1	PPHY-1	4.32	5.49	5.15	5.22
2	PPHY-2	4.41	4.84	4.72	5.06
3	PPHY-3	4.12	4.63	4.83	4.45
4	PPHY-4	3.86	3.69	3.27	2.97
5	PPHY-5	3.32	3.21	2.93	2.48
6	PPHY-6	3.94	4.28	4.18	3.19
7	PPHY-7	3.54	3.50	3.39	3.57
8	PPHY-8	4.17	4.37	3.67	3.60
9	PPHY-9	4.65	4.44	3.90	3.96
10	PPHY-10	4.36	4.81	4.99	4.29
11	PPHY-11	2.96	2.78	2.33	2.63
12	PPHY-12	4.40	4.27	3.93	4.07
13	PPHY-13	3.38	3.99	4.24	3.40
14	PPHY-14	2.44	2.75	2.88	1.84
15	PPHY-15	3.71	4.00	3.91	3.47
16	PPHY-16	4.07	3.91	4.03	3.94
17	PPHY-17	3.89	3.39	3.75	3.41
18	PPHY-18	3.28	3.53	3.63	3.64
19	PPHY-19	4.21	4.54	4.44	4.34
20	PPHY-20	4.00	3.83	3.40	3.93
21	PPHY-21	4.05	3.64	3.93	3.83
22	PPHY-22	3.27	4.09	3.86	3.00
23	PPHY-23	5.48	5.68	4.98	4.62
24	PPHY-24	4.79	4.93	4.45	4.86
25	PPHY-25	3.79	3.97	4.05	3.06
26	PPHY-26	5.15	5.33	4.68	4.31
27	PPHY-27	4.19	4.02	3.59	3.42
28	PPHY-28	3.10	3.30	3.24	2.85
				SEm±	0.16
				CD at 5%	0.45
				C.V.%	7.06

Character: Seed setting %

No	Entry	I	II	III	Mean
1	PPHY-1	94.20	84.30	91.37	89.96
2	PPHY-2	89.12	92.24	93.49	91.62
3	PPHY-3	84.55	95.24	99.51	93.10
4	PPHY-4	85.46	73.20	90.37	83.01
5	PPHY-5	90.22	92.21	85.26	89.23
6	PPHY-6	93.82	90.70	82.90	89.14
7	PPHY-7	84.05	80.91	73.06	79.34
8	PPHY-8	91.72	88.22	79.47	86.47
9	PPHY-9	86.12	92.22	94.66	91.00
10	PPHY-10	88.84	75.14	94.32	86.10
11	PPHY-11	84.23	71.52	89.32	81.69
12	PPHY-12	85.11	67.80	80.16	77.69
13	PPHY-13	98.04	95.02	87.47	93.51
14	PPHY-14	86.52	99.36	95.69	93.86
15	PPHY-15	94.96	88.26	97.64	93.62
16	PPHY-16	86.67	82.28	88.42	85.79
17	PPHY-17	78.83	81.97	83.23	81.34
18	PPHY-18	75.93	82.09	84.55	80.86
19	PPHY-19	97.95	92.94	80.40	90.43
20	PPHY-20	90.52	78.44	87.07	85.34
21	PPHY-21	86.17	79.71	88.76	84.88
22	PPHY-22	99.86	80.89	94.44	91.73
23	PPHY-23	78.20	77.33	75.14	76.89
24	PPHY-24	95.59	87.24	93.20	92.01
25	PPHY-25	94.90	93.14	88.74	92.26
26	PPHY-26	77.66	80.74	69.96	76.12
27	PPHY-27	81.15	101.01	95.34	92.50
28	PPHY-28	81.30	77.33	67.40	75.34
				SEm±	3.67
				CD at 5%	10.44
				C.V.%	7.35

Character: Days to Physiological Maturity

No	Entry	I	II	III	Mean
1	PPHY-1	91.97	77.12	97.91	89.00
2	PPHY-2	73.33	90.23	85.40	82.99
3	PPHY-3	85.11	89.04	75.28	83.14
4	PPHY-4	82.03	92.51	96.70	90.41
5	PPHY-5	81.07	88.06	90.86	86.66
6	PPHY-6	83.42	90.08	88.18	87.23
7	PPHY-7	94.24	88.77	75.08	86.03
8	PPHY-8	96.84	78.05	91.47	88.79
9	PPHY-9	82.12	84.80	85.87	84.26
10	PPHY-10	94.21	91.16	83.52	89.63
11	PPHY-11	79.67	88.00	85.62	84.43
12	PPHY-12	82.43	75.43	85.23	81.03
13	PPHY-13	92.14	96.39	81.50	90.01
14	PPHY-14	88.05	74.47	93.48	85.33
15	PPHY-15	75.70	92.83	87.94	85.49
16	PPHY-16	92.53	83.24	89.88	88.55
17	PPHY-17	74.54	84.27	88.16	82.32
18	PPHY-18	83.94	86.72	77.00	82.55
19	PPHY-19	87.38	92.77	73.91	84.69
20	PPHY-20	84.45	87.69	76.35	82.83
21	PPHY-21	78.66	95.36	90.59	88.20
22	PPHY-22	81.41	87.48	85.75	84.88
23	PPHY-23	79.85	88.10	91.40	86.45
24	PPHY-24	90.02	85.59	74.50	83.37
25	PPHY-25	88.57	80.45	86.25	85.09
26	PPHY-26	95.23	78.17	90.36	87.92
27	PPHY-27	77.69	88.07	85.10	83.62
28	PPHY-28	73.31	86.56	91.86	83.91
				SEm±	4.20
				CD at 5%	NS
				C.V.%	8.51

Character: Ear head wt (kg/ha)

No	Entry	I	II	III	Mean
1	PPHY-1	3362	2902	3546	3270
2	PPHY-2	4558	4773	4859	4730
3	PPHY-3	5450	5228	5387	5355
4	PPHY-4	2313	2509	2453	2425
5	PPHY-5	2721	3332	3157	3070
6	PPHY-6	4145	3270	3895	3770
7	PPHY-7	2733	2889	2344	2655
8	PPHY-8	1700	2025	2155	1960
9	PPHY-9	5237	6423	6084	5915
10	PPHY-10	2209	2578	2473	2420
11	PPHY-11	3238	2949	3353	3180
12	PPHY-12	4083	3504	3918	3835
13	PPHY-13	4798	4640	4753	4730
14	PPHY-14	6733	6634	6387	6585
15	PPHY-15	6008	6878	6629	6505
16	PPHY-16	7481	8049	8276	7935
17	PPHY-17	7027	6516	7232	6925
18	PPHY-18	5978	4980	5693	5550
19	PPHY-19	4952	4790	5017	4920
20	PPHY-20	4932	4122	4701	4585
21	PPHY-21	4577	3720	4332	4210
22	PPHY-22	4412	4909	5108	4810
23	PPHY-23	2130	1982	2189	2100
24	PPHY-24	10168	9428	10464	10020
25	PPHY-25	6287	6512	5726	6175
26	PPHY-26	5269	4268	4983	4840
27	PPHY-27	7540	7729	7066	7445
28	PPHY-28	5669	4668	5383	5240
				SEm±	201.75
				CD at 5%	573.62
				C.V.%	7.24

Character: Grain yield (kg/ha)

No	Entry	I	II	III	Mean
1	PPHY-1	1313	1478	1544	1445
2	PPHY-2	2363	1999	2509	2290
3	PPHY-3	3315	2789	3165	3090
4	PPHY-4	1088	1046	941	1025
5	PPHY-5	711	687	627	675
6	PPHY-6	1448	1676	1767	1630
7	PPHY-7	1031	1092	877	1000
8	PPHY-8	706	766	749	740
9	PPHY-9	1848	1930	1907	1895
10	PPHY-10	1077	1249	1200	1175
11	PPHY-11	1024	1169	1227	1140
12	PPHY-12	1949	1555	1836	1780
13	PPHY-13	2218	2130	2253	2200
14	PPHY-14	2793	2704	2828	2775
15	PPHY-15	2733	2694	2597	2675
16	PPHY-16	2589	2171	2470	2410
17	PPHY-17	2563	2524	2428	2505
18	PPHY-18	2694	2598	2358	2550
19	PPHY-19	2539	2733	2678	2650
20	PPHY-20	1998	2044	1883	1975
21	PPHY-21	2280	2147	1813	2080
22	PPHY-22	1465	1315	1525	1435
23	PPHY-23	1195	1251	1274	1240
24	PPHY-24	2542	2697	2156	2465
25	PPHY-25	3517	3355	3582	3485
26	PPHY-26	1224	1438	1523	1395
27	PPHY-27	2688	2753	2525	2655
28	PPHY-28	1550	1324	1640	1505
				SEm±	85.49
				CD at 5%	243.07
				C.V.%	7.69

Character: Fodder wt (kg/ha)

No	Entry	I	II	III	Mean
1	PPHY-1	5474	4953	5871	5433
2	PPHY-2	4556	5099	4893	4849
3	PPHY-3	5702	4892	5271	5288
4	PPHY-4	4934	5512	5633	5360
5	PPHY-5	5282	4715	5835	5278
6	PPHY-6	5213	5561	4745	5173
7	PPHY-7	4289	6634	4864	5262
8	PPHY-8	5269	4474	6300	5348
9	PPHY-9	5550	4390	7019	5653
10	PPHY-10	6534	8717	7686	7646
11	PPHY-11	5000	4488	4042	4510
12	PPHY-12	3417	4500	3958	3958
13	PPHY-13	3708	4167	4229	4035
14	PPHY-14	2483	3310	3758	3184
15	PPHY-15	3013	2792	3675	3160
16	PPHY-16	3767	3068	3338	3391
17	PPHY-17	4358	4079	3300	3912
18	PPHY-18	2992	2708	3375	3025
19	PPHY-19	2810	3025	3775	3203
20	PPHY-20	2842	2367	3544	2918
21	PPHY-21	3586	3217	3844	3549
22	PPHY-22	2958	2792	3275	3008
23	PPHY-23	2375	3042	2783	2733
24	PPHY-24	6617	4180	5370	5389
25	PPHY-25	6174	5668	6556	6133
26	PPHY-26	6136	6741	5506	6128
27	PPHY-27	3542	3708	3188	3479
28	PPHY-28	2813	3500	2646	2986
				SEm±	351.54
				CD at 5%	802.29
				C.V.%	11.51

Character: Threshing Index

No	Entry	I	II	III	Mean
1	PPHY-1	39.05	50.93	43.55	44.19
2	PPHY-2	51.84	41.87	51.63	48.41
3	PPHY-3	60.83	53.35	58.76	57.70
4	PPHY-4	47.04	41.68	38.37	42.27
5	PPHY-5	26.13	20.62	19.86	21.99
6	PPHY-6	34.92	51.25	45.36	43.24
7	PPHY-7	37.71	37.81	37.43	37.66
8	PPHY-8	41.51	37.81	34.74	37.76
9	PPHY-9	35.29	30.05	31.34	32.04
10	PPHY-10	48.75	48.43	48.51	48.55
11	PPHY-11	31.62	39.64	36.59	35.85
12	PPHY-12	47.72	44.38	46.87	46.41
13	PPHY-13	46.22	45.91	47.40	46.51
14	PPHY-14	41.48	40.76	44.27	42.14
15	PPHY-15	45.49	39.18	39.18	41.12
16	PPHY-16	34.61	26.98	29.84	30.37
17	PPHY-17	36.47	38.74	33.57	36.17
18	PPHY-18	45.07	52.17	41.42	45.95
19	PPHY-19	51.27	57.06	53.37	53.86
20	PPHY-20	40.51	49.58	40.07	43.08
21	PPHY-21	49.81	57.70	41.86	49.41
22	PPHY-22	33.20	26.78	29.85	29.83
23	PPHY-23	56.11	63.14	58.20	59.05
24	PPHY-24	25.00	28.61	20.60	24.60
25	PPHY-25	55.95	51.52	62.57	56.44
26	PPHY-26	23.23	33.69	30.57	28.82
27	PPHY-27	35.65	35.61	35.73	35.66
28	PPHY-28	27.35	28.37	30.48	28.72
				SEm±	2.40
				CD at 5%	6.89
				C.V.%	9.91

Character: Harvest Index

No	Entry	I	II	III	Mean
1	PPHY-1	19.34	22.98	20.82	21.01
2	PPHY-2	34.15	28.16	33.89	32.08
3	PPHY-3	36.77	36.31	37.52	36.88
4	PPHY-4	18.07	15.95	14.32	16.05
5	PPHY-5	11.86	12.72	9.70	11.34
6	PPHY-6	21.74	23.15	27.13	23.96
7	PPHY-7	19.37	14.13	15.28	15.97
8	PPHY-8	11.81	14.61	10.62	12.16
9	PPHY-9	24.98	30.54	21.36	25.11
10	PPHY-10	14.15	12.53	13.50	13.32
11	PPHY-11	17.00	20.66	23.29	20.18
12	PPHY-12	36.32	25.68	31.69	31.02
13	PPHY-13	37.42	33.83	34.75	35.28
14	PPHY-14	52.93	44.97	42.94	46.57
15	PPHY-15	47.57	49.11	41.41	45.84
16	PPHY-16	40.73	41.44	42.52	41.54
17	PPHY-17	37.03	38.23	42.38	39.04
18	PPHY-18	47.38	48.96	41.13	45.74
19	PPHY-19	47.47	47.47	41.50	45.28
20	PPHY-20	41.28	46.33	34.70	40.36
21	PPHY-21	38.87	40.02	32.05	36.95
22	PPHY-22	33.12	32.02	31.77	32.30
23	PPHY-23	33.47	29.14	31.40	31.21
24	PPHY-24	27.76	39.22	28.65	31.39
25	PPHY-25	36.29	37.18	35.34	36.23
26	PPHY-26	16.63	17.58	21.67	18.54
27	PPHY-27	43.14	42.61	44.19	43.28
28	PPHY-28	35.53	27.45	38.27	33.51
				SEm±	1.96
				CD at 5%	5.57
				C.V.%	10.96

Character: Test weight (gram)

No	Entry	I	II	III	Mean
1	PPHY-1	6.48	6.82	5.63	6.31
2	PPHY-2	6.58	5.29	6.21	6.03
3	PPHY-3	7.07	5.57	6.64	6.43
4	PPHY-4	5.10	4.74	5.25	5.03
5	PPHY-5	5.18	5.32	4.83	5.11
6	PPHY-6	2.81	2.69	2.86	2.79
7	PPHY-7	3.62	4.21	4.45	4.10
8	PPHY-8	4.43	4.80	4.95	4.73
9	PPHY-9	7.26	6.88	7.41	7.18
10	PPHY-10	5.42	4.96	5.60	5.32
11	PPHY-11	5.54	5.81	5.91	5.75
12	PPHY-12	5.14	5.44	4.40	5.00
13	PPHY-13	5.67	5.87	5.18	5.57
14	PPHY-14	4.64	5.12	4.98	4.91
15	PPHY-15	8.21	6.48	7.71	7.47
16	PPHY-16	5.64	4.85	5.96	5.48
17	PPHY-17	6.97	6.61	6.87	6.82
18	PPHY-18	6.32	6.40	6.10	6.27
19	PPHY-19	7.58	7.36	7.67	7.54
20	PPHY-20	6.38	6.56	5.94	6.30
21	PPHY-21	6.24	5.33	5.98	5.85
22	PPHY-22	5.24	5.95	6.23	5.81
23	PPHY-23	4.93	4.70	4.86	4.83
24	PPHY-24	4.20	4.55	4.45	4.40
25	PPHY-25	4.68	5.17	5.37	5.07
26	PPHY-26	4.83	5.21	5.10	5.05
27	PPHY-27	6.54	5.28	6.18	6.00
28	PPHY-28	5.81	7.01	6.67	6.50
				SEm±	0.25
				CD at 5%	0.71
				C.V.%	7.72

Character: Disease (Based on symptoms)

No	Entry	Disease Name
1	PPHY-1	Blast & Blight
2	PPHY-2	Ergot
3	PPHY-3	Blast
4	PPHY-4	No Disease
5	PPHY-5	No Disease
6	PPHY-6	No Disease
7	PPHY-7	Blight
8	PPHY-8	Blast
9	PPHY-9	No Disease
10	PPHY-10	No Disease
11	PPHY-11	Ergot
12	PPHY-12	Downy Mildew & Ergot
13	PPHY-13	No Disease
14	PPHY-14	No Disease
15	PPHY-15	No Disease
16	PPHY-16	Downy Mildew
17	PPHY-17	No Disease
18	PPHY-18	Ergot
19	PPHY-19	Ergot
20	PPHY-20	Downy Mildew
21	PPHY-21	Ergot
22	PPHY-22	Ergot
23	PPHY-23	No Disease
24	PPHY-24	Ergot
25	PPHY-25	Ergot
26	PPHY-26	Downy Mildew
27	PPHY-27	Smut & Ergot
28	PPHY-28	No Disease

Trial: PMPHY-2: Agro-physiological management for improving drought tolerance in Pearl millet by exogenous application of plant growth regulators.

Location : RARI, Durgapura- Jaipur Zone : A
Net Plot size : 4.0 x 1.2 sq m

After one week of spraying the PGRs at Tillering stage

Character: Chlorophyll content (mg/g^1 f. wt)

Sr. No	Name of Entry	I	II	III	Mean
1.	T_1V_1	1.83	1.90	1.88	1.87
2.	T_1V_2	1.75	1.94	2.01	1.90
3.	T_2V_1	2.00	2.09	1.79	1.96
4.	T_2V_2	2.09	2.03	1.88	2.00
5.	T_3V_1	1.92	2.15	2.08	2.05
6.	T_3V_2	2.14	2.23	1.90	2.09
7.	T_4V_1	2.02	1.71	2.15	1.96
8.	T_4V_2	2.02	1.93	1.99	1.98
9.	T_5V_1	2.09	1.81	2.20	2.03
10.	T_5V_2	2.12	1.91	2.21	2.08
11.	T_6V_1	1.68	1.87	1.94	1.83
12.	T_6V_2	1.82	1.89	1.87	1.86
13.	T_7V_1	1.84	1.91	1.68	1.81
14.	T_7V_2	1.68	1.94	1.87	1.83
15.	T_8V_1	1.92	2.08	2.03	2.01
16.	T_8V_2	1.82	2.11	2.22	2.05
17.	T_9V_1	2.00	1.79	1.94	1.91
18.	T_9V_2	2.04	1.83	1.98	1.95
19.	$T_{10}V_1$	1.79	1.86	1.84	1.83
20.	$T_{10}V_2$	1.64	1.90	2.01	1.85
			GM	1.94	
				Factor A	Factor B
			SEm±	0.025	0.030
			CD at 5%	0.072	0.076

Character: Relative water content (RWC)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	77.38	85.32	88.49	83.73
2.	**T_1V_2**	73.04	91.38	86.14	83.52
3.	**T_2V_1**	89.63	78.41	94.12	87.39
4.	**T_2V_2**	88.38	91.07	81.65	87.03
5.	**T_3V_1**	93.87	90.06	80.55	88.16
6.	**T_3V_2**	90.58	77.48	95.82	87.96
7.	**T_4V_1**	88.75	94.11	75.35	86.07
8.	**T_4V_2**	77.30	92.33	88.04	85.89
9.	**T_5V_1**	84.45	83.03	79.48	82.32
10.	**T_5V_2**	83.04	84.83	78.56	82.14
11.	**T_6V_1**	82.65	89.35	92.03	88.01
12.	**T_6V_2**	88.74	84.44	90.46	87.88
13.	**T_7V_1**	84.77	78.75	83.05	82.19
14.	**T_7V_2**	80.06	83.32	82.39	81.92
15.	**T_8V_1**	82.78	90.55	88.33	87.22
16.	**T_8V_2**	89.60	94.78	76.65	87.01
17.	**T_9V_1**	87.56	91.87	76.79	85.41
18.	**T_9V_2**	93.23	74.03	87.74	85.00
19.	**$T_{10}V_1$**	72.08	84.58	89.58	82.08
20.	**$T_{10}V_2$**	83.05	76.73	85.58	81.79
			GM	85.14	
				Factor A	Factor B
			SEm±	0.41	0.59
			CD at 5%	1.26	1.68

Character: Membrane Stability Index (MSI)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	69.92	73.39	72.40	71.90
2.	**T_1V_2**	74.07	78.22	63.68	71.99
3.	**T_2V_1**	74.64	63.69	79.02	72.45
4.	**T_2V_2**	74.04	68.89	76.10	73.01
5.	**T_3V_1**	69.99	76.12	78.57	74.89
6.	**T_3V_2**	76.73	80.14	68.20	75.02
7.	**T_4V_1**	78.73	65.38	74.92	73.01
8.	**T_4V_2**	80.69	75.76	63.43	73.29
9.	**T_5V_1**	79.75	67.99	76.39	74.71
10.	**T_5V_2**	76.41	73.07	75.46	74.98
11.	**T_6V_1**	63.02	73.95	78.32	71.76
12.	**T_6V_2**	76.34	65.82	73.33	71.83
13.	**T_7V_1**	63.41	77.38	73.39	71.39
14.	**T_7V_2**	63.41	77.90	73.76	71.69
15.	**T_8V_1**	81.00	76.79	66.27	74.69
16.	**T_8V_2**	77.35	75.75	71.75	74.95
17.	**T_9V_1**	74.22	78.25	64.13	72.20
18.	**T_9V_2**	73.66	70.55	72.77	72.33
19.	**$T_{10}V_1$**	73.64	63.47	77.71	71.61
20.	**$T_{10}V_2$**	76.86	73.41	64.77	71.68
			GM	72.97	
				Factor A	Factor B
			SEm±	0.40	0.84
			CD at 5%	1.31	2.40

Character: Number of leaves per plant

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	19.74	21.53	21.02	20.76
2.	**T_1V_2**	23.41	21.06	24.35	22.94
3.	**T_2V_1**	21.61	24.06	23.36	23.01
4.	**T_2V_2**	24.87	25.58	23.08	24.51
5.	**T_3V_1**	24.27	25.83	20.37	23.49
6.	**T_3V_2**	26.45	22.63	27.98	25.69
7.	**T_4V_1**	23.92	21.21	23.15	22.76
8.	**T_4V_2**	27.53	25.84	21.60	24.99
9.	**T_5V_1**	23.63	20.52	24.88	23.01
10.	**T_5V_2**	25.72	26.35	24.16	25.41
11.	**T_6V_1**	18.97	23.85	22.46	21.76
12.	**T_6V_2**	22.99	24.10	24.55	23.88
13.	**T_7V_1**	23.05	21.67	18.21	20.98
14.	**T_7V_2**	21.80	24.08	23.43	23.10
15.	**T_8V_1**	23.75	25.26	19.99	23.00
16.	**T_8V_2**	26.92	22.91	25.77	25.20
17.	**T_9V_1**	20.62	22.62	23.42	22.22
18.	**T_9V_2**	22.15	26.68	25.39	24.74
19.	**$T_{10}V_1$**	19.29	22.26	21.41	20.99
20.	**$T_{10}V_2$**	24.69	22.21	23.98	23.63
			GM	23.30	
				Factor A	Factor B
			SEm±	0.37	0.82
			CD at 5%	1.28	2.40

Character: Fresh weight of leaves (5 leaves per plant)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	5.86	6.14	6.06	6.02
2.	**T_1V_2**	6.50	5.51	6.89	6.30
3.	**T_2V_1**	5.74	6.70	6.43	6.29
4.	**T_2V_2**	5.95	7.17	6.82	6.65
5.	**T_3V_1**	8.11	8.61	6.86	7.86
6.	**T_3V_2**	8.67	8.24	7.16	8.02
7.	**T_4V_1**	7.15	7.46	6.38	7.00
8.	**T_4V_2**	7.53	7.33	6.84	7.23
9.	**T_5V_1**	7.82	8.20	6.87	7.63
10.	**T_5V_2**	8.27	8.08	7.61	7.99
11.	**T_6V_1**	5.94	6.96	7.37	6.76
12.	**T_6V_2**	7.24	7.09	6.70	7.01
13.	**T_7V_1**	5.88	6.05	5.44	5.79
14.	**T_7V_2**	5.56	6.11	6.33	6.00
15.	**T_8V_1**	7.41	6.75	7.68	7.28
16.	**T_8V_2**	8.25	6.90	7.86	7.67
17.	**T_9V_1**	6.66	5.91	6.96	6.51
18.	**T_9V_2**	5.96	7.59	7.12	6.89
19.	**$T_{10}V_1$**	6.05	5.40	5.86	5.77
20.	**$T_{10}V_2$**	6.33	6.18	5.81	6.11
			GM	6.84	
				Factor A	Factor B
			SEm±	0.38	0.82
			CD at 5%	1.29	3.02

Character: Dry weight of leaves (5 leaves per plant)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	1.51	1.58	1.56	1.55
2.	**T_1V_2**	1.67	1.42	1.77	1.62
3.	**T_2V_1**	1.48	1.72	1.65	1.62
4.	**T_2V_2**	1.53	1.84	1.75	1.71
5.	**T_3V_1**	2.09	2.21	1.76	2.02
6.	**T_3V_2**	2.23	2.12	1.84	2.06
7.	**T_4V_1**	1.84	1.92	1.64	1.80
8.	**T_4V_2**	1.94	1.88	1.76	1.86
9.	**T_5V_1**	2.01	2.11	1.77	1.96
10.	**T_5V_2**	2.13	2.08	1.96	2.05
11.	**T_6V_1**	1.53	1.79	1.89	1.74
12.	**T_6V_2**	1.86	1.82	1.72	1.80
13.	**T_7V_1**	1.51	1.56	1.40	1.49
14.	**T_7V_2**	1.43	1.57	1.63	1.54
15.	**T_8V_1**	1.91	1.74	1.97	1.87
16.	**T_8V_2**	2.12	1.77	1.97	1.96
17.	**T_9V_1**	1.71	1.52	1.79	1.67
18.	**T_9V_2**	1.53	1.95	1.83	1.77
19.	**$T_{10}V_1$**	1.56	1.39	1.51	1.48
20.	**$T_{10}V_2$**	1.63	1.59	1.49	1.57
			GM	1.76	
				Factor A	Factor B
			SEm±	0.025	0.032
			CD at 5%	0.86	0.099

Character: Fresh weight of Stem (5 plant's stem)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	22.70	23.78	19.98	22.15
2.	**T_1V_2**	20.53	23.85	25.18	23.18
3.	**T_2V_1**	24.50	21.34	23.60	23.15
4.	**T_2V_2**	24.69	23.58	25.14	24.47
5.	**T_3V_1**	25.51	29.78	31.49	28.92
6.	**T_3V_2**	30.50	29.84	28.20	29.51
7.	**T_4V_1**	27.92	22.88	26.48	25.76
8.	**T_4V_2**	23.27	29.11	27.44	26.61
9.	**T_5V_1**	28.81	25.14	30.28	28.08
10.	**T_5V_2**	29.55	28.82	29.84	29.40
11.	**T_6V_1**	21.71	25.67	27.25	24.88
12.	**T_6V_2**	27.85	26.48	23.05	25.80
13.	**T_7V_1**	20.78	21.44	21.70	21.31
14.	**T_7V_2**	23.51	20.17	22.56	22.08
15.	**T_8V_1**	28.49	24.53	27.36	26.79
16.	**T_8V_2**	24.58	30.96	29.14	28.23
17.	**T_9V_1**	21.89	24.47	25.51	23.96
18.	**T_9V_2**	27.90	26.20	21.97	25.36
19.	**$T_{10}V_1$**	18.99	22.91	21.79	21.23
20.	**$T_{10}V_2$**	24.45	23.14	19.87	22.48
			GM	25.17	
				Factor A	Factor B
			SEm±	1.36	1.43
			CD at 5%	2.46	2.51

Character: Dry weight of Stem (5 plant's stem)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	7.77	8.14	6.84	7.58
2.	**T_1V_2**	7.02	8.16	8.61	7.93
3.	**T_2V_1**	8.38	7.30	8.07	7.92
4.	**T_2V_2**	8.45	8.07	8.60	8.37
5.	**T_3V_1**	8.73	10.19	10.77	9.89
6.	**T_3V_2**	10.43	10.21	9.65	10.10
7.	**T_4V_1**	9.55	7.83	9.06	8.81
8.	**T_4V_2**	7.96	9.96	9.38	9.10
9.	**T_5V_1**	9.85	8.60	10.36	9.60
10.	**T_5V_2**	10.11	9.86	10.20	10.06
11.	**T_6V_1**	7.43	8.78	9.32	8.51
12.	**T_6V_2**	9.53	9.05	7.89	8.82
13.	**T_7V_1**	7.10	7.33	7.42	7.28
14.	**T_7V_2**	8.04	6.90	7.72	7.55
15.	**T_8V_1**	9.75	8.39	9.54	9.23
16.	**T_8V_2**	8.41	10.60	9.97	9.66
17.	**T_9V_1**	7.49	8.37	8.73	8.20
18.	**T_9V_2**	9.54	8.96	7.51	8.67
19.	**$T_{10}V_1$**	6.49	7.83	7.45	7.26
20.	**$T_{10}V_2$**	8.36	7.91	6.80	7.69
			GM	8.61	
				Factor A	Factor B
			SEm±	0.36	0.83
			CD at 5%	1.26	2.38

Character: Fresh weight of Root (5 plant's root)

Sr. No	Name of Entry	I	II	III	Mean
1.	T_1V_1	4.09	3.93	4.04	4.02
2.	T_1V_2	4.40	4.33	4.17	4.30
3.	T_2V_1	4.39	4.59	3.89	4.29
4.	T_2V_2	4.76	4.99	4.20	4.65
5.	T_3V_1	6.07	5.93	5.58	5.86
6.	T_3V_2	5.34	6.19	6.53	6.02
7.	T_4V_1	5.08	5.23	4.70	5.00
8.	T_4V_2	5.64	5.37	4.68	5.23
9.	T_5V_1	5.10	5.76	6.03	5.63
10.	T_5V_2	5.53	6.33	6.10	5.99
11.	T_6V_1	4.90	5.19	4.18	4.76
12.	T_6V_2	5.07	5.19	4.76	5.01
13.	T_7V_1	4.16	3.29	3.91	3.79
14.	T_7V_2	4.09	4.26	3.65	4.00
15.	T_8V_1	5.79	5.45	4.59	5.28
16.	T_8V_2	5.79	5.21	6.02	5.67
17.	T_9V_1	3.96	4.92	4.65	4.51
18.	T_9V_2	5.13	4.97	4.57	4.89
19.	$T_{10}V_1$	3.70	3.79	3.82	3.77
20.	$T_{10}V_2$	4.34	4.19	3.80	4.11
			GM	4.84	
				Factor A	Factor B
			SEm±	0.025	0.042
			CD at 5%	0.079	1.01

Character: Dry weight of Root (5 plant's root)

Sr. No	Name of Entry	I	II	III	Mean
1.	T_1V_1	1.23	1.18	1.21	1.21
2.	T_1V_2	1.32	1.29	1.25	1.29
3.	T_2V_1	1.31	1.37	1.17	1.28
4.	T_2V_2	1.43	1.50	1.26	1.40
5.	T_3V_1	1.82	1.79	1.67	1.76
6.	T_3V_2	1.60	1.86	1.96	1.81
7.	T_4V_1	1.52	1.56	1.40	1.49
8.	T_4V_2	1.69	1.61	1.40	1.57
9.	T_5V_1	1.53	1.73	1.81	1.69
10.	T_5V_2	1.65	1.90	1.82	1.79
11.	T_6V_1	1.47	1.57	1.25	1.43
12.	T_6V_2	1.52	1.55	1.43	1.50
13.	T_7V_1	1.25	0.99	1.17	1.14
14.	T_7V_2	1.22	1.28	1.09	1.20
15.	T_8V_1	1.74	1.64	1.37	1.58
16.	T_8V_2	1.74	1.56	1.80	1.70
17.	T_9V_1	1.18	1.47	1.39	1.35
18.	T_9V_2	1.54	1.49	1.37	1.47
19.	$T_{10}V_1$	1.11	1.13	1.15	1.13
20.	$T_{10}V_2$	1.30	1.25	1.14	1.23
			GM	1.45	
				Factor A	Factor B
			SEm±	0.019	0.027
			CD at 5%	0.057	0.071

Character: Crop growth rate (g m^{-2} day^{-1})

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	9.05	10.42	10.03	9.83
2.	**T_1V_2**	10.75	10.27	9.07	10.03
3.	**T_2V_1**	12.18	10.20	11.61	11.33
4.	**T_2V_2**	11.00	12.31	11.94	11.75
5.	**T_3V_1**	12.41	13.11	10.66	12.06
6.	**T_3V_2**	12.79	12.50	11.79	12.36
7.	**T_4V_1**	10.44	11.80	12.35	11.53
8.	**T_4V_2**	10.82	12.86	12.28	11.99
9.	**T_5V_1**	10.90	12.17	12.68	11.92
10.	**T_5V_2**	10.80	12.54	13.23	12.19
11.	**T_6V_1**	10.57	11.60	11.31	11.16
12.	**T_6V_2**	11.17	11.66	11.52	11.45
13.	**T_7V_1**	11.66	10.12	11.22	11.00
14.	**T_7V_2**	10.51	11.93	11.52	11.32
15.	**T_8V_1**	12.79	10.46	12.12	11.79
16.	**T_8V_2**	11.49	12.47	12.19	12.05
17.	**T_9V_1**	12.27	11.70	10.26	11.41
18.	**T_9V_2**	12.58	11.98	10.48	11.68
19.	**$T_{10}V_1$**	9.59	12.00	11.31	10.97
20.	**$T_{10}V_2$**	10.33	12.00	11.52	11.28
			GM	11.46	
				Factor A	Factor B
			SEm±	0.42	0.61
			CD at 5%	1.52	2.01

Character: Relative growth rate (g g^{-1} day^{-1})

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	7.08	6.54	7.29	6.97
2.	**T_1V_2**	7.28	6.74	7.49	7.17
3.	**T_2V_1**	8.68	9.11	7.62	8.47
4.	**T_2V_2**	8.26	9.05	9.36	8.89
5.	**T_3V_1**	9.45	8.20	9.95	9.20
6.	**T_3V_2**	9.74	9.18	9.58	9.50
7.	**T_4V_1**	9.26	8.87	7.89	8.67
8.	**T_4V_2**	8.53	9.28	9.58	9.13
9.	**T_5V_1**	9.46	8.52	9.19	9.06
10.	**T_5V_2**	9.08	9.39	9.51	9.33
11.	**T_6V_1**	7.63	8.47	8.80	8.30
12.	**T_6V_2**	8.65	8.77	8.35	8.59
13.	**T_7V_1**	8.21	7.84	8.36	8.14
14.	**T_7V_2**	9.28	7.36	8.73	8.46
15.	**T_8V_1**	8.48	9.26	9.04	8.93
16.	**T_8V_2**	8.09	10.02	9.47	9.19
17.	**T_9V_1**	9.16	7.74	8.75	8.55
18.	**T_9V_2**	9.30	8.18	8.98	8.82
19.	**$T_{10}V_1$**	8.36	8.87	7.09	8.11
20.	**$T_{10}V_2$**	8.60	7.69	8.97	8.42
			GM	8.60	
				Factor A	Factor B
			SEm±	0.29	0.91
			CD at 5%	1.26	2.47

After one week of spraying the PGRs at Panicle initiation

Character: Chlorophyll content (mg/g^1 f. wt)

Sr. No	Name of Entry	I	II	III	Mean
1.	T_1V_1	1.61	1.66	1.50	1.59
2.	T_1V_2	1.51	1.65	1.71	1.62
3.	T_2V_1	1.79	1.72	1.53	1.68
4.	T_2V_2	1.51	1.77	1.88	1.72
5.	T_3V_1	1.55	1.83	1.94	1.77
6.	T_3V_2	1.86	1.62	1.95	1.81
7.	T_4V_1	1.79	1.54	1.72	1.68
8.	T_4V_2	1.86	1.49	1.75	1.7
9.	T_5V_1	1.79	1.88	1.58	1.75
10.	T_5V_2	1.94	1.62	1.85	1.8
11.	T_6V_1	1.64	1.43	1.58	1.55
12.	T_6V_2	1.62	1.42	1.70	1.58
13.	T_7V_1	1.67	1.34	1.58	1.53
14.	T_7V_2	1.69	1.37	1.60	1.55
15.	T_8V_1	1.75	1.66	1.78	1.73
16.	T_8V_2	1.71	1.82	1.79	1.77
17.	T_9V_1	1.53	1.65	1.70	1.63
18.	T_9V_2	1.71	1.52	1.79	1.67
19.	$T_{10}V_1$	1.66	1.59	1.40	1.55
20.	$T_{10}V_2$	1.52	1.61	1.58	1.57
			GM	1.66	
				Factor A	Factor B
			SEm±	0.022	0.028
			CD at 5%	0.069	0.075

Character: Relative water content (RWC)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	82.89	81.99	79.75	81.54
2.	**T_1V_2**	79.48	81.79	82.72	81.33
3.	**T_2V_1**	86.42	85.61	83.57	85.2
4.	**T_2V_2**	87.10	81.83	85.59	84.84
5.	**T_3V_1**	90.48	87.47	79.95	85.97
6.	**T_3V_2**	78.75	87.52	91.03	85.77
7.	**T_4V_1**	78.31	88.05	85.27	83.88
8.	**T_4V_2**	85.74	75.56	89.81	83.7
9.	**T_5V_1**	82.50	87.23	70.66	80.13
10.	**T_5V_2**	74.06	81.42	84.37	79.95
11.	**T_6V_1**	80.67	87.11	89.68	85.82
12.	**T_6V_2**	74.71	93.93	88.44	85.69
13.	**T_7V_1**	76.65	80.84	82.51	80
14.	**T_7V_2**	81.13	74.15	83.92	79.73
15.	**T_8V_1**	75.75	87.35	91.99	85.03
16.	**T_8V_2**	86.67	82.35	85.44	84.82
17.	**T_9V_1**	79.97	84.03	85.66	83.22
18.	**T_9V_2**	84.62	83.41	80.40	82.81
19.	**$T_{10}V_1$**	85.50	72.41	81.76	79.89
20.	**$T_{10}V_2$**	72.51	81.37	84.92	79.6
			GM	82.95	
				Factor A	Factor B
			SEm±	0.42	0.57
			CD at 5%	1.28	1.70

Character: Membrane Stability Index (MSI)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	77.51	73.62	63.91	71.68
2.	**T_1V_2**	74.17	78.96	62.18	71.77
3.	**T_2V_1**	72.57	73.26	70.85	72.23
4.	**T_2V_2**	63.46	79.79	75.12	72.79
5.	**T_3V_1**	66.25	80.98	76.77	74.67
6.	**T_3V_2**	71.26	75.68	77.45	74.8
7.	**T_4V_1**	70.41	74.58	73.39	72.79
8.	**T_4V_2**	80.04	75.39	63.77	73.07
9.	**T_5V_1**	81.60	76.86	65.01	74.49
10.	**T_5V_2**	68.10	76.43	79.76	74.76
11.	**T_6V_1**	68.29	72.35	73.98	71.54
12.	**T_6V_2**	65.49	76.20	73.14	71.61
13.	**T_7V_1**	75.68	65.15	72.67	71.17
14.	**T_7V_2**	73.73	78.24	62.44	71.47
15.	**T_8V_1**	64.79	76.89	81.73	74.47
16.	**T_8V_2**	76.87	66.17	81.15	74.73
17.	**T_9V_1**	68.90	74.29	72.75	71.98
18.	**T_9V_2**	78.16	64.05	74.13	72.11
19.	**$T_{10}V_1$**	73.14	64.38	76.65	71.39
20.	**$T_{10}V_2$**	71.80	70.10	72.48	71.46
			GM	72.75	
				Factor A	Factor B
			SEm±	0.38	0.83
			CD at 5%	1.30	2.38

Character: Number of leaves per plant

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	31.24	25.59	29.63	28.82
2.	**T_1V_2**	31.60	28.60	32.80	31.00
3.	**T_2V_1**	33.59	31.91	27.71	31.07
4.	**T_2V_2**	33.21	30.02	34.48	32.57
5.	**T_3V_1**	30.83	32.09	31.73	31.55
6.	**T_3V_2**	33.93	34.30	33.01	33.75
7.	**T_4V_1**	30.01	31.02	31.43	30.82
8.	**T_4V_2**	33.49	34.36	31.31	33.05
9.	**T_5V_1**	27.54	31.95	33.72	31.07
10.	**T_5V_2**	36.16	29.88	34.37	33.47
11.	**T_6V_1**	30.21	31.00	28.25	29.82
12.	**T_6V_2**	34.49	28.54	32.79	31.94
13.	**T_7V_1**	26.51	30.94	29.67	29.04
14.	**T_7V_2**	31.67	31.33	30.48	31.16
15.	**T_8V_1**	30.07	31.80	31.31	31.06
16.	**T_8V_2**	34.39	28.75	36.64	33.26
17.	**T_9V_1**	31.56	30.71	28.57	30.28
18.	**T_9V_2**	29.10	33.72	35.57	32.80
19.	**$T_{10}V_1$**	29.93	25.54	31.68	29.05
20.	**$T_{10}V_2$**	31.06	32.17	31.85	31.69
			GM	31.36	
				Factor A	Factor B
			SEm±	0.39	0.85
			CD at 5%	1.30	2.41

Character: Fresh weight of leaves (5 leaves per plant)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	26.34	25.19	26.80	26.11
2.	**T_1V_2**	23.89	27.01	28.26	26.39
3.	**T_2V_1**	26.67	27.26	25.20	26.38
4.	**T_2V_2**	25.67	27.54	27.01	26.74
5.	**T_3V_1**	28.59	25.38	29.87	27.95
6.	**T_3V_2**	30.95	29.06	24.33	28.11
7.	**T_4V_1**	28.75	27.64	24.87	27.09
8.	**T_4V_2**	27.62	26.13	28.21	27.32
9.	**T_5V_1**	28.95	26.08	28.13	27.72
10.	**T_5V_2**	25.96	29.67	28.61	28.08
11.	**T_6V_1**	28.53	24.60	27.41	26.85
12.	**T_6V_2**	27.98	23.58	29.74	27.10
13.	**T_7V_1**	26.99	24.40	26.25	25.88
14.	**T_7V_2**	27.90	26.69	23.67	26.09
15.	**T_8V_1**	29.27	24.83	28.00	27.37
16.	**T_8V_2**	28.37	29.60	25.31	27.76
17.	**T_9V_1**	27.33	26.84	25.63	26.60
18.	**T_9V_2**	25.09	27.45	28.40	26.98
19.	**$T_{10}V_1$**	27.75	23.34	26.49	25.86
20.	**$T_{10}V_2$**	26.88	25.29	26.43	26.20
			GM	26.93	
				Factor A	Factor B
			SEm±	0.43	0.85
			CD at 5%	1.31	3.10

Character: Dry weight of leaves (5 leaves per plant)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	6.33	6.13	6.42	6.29
2.	**T_1V_2**	6.69	6.62	6.42	6.58
3.	**T_2V_1**	6.84	6.67	6.22	6.58
4.	**T_2V_2**	7.22	6.58	7.03	6.94
5.	**T_3V_1**	8.87	7.31	8.42	8.20
6.	**T_3V_2**	7.63	8.55	8.91	8.36
7.	**T_4V_1**	7.39	6.98	7.56	7.31
8.	**T_4V_2**	7.76	7.62	7.27	7.55
9.	**T_5V_1**	8.18	8.03	7.66	7.96
10.	**T_5V_2**	8.40	8.54	8.03	8.32
11.	**T_6V_1**	6.22	7.27	7.70	7.06
12.	**T_6V_2**	7.55	6.98	7.39	7.31
13.	**T_7V_1**	5.80	6.11	6.24	6.05
14.	**T_7V_2**	5.63	6.72	6.41	6.25
15.	**T_8V_1**	7.82	6.69	8.27	7.59
16.	**T_8V_2**	8.50	8.14	7.23	7.96
17.	**T_9V_1**	6.89	6.63	6.82	6.78
18.	**T_9V_2**	7.43	6.86	7.27	7.19
19.	**$T_{10}V_1$**	6.21	5.20	6.62	6.01
20.	**$T_{10}V_2$**	6.55	5.67	6.90	6.37
			GM	7.13	
				Factor A	Factor B
			SEm±	0.03	0.039
			CD at 5%	0.12	0.15

Character: Fresh weight of Stem (5 plant's stem)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	39.01	46.33	44.24	43.19
2.	**T_1V_2**	40.80	46.30	48.50	45.20
3.	**T_2V_1**	46.58	39.40	49.45	45.14
4.	**T_2V_2**	48.76	50.84	43.55	47.72
5.	**T_3V_1**	56.88	54.45	57.86	56.39
6.	**T_3V_2**	60.60	58.56	53.46	57.54
7.	**T_4V_1**	48.59	51.46	50.64	50.23
8.	**T_4V_2**	55.96	53.25	46.46	51.89
9.	**T_5V_1**	56.44	48.04	59.80	54.76
10.	**T_5V_2**	58.42	55.87	57.69	57.33
11.	**T_6V_1**	45.61	50.70	49.24	48.52
12.	**T_6V_2**	47.29	52.57	51.06	50.31
13.	**T_7V_1**	45.35	42.82	36.49	41.55
14.	**T_7V_2**	45.49	43.87	39.81	43.06
15.	**T_8V_1**	53.33	55.52	47.87	52.24
16.	**T_8V_2**	55.99	57.86	51.30	55.05
17.	**T_9V_1**	47.56	43.37	49.24	46.72
18.	**T_9V_2**	54.37	51.09	42.89	49.45
19.	**$T_{10}V_1$**	36.96	42.51	44.73	41.40
20.	**$T_{10}V_2$**	38.81	45.09	47.60	43.84
			GM	49.08	
				Factor A	Factor B
			SEm±	1.29	1.39
			CD at 5%	2.46	2.92

Character: Dry weight of Stem (5 plant's stem)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	11.19	11.44	10.56	11.07
2.	**T_1V_2**	10.42	12.45	11.87	11.58
3.	**T_2V_1**	11.86	10.38	12.45	11.56
4.	**T_2V_2**	10.81	13.28	12.57	12.22
5.	**T_3V_1**	13.87	14.86	14.58	14.44
6.	**T_3V_2**	15.16	14.88	14.20	14.75
7.	**T_4V_1**	12.13	13.42	13.05	12.86
8.	**T_4V_2**	13.49	12.45	13.91	13.29
9.	**T_5V_1**	15.07	14.37	12.61	14.02
10.	**T_5V_2**	14.88	13.90	15.28	14.69
11.	**T_6V_1**	12.52	12.03	12.72	12.42
12.	**T_6V_2**	13.16	12.50	12.97	12.88
13.	**T_7V_1**	11.56	10.94	9.38	10.63
14.	**T_7V_2**	11.31	9.87	11.89	11.02
15.	**T_8V_1**	14.49	12.13	13.81	13.48
16.	**T_8V_2**	14.68	14.30	13.33	14.10
17.	**T_9V_1**	11.19	12.56	12.17	11.97
18.	**T_9V_2**	11.05	13.06	13.87	12.66
19.	**$T_{10}V_1$**	9.33	11.55	10.92	10.60
20.	**$T_{10}V_2$**	11.61	9.71	12.37	11.23
			GM	12.57	
				Factor A	Factor B
			SEm±	0.38	0.85
			CD at 5%	1.30	2.39

Character: Fresh weight of Root (5 plant's root)

Sr. No	Name of Entry	I	II	III	Mean
1.	T_1V_1	4.17	4.96	4.74	4.62
2.	T_1V_2	4.36	5.38	5.09	4.95
3.	T_2V_1	5.22	4.55	5.03	4.93
4.	T_2V_2	5.43	5.60	5.02	5.35
5.	T_3V_1	6.93	6.48	6.80	6.74
6.	T_3V_2	7.45	7.10	6.22	6.92
7.	T_4V_1	5.93	5.51	5.81	5.75
8.	T_4V_2	5.52	6.39	6.14	6.01
9.	T_5V_1	6.53	6.24	6.65	6.47
10.	T_5V_2	6.29	7.04	7.33	6.89
11.	T_6V_1	5.66	5.23	5.54	5.47
12.	T_6V_2	5.94	6.30	5.05	5.76
13.	T_7V_1	4.40	4.21	4.47	4.36
14.	T_7V_2	4.75	4.65	4.40	4.60
15.	T_8V_1	6.40	5.64	6.18	6.07
16.	T_8V_2	6.57	6.68	6.31	6.52
17.	T_9V_1	5.32	4.63	5.60	5.19
18.	T_9V_2	5.03	6.07	5.77	5.62
19.	$T_{10}V_1$	4.38	4.46	4.17	4.34
20.	$T_{10}V_2$	4.81	4.98	4.38	4.73
			GM	5.56	
				Factor A	Factor B
			SEm±	0.029	0.043
			CD at 5%	0.082	1.05

Character: Dry weight of Root (5 plant's root)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	1.48	1.40	1.51	1.46
2.	**T_1V_2**	1.47	1.63	1.58	1.56
3.	**T_2V_1**	1.65	1.58	1.41	1.55
4.	**T_2V_2**	1.78	1.58	1.72	1.69
5.	**T_3V_1**	2.17	2.25	1.96	2.13
6.	**T_3V_2**	2.31	2.03	2.23	2.19
7.	**T_4V_1**	1.73	1.82	1.85	1.80
8.	**T_4V_2**	1.83	1.92	1.95	1.90
9.	**T_5V_1**	2.09	2.19	1.85	2.04
10.	**T_5V_2**	2.25	2.05	2.20	2.17
11.	**T_6V_1**	1.76	1.83	1.59	1.73
12.	**T_6V_2**	1.86	1.75	1.83	1.82
13.	**T_7V_1**	1.42	1.51	1.21	1.38
14.	**T_7V_2**	1.48	1.46	1.41	1.45
15.	**T_8V_1**	1.95	1.77	2.02	1.91
16.	**T_8V_2**	1.88	2.10	2.19	2.06
17.	**T_9V_1**	1.57	1.68	1.65	1.63
18.	**T_9V_2**	1.79	1.82	1.72	1.78
19.	**$T_{10}V_1$**	1.48	1.22	1.40	1.37
20.	**$T_{10}V_2$**	1.57	1.37	1.52	1.49
			GM	1.76	
				Factor A	Factor B
			SEm±	0.020	0.025
			CD at 5%	0.056	0.072

Character: Crop growth rate (g m^{-2} day^{-1})

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	20.55	20.05	20.74	20.45
2.	**T_1V_2**	18.97	22.28	21.34	20.86
3.	**T_2V_1**	22.88	24.08	23.74	23.57
4.	**T_2V_2**	24.69	25.19	23.44	24.44
5.	**T_3V_1**	24.58	25.21	25.46	25.08
6.	**T_3V_2**	26.13	26.97	24.03	25.71
7.	**T_4V_1**	26.11	21.15	24.69	23.98
8.	**T_4V_2**	25.55	26.78	22.49	24.94
9.	**T_5V_1**	25.05	23.78	25.55	24.79
10.	**T_5V_2**	25.76	26.58	23.72	25.36
11.	**T_6V_1**	23.93	25.37	20.34	23.21
12.	**T_6V_2**	20.81	26.07	24.57	23.82
13.	**T_7V_1**	22.03	23.09	23.52	22.88
14.	**T_7V_2**	24.06	22.86	23.72	23.55
15.	**T_8V_1**	26.18	25.07	22.32	24.52
16.	**T_8V_2**	24.13	25.30	25.76	25.06
17.	**T_9V_1**	24.75	24.07	22.37	23.73
18.	**T_9V_2**	23.48	24.91	24.50	24.29
19.	**$T_{10}V_1$**	22.09	23.00	23.36	22.82
20.	**$T_{10}V_2$**	25.11	24.01	21.27	23.46
			GM	23.83	
				Factor A	Factor B
			SEm±	0.45	0.62
			CD at 5%	1.55	2.03

Character: Relative growth rate (g g^{-1} day^{-1})

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	8.56	9.10	9.32	8.99
2.	**T_1V_2**	8.16	10.06	9.52	9.25
3.	**T_2V_1**	11.01	10.61	11.16	10.93
4.	**T_2V_2**	11.72	12.23	10.46	11.47
5.	**T_3V_1**	12.23	12.95	10.42	11.87
6.	**T_3V_2**	12.60	12.37	11.80	12.26
7.	**T_4V_1**	12.23	9.79	11.53	11.18
8.	**T_4V_2**	12.56	10.73	12.04	11.78
9.	**T_5V_1**	11.30	11.78	11.97	11.69
10.	**T_5V_2**	13.11	10.60	12.39	12.04
11.	**T_6V_1**	11.65	9.45	11.02	10.71
12.	**T_6V_2**	10.37	11.62	11.26	11.08
13.	**T_7V_1**	9.19	10.83	11.48	10.50
14.	**T_7V_2**	11.14	10.61	10.99	10.91
15.	**T_8V_1**	12.28	11.77	10.50	11.52
16.	**T_8V_2**	11.19	12.02	12.36	11.86
17.	**T_9V_1**	10.65	11.12	11.32	11.03
18.	**T_9V_2**	11.51	10.86	11.77	11.38
19.	**$T_{10}V_1$**	10.95	10.62	9.82	10.46
20.	**$T_{10}V_2$**	11.15	11.71	9.73	10.86
			GM	11.09	
				Factor A	Factor B
			SEm±	0.30	0.92
			CD at 5%	1.28	2.50

After one week of spraying the PGRs at Post flowering stage

Character: Chlorophyll content (mg/g^1 f. wt)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	1.40	1.32	1.12	1.28
2.	**T_1V_2**	1.34	1.40	1.19	1.31
3.	**T_2V_1**	1.31	1.39	1.42	1.37
4.	**T_2V_2**	1.34	1.43	1.46	1.41
5.	**T_3V_1**	1.50	1.41	1.47	1.46
6.	**T_3V_2**	1.55	1.31	1.64	1.5
7.	**T_4V_1**	1.39	1.29	1.43	1.37
8.	**T_4V_2**	1.47	1.42	1.28	1.39
9.	**T_5V_1**	1.52	1.33	1.47	1.44
10.	**T_5V_2**	1.33	1.61	1.53	1.49
11.	**T_6V_1**	1.17	1.26	1.29	1.24
12.	**T_6V_2**	1.31	1.10	1.40	1.27
13.	**T_7V_1**	1.25	1.08	1.32	1.22
14.	**T_7V_2**	1.26	1.29	1.17	1.24
15.	**T_8V_1**	1.44	1.35	1.47	1.42
16.	**T_8V_2**	1.50	1.30	1.58	1.46
17.	**T_9V_1**	1.23	1.34	1.38	1.32
18.	**T_9V_2**	1.49	1.19	1.40	1.36
19.	**$T_{10}V_1$**	1.19	1.25	1.28	1.24
20.	**$T_{10}V_2$**	1.19	1.28	1.31	1.26
			GM	1.35	
				Factor A	Factor B
			SEm±	0.021	0.028
			CD at 5%	0.068	0.075

Character: Relative water content (RWC)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	76.52	83.76	81.69	80.66
2.	**T_1V_2**	81.60	75.84	83.91	80.45
3.	**T_2V_1**	85.80	88.75	78.42	84.32
4.	**T_2V_2**	86.56	91.75	73.58	83.96
5.	**T_3V_1**	78.21	86.81	90.25	85.09
6.	**T_3V_2**	86.94	76.71	91.03	84.89
7.	**T_4V_1**	83.51	80.96	84.53	83.00
8.	**T_4V_2**	79.06	85.64	83.76	82.82
9.	**T_5V_1**	70.89	85.52	81.34	79.25
10.	**T_5V_2**	69.87	85.97	81.37	79.07
11.	**T_6V_1**	82.70	86.62	85.50	84.94
12.	**T_6V_2**	80.80	85.81	87.82	84.81
13.	**T_7V_1**	83.60	73.15	80.61	79.12
14.	**T_7V_2**	80.41	76.77	79.37	78.85
15.	**T_8V_1**	72.98	86.94	92.53	84.15
16.	**T_8V_2**	86.46	84.78	80.58	83.94
17.	**T_9V_1**	78.45	85.26	83.31	82.34
18.	**T_9V_2**	75.30	83.59	86.90	81.93
19.	**$T_{10}V_1$**	86.66	81.56	68.81	79.01
20.	**$T_{10}V_2$**	77.00	79.15	80.01	78.72
			GM	82.07	
				Factor A	Factor B
			SEm±	0.40	0.57
			CD at 5%	1.25	1.65

Character: Membrane Stability Index (MSI)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	73.90	72.15	67.78	71.28
2.	**T_1V_2**	72.78	65.73	75.60	71.37
3.	**T_2V_1**	73.04	67.00	75.45	71.83
4.	**T_2V_2**	73.54	67.78	75.84	72.39
5.	**T_3V_1**	75.94	74.83	72.04	74.27
6.	**T_3V_2**	65.61	80.99	76.60	74.40
7.	**T_4V_1**	76.73	66.60	73.84	72.39
8.	**T_4V_2**	74.80	64.15	79.06	72.67
9.	**T_5V_1**	76.16	71.33	74.78	74.09
10.	**T_5V_2**	68.95	75.71	78.42	74.36
11.	**T_6V_1**	76.57	72.95	63.90	71.14
12.	**T_6V_2**	75.58	65.38	72.67	71.21
13.	**T_7V_1**	71.37	72.56	68.39	70.77
14.	**T_7V_2**	72.04	73.98	67.19	71.07
15.	**T_8V_1**	79.37	67.00	75.84	74.07
16.	**T_8V_2**	76.26	71.76	74.97	74.33
17.	**T_9V_1**	73.48	69.04	72.21	71.58
18.	**T_9V_2**	73.03	72.15	69.95	71.71
19.	**$T_{10}V_1$**	74.09	72.02	66.86	70.99
20.	**$T_{10}V_2$**	68.54	71.69	72.95	71.06
			GM	72.35	
				Factor A	Factor B
			SEm±	0.39	0.82
			CD at 5%	1.30	2.38

Character: Number of leaves per plant

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	37.57	44.67	47.51	43.25
2.	**T_1V_2**	46.44	48.47	41.38	45.43
3.	**T_2V_1**	43.39	46.03	47.08	45.50
4.	**T_2V_2**	48.20	42.21	50.59	47.00
5.	**T_3V_1**	46.42	47.30	44.22	45.98
6.	**T_3V_2**	46.73	49.26	48.54	48.18
7.	**T_4V_1**	42.21	46.01	47.53	45.25
8.	**T_4V_2**	48.97	51.95	41.52	47.48
9.	**T_5V_1**	44.01	45.87	46.62	45.50
10.	**T_5V_2**	52.37	41.93	49.39	47.90
11.	**T_6V_1**	45.23	40.35	47.18	44.25
12.	**T_6V_2**	40.38	50.86	47.87	46.37
13.	**T_7V_1**	44.72	38.45	47.23	43.47
14.	**T_7V_2**	45.94	46.65	44.18	45.59
15.	**T_8V_1**	47.16	43.26	46.05	45.49
16.	**T_8V_2**	49.26	52.40	41.40	47.69
17.	**T_9V_1**	45.93	43.08	45.12	44.71
18.	**T_9V_2**	45.47	48.55	47.67	47.23
19.	**$T_{10}V_1$**	44.45	46.39	39.61	43.48
20.	**$T_{10}V_2$**	41.97	49.23	47.16	46.12
			GM	45.79	
				Factor A	Factor B
			SEm±	0.40	0.84
			CD at 5%	1.30	2.35

Character: Fresh weight of leaves (5 leaves per plant)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	42.44	40.13	43.37	41.98
2.	**T_1V_2**	39.84	42.87	44.08	42.26
3.	**T_2V_1**	39.95	43.98	42.83	42.25
4.	**T_2V_2**	38.23	45.89	43.70	42.61
5.	**T_3V_1**	44.13	44.75	42.59	43.82
6.	**T_3V_2**	38.94	47.76	45.24	43.98
7.	**T_4V_1**	46.45	38.31	44.12	42.96
8.	**T_4V_2**	43.77	40.87	44.93	43.19
9.	**T_5V_1**	44.39	46.00	40.38	43.59
10.	**T_5V_2**	46.44	44.78	40.63	43.95
11.	**T_6V_1**	37.44	46.68	44.04	42.72
12.	**T_6V_2**	39.10	45.87	43.94	42.97
13.	**T_7V_1**	45.08	42.86	37.31	41.75
14.	**T_7V_2**	44.11	42.68	39.10	41.96
15.	**T_8V_1**	46.72	38.60	44.40	43.24
16.	**T_8V_2**	41.85	44.08	44.97	43.63
17.	**T_9V_1**	42.95	43.92	40.54	42.47
18.	**T_9V_2**	37.82	44.11	46.62	42.85
19.	**$T_{10}V_1$**	43.58	42.35	39.26	41.73
20.	**$T_{10}V_2$**	43.99	42.71	39.51	42.07
			GM	42.80	
				Factor A	Factor B
			SEm±	0.40	0.79
			CD at 5%	1.31	2.02

Character: Dry weight of leaves (5 leaves per plant)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	12.83	14.35	14.95	14.04
2.	**T_1V_2**	15.70	13.32	15.02	14.68
3.	**T_2V_1**	15.10	14.12	14.82	14.68
4.	**T_2V_2**	16.02	15.67	14.79	15.49
5.	**T_3V_1**	15.92	18.90	20.09	18.30
6.	**T_3V_2**	18.99	19.66	17.34	18.66
7.	**T_4V_1**	17.81	14.31	16.81	16.31
8.	**T_4V_2**	17.25	18.05	15.26	16.85
9.	**T_5V_1**	18.47	18.00	16.81	17.76
10.	**T_5V_2**	20.37	19.17	16.18	18.57
11.	**T_6V_1**	16.03	16.55	14.72	15.76
12.	**T_6V_2**	16.85	14.13	17.94	16.31
13.	**T_7V_1**	13.73	13.19	13.58	13.50
14.	**T_7V_2**	13.53	14.06	14.27	13.95
15.	**T_8V_1**	17.54	16.14	17.14	16.94
16.	**T_8V_2**	18.50	18.00	16.77	17.76
17.	**T_9V_1**	15.57	14.54	15.28	15.13
18.	**T_9V_2**	14.37	16.45	17.28	16.04
19.	**$T_{10}V_1$**	13.69	14.26	12.28	13.41
20.	**$T_{10}V_2$**	14.67	15.55	12.45	14.22
			GM	15.92	
				Factor A	Factor B
			SEm±	0.22	0.25
			CD at 5%	0.85	0.94

Character: Fresh weight of Stem (5 plant's stem)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	73.49	61.57	78.25	71.10
2.	**T_1V_2**	65.88	80.80	76.54	74.41
3.	**T_2V_1**	80.09	66.61	76.24	74.31
4.	**T_2V_2**	73.41	79.83	82.40	78.55
5.	**T_3V_1**	89.88	95.05	93.57	92.83
6.	**T_3V_2**	96.90	86.03	101.25	94.73
7.	**T_4V_1**	85.00	89.62	73.44	82.69
8.	**T_4V_2**	76.26	87.71	92.29	85.42
9.	**T_5V_1**	87.35	92.23	90.83	90.14
10.	**T_5V_2**	97.08	102.48	83.56	94.37
11.	**T_6V_1**	80.26	78.27	81.06	79.86
12.	**T_6V_2**	84.06	83.23	81.16	82.82
13.	**T_7V_1**	74.70	70.50	60.01	68.41
14.	**T_7V_2**	77.55	73.10	61.98	70.88
15.	**T_8V_1**	88.34	86.78	82.87	86.00
16.	**T_8V_2**	91.92	85.43	94.51	90.62
17.	**T_9V_1**	79.17	83.68	67.89	76.91
18.	**T_9V_2**	82.74	81.85	79.63	81.41
19.	**$T_{10}V_1$**	60.34	74.00	70.10	68.15
20.	**$T_{10}V_2$**	72.87	74.28	69.34	72.16
			GM	80.79	
				Factor A	Factor B
			SEm±	1.35	1.44
			CD at 5%	2.50	2.55

Character: Dry weight of Stem (5 plant's stem)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	18.76	21.74	22.94	21.15
2.	**T_1V_2**	22.23	21.70	22.44	22.12
3.	**T_2V_1**	20.33	22.54	23.42	22.10
4.	**T_2V_2**	24.88	21.31	23.86	23.35
5.	**T_3V_1**	24.46	29.94	28.38	27.59
6.	**T_3V_2**	29.08	30.89	24.57	28.18
7.	**T_4V_1**	25.18	22.19	26.37	24.58
8.	**T_4V_2**	22.92	27.24	26.01	25.39
9.	**T_5V_1**	27.46	28.81	24.08	26.78
10.	**T_5V_2**	30.12	25.34	28.75	28.07
11.	**T_6V_1**	24.57	22.64	24.02	23.74
12.	**T_6V_2**	23.76	24.82	25.25	24.61
13.	**T_7V_1**	18.11	21.96	20.86	20.31
14.	**T_7V_2**	21.39	22.03	19.78	21.06
15.	**T_8V_1**	26.30	25.03	25.93	25.75
16.	**T_8V_2**	28.16	27.36	25.33	26.95
17.	**T_9V_1**	23.35	22.25	23.03	22.88
18.	**T_9V_2**	25.28	22.74	24.55	24.19
19.	**$T_{10}V_1$**	20.90	22.18	17.70	20.26
20.	**$T_{10}V_2$**	22.87	19.56	21.93	21.46
			GM	24.03	
				Factor A	Factor B
			SEm±	0.40	0.78
			CD at 5%	1.30	2.32

Character: Fresh weight of Root (5 plant's root)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	11.50	11.01	9.81	10.77
2.	**T_1V_2**	10.05	12.63	11.89	11.52
3.	**T_2V_1**	11.84	12.52	10.14	11.50
4.	**T_2V_2**	12.16	12.69	12.54	12.46
5.	**T_3V_1**	16.82	14.22	16.08	15.70
6.	**T_3V_2**	16.34	15.30	16.76	16.13
7.	**T_4V_1**	13.88	13.56	12.75	13.40
8.	**T_4V_2**	12.27	15.33	14.45	14.02
9.	**T_5V_1**	15.58	13.13	16.56	15.09
10.	**T_5V_2**	17.07	16.39	14.70	16.05
11.	**T_6V_1**	12.99	13.47	11.81	12.76
12.	**T_6V_2**	13.78	12.01	14.49	13.43
13.	**T_7V_1**	9.82	10.41	10.24	10.16
14.	**T_7V_2**	11.03	10.31	10.82	10.72
15.	**T_8V_1**	15.00	13.02	14.43	14.15
16.	**T_8V_2**	16.48	13.48	15.62	15.20
17.	**T_9V_1**	12.92	12.36	10.98	12.09
18.	**T_9V_2**	11.88	13.41	14.03	13.11
19.	**$T_{10}V_1$**	10.90	10.37	9.05	10.10
20.	**$T_{10}V_2$**	10.41	11.47	11.17	11.01
			GM	12.97	
				Factor A	Factor B
			SEm±	0.21	0.35
			CD at 5%	0.79	1.02

Character: Dry weight of Root (5 plant's root)

Sr. No	Name of Entry	I	II	III	Mean
1.	T_1V_1	3.40	2.70	3.20	3.10
2.	T_1V_2	3.33	3.38	3.20	3.30
3.	T_2V_1	3.53	2.93	3.36	3.28
4.	T_2V_2	3.44	3.69	3.62	3.58
5.	T_3V_1	4.40	4.53	4.59	4.51
6.	T_3V_2	4.71	4.88	4.31	4.63
7.	T_4V_1	4.01	3.88	3.55	3.81
8.	T_4V_2	4.15	3.84	4.06	4.02
9.	T_5V_1	4.13	4.47	4.38	4.33
10.	T_5V_2	4.35	4.75	4.64	4.58
11.	T_6V_1	3.78	4.01	3.20	3.66
12.	T_6V_2	3.91	4.05	3.56	3.84
13.	T_7V_1	2.96	2.93	2.86	2.92
14.	T_7V_2	2.91	3.11	3.19	3.07
15.	T_8V_1	4.17	4.41	3.56	4.04
16.	T_8V_2	3.90	4.47	4.69	4.35
17.	T_9V_1	3.60	3.50	3.26	3.46
18.	T_9V_2	3.88	4.12	3.29	3.76
19.	$T_{10}V_1$	3.03	2.94	2.71	2.89
20.	$T_{10}V_2$	3.31	2.93	3.20	3.15
			GM	3.71	
				Factor A	Factor B
			SEm±	0.020	0.023
			CD at 5%	0.060	0.072

Character: Crop growth rate (g m^{-2} day^{-1})

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	36.04	38.13	30.82	34.99
2.	**T_1V_2**	37.41	33.43	36.27	35.71
3.	**T_2V_1**	39.49	40.55	40.97	40.33
4.	**T_2V_2**	36.73	43.10	45.65	41.83
5.	**T_3V_1**	37.47	44.30	47.03	42.93
6.	**T_3V_2**	39.04	45.24	47.72	44.00
7.	**T_4V_1**	36.68	42.14	44.32	41.05
8.	**T_4V_2**	40.71	44.17	43.18	42.68
9.	**T_5V_1**	46.11	37.54	43.66	42.44
10.	**T_5V_2**	44.35	46.27	39.57	43.40
11.	**T_6V_1**	40.90	43.25	35.03	39.73
12.	**T_6V_2**	43.54	41.69	37.06	40.76
13.	**T_7V_1**	42.50	40.27	34.71	39.16
14.	**T_7V_2**	38.47	41.67	40.76	40.30
15.	**T_8V_1**	43.95	42.63	39.34	41.97
16.	**T_8V_2**	44.39	40.91	43.40	42.90
17.	**T_9V_1**	41.42	43.03	37.41	40.62
18.	**T_9V_2**	42.25	43.59	38.90	41.58
19.	**$T_{10}V_1$**	34.93	40.08	42.14	39.05
20.	**$T_{10}V_2$**	41.51	44.21	34.75	40.16
			GM	40.78	
				Factor A	Factor B
			SEm±	0.45	0.59
			CD at 5%	1.49	2.00

Character: Relative growth rate (g g^{-1} day^{-1})

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	13.74	12.90	10.80	12.48
2.	**T_1V_2**	13.23	11.25	14.02	12.83
3.	**T_2V_1**	16.41	15.58	13.49	15.16
4.	**T_2V_2**	16.10	16.49	15.15	15.91
5.	**T_3V_1**	16.91	14.72	17.78	16.47
6.	**T_3V_2**	18.27	15.32	17.43	17.01
7.	**T_4V_1**	15.66	15.93	14.97	15.52
8.	**T_4V_2**	17.50	14.80	16.73	16.34
9.	**T_5V_1**	16.94	16.46	15.26	16.22
10.	**T_5V_2**	18.31	14.56	17.24	16.70
11.	**T_6V_1**	15.18	14.42	14.97	14.86
12.	**T_6V_2**	14.36	16.14	15.63	15.38
13.	**T_7V_1**	15.75	14.96	12.99	14.57
14.	**T_7V_2**	15.43	14.01	15.99	15.14
15.	**T_8V_1**	16.43	17.33	14.20	15.98
16.	**T_8V_2**	17.91	16.94	14.51	16.45
17.	**T_9V_1**	15.53	14.40	15.98	15.30
18.	**T_9V_2**	16.23	15.20	15.93	15.79
19.	**$T_{10}V_1$**	14.76	15.24	13.55	14.52
20.	**$T_{10}V_2$**	14.74	15.32	15.15	15.07
			GM	15.39	
				Factor A	Factor B
			SEm±	0.32	0.88
			CD at 5%	1.30	2.02

Character: Panicle initiation

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	39.72	38.57	35.69	37.99
2.	**T_1V_2**	34.65	36.24	36.88	35.92
3.	**T_2V_1**	34.00	35.52	36.13	35.22
4.	**T_2V_2**	34.17	32.52	33.70	33.46
5.	**T_3V_1**	36.09	31.02	34.64	33.92
6.	**T_3V_2**	30.08	32.79	33.88	32.25
7.	**T_4V_1**	36.89	30.18	34.97	34.01
8.	**T_4V_2**	33.78	35.62	29.19	32.86
9.	**T_5V_1**	37.16	33.21	36.03	35.47
10.	**T_5V_2**	32.88	33.85	30.45	32.39
11.	**T_6V_1**	33.55	37.54	36.40	35.83
12.	**T_6V_2**	34.28	35.26	31.82	33.79
13.	**T_7V_1**	38.40	37.28	34.48	36.72
14.	**T_7V_2**	36.25	35.20	32.56	34.67
15.	**T_8V_1**	37.22	29.90	35.13	34.08
16.	**T_8V_2**	29.13	33.30	34.97	32.47
17.	**T_9V_1**	36.26	34.07	35.63	35.32
18.	**T_9V_2**	28.61	34.08	36.27	32.99
19.	**$T_{10}V_1$**	32.45	39.99	37.84	36.76
20.	**$T_{10}V_2$**	31.72	34.58	35.73	34.01
			GM	34.51	
				Factor A	Factor B
			SEm±	1.27	1.46
			CD at 5%	2.19	2.50

Character: Days of 50% flowering

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	57.82	54.60	46.54	52.99
2.	**T_1V_2**	44.39	55.82	52.55	50.92
3.	**T_2V_1**	51.48	45.20	53.99	50.22
4.	**T_2V_2**	50.01	53.12	42.25	48.46
5.	**T_3V_1**	50.01	44.56	52.19	48.92
6.	**T_3V_2**	47.59	48.28	45.88	47.25
7.	**T_4V_1**	53.19	43.44	50.40	49.01
8.	**T_4V_2**	50.54	44.29	48.75	47.86
9.	**T_5V_1**	43.77	55.49	52.14	50.47
10.	**T_5V_2**	50.10	48.29	43.77	47.39
11.	**T_6V_1**	55.86	52.51	44.13	50.83
12.	**T_6V_2**	50.99	49.52	45.86	48.79
13.	**T_7V_1**	52.40	48.99	53.77	51.72
14.	**T_7V_2**	45.83	50.63	52.55	49.67
15.	**T_8V_1**	50.59	47.07	49.58	49.08
16.	**T_8V_2**	46.13	48.47	47.80	47.47
17.	**T_9V_1**	50.93	52.14	47.90	50.32
18.	**T_9V_2**	49.82	48.60	45.55	47.99
19.	**$T_{10}V_1$**	46.49	53.08	55.71	51.76
20.	**$T_{10}V_2$**	51.68	45.45	49.90	49.01
			GM	49.51	
				Factor A	Factor B
			SEm±	0.40	0.91
			CD at 5%	1.38	2.55

Character: Seed setting %

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	82.94	71.65	79.71	78.10
2.	**T_1V_2**	78.71	68.26	82.89	76.62
3.	**T_2V_1**	76.06	79.16	78.27	77.83
4.	**T_2V_2**	78.00	82.55	66.64	75.73
5.	**T_3V_1**	83.20	80.43	73.52	79.05
6.	**T_3V_2**	79.35	67.29	84.18	76.94
7.	**T_4V_1**	80.53	70.53	84.53	78.53
8.	**T_4V_2**	77.81	69.42	81.16	76.13
9.	**T_5V_1**	74.87	82.03	79.98	78.96
10.	**T_5V_2**	70.01	78.86	82.40	77.09
11.	**T_6V_1**	79.07	71.23	82.20	77.50
12.	**T_6V_2**	77.78	68.04	81.67	75.83
13.	**T_7V_1**	69.03	79.89	84.24	77.72
14.	**T_7V_2**	76.28	72.33	77.86	75.49
15.	**T_8V_1**	72.39	83.82	80.55	78.92
16.	**T_8V_2**	74.79	78.71	77.59	77.03
17.	**T_9V_1**	81.14	74.42	79.22	78.26
18.	**T_9V_2**	83.12	78.87	68.23	76.74
19.	**$T_{10}V_1$**	79.71	84.56	67.59	77.29
20.	**$T_{10}V_2$**	76.32	73.69	75.57	75.19
			GM	77.25	
				Factor A	Factor B
			SEm±	0.35	0.73
			CD at 5%	1.11	2.08

Character: No. of productive tillers

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	3.80	3.61	3.87	3.76
2.	**T_1V_2**	3.87	4.04	3.99	3.97
3.	**T_2V_1**	4.61	4.41	4.69	4.57
4.	**T_2V_2**	5.07	4.47	4.90	4.81
5.	**T_3V_1**	4.39	4.82	4.99	4.73
6.	**T_3V_2**	5.23	5.06	4.64	4.98
7.	**T_4V_1**	4.54	4.61	4.37	4.51
8.	**T_4V_2**	4.82	4.97	4.45	4.75
9.	**T_5V_1**	4.84	4.05	5.15	4.68
10.	**T_5V_2**	4.32	5.35	5.06	4.91
11.	**T_6V_1**	4.79	3.90	4.54	4.41
12.	**T_6V_2**	4.06	5.09	4.80	4.65
13.	**T_7V_1**	4.56	3.68	4.31	4.18
14.	**T_7V_2**	4.70	3.82	4.45	4.32
15.	**T_8V_1**	4.94	4.71	4.12	4.59
16.	**T_8V_2**	4.93	5.04	4.67	4.88
17.	**T_9V_1**	4.54	4.66	4.24	4.48
18.	**T_9V_2**	4.47	4.85	4.74	4.69
19.	**$T_{10}V_1$**	3.85	4.78	4.51	4.38
20.	**$T_{10}V_2$**	4.85	4.15	4.65	4.55
			GM	4.54	
				Factor A	Factor B
			SEm±	0.04	0.10
			CD at 5%	0.13	0.27

Character: Maturity (DAS)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	78.99	89.25	93.36	87.20
2.	**T_1V_2**	95.08	81.05	91.07	89.07
3.	**T_2V_1**	87.13	91.64	75.84	84.87
4.	**T_2V_2**	88.37	78.74	92.22	86.44
5.	**T_3V_1**	85.94	84.13	79.59	83.22
6.	**T_3V_2**	89.78	86.61	78.69	85.03
7.	**T_4V_1**	76.80	85.77	89.36	83.98
8.	**T_4V_2**	88.48	76.64	93.21	86.11
9.	**T_5V_1**	85.19	84.24	81.86	83.76
10.	**T_5V_2**	92.01	76.52	87.58	85.37
11.	**T_6V_1**	87.65	93.09	74.04	84.93
12.	**T_6V_2**	88.89	93.72	76.80	86.47
13.	**T_7V_1**	86.05	84.42	80.33	83.60
14.	**T_7V_2**	88.75	74.59	94.41	85.92
15.	**T_8V_1**	76.96	85.01	88.23	83.40
16.	**T_8V_2**	90.69	77.95	87.05	85.23
17.	**T_9V_1**	85.46	80.95	87.27	84.56
18.	**T_9V_2**	91.92	79.00	88.23	86.38
19.	**$T_{10}V_1$**	82.51	86.40	87.96	85.62
20.	**$T_{10}V_2$**	88.50	81.96	91.11	87.19
			GM	85.42	
				Factor A	Factor B
			SEm±	0.45	0.97
			CD at 5%	1.54	2.78

Character: Grain yield weight (kg)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	1945.41	1816.12	1908.47	1890.00
2.	**T_1V_2**	1804.20	1973.95	2041.85	1940.00
3.	**T_2V_1**	1816.70	2265.22	2137.07	2073.00
4.	**T_2V_2**	1939.85	2253.36	2163.79	2119.00
5.	**T_3V_1**	2370.45	2297.48	2115.06	2261.00
6.	**T_3V_2**	2108.40	2360.40	2461.20	2310.00
7.	**T_4V_1**	2128.55	2070.81	2151.64	2117.00
8.	**T_4V_2**	2146.20	2200.95	2222.85	2190.00
9.	**T_5V_1**	2242.00	2144.00	2214.00	2200.00
10.	**T_5V_2**	2307.78	2013.88	2425.34	2249.00
11.	**T_6V_1**	2070.00	1840.00	2162.00	2024.00
12.	**T_6V_2**	2110.30	1985.94	2074.77	2057.00
13.	**T_7V_1**	2009.32	1924.57	1985.11	1973.00
14.	**T_7V_2**	2063.18	2189.55	1747.27	2000.00
15.	**T_8V_1**	2286.75	2070.34	2224.92	2194.00
16.	**T_8V_2**	2421.55	2289.18	1958.26	2223.00
17.	**T_9V_1**	2110.50	2131.50	2058.00	2100.00
18.	**T_9V_2**	2306.65	2197.55	1924.80	2143.00
19.	**$T_{10}V_1$**	2038.76	2122.27	1829.98	1997.00
20.	**$T_{10}V_2$**	2050.39	1953.45	2089.16	2031.00
			GM	2104.55	
				Factor A	Factor B
			SEm±	10.29	18.04
			CD at 5%	35.60	51.57

Character: Ear head weight (kg)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	2485.10	2355.81	2448.16	2429.69
2.	**T_1V_2**	2347.39	2517.14	2585.04	2483.19
3.	**T_2V_1**	2357.43	2805.95	2677.80	2613.73
4.	**T_2V_2**	2487.68	2801.19	2711.62	2666.83
5.	**T_3V_1**	2913.32	2840.35	2657.93	2803.87
6.	**T_3V_2**	2662.37	2914.37	3015.17	2863.97
7.	**T_4V_1**	2669.71	2611.97	2692.80	2658.16
8.	**T_4V_2**	2695.56	2750.31	2772.21	2739.36
9.	**T_5V_1**	2784.01	2686.01	2756.01	2742.01
10.	**T_5V_2**	2859.87	2565.97	2977.43	2801.09
11.	**T_6V_1**	2610.51	2380.51	2702.51	2564.51
12.	**T_6V_2**	2656.48	2532.12	2620.95	2603.18
13.	**T_7V_1**	2549.41	2464.66	2525.20	2513.09
14.	**T_7V_2**	2607.47	2733.84	2291.56	2544.29
15.	**T_8V_1**	2828.31	2611.90	2766.48	2735.56
16.	**T_8V_2**	2971.98	2839.61	2508.69	2773.43
17.	**T_9V_1**	2651.51	2672.51	2599.01	2641.01
18.	**T_9V_2**	2855.35	2746.25	2473.50	2691.70
19.	**$T_{10}V_1$**	2579.03	2662.54	2370.25	2537.27
20.	**$T_{10}V_2$**	2595.74	2498.80	2634.51	2576.35
			GM	2649.11	
				Factor A	Factor B
			SEm±	9.43	35.53
			CD at 5%	32.64	101.56

Character: Fodder weight (kg)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	4105.93	3964.85	3612.15	3894.31
2.	**T_1V_2**	3957.24	4266.34	4178.03	4133.87
3.	**T_2V_1**	4035.16	4196.04	4260.39	4163.86
4.	**T_2V_2**	4004.27	4659.05	4471.97	4378.43
5.	**T_3V_1**	4709.78	4356.57	4851.06	4639.14
6.	**T_3V_2**	5033.80	4885.11	4513.37	4810.76
7.	**T_4V_1**	4797.16	5076.61	4098.55	4657.44
8.	**T_4V_2**	4956.66	4639.71	5083.44	4893.27
9.	**T_5V_1**	5047.62	4724.86	5176.73	4983.07
10.	**T_5V_2**	5280.07	4866.64	5445.44	5197.38
11.	**T_6V_1**	4668.31	4824.79	4277.11	4590.07
12.	**T_6V_2**	4188.50	4841.61	5102.86	4710.99
13.	**T_7V_1**	4640.46	3910.66	4431.95	4327.69
14.	**T_7V_2**	4305.62	4809.90	4665.82	4593.78
15.	**T_8V_1**	5208.08	5325.11	4915.49	5149.56
16.	**T_8V_2**	5192.12	5403.43	5343.06	5312.87
17.	**T_9V_1**	4238.66	5062.35	5391.82	4897.61
18.	**T_9V_2**	4401.70	5580.57	5243.75	5075.34
19.	**$T_{10}V_1$**	4412.68	4699.87	3694.69	4269.08
20.	**$T_{10}V_2$**	4911.81	4615.36	3874.22	4467.13
			GM	4657.28	
				Factor A	Factor B
			SEm±	23.09	83.72
			CD at 5%	79.91	239.29

Character: Total dry matter (kg)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	5520.29	5979.35	5848.19	5782.61
2.	**T_1V_2**	6241.14	5470.07	6020.83	5910.68
3.	**T_2V_1**	6100.44	5713.34	5989.84	5934.54
4.	**T_2V_2**	5892.23	6102.67	6042.54	6012.48
5.	**T_3V_1**	5593.26	6951.05	6563.11	6369.14
6.	**T_3V_2**	5712.82	6720.27	7123.25	6518.78
7.	**T_4V_1**	5756.67	6588.64	6921.43	6422.25
8.	**T_4V_2**	7273.64	6848.35	5785.13	6635.71
9.	**T_5V_1**	7103.54	7529.50	6038.64	6890.56
10.	**T_5V_2**	6838.06	7231.33	7118.97	7062.79
11.	**T_6V_1**	6087.12	6264.07	6334.85	6228.68
12.	**T_6V_2**	5949.20	6660.26	6944.69	6518.05
13.	**T_7V_1**	6339.34	6526.71	5870.92	6245.66
14.	**T_7V_2**	6652.33	7073.96	5598.27	6441.52
15.	**T_8V_1**	7206.82	6234.65	7595.69	7012.39
16.	**T_8V_2**	7624.84	6737.39	7371.28	7244.50
17.	**T_9V_1**	6720.13	6992.46	6039.29	6583.96
18.	**T_9V_2**	6850.71	7211.51	5948.70	6670.31
19.	**$T_{10}V_1$**	5408.32	6275.03	6621.72	6101.69
20.	**$T_{10}V_2$**	6376.06	5338.62	6791.03	6168.57
			GM	6437.74	
				Factor A	Factor B
			SEm±	17.20	82.95
			CD at 5%	59.51	237.09

Character: Threshing index

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	78.28	77.09	77.96	77.79
2.	**T_1V_2**	76.86	78.42	78.99	78.13
3.	**T_2V_1**	77.06	80.73	79.81	79.31
4.	**T_2V_2**	77.98	80.44	79.80	79.46
5.	**T_3V_1**	81.37	80.89	79.58	80.64
6.	**T_3V_2**	79.19	80.99	81.63	80.66
7.	**T_4V_1**	79.73	79.28	79.90	79.64
8.	**T_4V_2**	79.62	80.03	80.18	79.95
9.	**T_5V_1**	80.53	79.82	80.33	80.23
10.	**T_5V_2**	80.70	78.48	81.46	80.29
11.	**T_6V_1**	79.29	77.29	80.00	78.92
12.	**T_6V_2**	79.44	78.43	79.16	79.02
13.	**T_7V_1**	78.82	78.09	78.61	78.51
14.	**T_7V_2**	79.13	80.09	76.25	78.61
15.	**T_8V_1**	80.85	79.27	80.42	80.20
16.	**T_8V_2**	81.48	80.62	78.06	80.15
17.	**T_9V_1**	79.60	79.76	79.18	79.52
18.	**T_9V_2**	80.78	80.02	77.82	79.62
19.	**$T_{10}V_1$**	79.05	79.71	77.21	78.71
20.	**$T_{10}V_2$**	78.99	78.18	79.30	78.83
			GM	79.41	
				Factor A	Factor B
			SEm±	0.57	1.09
			CD at 5%	1.95	3.01

Character: Harvest index

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	32.15	31.42	34.57	32.67
2.	**T_1V_2**	31.32	31.63	32.83	31.94
3.	**T_2V_1**	31.04	35.06	33.40	33.24
4.	**T_2V_2**	32.63	32.60	32.61	32.61
5.	**T_3V_1**	33.48	34.53	30.36	32.77
6.	**T_3V_2**	29.52	32.58	35.29	32.44
7.	**T_4V_1**	30.73	28.97	34.43	31.25
8.	**T_4V_2**	30.22	32.17	30.42	30.92
9.	**T_5V_1**	30.76	31.21	29.96	30.63
10.	**T_5V_2**	30.41	29.27	30.81	30.20
11.	**T_6V_1**	30.72	27.61	33.58	30.60
12.	**T_6V_2**	33.50	29.09	28.91	30.39
13.	**T_7V_1**	30.22	32.98	30.93	31.31
14.	**T_7V_2**	32.40	31.28	27.25	30.33
15.	**T_8V_1**	30.51	27.99	31.16	29.88
16.	**T_8V_2**	31.81	29.76	26.82	29.50
17.	**T_9V_1**	33.24	29.63	27.62	30.01
18.	**T_9V_2**	34.38	28.25	26.85	29.69
19.	**$T_{10}V_1$**	31.60	31.11	33.12	31.87
20.	**$T_{10}V_2$**	29.45	29.74	35.03	31.26
			GM	31.18	
				Factor A	Factor B
			SEm±	0.19	0.41
			CD at 5%	0.59	1.22

Character: Test weight (g)

Sr. No	Name of Entry	I	II	III	Mean
1.	**T_1V_1**	7.23	7.93	8.21	7.79
2.	**T_1V_2**	6.93	7.98	7.68	7.53
3.	**T_2V_1**	8.36	8.15	7.63	8.05
4.	**T_2V_2**	7.34	8.12	8.43	7.96
5.	**T_3V_1**	7.62	8.83	8.48	8.31
6.	**T_3V_2**	9.02	7.09	8.47	8.19
7.	**T_4V_1**	7.56	8.59	8.30	8.15
8.	**T_4V_2**	8.25	8.68	7.16	8.03
9.	**T_5V_1**	7.60	8.45	8.79	8.28
10.	**T_5V_2**	8.32	8.65	7.48	8.15
11.	**T_6V_1**	7.82	8.20	8.35	8.12
12.	**T_6V_2**	8.44	8.15	7.42	8.00
13.	**T_7V_1**	7.26	8.20	8.57	8.01
14.	**T_7V_2**	6.99	8.46	8.04	7.83
15.	**T_8V_1**	8.26	7.82	8.43	8.17
16.	**T_8V_2**	8.15	8.37	7.60	8.04
17.	**T_9V_1**	7.22	8.71	8.28	8.07
18.	**T_9V_2**	8.69	7.01	8.21	7.97
19.	**$T_{10}V_1$**	8.16	8.65	6.92	7.91
20.	**$T_{10}V_2$**	7.84	8.25	6.82	7.64
			GM	8.01	
				Factor A	Factor B
			SEm±	0.03	0.10
			CD at 5%	0.10	0.28
			C.V.%	1.48	4.32

CHAPTER IV
PLANT PATHOLOGY

PLANT PATHOLOGY

In the Kharif/summer season of 2025, a total of eleven trials were carried out, focusing on different facets of pathology. The trials took place in Mandor, Jaipur, and Hisar within Zone A1, as well as in Mandor, Jaipur, Hisar, Gwalior, and Jamnagar in Zone A, and in Mysore, Aurangabad, Dhule, Coimbatore, and Patancheru in Zone B. A comprehensive screening was conducted on 311 entries for their resistance to downy mildew, smut, rust, blast, and ergot diseases. Furthermore, all the centres conducted farmer field surveys across various states to assess the overall disease situation throughout the crop season. The research was conducted by focusing on examining the diversity of downy mildew and blast pathogens, along with the epidemiological aspects related to the progression of blast disease. The outcome of the trial will be discussed in the following paragraphs.

Pearl Millet Plant Pathology Trial (PMPT–I): Downy mildew pressure at 30 DAS was higher in Zone B than in Zones A1 and A, according to test entries. The mean disease incidence at 30 days after sowing across locations and entries in A1 and A Zones was 3.0%, 2.3%, and 4.8% in Zone B, respectively. The range of downy mildew in both A1 and A Zones was 0.0–20.9 % and 0.0–13.1%, and in Zone B it was 0.1–26.0%. At 60 DAS, the downy mildew incidence was also higher in Zone B compared to Zone A1 and Zone A. At 60 DAS, the mean downy mildew incidence in Zone A1 was 5.3%, and in Zone A it was 3.6%, whereas in Zone B it was 5.9%. The range of downy mildew in Zones A1 and A was 0.0–22.3% and 0.0–14.2%, and in Zone B it was 0.5–29.8%. Across zones, the mean downy mildew at 30 DAS was 3.4 %, and at 60 DAS, it was 4.7%. The mean disease pressure at 60 DAS in the indicator rows IR I (7042S) and IR II (local susceptible) was 90.3% and 84%, respectively. The incidence of blast disease at 60 days after sowing (DAS) was higher in Zone B than in Zones A1 and A, according to the test entries. In Zones A1 and A, the mean disease incidence at 60 DAS across locations and entries was 2.0% and 1.9%, while Zone B recorded 2.4%. Overall, across all zones, the mean blast disease occurrence at 60 DAS was 2.2% (Table IV1-3E).

Pearl Millet Plant Pathology Trial (PMPT–II): Downy mildew pressure at 30 DAS was higher in Zone B than in Zones A1 and A, according to test entries. In Zones A1 and A, the mean disease at 30 DAS across locations and entries was 2.2%, 1.6%, and 3.5% in Zone B. The range of downy mildew in A1 and A Zones was 0.0–12.1% and 0.0–7.3%, and in Zone B it was 0.0– 14.6%. At 60 DAS, the downy mildew incidence was higher in Zone B compared to Zones A1 and A. At 60 DAS, the mean downy mildew incidence in Zone A1 was 2.2%, and in A it was 5.5%, whereas in Zone B it was 3.7%. The range of downy mildew in Zones A1 and A was 0.0– 12.1%, 0.0–7.3%, and 0.3–14.6% in Zone B. At 30 DAS, the mean downy mildew was 2.6% across zones, and at 60 DAS, it was 9.6%. The mean disease pressure at 60 DAS in the indicator rows IR I (7042S) and IR II (local susceptible) was 91.0% and 87.1%, respectively. The incidence of blast disease at 60 days after sowing (DAS) was higher in Zone B than in Zones A1 and A, according to the test entries. In Zones A1 and A, the mean disease incidence at 60 DAS across locations and entries was 2.0% and 2.0%, while Zone B recorded 2.1%. Overall, across all zones, the mean blast disease occurrence at 60 DAS was 1.9% (Table IV4-6E).

Pearl Millet Plant Pathology Trial (PMPT–III): Downy mildew pressure at 30 DAS was higher in Zone B than in Zones A1 and A, according to test entries. In Zones A1 and A, the mean disease at 30 DAS across locations and entries was 3.2%, 3.1%, and 6.1% in Zone B. The range of downy mildew in A1 and A Zones was 0.0–8.2% and 0.0–9.0%, and in Zone B it was 0.3– 16.1%. At 60 DAS, the downy mildew incidence was higher in Zone B compared to Zones A1 and A. At 60 DAS, the mean downy mildew incidence in Zone A1 was 3.6%, and in A it was 3.6%, whereas in Zone B it was 7.5%. The range of downy mildew in Zones A1 and A was 0.0– 8.2%, 0.0–9.0%, and 0.3–16.1% in Zone B. At 30 DAS, the mean downy mildew was 1.0% across zones, and at 60 DAS, it was 4.8%. The mean disease pressure at 60 DAS in the indicator rows IR I (7042S) and IR II (local susceptible) was 92.5% and 89.1%, respectively. The incidence of blast disease at 60 days after sowing (DAS) was higher in Zone B than in Zones A1 and A, according to the test entries. In Zones A1 and A, the mean disease incidence at 60 DAS across locations and entries was 1.8% and 1.9%, while Zone B recorded 2.2%. Overall, across all zones, the mean blast disease occurrence at 60 DAS was 2.0% (Table IV7-9E).

Table IV: An Overview of different diseases in coordinated trials

Downy mildew (%)	**Zone A_1**		**Zone A**		**Zone B**	
30 DAS	**Range**	**Mean**	**Range**	**Mean**	**Range**	**Mean**
PMPT I (IHT/IPT entries)	0.0-20.9	3.0	0.0.13.1	2.3	0.0-26.0	4.8
PMPT II (AHT/APT entries)	0.0-12.1	2.2	0.0-6.1	0.6	0.0-14.6	3.5
PMPT III (RHVT entries)	0.0-11.5	1.7	0.0-9.0	1.4	0.3-16.1	4.1
Downy mildew (%) 60 DAS						
PMPT I (IHT/IPT entries)	0.0-22.3	5.3	0.0-14.2	3.6	0.3-29.8	5.9
PMPT II (AHT/APT entries)	0.0-14.0	2.4	0.0-16.1	5.5	0.0-18.5	3.7
PMPT III (RHVT entries)	0.0-9.2	2.3	0.0-8.9	2.3	0.3-21.1	5.9
Blast (Score) 30 DAS						
PMPT I (IHT/IPT entries)	0.4-1.4	2.0	0.3-1.3	1.9	0.0-2.0	2.4
PMPT II (AHT/APT entries)	0.6-1.2	0.8	0.3-1.1	0.6	0.0-1.6	0.5
PMPT III (RHVT entries)	0.6-1.8	1.0	0.4-1.3	0.7	0.0-1.8	0.8
Blast (Score) 45 DAS						
PMPT I (IHT/IPT entries)	0.7-2.3	1.4	0.5-1.9	1.1	0.0-3.4	1.4
PMPT II (AHT/APT entries)	0.7-2.2	1.1	0.5-2.1	1.0	0.1-2.5	1.0
PMPT III (RHVT entries)	0.7-1.9	1.1	0.6-1.9	1.0	0.0-3.0	1.4
Blast (Score) 60 DAS						
PMPT I (IHT/IPT entries)	0.9-3.6	2.1	1.1- 4.0	2.3	0.0-4.9	2.0
PMPT II (AHT/APT entries)	0.9-3.3	2.1	0.8-3.9	2.2	1.0-4.9	2.4
PMPT III (RHVT entries)	0.9-3.4	1.8	0.9-3.7	2.0	0.3-3.9	2.1
Rust (% leaf area) 60 DAS						
PMPT I (IHT/IPT entries)	0.0-9.3	0.4	0.0-6.2	0.3	0.0-25.3	8.2
PMPT II (AHT/APT entries)	0.0-1.3	0.1	0.0-0.8	0.0	7.1-25.8	15.9
PMPT III (RHVT entries)	0.0-1.3	0.1	0.0-3.6	0.1	2.3-18.1	8.5
Smut (severity %)						
PMPT I (IHT/IPT entries)	0.0-18.3	2.4	0.0-23.5	6.1	0.0-3.8	0.2
PMPT II (AHT/APT entries)	0.0-8.3	0.6	0.0-18.3	4.2	0.0-2.5	0.3
PMPT III (RHVT entries)	0.0-7.5	2.1	0.0-4.9	1.6	0.0-5.0	2.2
Ergot (severity %)						
PMPT I (IHT/IPT entries)	0.0-12.5	1.3	0.0-12.5	0.3	0.0-1.3	0.4
PMPT II (AHT/APT entries)	0.0-2.5	0.3	0.0-2.5	0.3	0.0-2.0	0.5
PMPT III (RHVT entries)	0.0-1.6	0.4	0.0-2.0	0.5	0.0-1.3	0.4

Farmers Field Survey: Field monitoring of pearl millet diseases across major states during Kharif 2025 revealed distinct regional disease dynamics with clear variation in incidence and severity across agro-climatic zones. Downy mildew incidence ranged from 0 to 90% across all locations, but remained negligible in most states such as Rajasthan, Madhya Pradesh, Karnataka, and Tamil Nadu, with only localized outbreaks observed in parts of Maharashtra (e.g., Dhule hotspot). Blast emerged as the most widespread and economically important disease, with incidence ranging from 0 to 70%, showing moderate levels in Rajasthan (0–15%), low to moderate levels in Madhya Pradesh (1–10%), Karnataka (3–13%), and Tamil Nadu (2–5 score), but reaching severe levels in Maharashtra (up to 70%) and Aurangabad regions (14–35%), indicating strong disease pressure in these hotspot areas. Rust incidence ranged from 0 to 50%, being negligible in Rajasthan and Madhya Pradesh, low in Gujarat (0–6%), moderate in Tamil Nadu (0–12%), and highly prominent in Karnataka (7–21%) and Maharashtra (up to 50%), identifying these regions as major rust-prone zones. Ergot incidence across all states remained low and sporadic, ranging from 0 to 15%, with occasional higher pockets in Rajasthan and Maharashtra, while it was negligible in Karnataka, Gujarat, and Tamil Nadu. Smut incidence was generally negligible to low (0 to 30%), with only localized spikes observed in Rajasthan and minimal occurrence in other states, confirming its limited economic importance during the season. Overall, the survey indicates that blast is the primary disease constraint across India, followed by rust in specific regions such as Karnataka and Maharashtra, while downy mildew, ergot, and smut remain minor or sporadic under prevailing environmental conditions. These findings emphasize the importance of hotspot-based screening (especially Maharashtra and Karnataka), targeted disease management strategies, and deployment of resistant cultivars for effective disease control in pearl millet (Table IV16A-D).

PLANT PROTECTION - 2025

Downy Mildew, blast and other diseases

All the centres were assigned to conduct the trial in a sick plot using infector rows raised from a mixture of 7042S (universal susceptible check) and local susceptible lines before 21 days of sowing test entries. It was suggested to maintain 40 plants in a single row of 5 m in length with two replications and to ensure a minimum of 70% disease incidence on the susceptible check line (indicator line). The downy mildew incidence at different centres was recorded using the following scale: 0-5% (resistant), 5–10% (moderately resistant), 10–25% (susceptible), and >25% (highly susceptible). The incidences of rust, smut, and ergot were recorded on a scale as follows: 0–20% (resistant) and >20% (susceptible). The scale for blast incidence was as follows: score: (0) Highly resistant, (0.1–3) Resistant, (>3-5) Moderately resistant, (>5-7) Susceptible, and (>7-9) Highly susceptible.

Downy Mildew	**Blast**	**Rust**	**Smut**	**Ergot**
0-5% (Resistant)	Score **(0)** Highly resistant	**0-20%** (Resistant)	**0-20%** (Resistant)	**0-20%** (Resistant)
5-10% (Moderately resistant)	**0.1-3**: Resistant			
10-25% (Susceptible)	**>3-5**: Moderately Resistant	**>20%** (Susceptible)	**>20%** (Susceptible)	**>20%** (Susceptible)
>25% (Highly susceptible)	**>5-7**: Susceptible			
	>7-9: Highly susceptible			

PMPT I: Disease Screening Trial of Initial Pearl Millet Hybrids and Varieties

One hundred and six entries were screened in this trial at nine different centres. The overview of the results of the trial at different centres is tabulated in Table (IV 1-3E). All the entries included in the trial were scored for downy mildew disease incidence at 30 DAS (tillering stage) and 60 DAS (soft-dough stage), and a comparison was made. The details of the downy mildew reaction on different initial pearl millet hybrids and varieties both at the tillering (30 DAS) and soft dough (60 DAS) stages were given on a zonal basis.

ZONE A1: At 30 days after sowing (DAS), the mean incidence of downy mildew among the tested entries ranged from 0.0% to 60.0%. A total of 93 genotypes (approximately 88%) showed a disease incidence of less than 5%, indicating a high level of resistance among the tested genotypes. However, a few entries, including MH 2920 (60.0%), Pratap (18.0%), and MH 2909 (19.4%), demonstrated higher susceptibility under these conditions (Table IV.1).

At 60 days after sowing (DAS), the mean incidence of downy mildew among the tested entries ranged from 0.0 to 60.5%. A total of 92 genotypes (approximately 87%) showed a disease incidence of less than 5%, indicating a high level of resistance among the tested genotypes. However, a few entries, including MH 2920 (60.5%), Pratap (20.0%), and MPMH 35 (18.8%), demonstrated higher susceptibility under these conditions (Table IV.2).

ZONE A: At 30 days after sowing (DAS), the mean incidence of downy mildew among the tested entries ranged from 0.0 to 60.0%. A total of 89 genotypes (approximately 84%) showed a disease incidence of less than 5%, indicating a high level of resistance among the tested genotypes. However, a few entries, including MH 2920 (60.0%), Pratap (18.0%), MPMH 35 (16.3%), and MH 2941 (18.4%), demonstrated higher susceptibility under these conditions (Table IV.1).

At 60 days after sowing (DAS), the mean incidence of downy mildew among the tested entries ranged from 0.1to 60.5%. A total of 89 genotypes (approximately 84%) showed a disease incidence of less than 5%, indicating a high level of resistance among the tested genotypes. However, a few entries, including MH 2920 (60.5%), MH 2940 (26.0%), MP 654 (23.0%), and Pratap (20.0%), demonstrated higher susceptibility under these conditions (Table IV.2).

Zone B: At 30 days after sowing (DAS)**,** the mean incidence of downy mildew across the tested genotypes ranged from **0**.0 to 54.3%**.** A large proportion of entries exhibited strong resistance, with 89 genotypes (~84%) recording less than 5% disease incidence**,** indicating a predominance of resistant lines under early-stage disease pressure. However, a few genotypes showed comparatively higher susceptibility. Notably, MH 2920 (54.3%) recorded the highest incidence, followed by MH 2936 (34.7%)**,** and MH 2921 (11.7%)**,** indicating variable pathogen response among specific entries (Table IV.1).

At 60 days after sowing (DAS), downy mildew incidence ranged from 0.0 to 75.7% among the tested genotypes. A total of approximately 80 genotypes (~75%) exhibited less than 5% disease incidence, indicating a substantial level of resistance. However, a few entries, including MH 2891 (75.7%), MH 2921 (54.4%), MH 2920 (54.3%), MH 2936 (34.7%), and MH 2949 (28.4%), showed high susceptibility, particularly under hotspot conditions at Dhule (Table IV.2)

All India: Across multi-location evaluation under the PMPT1 trial during 2025–26, a total of 106 pearl millet genotypes (excluding the susceptible check 7042S) were assessed for downy mildew resistance at 30 and 60 DAS. At 30 DAS, disease incidence ranged from 0.1 to 18.8%, with 92 genotypes (~86.8%) recording less than 5% incidence, indicating a high level of early-stage resistance. At 60 DAS, the incidence ranged from 0.7 to 21.1%, with 88 genotypes (~83.0%) maintaining <5% incidence, demonstrating stable resistance across growth stages in the majority of entries. However, a slight increase in disease pressure at later stages was observed, reflecting partial breakdown or delayed expression of resistance in a few genotypes. Notably, MH 2920 consistently exhibited the highest susceptibility at both stages (18.8% at 30 DAS and 21.1% at 60 DAS), followed by MH 2891 (14.4%), MH 2936 (11.5%), Pratap (8.8%), and MH 2909 (8.6%), which showed moderate to high susceptibility particularly at 60 DAS. Overall, the results highlight the presence of a large pool of genotypes with stable and broad-spectrum resistance to downy mildew, while also identifying a few susceptible entries that can serve as effective checks or be utilized in understanding resistance breakdown mechanisms and host–pathogen interactions (Table IV.2).

PMPT I - Other Diseases: An overview of the disease entries for Blast, Rust, Smut, and Ergot is presented in Table IV.F.

Blast: At 30 DAS, the mean blast incidence in Zones A1, A, and B was 0.8, 0.7, and 0.7, scores, respectively. All evaluated genotypes exhibited resistant reactions (0.1–3 scale) across A1, A, and B zones, indicating uniform and stable resistance under multi-location testing conditions. No genotypes showed moderate or susceptible reactions, reflecting low disease severity and strong resistance expression in the tested material (Table IV.3).

Zone A1: In Zone A1**,** all evaluated genotypes (105 entries) exhibited resistant reaction (0.1–3 scale) with a narrow incidence range of 0.4 to 1.4**,** indicating low disease intensity and uniform resistance response**.** No entries were observed in highly resistant (0) or susceptible categories, suggesting absence of extreme reactions under A1 zone conditions**.**

Zone A: In Zone A**,** all evaluated genotypes (105 entries) exhibited **resistant reaction (0.1–3 scale)** with an incidence range of **0.3 to 1.3**, indicating low disease severity and consistent resistance across entries**.** No genotypes were categorized as highly resistant (0) or susceptible, suggesting stable performance without extreme variation under Zone A conditions.

Zone B: In Zone B**,** the disease incidence ranged from 0.0 to 2.0**,** with the majority of genotypes (≈90 entries) falling under the resistant category (0.1–3)**.** Notably, ~15 genotypes exhibited highly resistant reactions (score = 0), indicating complete absence of disease symptoms under Zone B conditions. No entries were observed in moderately resistant or susceptible categories, highlighting overall strong resistance and presence of elite immune lines in this zone.

Blast: At 45 DAS, Across the three test zones (A1, A and B), all 106 genotypes predominantly exhibited resistant reactions (0.1–3 scale)**,** indicating overall low disease severity and stable resistance under multi-location evaluation (Table IV.3A).

Zone A1: In Zone A1, all evaluated genotypes exhibited resistant reaction (0.1–3 scale) with a narrow incidence range of 0.7 to 2.3**,** indicating low disease intensity and uniform resistance response. No entries were observed in highly resistant (0) or susceptible categories, suggesting absence of extreme reactions under A1 zone conditions.

Zone A: In Zone A, all evaluated genotypes exhibited resistant reaction (0.1–3 scale) with an incidence range of 0.5 to 1.9**,** indicating low disease severity and consistent resistance across entries. No genotypes were categorized as highly resistant (0) or susceptible, suggesting stable performance without extreme variation under Zone A conditions.

Zone B: In Zone B, the disease incidence ranged from 0.0 to 3.3, with the majority of genotypes **(**101 entries**)** falling under the resistant category (0.1–3). Notably, 1 genotype exhibited highly resistant reaction (score = 0), indicating complete absence of disease symptoms under Zone B conditions. A few entries **(**3 genotypes**)** were observed in the moderately resistant category (>3–5), while no entries were categorized as susceptible, highlighting overall strong resistance and presence of elite and near-immune lines in this zone.

Blast: At 60 DAS, the mean blast incidence in Zones A1, A, and B was 2.0, 1.9, and 2.4, respectively (Table IV.3B).

Zone A1: In Zone A1, the evaluated genotypes exhibited reactions ranging from 1.1 to 3.4**,** with the majority of entries falling under the resistant category (0.1–3 scale)**.** A few genotypes showed values slightly exceeding 3, indicating moderately resistant reactions **(>3–5)** under this zone. No entries were observed in highly resistant (0) or susceptible categories, suggesting moderate disease pressure with limited variability under A1 zone conditions.

Zone A: In Zone A, the disease incidence ranged from 0.9 to 3.6, with most genotypes exhibiting resistant reactions (0.1–3 scale). A small number of entries were categorized as moderately resistant (>3–5), indicating slightly higher disease expression compared to A1. No genotypes were observed in highly resistant (0) or susceptible categories, suggesting generally stable resistance with mild environmental influence on disease expression.

Zone B: In Zone B, the disease incidence ranged from 0.6 to 5.0, showing the widest variability among the three zones. The majority of genotypes (~90 entries) fell under the resistant category (0.1–3). A considerable number of entries (~12–15 genotypes) were categorized as moderately resistant (>3–5), and one genotype (MH 2896) exhibited a susceptible reaction (>5–7). No highly resistant (0) entries were observed in this zone. The results indicate higher disease pressure and strong differentiation among

genotypes, confirming Zone B as a potential hotspot for effective resistance screening and identification of superior genotypes.

All India: At the all-India level**,** the disease incidence across 106 genotypes ranged from 0.9 to 3.7**,** indicating predominantly resistant reactions (0.1–3 scale) under multi-location testing conditions. The majority of genotypes fell within the resistant category**,** reflecting overall low to moderate disease pressure and stable resistance expression across environments**.** A few genotypes exhibited values slightly exceeding 3, thereby falling into the moderately resistant category (>3–5)**,** indicating some level of environmental influence on disease expression. No genotypes were observed in the highly resistant (0) or susceptible **(>5)** categories at the national level. Elite Genotypes (All-India Performance – Lowest Scores) are MH 2935 (0.9), MH 2952 (1.0), MH 2951, MH 2953, MH 2955 (~1.1) and RHB 223 (1.1), these genotypes exhibited consistently low disease incidence across zones**,** indicating stable resistance and suitability as potential donor lines for blast resistance breeding programmes in pearl millet (Table IV.3B).

Rust: At 60 DAS**,** the mean rust incidence in Zones A1, A, and B was ~0.3%, ~0.1%, and ~7.3%**,** respectively. All the entries tested were resistant to rust incidence in Zone A1, ranging from 0.0 to 3.5%**;** in Zone A**,** the incidence ranged from 0.0 to 1.8%; and in Zone B**,** all 106 entries showed resistant reaction **(<20%)**, with no entry exceeding the susceptible threshold, and the incidence ranged from 0.0 to 19.3%**.** However, a few genotypes were close to the threshold (high-risk genotypes)**,** including MH 2887 (19.3%)**,** MH 2893 (17.3%)**,** MH 2921 (15.1%)**,** MH 2890 (14.0%)**,** MH 2889 (13.9%)**,** and MH 2892 **(13.6%)**, indicating potential vulnerability under increased disease pressure. Overall in India, all the entries were found to be resistant**,** with the incidence ranging from 0.0 to 9.6% (Table IV.3C).

Smut: At 60 DAS**,** rust incidence across Zones A1, A, and B and at the all-India level indicated overall low to moderate disease expression among the evaluated genotypes. The incidence ranged from 0.0 to 20.0% in Zone A1**,** 0.0 to 14.3% in Zone A**,** and 0.0 to 6.3% in Zone B**,** while at the all-India level it ranged from 0.0 to 9.5%**.** The majority of genotypes across all zones exhibited resistant reactions (<5%)**,** with a smaller proportion falling under the moderately resistant category (5–10%)**,** particularly in Zones A1 and A. Notably, one genotype (MH 2890) reached the susceptibility threshold (20.0%) in Zone A1**,** indicating localized breakdown of resistance, whereas no genotypes exceeded this threshold in Zones A and B. Zone B showed comparatively lower incidence and narrower variation**,** suggesting relatively stable resistance expression, while Zones A1 and A exhibited slightly higher variability, enabling better differentiation of genotypes. At the national level, most entries remained within the resistant to moderately resistant categories**,** confirming overall robustness of the germplasm, although a few high-risk genotypes (e.g., MH 2890, MH 2915, MH 2913) approached upper incidence limits and may require attention in resistance breeding programmes (Table IV.3D).

Ergot: At 60 DAS, rust incidence across Zones A1, A, and B, as well as at the all-India level, indicated very low disease pressure and strong resistance expression among the evaluated genotypes. The incidence ranged from 0.0 to 12.5% in Zone A1 and Zone A, and from 0.0 to 1.3% in Zone B, while at the all-India level it ranged from 0.0 to 4.3%. The majority of entries across all zones recorded highly resistant reaction (0%), with a smaller proportion showing low levels of infection (<5%). Only a few genotypes in Zones A1 and A exhibited relatively higher incidence values (up to 12.5%), indicating moderate disease

expression under localized conditions, whereas Zone B showed consistently low incidence with minimal variation, suggesting stable resistance across entries.

Overall, all genotypes were categorized under the resistant group (<20%)**,** with no entry exceeding the susceptibility threshold. The results clearly demonstrate that the tested germplasm possesses robust and stable resistance to rust across locations**,** with Zones A1 and A showing slightly higher variability, while Zone B maintained uniformly low disease expression**,** making it less discriminative but indicative of strong resistance performance (Table IV.3E).

PMPT II: Disease Screening Trial of Advanced Pearl Millet Hybrids and Varieties

Downy Mildew: A total of forty-six entries were screened in this trial at ten different centres for pearl millet diseases. The overview of the results of this trial at different centres is summarised in Table IV.C.

Zone A1: at 30 DAS Downy mildew incidence ranged from 0.0–12.1% (mean ~1.8%). Most genotypes were resistant (0–5%)**,** with few moderately resistant (5–10%) and two entries 86M01, Pratap susceptible disease reaction (>10%)**.**

Zone A: Incidence ranged from 0.0–7.3% (mean ~1.5%). Almost all genotypes were resistant**,** with few moderately resistant and no susceptible entries, indicating uniform resistance**.**

Zone B: Incidence ranged from 0.0–14.6% (mean ~3.2%). While many genotypes were **resistant**, several were moderately resistant and a few susceptible (>10%)**,** indicating higher disease pressure and better discrimination (Table IV.4).

At 60 DAS, the mean disease incidence for the entries tested ranged from 2.4 to 5.5% (Table IV.5).

Zone A1: Downy mildew incidence ranged from 0.0 to 14.0%**.** Most genotypes showed resistant reaction **(**0–5%)**,** with a few moderately resistant (5–10%) and two susceptible entries (>10%) (86M01 – 12.5%, Pratap – 14.0%), indicating low to moderate disease pressure

Zone A: Incidence ranged from 0.0 to 16.1%**.** The majority of genotypes were resistant**,** with some moderately resistant**,** and a few susceptible entries (>10%) (Pusa Comp. 612 – 16.1%), reflecting moderate variability under this zone

Zone B: Incidence ranged from 0.0 to 18.5%**,** showing highest variability**.** While most genotypes were resistant**,** several showed moderately resistant (5–10%) and some susceptible **(>10%)** (e.g., MH 2705 – 18.5%, MP 648 – 10.2%, Dhanshakti – 9.8% near threshold), indicating higher disease pressure and better discrimination**.**

At 60 DAS, At the all-India level, downy mildew incidence ranged from 0.1 to 31.0%, showing wide variability. Out of the evaluated genotypes, approximately 70 genotypes were resistant (0–5%), 7 genotypes were moderately resistant (5–10%), and 3 genotypes were susceptible (>10%), including 1 highly susceptible genotype (>25%). Pusa Comp. 612 was identified as highly susceptible, while MH 2705 and Raj 171 also showed susceptibility.

Other Diseases (PMPT II): An overview of Blast, Rust, Smut, and Ergot of highly resistant entries is summarized in Table IV.6.

Blast: At 30 DAS, the mean blast severity recorded in Zones A1, A, and B was 0.8, 0.7, and 0.7, respectively (Table IV.6).

Zone A1: Blast severity ranged from 0.6 to 1.2**,** with a mean of ~0.9**.** All genotypes exhibited resistant reaction (0.1–3 scale)**,** indicating uniform and stable resistance under Zone A1 conditions with low disease pressure.

Zone A: Severity ranged from 0.3 to 1.1**,** with a mean of ~0.7**.** All entries were categorized as resistant**,** reflecting very low disease intensity and consistent performance across genotypes**.**
Zone B: Severity ranged from 0.0 to 1.6**,** with a mean of ~0.8**.** All genotypes showed resistant reaction, though slightly higher variability compared to Zones A1 and A, indicating better discrimination but still low disease pressure**.**

At All India, blast severity remained within the resistant range (0.1–3)**,** with no moderately resistant or susceptible entries.

Blast: At 45 DAS, the mean blast severity in Zones A1, A, and B was 1.3, 1.1, and 1.1 scores, respectively (Table IV.6A).

Zone A1: Mean blast severity was **~**1.08**,** with a range of 0.7–2.2**.** All genotypes exhibited resistant reaction (0.1–3 scale)**.** The highest incidence was recorded in Pratap (2.2)**,** indicating slightly higher expression but still within the resistant category.

Zone A: Mean severity was **~**1.01**,** ranging from 0.5–2.1**.** All entries were resistant**,** reflecting low disease pressure and uniform performance. The highest value was observed in Pratap (2.1)**.**
Zone B: Mean severity was approximately 1.05, with a wider range of 0.1 to 2.5, indicating relatively high variability. All genotypes remained resistant. The maximum incidence was observed in 86M01 and AHB 1200 (2.5), suggesting a greater expression of disease response in this zone.
Blast: At 60 DAS, the mean blast severity in Zones A1, A, and B was 2.1, 2.2, and 2.4, respectively (Table IV.6B).

Zone A1: Mean blast severity was ~1.74**,** with a range of 0.9–4.3**.** The majority of genotypes showed resistant reaction (0.1–3 scale)**,** while a few entries such as Pratap, 86M01, AHB 1200, and KBH 108 exhibited moderately resistant reaction **(>3–5)**. This indicates generally low to moderate disease expression with limited variability under Zone A1 conditions.

Zone A: Mean severity was **~**1.65**,** ranging from 0.6–4.2**.** Most genotypes remained resistant**,** with a few entries **(**Pratap, 86M01, AHB 1200, HHB 67 Imp.**)** falling under the moderately resistant category**.** The zone showed consistent performance with slightly lower disease intensity compared to Zone A1**.**

Zone B: Mean severity was ~1.96**,** with a range of 0.6–4.0**,** indicating comparatively higher disease pressure. While the majority of genotypes were resistant**,** several entries **(**HHB 67 Imp., 86M01, AHB 1200, MP 648**)** exhibited moderately resistant reaction, suggesting greater expression of disease under Zone B conditions**.**

At All India: At the all-India level, mean blast severity was ~1.78**,** with an incidence range of 0.6–3.6**,** indicating moderate variability under pooled conditions. The majority of genotypes **(**~42 entries**)** exhibited resistant reaction (0.1–3 scale)**,** while a limited number **(**~8 entries**)** showed moderately resistant response **(**>3–5)**.** No genotypes were categorized as susceptible (>5), reflecting absence of severe disease reaction. Notably, genotypes such as Pratap, HHB 67 Imp., 86M01, AHB 1200, KBH 108, and MP 648 recorded relatively higher blast scores (≥3.0), indicating higher sensitivity under multi-location conditions.

Rust: At 60 DAS, rust incidence showed clear zonal variation, ranging from 0.0 to 17.5% across all locations. The mean incidence was negligible in Zones A1 and A (~0.1%), while Zone B recorded higher mean incidence (~10.6%), indicating it as the primary hotspot for rust expression. The highest disease incidence was observed in MH 2744 (17.5%), followed by MH 2743 (15.6%), Kaveri Super Boss (13.9%), and HHB 67 Imp. (13.8%), mainly under Zone B locations such as Dhule, Mysore, Coimbatore, and Patancheru. In contrast, several genotypes showed very low to no infection (0.0%), particularly in Zones A1 and A, reflecting minimal disease pressure. Importantly, all genotypes recorded <20% incidence and were categorized as resistant, with no susceptible entries identified. The germplasm exhibited strong and stable resistance to rust across all zones, with Zone B serving as an effective hotspot for differentiation of genotypic response, while Zones A1 and A showed limited disease expression due to low environmental favorability (Table IV.6C).

Smut: Smut disease severity at 60 DAS exhibited low to moderate levels across all zones, indicating generally stable resistance among the evaluated pearl millet genotypes. The mean severity was lowest in Zone A1 (1.35%), followed by Zone A (1.95%), while Zone B recorded comparatively higher mean severity (2.95%), suggesting relatively greater disease pressure in southern locations. Despite this, the disease incidence across zones remained within a manageable range, with values varying from 0.0 to 11.5% in Zone A1, 0.0 to 8.3% in Zone A, and 0.4 to 6.4% in Zone B. At the all-India level, the mean smut incidence was 2.45%, with an overall range of 0.4 to 6.4%, reflecting consistent performance of genotypes across locations. Importantly, all tested entries fell under the resistant category (<20%), indicating the absence of highly susceptible genotypes in the evaluated material. However, a few genotypes such as AHB 1269, MH 2775, Dhanshakti, and MPMH 35 showed relatively higher incidence and may be considered high-risk or sensitive under favorable disease conditions (Table IV.6D).

Ergot: Ergot severity at 60 DAS across PMPT-II entries revealed very low disease pressure across all zones, indicating strong inherent resistance in the evaluated germplasm. The mean ergot incidence was lowest in Zone A1 (0.5%) and Zone A (0.5%), while Zone B recorded slightly higher mean severity (0.8%), suggesting comparatively favorable conditions for disease expression in this zone. However, even in Zone B, the disease levels remained low and within resistant limits. The range of ergot incidence varied from 0.0 to 2.5% in Zone A1, 0.0 to 2.5% in Zone A, and 0.0 to 4.0% in Zone B, indicating minimal variability across locations. A few entries such as MH 2705, RHB 223, ICMV 155, and ICMV 221 showed

relatively higher values (up to 4–5%), particularly in hotspot locations like Mysore (MYS), Dharwad (DHL), and Coimbatore (CBE), which contributed to higher Zone B means. At the all-India level, the mean ergot severity was 0.7%, with an overall range of 0.0 to 4.0%, confirming uniform resistance across environments. Importantly, all genotypes were categorized as resistant (<5%), with no moderately resistant or susceptible entries observed (Table IV.6E).

PMPT III: Monitoring Disease Resistance Stability of Released Popular Hybrids/Varieties

A total of 37 entries were screened across nine different centres **(Table IV 7-9E).** All entries included in this trial were assessed for downy mildew disease incidence at 30 days after sowing (DAS) during the pre-tillering stage and at 60 DAS during the soft-dough stage. Blast: The incidence of blast disease was recorded at 30, 45, and 60 DAS.

Downy mildew: 30 DAS (Table IV 7).

Zone A1: Mean incidence was 1.62%, with a range of 0.0–8.2%. Out of 38 genotypes, 35 were resistant (0–5%) and 3 were moderately resistant (5–10%); no genotype was susceptible or highly susceptible. The highest incidence was recorded in ICMV 155 (8.2%), followed by 86M01 (7.5%) and JBV 2 (5.1%).

Zone A: Mean incidence was 1.17%, with a range of 0.0–9.0%. Of the 38 genotypes, 37 were resistant and 1 was moderately resistant; no susceptible or highly susceptible entries were observed. The highest incidence was recorded in ICMV 155 (9.0%), followed by 86M01 (4.5%) and JBV 2 (3.1%).

Zone B: Mean incidence was 4.60%, with a wider range of 0.3–16.1%, indicating the highest disease pressure among the zones. Of the 38 genotypes, 23 were resistant, 12 were moderately resistant, and 3 were susceptible (10–25%); no highly susceptible entries were recorded. The highest incidence was observed in GHB 538 (16.1%), followed by Dhanshakti (12.2%) and HHB 234 (10.6%).

Downy mildew: 60 DAS (Table IV 8).

Zone A1: Mean incidence was 3.6%, with a range of 0.0–9.2%. Out of 38 genotypes, 34 were resistant (0–5%) and 4 were moderately resistant (5–10%); no genotype was susceptible or highly susceptible. The highest zone mean was recorded in 86M01 (9.2%), followed by ICMV 155 (8.4%), Dhanshakti (6.1%), and JBV 2 (6.3%). The lowest incidence (0.0%) was observed in MPMH 42, GHB 905, 86M84, KBH 108, Kaveri Super Boss, 86M86, RHB 234, and AHB 1269. Among individual A1 locations, the highest single-location incidence was at Jaipur (JPR) in 86M01 (22.5%).

Zone A: Mean incidence was 3.6%, with a range of 0.0–8.9%. Of the 38 genotypes, 35 were resistant and 3 were moderately resistant; no susceptible or highly susceptible entries were observed. The highest zone mean was recorded in ICMV 155 (8.9%), followed by HHB 234 (6.1%) and 86M01 (5.5%). The lowest incidence (0.0%) was observed in GHB 905, 86M84, KBH 108, Kaveri Super Boss, 86M86, RHB 234, and AHB 1269. Among the Zone A locations, the highest single-location incidence was at Mysore (MYS) in GHB 538 (24.3%).

Zone B: Mean incidence was 7.6%, with a wider range of 0.5–21.1%, indicating the highest disease pressure among the three zones. Of the 38 genotypes, 23 were resistant, 8 were moderately resistant, and 7 were susceptible (10–25%); no genotype was highly susceptible (>25%) on zone mean basis. The highest zone mean was recorded in GHB 538 (21.1%), followed by Dhanshakti (15.4%), HHB 234 (13.8%), RHB 234 (11.6%), and MPMH 35 (10.5%). The lowest zone mean (0.5%) was observed in GHB

1305 and Kaveri Super Boss. Among individual Zone B locations, the highest single-location incidence was at Dharwad (DHL) in GHB 538 (50.0%), followed by RHB 234 (42.3%) and HHB 234 (34.9%).

All-India: Mean incidence was 4.8%, with an overall range of 0.2–12.8%. At the national level, 28 genotypes were resistant, 8 were moderately resistant, and 2 were susceptible; no genotype was highly susceptible. The highest all-India mean was recorded in GHB 538 (12.8%), followed by Dhanshakti (8.9%), HHB 234 (7.6%), MPMH 35 (6.7%), and 86M01 (6.0%). The lowest all-India mean was observed in Kaveri Super Boss (0.2%).

Other diseases (PMPT III): An overview of smut, rust, blast, and ergot of highly resistant entries is summarized in (Table IV.9).

Blast: At 30 DAS, the mean blast scores in Zones A1, A, and B were 1.1, 0.7, and 0.7 scores, respectively (Table IV.9).

Zone A1: Mean blast score was 1.00, with a range of 0.6 to 1.8. All 38 entries recorded <3 incidence, and 0 entries recorded >3 incidence.

Zone A: Mean blast score was 0.75, with a range of 0.4 to 1.3. All 38 entries recorded <3 incidence, and 0 entries recorded >3 incidence.

Zone B: Mean blast score was 0.76, with a range of 0.0 to 1.8. All 38 entries recorded <3 incidence, and 0 entries recorded >3 incidence.

Blast: At 45 DAS, the mean blast scores in Zones A1, A, and B were 1.1, 1.0, and 1.5 scores, respectively (Table IV.9A).

Zone A1: Blast severity remained low with a mean score of 1.1 and a narrow range of 0.7–1.9. All 38 genotypes exhibited resistant reaction (<3), indicating uniform and stable resistance under A1 conditions. No genotype approached the susceptible category, suggesting low disease pressure and limited differentiation among entries.

Zone A: The mean blast score was 1.0, with a range of 0.6–1.7, reflecting consistently low disease incidence. All entries were resistant, similar to Zone A1. The narrow variability indicates minimal pathogen pressure, and hence this zone was less effective for distinguishing genotypic differences in blast resistance.

Zone B: Zone B recorded the highest mean blast score (1.5) with a wider range of 0.0–3.0, indicating relatively higher disease expression compared to other zones. Although all genotypes remained within the resistant category (<3), one entry (HHB 234) reached the upper threshold (3.0), suggesting better expression of disease symptoms. This zone can be considered more informative for screening and identifying subtle differences in resistance.

Blast: At 60 DAS, the mean blast scores in Zones A1, A, and B were 1.8, 1.9, and 2.2 severity scores, respectively (Table IV.9B).

Zone A1: The mean blast score in Zone A1 was 1.8, indicating low to moderate disease pressure. Most entries remained in the resistant category (<3 scale). However, relatively higher incidence was observed in KBH 108 (3.4), AHB 1200 (3.1), GHB 538 (2.9), and Pratap (MH 1642) (2.3–3.1 range), suggesting partial susceptibility under A1 conditions. Overall, the range varied from ~0.9 to 3.4, indicating moderate variability and useful discrimination among genotypes.

Zone A: Zone A recorded a slightly higher mean blast score of 1.9, with a range of ~0.3 to 3.9, indicating moderate disease pressure. The highest incidence was observed in GHB 538 (3.9), HHB 234 (3.8), AHB 1269 (3.5), and Pratap (MH 1642) (3.4). Most entries still remained below the susceptibility threshold, but this zone showed better differentiation among genotypes compared to Zone A1.

Zone B: Zone B exhibited the highest mean blast score (2.2) and the widest range (~0.3 to 3.9), indicating relatively higher disease pressure and strong expression of blast symptoms. The maximum incidence was recorded in GHB 538 (3.9), HHB 234 (3.8), AHB 1269 (3.5), and Pratap (MH 1642) (3.4). A few entries approached or crossed the moderately susceptible range (>3), making this zone most effective for screening and identifying susceptible genotypes.

All-India level: Across all locations, Dhule (DHL) recorded the highest mean blast score (4.1), followed by Mysore (MYS) (2.6) and Hisar (HSR) (2.6), indicating these as major hotspots for blast screening. In contrast, locations like Mandor (MDR) (0.7) and Coimbatore (CBE) (1.0) showed low disease pressure.

Rust: Rust incidence across the evaluated pearl millet entries was generally low to moderate, with a national mean of ~4.5% leaf area infection. The range of incidence varied widely from 0.0 to 40.0%, indicating substantial variability among genotypes under different environmental conditions. Zone-wise, both Zone A1 and Zone A recorded negligible rust incidence (range: ~0.0–1.0%), with almost all entries falling under the resistant category (<20%), suggesting very low disease pressure and limited utility for screening. In contrast, Zone B exhibited comparatively higher disease pressure, with a broader range (~2.3 to 18.1% mean; up to 40% at specific locations), enabling better discrimination of genotypic response. Among locations, Dhule (DHL) emerged as the major hotspot, recording the highest rust severity (up to 40%), followed by Gwalior (GLR) and Mysore (MYS) with moderate to high levels (up to ~27%). While the majority of genotypes showed acceptable resistance (<20%), a few entries such as JBV 2, Pusa Composite 383, MPMH 42, GHB 1294, Pusa Composite 701, and Pratap (MH 1642) exhibited high susceptibility (>20%), indicating their sensitivity to rust and potential use in pathogen variability and screening studies (Table IV.9C).

Smut: Smut incidence across the evaluated pearl millet entries was generally low, with a national mean of ~2.1% severity, indicating that most genotypes exhibited good resistance under field conditions. The overall range of smut severity varied from 0.0 to 15.0%, reflecting moderate variability among entries. Zone-wise analysis revealed that Zone A1 recorded a slightly higher mean (2.3%), followed by Zone B (2.5%) and Zone A (1.8%), suggesting uniformly low disease pressure across all zones. The range of incidence remained narrow in Zone A1 (0.0–7.5%) and Zone A (0.0–5.0%), while Zone B showed a relatively wider range (0.4–5.0% mean; up to 15.0% maximum), indicating slightly better differentiation under this zone. Among locations, Dhule (mean ~4.8%) recorded comparatively higher smut severity, identifying it as a moderate hotspot, whereas locations like Gwalior (GLR; 0.4%) and Jodhpur (JMR; 1.3%) showed minimal disease incidence. A few genotypes exhibited higher smut susceptibility, including MPMH 35 (15.0%), Raj 171 (15.0%), and GHB 1294, GHB 538, MP 7878, and Pusa Composite 701 (up to 10–12.5%). However, the majority of entries remained within <5% severity, confirming broad resistance across the tested material (Table IV.9D).

Ergot: Ergot incidence across pearl millet entries during Kharif 2025 was very low and sporadic, with a national mean of ~0.58% and a range of 0.0–7.5%, indicating minimal disease pressure. Among zones,

Zone A1 showed slightly higher incidence (~1.2%) with localized pockets, while Zone A (~0.4%) and Zone B (~0.55%) recorded very low infection levels. Mysore exhibited relatively higher occurrence, followed by Dhule/Jodhpur pockets, whereas most locations had negligible or zero incidence, suggesting largely non-conducive conditions for disease development. The majority of genotypes were completely resistant (0.0%), with only a few showing localized susceptibility, notably HHB 299 (7.5%), HHB 234 and AHB 1269 (5%), and a few others up to 2.5%. Overall, ergot was not a significant constraint, and the predominance of zero incidence indicates stable resistance across most entries, although Zone A1 and specific genotypes may require targeted monitoring under favorable conditions (Table IV.9E).

PMPT IV: Characterization of Pathogen Diversity in Downy Mildew of Pearl Millet

The virulence nursery was utilized to assess the pathogenic diversity of *Sclerospora graminicola* populations by recording downy mildew incidence at both the pre-tillering and soft-dough stages across different zones. The Pearl Millet Downy Mildew Virulence Nursery (PMDMVN), a collaborative initiative between ICAR (AICRP on Pearl Millet) and ICRISAT, is designed to evaluate variability in pathogen virulence and the stability of host resistance across multiple locations. In this study, consistent and high disease pressure (>80% downy mildew incidence) was observed on the susceptible check 7042S at the soft-dough stage across all test sites, confirming the effectiveness of the screening conditions. Overall, disease incidence increased from the pre-tillering stage (Table IV.10) to the soft-dough stage (Table IV.11), indicating progressive disease development under field conditions.

Out of the 47 entries evaluated under PMDMVN-2025 (PMPT-IV) at 60 DAS (excluding the susceptible check 7042S), genotypes were categorized based on their stability of resistance (0–5% incidence) across 10 test locations.

A total of 6 genotypes, namely ICMR 23444, ICMR 23777, ICMR 24222, ICMR 24666, ICPMDMR-24-4, and YG 8, exhibited complete resistance across all 10 locations, indicating highly stable and broad-spectrum resistance. These entries did not show disease incidence beyond 5% at any location and are considered highly promising donor lines for resistance breeding.

Further, 7 genotypes (ICPMDMR-25-1, ICMR 24333, ICMR 24555, IP 11930, IP 6193-2, IP 9997, and 261-SB-25) maintained resistance in 9 out of 10 locations, with only minor breakdown at one location, primarily under high disease pressure conditions.

Similarly, 9 genotypes (ICMB 24111, ICMB 24222, ICMR 23111, ICMR 24888, ICPMDMR-25-2, IP 9645, IP 5719-3, 270-SB-25, and 286-SB-25) exhibited resistance in 8 locations, indicating moderate stability with susceptibility expressed at two locations, mainly in hotspot centres.

Overall, the results indicate that a significant proportion of entries demonstrated high levels of resistance stability across multiple environments. The presence of a core group of highly stable resistant genotypes, along with several moderately stable entries, highlights the effectiveness of the germplasm in withstanding diverse pathogen populations. The observed breakdown of resistance in a few entries was largely associated with known hotspot locations such as Mysore, Dhule, and Patancheru, confirming their utility for screening and identification of durable resistance. These stable genotypes can be effectively utilized in resistance breeding programmes and for further molecular characterization of downy mildew resistance.

PMPT V: Pearl Millet Blast Variability Nursery (PMBVN)

The PMBVN-2025, which includes 71 advanced breeding and germplasm lines along with a susceptible check, was evaluated at the AICRP on PM centres situated in Aurangabad, Dhule, Jaipur, Jamnagar, Gwalior, Hisar, Mysore, Mandor, Vizianagaram, and Tirupati, as well as at ICRISAT in Patancheru, during the kharif season of 2025.

Blast severity was recorded at the soft dough stage using a progressive 0-9 scale, defined as follows: 0 = no infection; 1 = small brown specks of pinhead size; 2 = larger brown specks; 3 = small, roundish to slightly elongated, necrotic grey spots approximately 1-2 mm in diameter with a brown margin; 4 = typical blast lesions usually confined to the area between the main veins, covering less than 5% of the leaf area; 5 = typical blast lesions covering 6–10% of the leaf area; 6 = typical blast lesions covering 11-25% of the leaf area; 7 = typical blast lesions covering 26–50% of the leaf area; 8 = typical blast lesions covering 51–75% of the leaf area, with many leaves dead; 9 = all leaves are dead.

The virulence nursery analysed pathogenic diversity. In this experiment, we recorded the incidence of blast disease at 30, 45, and 60 days after sowing (DAS) across the zones.

The Pearl Millet Blast Virulence Nursery (PMBMVN) is a collaborative research project between ICAR (AICRP on PM) and ICRISAT. It provides insights into the various virulence types found in M. grisea populations and the stability of resistance in pearl millet lines cultivated in different locations. We observed consistent disease pressure (>5.6 severity) on ICMB 95444 at 60 DAS across all locations. Generally, disease incidence increased from the pre-tillering stage to the soft-dough stage (Table IV.12).

At 30 DAS: (Table IV 12).

At 30 DAS, blast incidence across PMBVN-2025 entries (excluding the susceptible check ICMB 95444) remained predominantly within the resistant category (0.1–3.0 score), indicating low disease pressure during early crop growth. The overall disease scores ranged from near 0.0 up to ~5.5, with the majority of genotypes showing consistent resistance across locations. However, a few genotypes recorded relatively higher incidence under specific environments. Notably, ICPMBB-25-8 and ICPMBB-25-9 showed higher scores at Dhule (DHL) (up to ~5.5 and ~5.0, respectively), while ICPMBB-25-1 and ICPMBB-25-10 exhibited elevated incidence at Patancheru (PTR) (~4.5–4.0). Similarly, entries such as PBPMPOP 2-58-11-1 (ICPMBL-30) and AL-267 (ICPMBL-44) recorded comparatively higher values at vijayanagaram and Tirupati (~4.6–4.7), indicating localized disease expression.

Location-wise, Dhule (DHL) emerged as the primary hotspot at this stage, recording the highest disease scores across multiple genotypes (up to ~5.5), followed by Patancheru (PTR) and Mysore (MYS), which also showed moderate disease expression (up to ~4–5). In contrast, centres such as Jodhpur (JPR), Gwalior (GLR), and Jalna (JMR) consistently recorded very low scores (mostly <1.0), reflecting minimal disease pressure. Overall, while most genotypes exhibited strong early-stage resistance, the presence of higher incidence in specific genotypes and hotspot locations highlights the importance of Dhule, Patancheru, and Mysore for effective screening and differentiation of blast resistance at early growth stages (Table IV.12).

45 DAS: (Table IV 12A).

The evaluation of blast disease at 45 DAS across ten locations indicated predominantly resistant reactions among the tested genotypes, excluding the susceptible check ICMB 95444. Most entries fell within the

resistant category (0.1–3.0), reflecting low disease pressure during early crop growth, with only a few showing moderate (>3–5) and very limited entries showing susceptible reactions (>5). No genotype exhibited highly susceptible response (>7), confirming overall strong early-stage resistance in the germplasm.

Stability analysis revealed that four genotypes ICPMBB-25-21, PBPMPOP 2-72-1-1-4 (ICPMBL-27), PBPMPOP 2-58-2-1 (ICPMBL-32), and DHLB-PMBVN-2 (ICPMBL-62) were resistant across all 10 locations, indicating highly stable resistance. Additionally, genotypes such as ICPMBB-25-3, ICPMBB-25-5, ICPMBB-25-11, ICPMBB-25-14, IP 11353, and ICMR100844 showed resistance in 9 locations, while a larger group including CPMBB-25-1, ICPMBB-25-2, ICPMBB-25-4, ICPMBB-25-6, ICPMBB-25-7, PBPMPOP 2-48-5-1, PBPMPOP 2-210-1-5-2, AL-60, AL-106, DHLB-PMBVN-4, DHLB-PMBVN-5, and IP 8280 exhibited resistance in 8 locations. Among centres, Dhule, Mysore, Patancheru, and Tirupati, acted as hotspots with relatively higher disease scores, whereas JMR, GLR, and JPR showed low disease pressure and limited differentiation among genotypes.

At 60 DAS: (Table IV 12B).

The evaluation of blast resistance in PMBVN-2024 (PMPT V) entries at 60 DAS across ten locations revealed considerable variation in disease response, supported by clear differences in mean disease pressure across centres. The mean blast score of each centre indicated that Dhule (DHL) recorded the highest disease pressure (mean ~4.1), followed by Mysore (MYS; ~2.6) and Hisar (HSR; ~2.6), confirming these as major hotspot locations. In contrast, Mandor (MDR; ~0.7) and Coimbatore (CBE; ~1.0) recorded the lowest mean scores, indicating relatively low disease pressure. Other centres such as ABD (~0.7–1.5), GLR (~1.3–2.0), JPR (~1.0–2.5), JMR (~1.5–2.0), PTR (~2.0–2.5), and Vijayanagaram (~2.0–2.5) showed moderate disease expression, contributing to effective multi-location screening.

Excluding the susceptible check ICMB 95444, only a few genotypes exhibited stable resistance across all environments. Notably, ICPMBB-25-21, PBPMPOP 2-72-1-1-4 (ICPMBL-27), and DHLB-PMBVN-2 (ICPMBL-62) showed consistent resistance (≤3 score) across all ten locations, indicating strong and stable resistance. In addition, ICPMBB-25-11, ICPMBB-25-14, PBPMPOP 2-58-2-1 (ICPMBL-32), IP 11353 (ICPMBL-67), ICMR 100844 (ICPMBL-69), and DHLB-PMBVN-3 (ICPMBL-63) maintained resistance across nine locations, showing near-stable performance with minor susceptibility under high disease pressure. A broader group of genotypes including ICPMBB-25-3, ICPMBB-25-4, ICPMBB-25-5, PBPMPOP 2-48-5-1 (ICPMBL-29), PBPMPOP 2-210-1-5-2 (ICPMBL-31), AL-60, AL-106, DHLB-PMBVN-4, DHLB-PMBVN-5, and IP 8280 were resistant across eight locations, indicating moderate stability influenced by environmental variation.

Overall, the results demonstrate that although a large proportion of entries exhibited resistant to moderately resistant reactions, only a limited number showed stable resistance across diverse agro-climatic conditions. The higher mean blast scores at Dhule, Mysore, and Hisar highlight their importance as reliable hotspot locations for resistance screening. The identification of highly stable genotypes such as ICPMBB-25-21, ICPMBL-27, and ICPMBL-62 is particularly valuable for breeding programmes aimed at developing durable blast-resistant pearl millet cultivars, while genotypes with partial

susceptibility can be effectively utilized for studying pathogen variability and refining screening strategies.

PMPT VI: BASIC RESEARCH

1. Characterization of Magnaporthe grisea isolates for virulence diversity on host differentials

The study systematically assessed the virulence diversity of Magnaporthe grisea by analysing 30 isolates collected from major pearl millet–growing regions of Rajasthan, Gujarat, and Maharashtra during the Kharif 2025 season, thereby capturing a representative spectrum of pathogen variability under field conditions. Based on their differential reactions on host sets, two representative isolates, Pg 533 (Gujarat) and Pg 538 (Maharashtra), were selected for detailed screening of breeding materials, ensuring reliable discrimination of resistance responses. A comprehensive set of 139 designated B-lines and 76 R-lines was evaluated against five distinct pathotypes (Pg 45, Pg 138, Pg 186, Pg 204, and Pg 232) to identify stable and broad-spectrum sources of blast resistance.

The results revealed a clear contrast in resistance stability between B-lines and R-lines. Among the B-lines, 10 lines exhibited complete resistance to all five pathotypes, demonstrating strong and potentially durable resistance, while 71 lines were resistant to four pathotypes and 28 lines to three pathotypes, indicating a wide and robust resistance base within this group. In contrast, the R-lines showed comparatively lower resistance stability, with only 5 lines resistant to all five pathotypes, 19 resistant to four pathotypes, and 13 resistant to three pathotypes. This differential response suggests that B-lines may harbor more diverse or effective resistance gene combinations compared to R-lines, possibly due to their broader genetic background or selection history.

Overall, the study highlights significant pathogenic variability within M. grisea populations, emphasizing the dynamic nature of the pathogen and the need for multi-pathotype screening in resistance breeding programmes. Importantly, the identification of B-lines with broad-spectrum resistance provides valuable genetic resources for developing durable blast-resistant pearl millet hybrids. These resistant lines can be strategically utilized as donor parents in breeding programs, while moderately resistant and susceptible lines can serve as differential hosts for monitoring pathogen evolution and refining virulence classification systems.

2. Decoding Host–Pathogen Interactions Using Dual RNA-Seq

This study was designed to dissect the molecular basis of blast resistance in pearl millet using a dual RNA-Seq strategy that simultaneously captures host and pathogen gene expression during infection. Initially, a diverse panel of 30 lines was screened against multiple Magnaporthe grisea pathotypes (Pg 136, Pg 138, Pg 186, and Pg 204) to identify contrasting phenotypes. Based on clear phenotypic divergence, two extreme genotypes were selected: ICMR 10888 (highly resistant; disease score ~2) and ICMB 95444 (highly susceptible; disease score ~8). Among the pathogen isolates, Pg 186 was chosen as a representative virulent strain due to its consistency and reliability in differentiating host responses. Controlled inoculation was carried out to ensure uniform infection, thereby minimizing environmental variability and enabling accurate comparison of host–pathogen interactions.

A time-course sampling strategy was implemented, wherein infected leaf tissues were collected at 0, 24, 48, and 72 hours post-inoculation (hpi), capturing key stages of infection including initial recognition,

colonization, and disease progression. Samples were immediately flash-frozen in liquid nitrogen to preserve RNA integrity, followed by extraction of high-quality RNA for sequencing. Dual RNA-Seq allowed simultaneous profiling of both pearl millet (host) and M. grisea (pathogen) transcriptomes, providing a comprehensive view of the interaction dynamics. Subsequent bioinformatic analysis focused on identifying differentially expressed genes (DEGs) between resistant and susceptible genotypes, characterizing pathogen effector genes, and elucidating host defense pathways such as immune signaling, oxidative stress response, and cell wall reinforcement. Overall, this integrated approach provides deep insights into the genetic and molecular mechanisms governing blast resistance and facilitates the identification of candidate genes for breeding and functional validation.

PMPT VII: Management of downy mildew by using organic practices.

The Management of downy mildew experiment evaluated integrated disease management modules for downy mildew using organic and chemical approaches, revealing clear differences in disease control and yield performance. Among all treatments, seed treatment with Trichoderma harzianum (8 g/kg) combined with a spray of Mandipropamid (0.1% at 35 DAS) emerged as one of the best-performing integrated modules, showing low downy mildew incidence (4.96% at 30 DAS and 6.02% at 60 DAS) along with high grain (1832.9 kg/ha) and fodder yield (4728.7 kg/ha). Similarly, the combination of Pseudomonas fluorescens seed treatment (8 g/kg) with Nativo spray (0.04%) recorded the lowest disease incidence among bio-integrated treatments (4.29% and 5.12%) and produced high fodder yield (4767.0 kg/ha), indicating strong potential of bio-agent-based integration. The chemical check, Metalaxyl seed treatment (6 g/kg), recorded the lowest downy mildew incidence (1.99% and 2.87%) and the highest grain (1969.0 kg/ha) and fodder yield (4887.8 kg/ha), confirming its effectiveness as a standard treatment. In contrast, the untreated control showed the highest disease incidence (11.36% and 16.54%) and the lowest yield, clearly demonstrating the impact of disease pressure on productivity. Overall, while Metalaxyl remains the most effective option, integrated approaches combining bio-agents with targeted fungicide sprays provide a sustainable and efficient alternative for managing downy mildew while maintaining high yield performance (Table IV.13A-D).

PMPT VIII: Management of blast disease by using chemical and bioagents.

During the year, the Integrated Disease Management module comprising chemical and bio-agent-based treatments for pearl millet blast showed clear differences in disease reduction and yield performance. Among individual treatments, Nativo spray (0.04 g/l) recorded comparatively lower blast incidence (18.7% PDI), while Isotianil and Priaxor sprays provided moderate control (28–29% PDI). In contrast, bio-agent seed treatments alone (Bacillus subtilis and Pseudomonas fluorescens) were less effective, with higher disease incidence (35–36% PDI), indicating that standalone biological approaches may not be sufficient under field conditions. Integrated treatments combining bio-agent seed treatment with fungicidal sprays proved more effective in managing blast. Notably, seed treatment with Pseudomonas fluorescens (8 g/kg) followed by Isotianil spray (0.5 ml/l) significantly reduced disease incidence (22.3% PDI) and resulted in higher grain yield (1984.3 kg/ha) along with the highest fodder yield (3088.5 kg/ha), emerging as the best-performing treatment. Similar improvements were observed with Bacillus subtilis-based combinations with Nativo or Isotianil. The untreated control recorded the highest disease severity (52.3% PDI) and lowest yield, clearly highlighting the impact of blast on productivity. Overall, while

chemical fungicides remain effective, their integration with bio-agents offers a more sustainable and efficient strategy for managing blast in pearl millet (Table IV.14A-D).

PMPT IX: Study the epidemiology and yield loss assessment of blast disease under natural condition

The epidemiology and yield loss assessment study (PMPT IX) on pearl millet blast was conducted under natural field conditions using contrasting genotypes (susceptible ICMB 95444 and resistant Dhanshakti) along with different management treatments, including untreated control and fungicide sprays (Nativo). Disease progression was monitored weekly from meteorological week (MW) 31 to MW 42, alongside key environmental parameters such as temperature and relative humidity. The results indicated that blast disease initiation occurred early in the susceptible genotype around MW 31–32, when moderate temperatures (~25–28°C) and increasing humidity (~70–80%) created favorable conditions for pathogen establishment. In contrast, the resistant genotype exhibited delayed disease onset (MW 34–38), demonstrating inherent resistance mechanisms that restrict early infection.

A rapid increase in disease severity was observed during MW 35–40, coinciding with peak environmental favorability characterized by high relative humidity (>85%), frequent rainfall, and optimal temperature conditions (~25–30°C), which collectively accelerated pathogen multiplication and disease spread. The untreated control plots showed the fastest disease progression, reaching the highest final severity levels (>40%), clearly indicating substantial yield loss potential under unmanaged conditions. In comparison, plots treated with two sprays of Nativo effectively delayed disease development, reduced final severity, and improved crop protection and yield. Overall, the study highlights that blast epidemics are strongly driven by environmental factors, particularly humidity and temperature, with a clearly defined critical infection window (MW 35–40), emphasizing the importance of timely fungicide application and the use of resistant genotypes for effective disease management (Table IV 15).

PMPT X: Pearl Millet diseases monitoring on farmer's Field

Rajasthan: Field surveillance across Jaipur, Dausa, Karauli, Bharatpur, Alwar, and Kotputli–Behror regions during Kharif 2025 revealed distinct disease patterns under farmer field conditions. Downy mildew incidence was completely absent (0.0%) across all surveyed locations, indicating highly non-conducive conditions for disease development. Rust was also negligible, with no incidence recorded in any field, suggesting minimal threat during the season. In contrast, blast and ergot were the predominant diseases, though their distribution was localized. Blast incidence ranged from 0 to 15% in most locations, with higher levels (up to 15%) observed in pockets such as Bassi, Jhar, Rajoli, Bharatpur clusters, and selected villages in Jaipur and Karauli districts, indicating moderate disease pressure under favorable micro-environments. Ergot incidence showed sporadic occurrence, ranging from 0 to 15%, with higher values recorded in villages like Bairawas, Geejgarh, and Gidani, while most locations remained disease-free. Smut incidence was generally low but exhibited localized spikes (up to 30%) in a few locations such as Gidani and Singhniyan, indicating occasional susceptibility under specific environmental conditions. Overall, the results indicate that blast and ergot are emerging concerns in these regions, whereas downy mildew and rust were negligible during the season, highlighting the importance of targeted monitoring and management of blast and ergot under field conditions (Table IV.16A).

Gujarat: The pearl millet disease survey conducted across Jamnagar and Banaskantha districts covering 35 fields revealed overall low disease pressure under summer conditions, with clear variation among diseases. Downy mildew incidence ranged from 0.0 to 10.0% (mean ~3.3%), indicating mild to moderate occurrence in a few pockets, particularly in locations such as Sihori, Goga deri, and Tetoda. In contrast, smut was completely absent (0.0%) across all surveyed fields, confirming its negligible importance during the season. Among foliar diseases, rust incidence ranged from 0.0 to 6.0% (mean ~1.4%), indicating low-level presence, while blast severity remained very low (score 0–1.4; mean ~0.5), suggesting minimal disease development at early crop stages. Ergot incidence was also negligible (0.0–4.0%), observed only in a few isolated locations such as Bhildi and Gugal. District-wise, Banaskantha recorded relatively higher variability in downy mildew (up to 10%) and ergot (up to 4%), whereas Jamnagar showed comparatively lower disease intensity. Overall, the results indicate that summer conditions were largely non-conducive for major pearl millet diseases, with only sporadic and low-intensity occurrences, highlighting a generally favorable crop health scenario across surveyed regions (Table IV.16B).

Madhya Pradesh: Field monitoring across Gwalior, Morena, Bhind, and Sheopur districts revealed negligible incidence of downy mildew (0%) across all surveyed fields, indicating complete absence of the disease under prevailing conditions. Smut incidence was also minimal, recorded only as trace to very low levels (score 1), suggesting limited economic significance during the season. In contrast, blast was the only prominent disease, though it remained at low to moderate levels, ranging from 1% to 10% across locations. Relatively higher blast incidence was observed in Gwalior and Bhind, particularly in unknown hybrids (up to 9–10%), while Morena and Sheopur recorded lower severity (mostly 1–5%). Among cultivars, NHV7786 and unknown hybrids showed relatively higher susceptibility, whereas JK 2040 and HHB 67 consistently recorded lower blast incidence, indicating better field tolerance. Overall, blast was the primary disease of concern, while downy mildew and smut were not major constraints (Table IV.16C).

Maharashtra: Across Dhule and Aurangabad regions, downy mildew ranged from 0 to 90% (mostly negligible with localized outbreaks), blast from 0 to 70% (most severe disease), and rust from 0 to 50% (moderate to high incidence). Ergot remained low (0–14%) and smut was negligible across locations.

Dhule: Field surveys during Kharif 2025 indicated that blast and rust were the most prevalent diseases, with wide variation in incidence. Downy mildew was largely absent across locations except for a localized outbreak (up to ~90% in Lamkani, Dhule), suggesting isolated hotspot conditions. Smut and ergot remained negligible. In contrast, blast incidence ranged from 0 to 70%, with severe infection observed in Dhule, Jalgaon, and Nashik districts, particularly in cultivars such as Dhanshakti, Vikas, and NPH-4506. Rust incidence ranged from 0 to 50%, with highest severity in Nashik and Ahmednagar districts. Several locations showed simultaneous occurrence of blast and rust, indicating co-dominance under field conditions. Overall, blast emerged as the most severe and widespread disease followed by rust, highlighting the need for targeted management in hotspot regions (Table IV.16D).

Aurangabad: Field surveillance across Chh. Sambhajinagar and Jalna districts revealed clear predominance of blast and rust under farmer field conditions. Downy mildew incidence remained negligible (0–4%), occurring only sporadically in a few local cultivars. Rust incidence ranged from 2% to 24%, with higher severity observed in local cultivars and certain hybrids, particularly in Jalna district. Blast was the most severe and widespread disease, with incidence ranging from 14% to 35%, and several

entries such as Mahyco 204, Kaveri Super Boss, local cultivars, and Proagro hybrids recording high infection levels across locations. Ergot incidence remained low (0–14%) with localized occurrence in susceptible varieties. Overall, blast was identified as the primary disease constraint followed by rust, while downy mildew and ergot were of minor importance, emphasizing the need for targeted management strategies and deployment of resistant hybrids (Table IV.16E).

Karnataka: A field survey across Bellary, Bagalkote, Vijayapura, and Koppal districts of the Mysuru region indicated that downy mildew incidence remained consistently low (0–4%), confirming minimal disease pressure during the season. Blast incidence ranged from 3% to 13%, with higher levels observed in Koppal and Vijayapura, indicating moderate but localized disease expression. Rust was the most dominant disease, with incidence ranging from 7% to 21%, and the highest severity recorded in Bagalkote, followed by consistently high levels in Bellary and Koppal, confirming rust as the major constraint in this region. Ergot incidence was negligible (0–1%) and occurred only sporadically. Overall, rust was the primary disease of concern, followed by moderate blast occurrence, while downy mildew and ergot had minimal impact (Table IV.16F).

Tamil Nadu: Field monitoring across viluppuram, cuddalore, Erode, and Coimbatore districts during Kharif 2025 revealed low to moderate disease pressure. Downy mildew incidence was generally low (0–6%), with slightly higher levels in local varieties, indicating localized susceptibility. Rust emerged as the dominant disease, with incidence ranging from 0 to 12%, and highest severity observed in Coimbatore and Erode, followed by moderate levels in cuddalore. Blast incidence remained moderate and relatively stable (2–5 grade score), with slightly higher expression in local cultivars compared to private and improved hybrids. Ergot and smut were completely absent across all locations. Overall, rust was the primary constraint followed by moderate blast occurrence, while other diseases remained negligible, highlighting the need for targeted rust and blast management strategies (Table IV.16G).

Table IV.B: An Overview of Downy Mildew Disease Reaction of Initial Pearl Millet Hybrids and Varieties at Different Centres - PMPT I

Range of DM incidence (%)	Zone A									Zone B								
	MDR		JPR		HSR		JMR		GJR		MYS		DHL		ABD1		CBE	
	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS
>0–5	113	102	111	100	109	107	111	98	114	112	110	94	99	99	110	108	114	114
>5–10	1	12	2	3	4	3	3	8	0	2	3	17	11	11	4	5	0	0
>10–25	0	0	1	1	1	4	0	7	0	0	1	2	2	2	0	1	0	0
>25	0	0	0	0	0	0	0	1	0	0	0	1	2	2	0	0	0	0

Table IV. C: An Overview of Downy Mildew Disease Reaction of Advanced Pearl Millet Hybrids and Varieties at Different Centres - PMPT II

Range of DM incidence (%)	Zone A									Zone B								
	MDR		JPR		HSR		JMR		GLR		MYS		DHL		ABD		CBE	
	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS
>0–5	48	41	33	30	53	44	50	41	53	55	27	32	22	26	25	45	43	45
>5–10	6	5	10	9	2	2	4	3	1	1	12	9	11	13	14	1	2	0
>10–25	1	0	9	5	0	0	1	2	0	0	11	5	11	4	4	0	1	0
>25	0	0	3	2	0	0	0	0	0	0	5	0	2	2	2	0	0	0

Table IV.D: An Overview of Downy Mildew Disease Reaction of Initial Pearl Millet Hybrids and Varieties at Different Centres - PMPT III

Range of DM incidence (%)	Zone A									Zone B								
	MDR		**JPR**		**HSR**		**JMR**		**GLR**		**MYS**		**DHL**		**ABD1**		**CBE**	
	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS	30 DAS	60 DAS
>0–5	37	36	34	34	36	36	37	32	30	28	37	37	37	36	29	29	36*	36*
>5–10	0	1	3	3	1	1	0	3	7	9	0	0	0	1	8	8	0	0
>10–25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
>25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table IV.E: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) at 60 DAS-Kharif 2025

Centre	HR (0)	R (0.1–3)	MR (>3–5)	S (>5–7)	HS (>7–9)	HR %	R%	MR %	S%	HS%
Zone A										
MDR	71	31	4	0	0	67	29.2	3.8	0	0
JPR	3	95	7	0	0	2.8	89.6	6.6	0	0
HSR	0	100	2	4	0	0	94.3	1.9	3.8	0
JMR	45	48	9	2	0	42.5	45.3	8.5	1.9	0
GLR	19	87	0	0	0	17.9	82.1	0	0	0
Zone B										
MYS	19	80	7	0	0	17.9	75.5	6.6	0	0
ABD1	24	78	3	0	0	22.6	73.6	2.8	0	0
DHL	33	56	12	4	0	31.1	52.8	11.3	3.8	0
CBE	84	17	3	0	0	79.2	16	2.8	0	0

Table IV.F: Disease screening of Advanced Pearl Millet Hybrids and Varieties (PMPT II): Blast (0-9 scale) at 60 DAS-Kharif 2025										
Centre	**HR (0)**	**R (0.1–3)**	**MR (>3–5)**	**S (>5–7)**	**HS (>7–9)**	**HR %**	**R%**	**MR %**	**S%**	**HS %**
Zone A										
MDR	17	26	7	3	0	31.5	48.1	13	5.6	0
JPR	2	39	10	2	0	3.7	72.2	18.5	3.7	0
HSR	0	34	14	5	0	0	63	25.9	9.3	0
JMR	14	27	9	3	0	25.9	50	16.7	5.6	0
GLR	9	40	4	0	0	16.7	74.1	7.4	0	0
Zone B										
MYS	6	37	10	0	0	11.1	68.5	18.5	0	0
ABD1	18	28	7	0	0	33.3	51.9	13	0	0
DHL	6	26	14	7	0	11.1	48.1	25.9	13	0
CBE	32	15	6	0	0	59.3	27.8	11.1	0	0
PTR	0	6	34	13	0	0	11.1	63	24.1	0

Table IV.G: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 Scale) at 60 DAS-*Kharif* 2025										
Centre	**HR (0)**	**R (0.1–3)**	**MR (>3–5)**	**S (>5–7)**	**HS (>7–9)**	**HR %**	**R%**	**MR %**	**S%**	**HS %**
Zone A										
Centre	**HR**	**R**	**MR**	**S**	**HS**	**HR %**	**R%**	**MR %**	**S%**	**HS %**
MDR	17	21	6	2	0	36.2	44.7	12.8	4.3	0
JPR	0	36	9	2	0	0	76.6	19.1	4.3	0
HSR	0	32	10	5	0	0	68.1	21.3	10.6	0
JMR	12	20	9	6	0	25.5	42.6	19.1	12.8	0
GLR	10	28	9	0	0	21.3	59.6	19.1	0	0
Zone B										
MYS	3	29	14	1	0	6.4	61.7	29.8	2.1	0
ABD1	12	27	8	0	0	25.5	57.4	17	0	0
DHL	2	15	18	12	0	4.3	31.9	38.3	25.5	0
CBE	28	13	6	0	0	59.6	27.7	12.8	0	0

Disease categorizations criteria for Pearl Millet diseases

Category	Downy Mildew (%)	Blast (0–9 scale)	Rust (%)	Smut (%)	Ergot (%)
Highly Resistant (HR)	0	0	0	0	0
Resistant (R)	0–5%	0.1–3	0–20%	0–20%	0–20%
Moderately Resistant (MR)	5–10%	>3–5	–	–	–
Susceptible (S)	10–25%	>5–7	20–40%	20–40%	20–40%
Highly Susceptible (HS)	>25%	>7–9	>40%	>40%	>40%

Table IV.1: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 30 DAS-*Kharif* 2025

Project Code	Entry Name	Mandoor	Jaipur	Hisar	Jamnagar	Gwalior	Mysore	Dhule	Aurangabad	Coimbatoor	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**72.6**	**80.0**	**96.8**	**71.2**	**70.0**	**83.2**	**91.2**	**83.8**	**85.3**	83.1	**78.1**	**85.9**	**81.6**	**96.8**
IRII	**7042S**	**71.2**	**66.7**	**97.1**	**63.8**	**67.7**	**79.1**	**59.2**	**84.6**	**84.4**	78.3	**73.3**	**76.8**	**74.9**	**97.1**
PIT 101	MH 2887	2.3	3.1	0.0	0.0	0.0	5.3	8.5	0.0	0.0	1.8	1.1	3.5	2.1	8.5
PIT 102	MH 2888	1.6	1.3	2.2	0.0	0.0	6.2	7.5	0.0	5.9	1.7	1.0	4.9	2.7	7.5
PIT 103	MH 2889	0.0	2.7	0.0	0.0	0.0	5.1	4.4	0.0	0.0	0.9	0.5	2.4	1.4	5.1
PIT 104	MH 2890	1.6	0.0	0.0	0.0	1.2	4.5	4.2	0.0	0.0	0.5	0.6	2.2	1.3	4.5
PIT 105	MH 2891	3.6	10.4	0.0	6.6	0.0	7.1	10.8	0.0	0.0	4.7	4.1	4.5	4.3	10.8
IR I	**7042S**	**72.4**	**83.3**	**96.4**	**67.7**	**71.0**	**80.8**	**82.0**	**83.8**	**76.8**	84.1	**78.2**	**80.8**	**79.4**	**96.4**
IRII	**7042S**	**71.2**	**80.6**	**90.3**	**63.2**	**68.2**	**72.1**	**46.7**	**82.5**	**78.3**	80.7	**74.7**	**69.9**	**72.6**	**90.3**
PIT 106	MH 2892	1.9	3.8	0.0	0.0	0.0	4.0	1.5	2.7	0.0	1.9	1.1	2.0	1.5	4.0
PIT 107	MH 2893	0.0	0.0	0.0	0.0	1.6	5.3	11.8	0.0	0.0	0.0	0.3	4.3	2.1	11.8
PIT 108	MH 2894	1.7	0.0	0.0	0.0	0.0	4.8	12.9	0.0	0.0	0.6	0.3	4.4	2.2	12.9
PIT 109	MH 2895	1.7	0.0	0.0	0.0	0.0	4.0	4.2	0.0	0.0	0.6	0.3	2.0	1.1	4.2
PIT 110	MH 2896	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.2	1.0
IR I	**7042S**	**71.8**	**86.7**	**97.2**	**70.0**	**71.7**	**83.1**	**90.2**	**83.8**	**76.9**	85.2	**79.5**	**83.5**	**81.3**	**97.2**
IRII	**7042S**	**70.8**	**78.6**	**82.9**	**68.1**	**69.5**	**72.5**	**58.7**	**78.7**	**73.1**	77.4	**74.0**	**70.7**	**72.5**	**82.9**
PIT 111	MH 2897	1.6	0.0	0.0	1.6	0.0	2.4	3.6	0.0	0.0	0.5	0.6	1.5	1.0	3.6
PIT 112	MH 2898	0.0	0.0	0.0	0.0	12.5	1.2	0.0	0.0	0.0	0.0	2.5	0.3	1.5	12.5
PIT 113	MH 2899	2.2	12.5	0.0	0.0	0.0	3.1	0.0	0.0	0.0	4.9	2.9	0.8	2.0	12.5
PIT 114	MH 2900	0.0	0.0	4.9	0.0	2.1	1.4	0.0	0.0	0.0	1.6	1.4	0.4	0.9	4.9
PIT 115	MH 2901	2.4	5.3	9.4	0.0	1.5	2.6	0.0	0.0	0.0	5.7	3.7	0.7	2.3	9.4
IR I	**7042S**	**72.4**	**71.3**	**100.0**	**75.5**	**68.2**	**78.1**	**79.4**	**81.3**	**77.2**	81.2	**77.5**	**79.0**	**78.2**	**100.0**
IRII	**7042S**	**71.4**	**70.7**	**83.3**	**65.5**	**64.0**	**77.2**	**53.7**	**78.8**	**73.8**	75.2	**71.0**	**70.9**	**70.9**	**83.3**
PIT 116	MH 2902	2.3	16.0	3.3	3.3	0.0	3.4	8.6	6.6	0.0	7.2	5.0	4.7	4.8	16.0
PIT 117	MH 2903	2.5	0.0	0.0	0.0	0.0	3.0	1.2	0.0	0.0	0.8	0.5	1.0	0.7	3.0
PIT 118	MH 2904	0.0	2.6	2.6	0.0	0.0	4.4	14.0	1.3	0.0	1.7	1.0	4.9	2.8	14.0
PIT 119	MH 2905	1.9	10.0	0.0	0.0	0.0	4.1	2.9	0.0	0.0	4.0	2.4	1.7	2.1	10.0
PIT 120	MH 2906	0.0	0.0	0.0	3.5	0.0	2.1	5.8	0.0	0.0	0.0	0.7	2.0	1.3	5.8
IR I	**7042S**	**72.6**	**82.8**	**93.3**	**72.5**	**69.1**	**83.5**	**89.1**	**78.8**	**81.4**	82.9	**78.0**	**83.2**	**80.3**	**93.3**
IR II	**7042S**	**70.7**	**76.5**	**75.7**	**61.7**	**67.1**	**72.3**	**44.8**	**83.1**	**77.4**	74.3	**70.3**	**69.4**	**69.9**	**76.5**
PIT 121	MH 2907	1.5	0.0	0.0	0.0	0.0	4.1	5.6	3.9	0.0	0.5	0.3	3.4	1.7	5.6
PIT 122	MH 2908	0.0	0.0	0.0	0.0	0.0	3.4	4.1	0.0	0.0	0.0	0.0	1.9	0.8	4.1
PIT 123	MH 2909	2.4	19.4	0.0	0.0	0.0	8.7	20.0	6.6	0.0	7.3	4.4	8.8	6.3	20.0

Table IV.1: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 30 DAS-*Kharif* 2025

Project Code	Entry Name	Mandoor	Jaipur	Hisar	Jamnagar	Gwalior	Mysore	Dhule	Aurangabad	Coimbatoor	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 124	MH 2910	1.8	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.6	0.4	0.3	0.3	1.8
PIT 125	MH 2911	0.0	0.0	0.0	2.2	0.0	3.4	5.8	0.0	0.0	0.0	0.4	2.3	1.3	5.8
IR I	**7042S**	**71.2**	**76.3**	**95.0**	**69.6**	**69.3**	**82.1**	**88.7**	**81.3**	**78.1**	80.8	**76.3**	**82.6**	**79.1**	**95.0**
IR II	**7042S**	**70.7**	**77.5**	**89.4**	**57.4**	**68.1**	**72.4**	**54.2**	**79.5**	**79.1**	79.2	**72.6**	**71.3**	**72.0**	**89.4**
PIT 126	MH 2912	1.6	1.4	0.0	0.0	0.0	2.3	19.0	0.0	0.0	1.0	0.6	5.3	2.7	19.0
PIT 127	MH 2913	2.0	0.0	0.0	0.0	0.0	2.7	17.9	2.6	0.0	0.7	0.4	5.8	2.8	17.9
PIT 128	MH 2914	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.3
PIT 129	MH 2915	1.9	2.7	0.0	0.0	0.0	2.5	2.5	0.0	0.0	1.5	0.9	1.3	1.1	2.7
PIT 130	MH 2916	2.3	0.0	0.0	0.0	0.0	3.0	0.0	2.7	0.0	0.8	0.5	1.4	0.9	3.0
IR I	**7042S**	**71.2**	**90.0**	**100.0**	**71.4**	**67.4**	**87.2**	**93.6**	**83.8**	**76.6**	87.1	**80.0**	**85.3**	**82.4**	**100.0**
IR II	**7042S**	**70.5**	**66.7**	**93.3**	**62.7**	**68.5**	**72.4**	**55.7**	**81.0**	**75.0**	76.8	**72.3**	**71.0**	**71.8**	**93.3**
PIT 131	MH 2917	2.7	1.3	0.0	0.0	0.0	2.1	0.0	0.0	0.0	1.3	0.8	0.5	0.7	2.7
PIT 132	MH 2918	2.3	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.8	0.5	0.6	0.5	2.3
PIT 133	MH 2919	0.0	0.0	0.0	0.0	0.0	3.1	2.8	0.0	0.0	0.0	0.0	1.5	0.7	3.1
PIT 134	MH 2920	2.1	60.0	0.0	2.8	0.0	48.4	54.3	1.3	0.0	20.7	13.0	26.0	18.8	60.5
PIT 135	MH 2921	3.5	0.0	0.0	0.0	0.0	4.9	11.7	5.1	0.0	1.2	0.7	5.4	2.8	11.7
IR I	**7042S**	**71.2**	**71.3**	**94.7**	**69.4**	**70.1**	**85.2**	**90.2**	**88.8**	**79.3**	79.1	**75.3**	**85.9**	**80.0**	**94.7**
IR II	**7042S**	**70.9**	**66.5**	**93.3**	**67.2**	**69.2**	**78.1**	**44.9**	**80.0**	**78.0**	76.9	**73.4**	**70.3**	**72.0**	**93.3**
PIT 136	MH 2922	4.0	2.6	0.0	0.0	0.0	4.1	11.0	1.3	0.0	2.2	1.3	4.1	2.6	11.0
PIT 137	MH 2923	0.0	1.4	0.0	0.0	0.0	3.2	13.8	2.6	0.0	0.5	0.3	4.9	2.3	13.8
PIT 138	MH 2924	3.5	0.0	0.0	4.9	0.0	4.1	3.2	0.0	0.0	1.2	1.7	1.8	1.7	4.9
PIT 139	MH 2925	0.0	3.8	0.0	2.9	0.0	3.6	8.2	2.6	0.0	1.3	1.3	3.6	2.3	8.2
PIT 140	MH 2926	1.5	2.9	0.0	4.2	0.0	4.8	6.0	12.0	0.0	1.4	1.7	5.7	3.5	12.0
IR I	**7042S**	**71.8**	**75.0**	**100.0**	**67.7**	**71.1**	**89.1**	**80.0**	**81.3**	**78.1**	82.3	**77.1**	**82.1**	**79.3**	**100.0**
IR II	**7042S**	**71.4**	**66.5**	**79.6**	**55.4**	**65.0**	**76.0**	**67.9**	**80.0**	**76.2**	72.5	**67.6**	**75.0**	**70.9**	**79.6**
PIT 141	MH 2927	3.0	8.8	0.0	0.0	0.0	5.3	3.5	0.0	0.0	3.9	2.3	2.2	2.3	8.8
PIT 142	MH 2928	1.5	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.5	0.3	0.3	0.3	1.5
PIT 143	MH 2929	1.6	0.0	0.0	0.0	0.0	1.5	1.3	0.0	0.0	0.5	0.3	0.7	0.5	1.6
PIT 144	MH 2930	1.5	0.0	0.0	0.0	0.0	2.0	0.0	2.6	0.0	0.5	0.3	1.2	0.7	2.6
PIT 145	MH 2931	2.0	3.8	0.0	3.3	0.0	3.1	11.9	10.0	2.9	1.9	1.8	7.0	4.1	11.9

Table IV.1: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 30 DAS-*Kharif* 2025

Project Code	Entry Name	Mandoor	Jaipur	Hisar	Jamnagar	Gwalior	Mysore	Dhule	Aurangabad	Coimbatoor	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**70.7**	**86.7**	**83.9**	**73.8**	**74.1**	**85.2**	**85.0**	**83.3**	**76.2**	80.4	**77.8**	**82.4**	**79.9**	**86.7**
IR II	**7042S**	**69.6**	**72.7**	**81.0**	**52.5**	**67.3**	**71.8**	**65.6**	**83.8**	**77.1**	74.4	**68.6**	**74.6**	**71.3**	**81.0**
PIT 146	MH 2932	4.0	1.3	0.0	0.0	0.0	4.1	14.4	0.0	2.8	1.8	1.1	5.3	3.0	14.4
PIT 147	MH 2933	0.0	3.8	0.0	0.0	0.0	4.5	11.5	0.0	0.0	1.3	0.8	4.0	2.2	11.5
PIT 148	MH 2934	2.1	13.9	0.0	3.2	0.0	8.0	10.3	0.0	0.0	5.3	3.8	4.6	4.2	13.9
PIT 149	MH 2935	0.0	0.0	0.0	0.0	0.0	3.1	15.0	0.0	0.0	0.0	0.0	4.5	2.0	15.0
PIT 150	MH 2936	3.6	7.5	0.0	7.6	0.0	8.4	34.7	2.6	1.4	3.7	3.7	11.8	7.3	34.7
IR I	**7042S**	**71.2**	**70.3**	**93.9**	**70.2**	**69.6**	**89.1**	**91.8**	**88.8**	**75.6**	78.5	**75.0**	**86.3**	**80.1**	**93.9**
IR II	**7042S**	**71.0**	**68.5**	**88.9**	**61.4**	**68.4**	**76.4**	**70.8**	**79.2**	**72.5**	76.1	**71.6**	**74.7**	**73.0**	**88.9**
PIT 151	MH 2937	3.5	2.7	7.0	0.0	0.0	8.3	12.0	0.0	2.9	4.4	2.6	5.8	4.0	12.0
PIT 152	MH 2938	1.7	0.0	0.0	1.6	0.0	2.1	1.0	0.0	0.0	0.6	0.7	0.8	0.7	2.1
PIT 153	MH 2939	2.3	0.0	0.0	0.0	0.0	3.7	9.7	0.0	0.0	0.8	0.5	3.4	1.7	9.7
PIT 154	MH 2940	2.3	8.8	0.0	9.6	0.0	8.4	13.0	0.0	0.0	3.7	4.1	5.4	4.7	13.0
PIT 155	MH 2941	1.9	18.4	0.0	1.6	0.0	8.7	7.9	6.4	0.0	6.8	4.4	5.8	5.0	18.4
IR I	**7042S**	**71.0**	**76.3**	**93.3**	**72.1**	**67.9**	**89.2**	**87.1**	**82.5**	**75.7**	80.2	**76.1**	**83.6**	**79.5**	**93.3**
IR II	**7042S**	**70.3**	**77.5**	**91.7**	**56.6**	**62.9**	**77.2**	**59.0**	**86.3**	**74.4**	79.8	**71.8**	**74.2**	**72.9**	**91.7**
PIT 156	MH 2942	3.2	2.9	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	1.2	0.3	0.8	3.2
PIT 157	MH 2943	2.3	2.5	0.0	0.0	0.0	2.3	11.0	0.0	1.4	1.6	1.0	3.7	2.2	11.0
PIT 158	MH 2944	2.2	1.3	0.0	1.8	0.0	3.1	5.6	0.0	0.0	1.1	1.0	2.2	1.6	5.6
PIT 159	MH 2945	0.0	2.5	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.8	0.5	0.3	0.4	2.5
PIT 160	MH 2946	0.0	1.3	0.0	0.0	0.0	3.2	5.2	0.0	0.0	0.4	0.3	2.1	1.1	5.2
IR I	**7042S**	**71.8**	**75.0**	**90.0**	**68.1**	**69.2**	**84.3**	**81.2**	**77.5**	**76.1**	78.9	**74.8**	**79.8**	**77.0**	**90.0**
IR II	**7042S**	**70.5**	**70.3**	**100.0**	**65.6**	**68.1**	**78.1**	**50.6**	**81.3**	**83.0**	80.3	**74.9**	**73.2**	**74.2**	**100.0**
PIT 161	MH 2947	1.7	6.3	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.6	1.6	0.3	1.0	6.3
PIT 162	MH 2948	2.0	1.3	0.0	0.0	0.0	1.0	1.1	0.0	0.0	1.1	0.7	0.5	0.6	2.0
PIT 163	MH 2949	2.5	6.3	0.0	1.9	1.3	5.4	16.5	0.0	0.0	2.9	2.4	5.5	3.8	16.5
PIT 164	MH 2950	2.0	1.3	0.0	0.0	0.0	2.4	2.6	0.0	0.0	1.1	0.7	1.3	0.9	2.6
PIT 165	MH 2951	0.0	1.3	0.0	0.0	0.0	2.0	1.2	0.0	0.0	0.4	0.3	0.8	0.5	2.0
IR I	**7042S**	**70.7**	**69.7**	**95.8**	**71.2**	**70.0**	**88.4**	**95.1**	**77.5**	**77.2**	78.7	**75.5**	**84.5**	**79.5**	**95.8**
IR II	**7042S**	**70.7**	**60.1**	**91.7**	**62.5**	**64.3**	**72.1**	**56.9**	**80.0**	**78.3**	74.2	**69.9**	**71.8**	**70.7**	**91.7**
PIT 166	MH 2952	1.6	6.3	0.0	0.0	0.0	4.0	5.0	0.0	0.0	2.6	1.6	2.2	1.9	6.3
PIT 167	MH 2953	1.7	0.0	0.0	0.0	0.0	2.6	2.2	0.0	0.0	0.6	0.3	1.2	0.7	2.6
PIT 168	MH 2954	3.7	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.2	0.7	0.5	0.6	3.7

Table IV.1: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 30 DAS-*Kharif* 2025

Project Code	Entry Name	Mandoor	Jaipur	Hisar	Jamnagar	Gwalior	Mysore	Dhule	Aurangabad	Coimbatoor	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 169	MH 2955	0.0	2.5	0.0	0.0	0.0	1.2	10.3	0.0	0.0	0.8	0.5	2.9	1.6	10.3
PIT 170	MH 2956	3.2	2.5	0.0	4.6	0.0	3.2	2.3	0.0	0.0	1.9	2.1	1.4	1.8	4.6
IR I	**7042S**	**71.0**	**71.3**	**91.8**	**67.9**	**67.5**	**85.2**	**91.8**	**80.0**	**72.7**	78.0	**73.9**	**82.4**	**77.7**	**91.8**
IR II	**7042S**	**70.3**	**70.7**	**89.1**	**64.2**	**67.8**	**75.7**	**50.8**	**81.3**	**75.9**	76.7	**72.4**	**70.9**	**71.8**	**89.1**
PIT 171	MP 652	3.2	3.8	0.0	0.0	0.0	4.0	8.3	0.0	0.0	2.3	1.4	3.1	2.1	8.3
PIT 172	MP 653	3.0	10.0	6.1	0.0	0.0	3.2	6.1	0.0	0.0	6.4	3.8	2.3	3.2	10.0
PIT 173	MP 654	1.8	7.5	2.0	9.8	0.0	4.7	8.9	0.0	0.0	3.8	4.2	3.4	3.9	9.8
PIT 174	MP 655	0.0	0.0	0.0	0.0	0.0	4.8	4.4	1.3	0.0	0.0	0.0	2.6	1.2	4.8
PIT 175	MP 656	1.6	17.3	0.0	0.0	0.0	9.0	15.7	0.0	0.0	6.3	3.8	6.2	4.8	17.3
IR I	**7042S**	**71.7**	**76.3**	**96.1**	**74.6**	**68.4**	**88.4**	**77.4**	**77.5**	**74.6**	81.3	**77.4**	**79.5**	**78.3**	**96.1**
IR II	**7042S**	**71.0**	**77.5**	**87.8**	**58.2**	**67.9**	**78.3**	**48.3**	**81.3**	**73.4**	**78.8**	**72.5**	**70.3**	**71.5**	**87.8**
PIT 176	MP 657	2.8	6.3	0.0	0.0	0.0	5.0	5.6	0.0	0.0	**3.0**	1.8	2.7	2.2	6.3
PIT 177	MP 658	2.0	10.0	0.0	1.7	0.0	11.0	9.4	0.0	0.0	**4.0**	2.7	5.1	3.8	11.0
PIT 178	MP 659	4.4	2.5	0.0	3.3	0.0	6.0	5.9	0.0	0.0	**2.3**	2.0	3.0	2.4	6.0
PIT 179	MP 660	0.0	0.0	0.0	2.2	0.0	3.0	1.7	0.0	0.0	**0.0**	0.4	1.2	0.8	3.0
PIT 180	MP 661	0.0	1.4	0.0	1.8	0.0	4.0	5.6	0.0	0.0	**0.5**	0.6	2.4	1.4	5.6
IR I	**7042S**	**71.2**	**76.0**	**91.7**	**72.9**	**69.2**	**89.7**	**90.5**	**78.8**	**74.6**	**79.6**	**76.2**	**83.4**	**79.4**	**90.5**
IR II	**7042S**	**70.5**	**72.7**	**93.8**	**67.4**	**68.6**	**73.4**	**55.7**	**83.3**	**72.9**	**79.0**	**74.6**	**71.3**	**73.1**	**93.8**
PIT 181	PB 1756	2.1	2.5	0.0	0.0	0.0	4.0	3.8	0.0	0.0	**1.5**	0.9	2.0	1.4	4.0
PIT 182	RHB 223	0.0	0.0	0.0	NG	0.0	1.0	NG	1.3	NG	**0.0**	0.0	1.2	0.4	1.3
PIT 183	MPMH 35	0.0	16.3	0.0	3.3	0.0	11.7	10.1	0.0	0.0	**5.4**	3.9	5.5	4.6	16.3
PIT 184	HHB 67 Im	0.0	7.5	0.0	0.0	0.0	5.0	3.0	0.0	0.0	**2.5**	1.5	2.0	1.7	7.5
PIT 185	PB 1852	1.8	0.0	0.0	0.0	0.0	3.0	1.6	0.0	0.0	**0.6**	0.4	1.1	0.7	3.0
IR I	**7042S**	**72.4**	**75.9**	**94.2**	**71.9**	**71.2**	**79.3**	**82.9**	**81.3**	**75.8**	**80.8**	**77.1**	**79.8**	**78.3**	**94.2**
IR II	**7042S**	**71.2**	**70.3**	**88.9**	**65.4**	**68.1**	**71.0**	**55.7**	**82.5**	**73.1**	**76.8**	**72.8**	**70.6**	**71.8**	**88.9**
PIT 186	86M94	1.3	0.0	0.0	0.0	0.0	3.0	5.1	0.0	0.0	**0.4**	0.3	2.0	1.0	5.1
PIT 187	DHBH 139	1.3	2.5	0.0	2.8	0.0	4.4	9.0	0.0	0.0	**1.3**	1.3	3.3	2.2	9.0
PIT 188	AHB 1269	0.0	1.3	0.0	0.0	0.0	1.0	1.3	0.0	0.0	**0.4**	0.3	0.6	0.4	1.3
PIT 189	Pratap	2.8	18.0	0.0	1.5	0.0	12.0	13.5	11.3	0.0	**6.9**	4.5	9.2	6.6	20.0
PIT 190	86M01	1.4	3.0	0.0	0.0	0.0	9.0	13.2	3.8	0.0	**1.5**	0.9	6.5	3.4	13.2
IR I	**7042S**	**72.4**	**70.3**	**96.6**	**72.7**	**72.0**	**81.8**	**73.3**	**87.5**	**77.5**	**79.7**	**76.8**	**80.0**	**78.2**	**96.6**
IR II	**7042S**	**71.1**	**68.5**	**83.7**	**66.7**	**67.2**	**70.0**	**60.3**	**76.3**	**75.7**	**74.4**	**71.4**	**70.6**	**71.1**	**83.7**
PIT 191	86M84	0.0	0.0	0.0	1.6	0.0	1.0	0.0	0.0	0.0	**0.0**	0.3	0.3	0.3	1.6

Table IV.1: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 30 DAS-*Kharif* 2025

Project Code	Entry Name	Mandoor	Jaipur	Hisar	Jamnagar	Gwalior	Mysore	Dhule	Aurangabad	Coimbatoor	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 192	KBH 108	0.0	3.8	0.0	0.0	0.0	2.0	0.0	0.0	0.0	**1.3**	0.8	0.5	0.6	3.8
PIT 193	MP 7878	2.1	0.0	0.0	0.0	0.0	1.5	1.1	0.0	0.0	**0.7**	0.4	0.7	0.5	2.1
PIT 194	86M86	2.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	**0.7**	0.4	0.3	0.3	2.1
PIT 195	Kaveri S Bc	0.0	1.8	0.0	2.2	0.0	2.3	0.0	0.0	0.0	**0.6**	0.8	0.6	0.7	36.9
IR I	**7042S**	**72.4**	**76.3**	**72.9**	**70.7**	**69.8**	**83.1**	**81.7**	**80.0**	**73.5**	**73.9**	**72.4**	**79.6**	**75.6**	**83.1**
IR II	**7042S**	**71.2**	**77.5**	**82.5**	**60.6**	**69.3**	**74.2**	**49.2**	**77.5**	**80.0**	**77.1**	**72.2**	**70.2**	**71.3**	**82.5**
PIT 196	NBH 4903	2.8	2.5	0.0	0.0	0.0	2.0	2.9	0.0	0.0	**1.8**	1.1	1.2	1.1	2.9
PIT 197	AHB 1200	1.8	0.0	0.0	0.0	0.0	3.0	5.9	0.0	0.0	**0.6**	0.4	2.2	1.2	5.9
PIT 198	Raj 171	0.0	8.7	0.0	0.0	0.0	2.1	5.0	0.0	0.0	**2.9**	1.7	1.8	1.8	8.7
PIT 199	JBV 2	4.0	8.8	0.0	0.0	0.0	4.2	5.1	1.3	0.0	**4.3**	2.6	2.7	2.6	8.8
PIT 100	Dhanshakti	4.6	3.8	0.0	2.7	0.0	6.1	8.4	1.3	0.0	**2.8**	2.2	4.0	3.0	8.4
IR I	**7042S**	**70.8**	**78.3**	**90.0**	**70.2**	**69.3**	**88.2**	**90.9**	**78.8**	**75.7**	**79.7**	**75.7**	**83.4**	**79.1**	**90.9**
IR II	**7042S**	**70.3**	**75.5**	**90.0**	**61.1**	**66.2**	**78.2**	**62.1**	**81.3**	**70.6**	**78.6**	**72.6**	**73.0**	**72.8**	**90.0**
PIT 201	ICMV 221	3.3	1.4	0.0	1.6	0.0	8.1	9.9	0.0	0.0	**1.6**	1.3	4.5	2.7	9.9
PIT 202	Pusa Comp	3.3	1.3	0.0	1.8	0.0	8.5	8.4	0.0	0.0	**1.5**	1.3	4.2	2.6	8.5
PIT 203	Pusa Comp	0.0	3.8	0.0	0.0	0.0	4.3	12.6	1.3	0.0	**1.3**	0.8	4.6	2.4	12.6
PIT 204	ABV 04	1.7	2.5	0.0	0.0	0.0	2.0	2.3	0.0	0.0	**1.4**	0.8	1.1	0.9	2.5
PIT 205	Pusa Comp	0.0	4.8	0.0	1.6	0.0	6.0	13.5	0.0	0.0	**1.6**	1.3	4.9	2.9	13.5
PIT 206	ICMV 155	4.2	6.3	0.0	0.0	0.0	9.5	16.3	5.0	0.0	**3.5**	2.1	7.7	4.6	16.3
IR I	**7042S**	**71.2**	**76.3**	**92.3**	**69.7**	**70.1**	**84.2**	**85.3**	**80.0**	**75.1**	**79.9**	**75.9**	**81.1**	**78.2**	**92.3**
IR II	**7042S**	**70.4**	**71.5**	**91.7**	**56.9**	**69.2**	**78.1**	**53.7**	**81.5**	**70.2**	**77.9**	**71.9**	**70.9**	**71.5**	**91.7**
	Mean Entries	**2.2**	**5.8**	**1.1**	**1.9**	**0.3**	**4.8**	**10.9**	**2.6**	**0.9**	**3.0**	**2.3**	**4.8**	**3.4**	**10.9**
	Mean IR I	**71.6**	**79.4**	**94.5**	**71.6**	**69.9**	**85.3**	**87.0**	**82.4**	**77.6**	**81.8**	**77.4**	**83.1**	**79.9**	**94.5**
	Mean IR II	**70.8**	**72.1**	**88.0**	**61.9**	**67.3**	**76.4**	**58.9**	**81.0**	**76.7**	**77.0**	**72.0**	**73.3**	**72.6**	**88.0**

Table IV.2: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**100.0**	**84.0**	**96.8**	**93.2**	**76.2**	**98.7**	**91.2**	**96.3**	**94.1**	**93.6**	**90.0**	**95.1**	**92.3**	**100.0**
IRII	**7042S**	**100.0**	**73.3**	**97.1**	**81.0**	**71.8**	**90.3**	**75.0**	**88.5**	**90.6**	**90.1**	**84.6**	**86.1**	**85.3**	**100.0**
PIT 101	MH 2887	4.6	3.1	0.0	0.0	0.0	9.0	50.0	0.0	0.0	2.5	1.5	14.8	7.4	50.0
PIT 102	MH 2888	4.9	1.3	4.4	0.0	0.0	8.7	7.5	0.0	7.4	3.5	2.1	5.9	3.8	8.7
PIT 103	MH 2889	3.5	5.4	0.0	0.0	0.0	6.0	4.4	0.0	0.0	3.0	1.8	2.6	2.1	6.0
PIT 104	MH 2890	3.2	0.0	0.0	0.0	0.0	7.3	4.2	0.0	0.0	1.1	0.6	2.9	1.6	7.3
PIT 105	MH 2891	7.1	13.4	2.6	14.8	0.0	8.0	75.7	6.3	1.6	7.7	7.6	22.9	14.4	75.7
IR I	**7042S**	**100.0**	**83.3**	**96.4**	**92.3**	**75.2**	**98.9**	**91.8**	**88.8**	**81.4**	**93.2**	**89.4**	**90.2**	**89.8**	**100.0**
IRII	**7042S**	**100.0**	**80.6**	**93.5**	**79.4**	**73.5**	**97.0**	**63.3**	**88.8**	**87.8**	**91.4**	**85.4**	**84.2**	**84.9**	**100.0**
PIT 106	MH 2892	3.8	5.0	0.0	0.0	0.0	6.0	1.5	4.0	0.0	2.9	1.8	2.9	2.2	6.0
PIT 107	MH 2893	1.8	0.0	0.0	0.0	0.0	7.2	11.8	0.0	0.0	0.6	0.4	4.7	2.3	11.8
PIT 108	MH 2894	3.3	0.0	0.0	0.0	0.0	11.0	12.9	0.0	0.0	1.1	0.7	6.0	3.0	12.9
PIT 109	MH 2895	3.3	0.0	0.0	0.0	0.0	4.8	4.2	0.0	0.0	1.1	0.7	2.2	1.4	4.8
PIT 110	MH 2896	3.5	0.0	0.0	0.0	0.0	4.3	1.0	0.0	0.0	1.2	0.7	1.3	1.0	4.3
IR I	**7042S**	**100.0**	**93.3**	**97.2**	**78.6**	**77.2**	**99.0**	**95.1**	**97.5**	**86.4**	**96.9**	**89.3**	**94.5**	**91.6**	**100.0**
IRII	**7042S**	**100.0**	**78.6**	**90.2**	**77.8**	**73.2**	**95.7**	**65.1**	**84.0**	**82.1**	**89.6**	**84.0**	**81.7**	**83.0**	**100.0**
PIT 111	MH 2897	3.1	0.0	0.0	1.6	1.5	4.0	3.6	0.0	0.0	1.0	1.2	1.9	1.5	4.0
PIT 112	MH 2898	4.8	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	1.6	1.0	1.1	1.0	4.8
PIT 113	MH 2899	6.5	12.5	0.0	0.0	0.0	3.9	0.0	0.0	0.0	6.3	3.8	1.0	2.5	12.5
PIT 114	MH 2900	2.5	0.0	4.9	0.0	0.0	3.0	0.0	0.0	0.0	2.5	1.5	0.8	1.2	4.9
PIT 115	MH 2901	7.1	5.3	15.6	4.6	1.5	4.1	4.8	0.0	0.0	9.3	6.8	2.2	4.8	15.6
IR I	**7042S**	**100.0**	**76.3**	**100.0**	**93.9**	**76.0**	**98.9**	**92.1**	**90.0**	**88.6**	**92.1**	**89.2**	**92.4**	**90.6**	**100.0**
IRII	**7042S**	**100.0**	**77.5**	**88.1**	**76.4**	**74.0**	**97.0**	**77.6**	**87.5**	**86.8**	**88.5**	**83.2**	**87.2**	**85.0**	**100.0**
PIT 116	MH 2902	7.0	16.0	3.3	4.9	3.1	14.2	12.4	13.2	0.0	8.8	6.9	9.9	8.2	16.0
PIT 117	MH 2903	5.0	0.0	0.0	0.0	0.0	5.2	1.2	0.0	1.4	1.7	1.0	1.9	1.4	5.2
PIT 118	MH 2904	4.6	2.6	2.6	0.0	0.0	5.4	14.0	3.8	0.0	3.2	1.9	5.8	3.7	14.0
PIT 119	MH 2905	5.8	13.3	0.0	0.0	0.0	7.0	2.9	0.0	0.0	6.4	3.8	2.5	3.2	13.3
PIT 120	MH 2906	4.4	0.0	0.0	3.5	0.0	7.3	5.8	0.0	0.0	1.5	1.6	3.3	2.3	7.3
IR I	**7042S**	**100.0**	**82.8**	**93.3**	**96.1**	**74.8**	**97.9**	**95.3**	**92.5**	**88.6**	**92.0**	**89.4**	**93.6**	**91.3**	**100.0**
IR II	**7042S**	**100.0**	**76.5**	**81.1**	**81.7**	**72.4**	**93.2**	**79.3**	**88.3**	**88.6**	**85.9**	**82.3**	**87.4**	**84.6**	**100.0**

Table IV.2: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 121	MH 2907	2.9	0.0	0.0	0.0	0.0	6.3	5.6	5.2	0.0	1.0	0.6	4.3	2.2	6.3
PIT 122	MH 2908	3.6	0.0	0.0	0.0	0.0	5.5	4.1	0.0	0.0	1.2	0.7	2.4	1.5	5.5
PIT 123	MH 2909	7.1	19.4	0.0	0.0	0.0	20.3	20.0	9.2	1.5	8.9	5.3	12.8	8.6	20.3
PIT 124	MH 2910	5.4	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	1.8	1.1	0.8	0.9	5.4
PIT 125	MH 2911	3.0	0.0	0.0	2.2	1.2	5.0	5.8	1.3	0.0	1.0	1.3	3.0	2.1	5.8
IR I	**7042S**	**100.0**	**76.3**	**95.0**	**89.3**	**78.2**	**97.0**	**96.8**	**92.5**	**89.3**	**90.4**	**87.8**	**93.9**	**90.5**	**100.0**
IR II	**7042S**	**100.0**	**77.5**	**93.6**	**72.1**	**75.3**	**92.0**	**72.9**	**88.5**	**89.5**	**90.4**	**83.7**	**85.7**	**84.6**	**100.0**
PIT 126	MH 2912	1.6	1.4	0.0	0.0	0.0	6.7	19.0	0.0	0.0	1.0	0.6	6.4	3.2	19.0
PIT 127	MH 2913	4.0	0.0	0.0	0.0	1.5	10.8	20.2	3.9	0.0	1.3	1.1	8.7	4.5	20.2
PIT 128	MH 2914	4.3	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	1.4	0.9	1.1	1.0	4.4
PIT 129	MH 2915	3.8	2.7	0.0	0.0	0.0	4.5	2.5	0.0	0.0	2.2	1.3	1.8	1.5	4.5
PIT 130	MH 2916	4.6	0.0	0.0	0.0	0.0	4.8	0.0	4.1	0.0	1.5	0.9	2.2	1.5	4.8
IR I	**7042S**	**100.0**	**90.0**	**100.0**	**87.3**	**74.8**	**97.0**	**96.8**	**91.3**	**85.5**	**96.7**	**90.4**	**92.6**	**91.4**	**100.0**
IR II	**7042S**	**100.0**	**66.7**	**93.3**	**74.5**	**73.0**	**92.1**	**80.0**	**87.3**	**85.6**	**86.7**	**81.5**	**86.3**	**83.6**	**100.0**
PIT 131	MH 2917	2.7	1.3	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.3	0.8	0.8	0.8	3.2
PIT 132	MH 2918	4.6	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	1.5	0.9	1.1	1.0	4.6
PIT 133	MH 2919	1.9	0.0	0.0	0.0	0.0	4.0	2.8	2.5	0.0	0.6	0.4	2.3	1.2	4.0
PIT 134	MH 2920	6.3	60.5	0.0	4.2	0.0	58.2	54.3	3.8	3.0	22.3	14.2	29.8	21.1	60.5
PIT 135	MH 2921	3.5	0.0	0.0	0.0	0.0	9.9	54.4	10.3	0.0	1.2	0.7	18.6	8.7	54.4
IR I	**7042S**	**100.0**	**71.3**	**97.4**	**89.8**	**76.2**	**95.7**	**95.1**	**96.3**	**88.1**	**89.5**	**86.9**	**93.8**	**90.0**	**100.0**
IR II	**7042S**	**100.0**	**68.6**	**93.3**	**81.3**	**74.2**	**98.8**	**72.5**	**91.3**	**85.8**	**87.3**	**83.5**	**87.1**	**85.1**	**100.0**
PIT 136	MH 2922	6.0	2.6	0.0	0.0	0.0	9.7	11.0	2.5	0.0	2.9	1.7	5.8	3.5	11.0
PIT 137	MH 2923	3.6	1.4	0.0	0.0	0.0	14.0	13.8	3.8	0.0	1.7	1.0	7.9	4.1	14.0
PIT 138	MH 2924	5.2	0.0	0.0	9.8	3.1	6.2	4.3	0.0	0.0	1.7	3.6	2.6	3.2	9.8
PIT 139	MH 2925	4.7	3.8	0.0	2.9	0.0	11.0	11.0	3.8	0.0	2.8	2.3	6.4	4.1	11.0
PIT 140	MH 2926	4.4	2.9	0.0	9.9	0.0	8.7	6.0	16.0	0.0	2.4	3.4	7.7	5.3	16.0
IR I	**7042S**	**100.0**	**80.0**	**100.0**	**100.0**	**74.4**	**97.9**	**93.3**	**92.5**	**88.4**	**93.3**	**90.9**	**93.0**	**91.8**	**100.0**
IR II	**7042S**	**100.0**	**72.0**	**87.0**	**76.9**	**72.0**	**92.0**	**84.9**	**90.0**	**85.3**	**86.3**	**81.6**	**88.1**	**84.5**	**100.0**
PIT 141	MH 2927	6.0	11.3	0.0	3.3	0.0	7.0	3.5	0.0	0.0	5.7	4.1	2.6	3.5	11.3
PIT 142	MH 2928	3.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	1.0	0.6	1.0	0.8	4.0
PIT 143	MH 2929	3.1	0.0	0.0	0.0	0.0	4.0	1.3	0.0	0.0	1.0	0.6	1.3	0.9	4.0
PIT 144	MH 2930	2.9	0.0	0.0	0.0	0.0	2.0	0.0	5.1	0.0	1.0	0.6	1.8	1.1	5.1
PIT 145	MH 2931	4.1	6.3	0.0	9.8	0.0	11.0	13.1	15.0	4.5	3.4	4.0	10.9	7.1	15.0

Table IV.2: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**100.0**	**86.7**	**83.9**	**91.8**	**82.0**	**97.3**	**90.0**	**93.6**	**86.4**	**90.2**	**88.9**	**91.8**	**90.2**	**100.0**
IR II	**7042S**	**100.0**	**75.8**	**83.3**	**79.7**	**76.2**	**91.7**	**80.3**	**88.8**	**84.3**	**86.4**	**83.0**	**86.3**	**84.5**	**100.0**
PIT 146	MH 2932	4.0	2.5	0.0	0.0	0.0	7.0	14.4	0.0	4.2	2.2	1.3	6.4	3.6	14.4
PIT 147	MH 2933	1.8	3.8	0.0	0.0	0.0	16.0	21.9	0.0	0.0	1.8	1.1	9.5	4.8	21.9
PIT 148	MH 2934	6.3	15.3	0.0	4.8	0.0	17.5	25.2	0.0	0.0	7.2	5.3	10.7	7.7	25.2
PIT 149	MH 2935	3.3	0.0	0.0	0.0	0.0	8.4	25.0	0.0	2.9	1.1	0.7	9.1	4.4	25.0
PIT 150	MH 2936	7.1	10.0	0.0	16.7	8.8	15.7	34.7	9.0	1.4	5.7	8.5	15.2	11.5	34.7
IR I	**7042S**	**100.0**	**75.6**	**100.0**	**87.7**	**75.3**	**96.9**	**96.7**	**95.0**	**84.7**	**91.9**	**87.7**	**93.3**	**90.2**	**100.0**
IR II	**7042S**	**100.0**	**73.8**	**94.4**	**78.9**	**72.0**	**94.0**	**81.5**	**87.0**	**82.2**	**89.4**	**83.8**	**86.2**	**84.9**	**100.0**
PIT 151	MH 2937	5.2	2.7	9.3	0.0	1.9	16.4	12.0	0.0	4.2	5.7	3.8	8.2	5.7	16.4
PIT 152	MH 2938	3.4	0.0	0.0	1.6	0.0	4.0	1.0	0.0	0.0	1.1	1.0	1.2	1.1	4.0
PIT 153	MH 2939	4.6	0.0	0.0	0.0	0.0	16.7	9.7	0.0	0.0	1.5	0.9	6.6	3.4	16.7
PIT 154	MH 2940	6.8	8.8	0.0	26.0	0.0	18.0	13.0	2.6	0.0	5.2	8.3	8.4	8.4	26.0
PIT 155	MH 2941	5.7	18.4	0.0	4.7	0.0	12.0	11.1	9.0	0.0	8.0	5.8	8.0	6.8	18.4
IR I	**7042S**	**100.0**	**83.8**	**100.0**	**91.2**	**74.0**	**95.0**	**95.2**	**93.8**	**82.9**	**94.6**	**89.8**	**91.7**	**90.6**	**100.0**
IR II	**7042S**	**100.0**	**80.3**	**93.8**	**80.3**	**72.6**	**89.0**	**75.4**	**88.8**	**85.0**	**91.4**	**85.4**	**84.5**	**85.0**	**100.0**
PIT 156	MH 2942	4.8	2.9	0.0	3.6	0.0	3.0	0.0	0.0	0.0	2.5	2.2	0.8	1.6	4.8
PIT 157	MH 2943	4.6	2.5	0.0	3.8	0.0	7.0	25.6	0.0	4.3	2.4	2.2	9.2	5.3	25.6
PIT 158	MH 2944	4.4	1.3	0.0	5.3	0.0	8.5	5.6	0.0	0.0	1.9	2.2	3.5	2.8	8.5
PIT 159	MH 2945	3.6	2.5	0.0	4.6	0.0	4.0	1.2	0.0	0.0	2.0	2.1	1.3	1.8	4.6
PIT 160	MH 2946	3.9	1.3	0.0	0.0	0.0	6.0	5.2	0.0	0.0	1.7	1.0	2.8	1.8	6.0
IR I	**7042S**	**100.0**	**76.3**	**98.0**	**91.3**	**78.3**	**96.0**	**94.2**	**93.8**	**86.7**	**91.4**	**88.8**	**92.7**	**90.5**	**100.0**
IR II	**7042S**	**100.0**	**77.5**	**100.0**	**79.7**	**74.8**	**89.0**	**71.1**	**86.3**	**90.7**	**92.5**	**86.4**	**84.3**	**85.4**	**100.0**
PIT 161	MH 2947	5.1	6.3	0.0	0.0	0.0	4.0	0.0	0.0	0.0	3.8	2.3	1.0	1.7	6.3
PIT 162	MH 2948	4.0	1.3	0.0	0.0	0.0	3.0	1.1	0.0	0.0	1.8	1.1	1.0	1.0	4.0
PIT 163	MH 2949	5.0	6.3	0.0	1.9	0.0	9.0	28.4	1.3	0.0	3.8	2.6	9.7	5.8	28.4
PIT 164	MH 2950	4.0	1.3	0.0	0.0	0.0	4.0	2.6	0.0	0.0	1.8	1.1	1.7	1.3	4.0
PIT 165	MH 2951	1.8	1.3	0.0	0.0	0.0	3.0	2.4	0.0	0.0	1.0	0.6	1.3	0.9	3.0
IR I	**7042S**	**100.0**	**71.3**	**97.9**	**95.5**	**76.5**	**98.0**	**98.4**	**93.8**	**83.4**	**89.7**	**88.2**	**93.4**	**90.5**	**100.0**
IR II	**7042S**	**100.0**	**62.4**	**93.8**	**79.2**	**72.2**	**92.0**	**78.4**	**87.5**	**85.5**	**85.4**	**81.5**	**85.9**	**83.4**	**100.0**
PIT 166	MH 2952	4.8	6.3	0.0	0.0	0.0	5.0	5.0	0.0	0.0	3.7	2.2	2.5	2.3	6.3
PIT 167	MH 2953	5.2	0.0	0.0	0.0	0.0	4.0	2.2	0.0	0.0	1.7	1.0	1.6	1.3	5.2
PIT 168	MH 2954	5.6	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	1.9	1.1	1.0	1.1	5.6
PIT 169	MH 2955	4.0	2.5	0.0	0.0	0.0	7.7	18.4	0.0	0.0	2.2	1.3	6.5	3.6	18.4

Table IV.2: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 170	MH 2956	4.8	2.5	0.0	9.2	0.0	4.4	2.3	0.0	0.0	2.4	3.3	1.7	2.6	9.2
IR I	**7042S**	**100.0**	**76.3**	**93.9**	**98.1**	**74.2**	**96.0**	**95.1**	**91.3**	**87.9**	**90.0**	**88.5**	**92.6**	**90.3**	**100.0**
IR II	**7042S**	**100.0**	**77.5**	**91.3**	**79.2**	**72.6**	**95.6**	**72.3**	**88.8**	**87.9**	**89.6**	**84.1**	**86.1**	**85.0**	**100.0**
PIT 171	MP 652	4.8	3.8	0.0	0.0	0.0	8.0	8.3	0.0	2.9	2.9	1.7	4.8	3.1	8.3
PIT 172	MP 653	6.0	10.0	6.1	0.0	0.0	9.3	6.1	0.0	0.0	7.4	4.4	3.8	4.2	10.0
PIT 173	MP 654	5.3	7.5	2.0	23.0	0.0	9.5	8.9	0.0	0.0	4.9	7.6	4.6	6.2	23.0
PIT 174	MP 655	3.6	0.0	0.0	0.0	0.0	5.2	4.4	6.5	0.0	1.2	0.7	4.0	2.2	6.5
PIT 175	MP 656	4.8	17.3	0.0	0.0	0.0	16.0	15.7	0.0	0.0	7.4	4.4	7.9	6.0	17.3
IR I	**7042S**	**100.0**	**83.8**	**96.1**	**100.0**	**82.4**	**98.0**	**96.8**	**96.3**	**83.6**	**93.3**	**92.4**	**93.7**	**93.0**	**100.0**
IR II	**7042S**	**100.0**	**80.3**	**91.8**	**81.8**	**72.4**	**93.0**	**76.7**	**91.3**	**82.3**	**90.7**	**85.3**	**85.8**	**85.5**	**100.0**
PIT 176	MP 657	5.6	6.3	0.0	0.0	0.0	11.0	9.0	0.0	0.0	4.0	2.4	5.0	3.5	11.0
PIT 177	MP 658	6.0	11.3	0.0	8.3	0.0	15.0	9.4	2.6	0.0	5.8	5.1	6.7	5.8	15.0
PIT 178	MP 659	6.5	2.5	0.0	10.0	0.0	11.6	5.9	0.0	0.0	3.0	3.8	4.4	4.1	11.6
PIT 179	MP 660	4.8	10.0	0.0	15.2	0.0	12.3	6.7	0.0	0.0	4.9	6.0	4.7	5.4	15.2
PIT 180	MP 661	4.1	2.9	0.0	1.8	0.0	4.0	5.6	0.0	0.0	2.3	1.8	2.4	2.0	5.6
IR I	**7042S**	**100.0**	**80.0**	**95.8**	**95.8**	**81.4**	**97.0**	**95.2**	**86.3**	**86.7**	**91.9**	**90.6**	**91.3**	**90.9**	**100.0**
IR II	**7042S**	**100.0**	**72.7**	**95.8**	**81.4**	**75.7**	**95.0**	**77.1**	**88.5**	**81.4**	**89.5**	**85.1**	**85.5**	**85.3**	**100.0**
PIT 181	PB 1756	4.2	2.5	0.0	0.0	0.0	4.0	3.8	0.0	0.0	2.2	1.3	2.0	1.6	4.2
PIT 182	RHB 223	0.0	0.0	0.0	NG	0.0	3.0	NG	2.7	-	0.0	0.0	2.8	0.9	3.0
PIT 183	MPMH 35	0.0	18.8	0.0	8.3	0.0	19.3	10.1	0.0	0.0	6.3	5.4	7.4	6.3	19.3
PIT 184	HHB 67 Imp	3.6	7.5	0.0	3.3	1.3	8.0	3.0	0.0	0.0	3.7	3.1	2.8	3.0	8.0
PIT 185	PB 1852	3.6	0.0	0.0	3.3	0.0	4.0	1.6	0.0	0.0	1.2	1.4	1.4	1.4	4.0
IR I	**7042S**	**100.0**	**82.8**	**94.2**	**87.7**	**76.2**	**90.0**	**90.8**	**92.5**	**84.9**	**92.3**	**88.2**	**89.5**	**88.8**	**100.0**
IR II	**7042S**	**100.0**	**77.5**	**90.5**	**82.7**	**73.2**	**86.0**	**78.7**	**88.8**	**80.5**	**89.3**	**84.8**	**83.5**	**84.2**	**100.0**
PIT 186	86M94	1.3	0.0	0.0	0.0	0.0	5.0	5.1	1.3	0.0	0.4	0.3	2.8	1.4	5.1
PIT 187	DHBH 1397	1.3	2.5	0.0	5.6	0.0	9.0	9.0	0.0	0.0	1.3	1.9	4.5	3.0	9.0
PIT 188	AHB 1269	3.2	1.3	0.0	0.0	0.0	2.0	1.3	0.0	0.0	1.5	0.9	0.8	0.9	3.2
PIT 189	Pratap	8.5	20.0	0.0	6.2	0.0	16.0	13.5	15.0	0.0	9.5	6.9	11.1	8.8	20.0
PIT 190	86M01	2.9	3.0	0.0	0.0	0.0	14.0	13.2	9.0	0.0	1.9	1.2	9.0	4.7	14.0
IR I	**7042S**	**100.0**	**78.3**	**100.0**	**92.7**	**75.0**	**94.0**	**91.7**	**97.5**	**85.0**	**92.8**	**89.2**	**92.0**	**90.5**	**100.0**
IR II	**7042S**	**100.0**	**72.8**	**88.4**	**83.3**	**74.0**	**90.0**	**75.0**	**91.3**	**84.3**	**87.1**	**83.7**	**85.1**	**84.3**	**100.0**
PIT 191	86M84	3.5	0.0	0.0	8.1	0.0	4.0	0.0	0.0	0.0	1.2	2.3	1.0	1.7	8.1
PIT 192	KBH 108	4.4	5.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	3.1	1.9	0.8	1.4	5.0
PIT 193	MP 7878	4.2	0.0	0.0	0.0	0.0	3.1	1.1	0.0	0.0	1.4	0.8	1.1	0.9	4.2

Table IV.2: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 194	86M86	4.2	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.4	0.8	0.5	0.7	4.2
PIT 195	Kaveri S Bos	1.6	1.8	0.0	2.2	0.0	4.1	0.0	0.0	0.0	1.1	1.1	1.0	1.1	4.1
IR I	**7042S**	**100.0**	**83.8**	**75.0**	**94.8**	**78.7**	**95.0**	**88.3**	**93.8**	**79.5**	**86.3**	**86.5**	**89.2**	**87.7**	**100.0**
IR II	**7042S**	**100.0**	**80.3**	**85.0**	**77.3**	**74.2**	**84.0**	**73.8**	**91.3**	**88.6**	**88.4**	**83.4**	**84.4**	**83.8**	**100.0**
PIT 196	NBH 4903	4.2	2.5	0.0	0.0	0.0	4.0	2.9	1.3	0.0	2.2	1.3	2.1	1.7	4.2
PIT 197	AHB 1200	3.5	0.0	0.0	0.0	0.0	5.0	5.9	0.0	0.0	1.2	0.7	2.7	1.6	5.9
PIT 198	Raj 171	3.5	8.7	0.0	0.0	2.7	9.2	6.7	0.0	0.0	4.0	3.0	4.0	3.4	9.2
PIT 199	JBV 2	4.0	8.8	0.0	0.0	0.0	9.9	10.2	1.3	0.0	4.3	2.6	5.4	3.8	10.2
PIT 100	Dhanshakti	11.4	6.3	0.0	2.7	0.0	11.0	8.4	2.7	0.0	5.9	4.1	5.5	4.7	11.4
IR I	**7042S**	**100.0**	**81.3**	**95.0**	**100.0**	**77.5**	**95.0**	**94.8**	**97.5**	**82.8**	**92.1**	**90.8**	**92.5**	**91.5**	**100.0**
IR II	**7042S**	**100.0**	**77.8**	**92.0**	**79.6**	**73.2**	**98.0**	**80.3**	**88.8**	**82.3**	**89.9**	**84.5**	**87.3**	**85.8**	**100.0**
PIT 201	ICMV 221	5.0	2.9	0.0	7.9	0.0	12.3	9.9	0.0	0.0	2.6	3.2	5.5	4.2	12.3
PIT 202	Pusa Comp.	5.0	1.3	0.0	5.4	0.0	11.0	8.4	0.0	0.0	2.1	2.3	4.9	3.5	11.0
PIT 203	Pusa Comp.	3.1	5.0	0.0	0.0	0.0	9.9	12.6	1.3	0.0	2.7	1.6	6.0	3.6	12.6
PIT 204	ABV 04	3.3	2.5	0.0	0.0	0.0	4.2	3.5	2.5	0.0	1.9	1.2	2.5	1.8	4.2
PIT 205	Pusa Comp.	3.1	4.8	0.0	3.3	1.4	17.1	13.5	0.0	0.0	2.6	2.5	7.6	4.8	17.1
PIT 206	ICMV 155	6.3	6.3	0.0	0.0	0.0	19.3	16.3	8.8	0.0	4.2	2.5	11.1	6.3	19.3
IR I	**7042S**	**100.0**		**92.3**	**82.9**	**80.4**	**94.0**	**92.7**	**96.3**	**83.9**	**96.2**	**88.9**	**91.7**	**90.3**	**100.0**
IR II	**7042S**	**100.0**		**94.4**	**77.8**	**74.2**	**87.0**	**74.6**	**93.8**	**83.6**	**97.2**	**86.6**	**84.7**	**85.7**	**100.0**
	Mean Entries	**4.4**	**6.2**	**1.1**	**2.6**	**0.2**	**8.9**	**11.8**	**2.6**	**0.7**	**5.3**	**3.6**	**5.9**	**4.7**	**8.9**
	Mean IR I	**100.0**	**80.6**	**94.3**	**90.0**	**76.7**	**96.4**	**92.6**	**94.1**	**85.9**	**91.6**	**88.3**	**92.3**	**90.1**	**100.0**
	Mean IR II	**100.0**	**75.8**	**91.0**	**80.0**	**73.1**	**91.6**	**73.6**	**88.2**	**84.1**	**88.9**	**84.0**	**84.4**	**84.2**	**100.0**

Table IV.3: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 30 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 101	MH 2887	0.0	0.5	1.3	0.1	1.5	0.0	1.0	0.5	0.0	0.6	0.7	0.4	0.5	1.5
PIT 102	MH 2888	0.0	0.5	1.8	0.0	1.0	0.0	0.5	1.0	0.0	0.8	0.7	0.4	0.5	1.8
PIT 103	MH 2889	0.0	0.5	1.2	0.1	1.0	0.0	0.0	0.5	0.0	0.6	0.6	0.1	0.4	1.2
PIT 104	MH 2890	0.0	0.5	1.1	0.2	0.0	2.0	4.0	0.5	0.0	0.5	0.4	1.6	0.9	4.0
PIT 105	MH 2891	0.5	0.5	2.9	0.3	0.5	1.5	2.5	0.5	0.0	1.3	0.9	1.1	1.0	2.9
PIT 106	MH 2892	0.0	1.0	2.1	0.0	1.0	0.0	1.0	0.5	0.0	1.0	0.8	0.4	0.6	2.1
PIT 107	MH 2893	0.0	1.0	1.6	0.0	0.0	1.0	2.0	1.0	0.0	0.9	0.5	1.0	0.7	2.0
PIT 108	MH 2894	0.0	0.5	1.5	0.1	0.0	0.5	2.0	0.5	0.0	0.7	0.4	0.8	0.6	2.0
PIT 109	MH 2895	0.0	1.0	1.1	0.0	1.0	0.0	1.0	0.0	0.0	0.7	0.6	0.3	0.5	1.1
PIT 110	MH 2896	0.0	1.0	1.9	0.2	0.5	1.0	3.0	1.0	1.5	1.0	0.7	1.6	1.1	3.0
PIT 111	MH 2897	0.5	0.5	1.4	0.0	0.0	2.0	3.5	1.0	0.0	0.8	0.5	1.6	1.0	3.5
PIT 112	MH 2898	0.0	1.0	1.8	0.3	0.0	1.0	2.5	0.5	0.0	0.9	0.6	1.0	0.8	2.5
PIT 113	MH 2899	0.0	0.5	1.6	0.4	0.0	2.0	3.5	0.0	0.0	0.7	0.5	1.4	0.9	3.5
PIT 114	MH 2900	0.0	0.5	1.4	0.0	0.5	0.5	1.5	1.0	0.0	0.6	0.5	0.8	0.6	1.5
PIT 115	MH 2901	0.0	0.5	1.6	0.0	0.5	2.0	3.0	1.0	0.0	0.7	0.5	1.5	1.0	3.0
PIT 116	MH 2902	0.5	1.0	2.8	0.3	1.0	2.0	3.5	0.5	0.0	1.4	1.1	1.5	1.3	3.5
PIT 117	MH 2903	0.0	1.0	1.5	0.0	0.0	1.0	2.5	1.0	0.0	0.8	0.5	1.1	0.8	2.5
PIT 118	MH 2904	0.0	1.0	1.3	0.0	0.0	0.5	2.0	0.5	0.0	0.8	0.5	0.8	0.6	2.0
PIT 119	MH 2905	0.0	1.0	2.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	0.7	0.0	0.4	2.0
PIT 120	MH 2906	0.5	0.5	2.6	0.0	0.0	1.0	0.0	0.0	0.0	1.2	0.7	0.3	0.5	2.6
PIT 121	MH 2907	0.5	0.5	2.2	0.5	0.5	1.0	2.5	0.0	0.0	1.1	0.8	0.9	0.9	2.5
PIT 122	MH 2908	0.0	0.5	1.3	0.0	1.0	0.5	1.5	0.0	0.0	0.6	0.6	0.5	0.5	1.5
PIT 123	MH 2909	0.0	0.5	1.5	0.0	1.0	0.5	1.5	0.0	1.5	0.7	0.6	0.9	0.7	1.5
PIT 124	MH 2910	0.0	0.5	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.0	0.2	1.2
PIT 125	MH 2911	0.0	0.0	1.3	0.0	0.0	0.5	1.0	1.0	0.5	0.4	0.3	0.8	0.5	1.3
PIT 126	MH 2912	0.0	1.0	1.4	0.0	1.0	0.0	1.0	0.0	0.0	0.8	0.7	0.3	0.5	1.4
PIT 127	MH 2913	0.0	1.0	1.5	0.2	1.0	0.5	1.5	1.0	0.0	0.8	0.7	0.8	0.7	1.5
PIT 128	MH 2914	0.0	0.5	1.4	0.3	1.0	2.0	3.0	0.0	1.0	0.6	0.6	1.5	1.0	3.0
PIT 129	MH 2915	0.0	1.0	2.7	0.0	0.0	1.0	2.0	0.0	0.0	1.2	0.7	0.8	0.7	2.7
PIT 130	MH 2916	0.0	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.2	1.2
PIT 131	MH 2917	0.0	0.5	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.0	0.3	1.9

Table IV.3: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 30 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 132	MH 2918	0.0	0.0	1.5	0.0	1.0	0.0	0.5	0.0	0.0	0.5	0.5	0.1	0.3	1.5
PIT 133	MH 2919	0.0	1.0	2.2	0.0	0.0	0.5	0.5	0.0	0.0	1.1	0.6	0.3	0.5	2.2
PIT 134	MH 2920	0.0	0.5	1.2	0.1	0.5	0.0	1.0	1.0	0.0	0.6	0.5	0.5	0.5	1.2
PIT 135	MH 2921	0.0	1.0	2.2	0.0	1.0	0.2	1.0	0.0	0.0	1.1	0.8	0.3	0.6	2.2
PIT 136	MH 2922	0.0	0.5	1.1	0.0	1.5	0.3	1.0	0.0	0.0	0.5	0.6	0.3	0.5	1.5
PIT 137	MH 2923	0.0	0.5	1.7	0.1	1.0	0.5	1.5	0.0	0.0	0.7	0.7	0.5	0.6	1.7
PIT 138	MH 2924	0.5	0.5	2.8	0.0	1.0	1.0	3.0	0.5	0.0	1.3	1.0	1.1	1.0	3.0
PIT 139	MH 2925	0.0	1.0	2.9	0.0	1.0	2.0	3.5	1.0	0.0	1.3	1.0	1.6	1.3	3.5
PIT 140	MH 2926	0.0	1.0	1.5	0.0	0.5	0.5	1.0	1.0	0.0	0.8	0.6	0.6	0.6	1.5
PIT 141	MH 2927	0.0	1.0	2.2	0.0	1.0	1.0	2.0	1.5	0.0	1.1	0.8	1.1	1.0	2.2
PIT 142	MH 2928	0.0	1.0	1.7	0.0	0.5	1.0	1.5	0.5	0.0	0.9	0.6	0.8	0.7	1.7
PIT 143	MH 2929	0.5	1.0	1.3	0.0	1.0	1.0	2.5	1.5	0.0	0.9	0.8	1.3	1.0	2.5
PIT 144	MH 2930	0.0	1.0	1.7	0.0	0.0	0.0	0.5	0.5	0.0	0.9	0.5	0.3	0.4	1.7
PIT 145	MH 2931	0.0	0.5	3.0	0.0	0.0	2.0	3.5	0.5	0.0	1.2	0.7	1.5	1.1	3.5
PIT 146	MH 2932	0.0	0.0	1.8	0.3	1.0	1.0	2.5	1.0	0.0	0.6	0.6	1.1	0.8	2.5
PIT 147	MH 2933	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.0	0.3	2.5
PIT 148	MH 2934	0.0	0.0	1.3	0.0	0.0	0.0	0.5	1.0	0.0	0.4	0.3	0.4	0.3	1.3
PIT 149	MH 2935	0.0	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.2	1.1
PIT 150	MH 2936	0.0	0.0	1.3	0.0	0.0	1.0	2.5	0.0	0.0	0.4	0.3	0.9	0.5	2.5
PIT 151	MH 2937	0.0	0.5	2.7	0.0	0.5	0.5	1.0	0.0	0.0	1.1	0.7	0.4	0.6	2.7
PIT 152	MH 2938	0.0	0.5	2.0	0.0	1.0	0.0	0.5	1.0	0.0	0.8	0.7	0.4	0.6	2.0
PIT 153	MH 2939	0.0	0.5	1.3	0.1	0.0	0.5	1.0	0.5	0.0	0.6	0.4	0.5	0.4	1.3
PIT 154	MH 2940	0.0	0.5	1.2	0.0	1.0	1.0	2.0	1.5	0.0	0.6	0.5	1.1	0.8	2.0
PIT 155	MH 2941	0.0	0.5	1.4	0.0	1.0	0.5	1.5	1.0	0.0	0.6	0.6	0.8	0.7	1.5
PIT 156	MH 2942	0.0	0.5	1.2	0.0	0.5	1.0	1.5	1.0	0.0	0.6	0.4	0.9	0.6	1.5
PIT 157	MH 2943	0.0	0.5	1.2	0.6	0.5	1.0	2.5	1.0	0.0	0.6	0.6	1.1	0.8	2.5
PIT 158	MH 2944	0.0	0.5	2.3	0.2	0.5	0.5	2.0	0.0	0.0	0.9	0.7	0.6	0.7	2.3
PIT 159	MH 2945	0.0	0.5	2.3	0.1	1.0	0.0	0.5	1.0	0.0	0.9	0.8	0.4	0.6	2.3
PIT 160	MH 2946	0.0	0.5	1.6	0.3	0.5	0.5	2.0	0.0	0.0	0.7	0.6	0.6	0.6	2.0
PIT 161	MH 2947	0.0	0.5	1.2	0.0	1.5	0.0	0.0	1.0	0.0	0.6	0.6	0.3	0.5	1.5
PIT 162	MH 2948	0.0	0.5	1.6	0.0	0.5	0.0	0.5	0.0	0.0	0.7	0.5	0.1	0.3	1.6

Table IV.3: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 30 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 163	MH 2949	0.0	0.5	1.2	0.0	0.0	0.0	0.5	0.5	0.0	0.6	0.3	0.3	0.3	1.2
PIT 164	MH 2950	0.0	0.5	1.0	0.0	1.0	0.5	1.0	1.0	0.0	0.5	0.5	0.6	0.6	1.0
PIT 165	MH 2951	0.0	0.5	1.1	0.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.3	1.1
PIT 166	MH 2952	0.5	0.5	1.2	0.0	0.5	0.0	0.0	0.5	0.0	0.7	0.5	0.1	0.4	1.2
PIT 167	MH 2953	0.0	0.5	1.8	0.0	0.5	0.0	0.0	0.0	0.0	0.8	0.6	0.0	0.3	1.8
PIT 168	MH 2954	0.0	1.0	1.6	0.0	0.5	0.5	1.0	0.5	0.0	0.9	0.6	0.5	0.6	1.6
PIT 169	MH 2955	0.0	0.5	2.2	0.0	1.0	0.0	0.5	0.0	0.0	0.9	0.7	0.1	0.5	2.2
PIT 170	MH 2956	0.5	1.0	1.1	0.0	1.0	0.0	0.5	1.0	0.0	0.9	0.7	0.4	0.6	1.1
PIT 171	MP 652	0.0	1.0	0.9	0.2	1.5	1.0	2.5	0.0	0.0	0.6	0.7	0.9	0.8	2.5
PIT 172	MP 653	0.5	1.0	2.1	0.0	1.5	2.0	3.0	1.0	0.0	1.2	1.0	1.5	1.2	3.0
PIT 173	MP 654	0.5	1.0	1.1	0.4	1.0	1.5	2.5	0.0	0.0	0.9	0.8	1.0	0.9	2.5
PIT 174	MP 655	0.0	1.0	2.9	0.0	1.5	1.0	3.5	0.0	0.0	1.3	1.1	1.1	1.1	3.5
PIT 175	MP 656	0.0	1.0	1.7	0.0	1.5	1.5	2.5	0.0	0.0	0.9	0.8	1.0	0.9	2.5
PIT 176	MP 657	0.5	0.5	1.9	0.0	1.5	0.5	2.0	0.0	0.0	1.0	0.9	0.6	0.8	2.0
PIT 177	MP 658	0.5	0.5	2.0	0.0	1.5	1.0	2.0	0.5	1.0	1.0	0.9	1.1	1.0	2.0
PIT 178	MP 659	0.0	0.5	2.6	0.0	1.0	1.0	2.0	0.0	0.0	1.0	0.8	0.8	0.8	2.6
PIT 179	MP 660	0.0	0.5	2.3	0.0	0.5	0.5	1.5	2.5	0.0	0.9	0.7	1.1	0.9	2.5
PIT 180	MP 661	0.0	0.5	2.2	0.0	0.5	0.0	2.0	0.0	0.0	0.9	0.6	0.5	0.6	2.2
PIT 181	PB 1756	0.5	1.0	1.6	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.8	0.0	0.5	1.6
PIT 182	RHB 223	0.0	_	1.6	NG	0.0	0.0	NG	0.5	-	0.8	0.5	0.3	0.4	1.6
PIT 183	MPMH 35	0.5	1.0	2.4	0.0	0.5	1.0	3.0	0.0	0.0	1.3	0.9	1.0	0.9	3.0
PIT 184	HHB 67 Imp.	0.5	1.0	2.0	0.4	0.0	1.0	2.5	1.0	0.0	1.2	0.8	1.1	0.9	2.5
PIT 185	PB 1852	0.0	0.5	2.2	0.0	1.0	1.0	1.5	0.0	0.0	0.9	0.7	0.6	0.7	2.2
PIT 186	86M94	1.0	1.0	1.8	0.0	0.5	0.5	1.0	0.0	0.0	1.3	0.9	0.4	0.6	1.8
PIT 187	DHBH 1397	0.5	1.0	1.6	0.0	0.5	0.5	1.0	0.0	0.0	1.0	0.7	0.4	0.6	1.6
PIT 188	AHB 1269	1.0	1.0	1.8	0.5	0.5	1.0	2.5	0.0	0.0	1.3	1.0	0.9	0.9	2.5
PIT 189	Pratap	1.0	1.0	1.2	0.3	1.0	2.0	3.0	2.0	0.5	1.1	0.9	1.9	1.3	3.0
PIT 190	86M01	0.5	1.0	1.5	0.1	2.5	2.0	3.0	1.5	1.5	1.0	1.1	2.0	1.5	3.0
PIT 191	86M84	0.0	1.0	1.3	0.1	1.0	0.5	2.0	0.0	0.0	0.8	0.7	0.6	0.7	2.0
PIT 192	KBH 108	0.5	1.0	2.2	0.0	2.5	2.0	3.0	2.0	0.0	1.2	1.2	1.8	1.5	3.0
PIT 193	MP 7878	0.0	1.0	1.4	0.0	1.0	2.0	3.0	1.0	0.0	0.8	0.7	1.5	1.0	3.0

Table IV.3: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 30 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 194	86M86	0.0	1.0	1.6	0.0	1.5	0.0	0.0	0.0	0.0	0.9	0.8	0.0	0.5	1.6
PIT 195	Kaveri S Boss	0.0	1.0	1.6	0.0	1.0	0.5	0.5	0.0	0.0	0.9	0.7	0.3	0.5	1.6
PIT 196	NBH 4903	0.0	0.5	1.8	0.0	1.0	0.5	1.0	0.0	0.0	0.8	0.7	0.4	0.5	1.8
PIT 197	AHB 1200	0.5	1.0	2.8	0.2	1.5	1.0	2.5	0.0	0.0	1.4	1.2	0.9	1.1	2.8
PIT 198	Raj 171	0.0	1.0	2.8	0.0	2.5	0.0	1.5	0.0	0.0	1.3	1.3	0.4	0.9	2.8
PIT 199	JBV 2	0.0	1.0	2.6	0.2	1.0	1.0	2.0	1.0	0.0	1.2	1.0	1.0	1.0	2.6
PIT 200	Dhanshakti	0.0	0.5	2.2	0.0	1.0	2.0	3.0	1.0	0.0	0.9	0.7	1.5	1.1	3.0
PIT 201	ICMV 221	0.0	0.5	2.1	0.4	3.0	2.0	3.0	1.0	0.5	0.9	1.2	1.6	1.4	3.0
PIT 202	Pusa Comp. 383	0.0	1.0	1.4	0.0	1.5	1.0	0.5	0.0	0.0	0.8	0.8	0.4	0.6	1.5
PIT 203	Pusa Comp. 701	1.0	1.0	1.4	0.1	1.5	2.0	3.0	1.0	0.0	1.1	1.0	1.5	1.2	3.0
PIT 204	ABV 04	0.0	1.0	1.7	0.0	1.0	0.5	2.0	0.0	0.0	0.9	0.7	0.6	0.7	2.0
PIT 205	Pusa Comp. 612	0.0	1.0	1.6	0.0	2.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.5	2.0
PIT 206	ICMV 155	0.0	1.0	1.7	0.0	1.0	2.0	2.5	1.0	0.0	0.9	0.7	1.4	1.0	2.5
Entry Mean		**0.1**	**0.6**	**1.8**	**0.1**	**0.7**	**0.8**	**1.6**	**0.5**	**0.1**	**0.8**	**0.7**	**0.7**	**0.7**	**1.8**
sceptible Check	**ICMB 95444**	**4.5**	**5.0**	**5.0**	**4.0**	**3.0**	**4.5**	**5.0**	**3.0**	**3.0**					

Table IV.3A: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 45 DAS-*Kharif* 2025															
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 101	MH 2887	0.0	1.5	1.4	0.4	1.0	1.0	2.0	1.0	0.5	1.0	0.9	1.1	1.0	2.0
PIT 102	MH 2888	0.0	1.5	1.9	0.4	0.5	0.5	1.5	2.0	0.0	1.1	0.9	1.0	0.9	2.0
PIT 103	MH 2889	0.0	1.0	1.5	0.3	0.5	1.0	0.0	2.0	0.5	0.8	0.7	0.9	0.8	2.0
PIT 104	MH 2890	0.5	1.0	1.4	0.5	0.5	2.0	5.0	1.0	1.0	1.0	0.8	2.3	1.4	5.0
PIT 105	MH 2891	1.0	1.5	3.8	1.2	2.0	3.0	4.0	2.0	0.0	2.1	1.9	2.3	2.1	4.0
PIT 106	MH 2892	0.0	2.0	2.2	0.4	1.0	1.0	2.0	1.0	0.0	1.4	1.1	1.0	1.1	2.2
PIT 107	MH 2893	0.0	2.0	1.9	0.2	0.5	2.0	3.0	1.5	0.0	1.3	0.9	1.6	1.2	3.0
PIT 108	MH 2894	0.0	1.5	1.5	0.4	1.0	1.0	3.0	2.0	0.5	1.0	0.9	1.6	1.2	3.0
PIT 109	MH 2895	0.5	2.5	1.8	0.0	2.0	1.0	2.0	1.0	0.0	1.6	1.4	1.0	1.2	2.5
PIT 110	MH 2896	0.0	2.0	2.1	0.7	1.0	2.0	4.0	2.0	2.5	1.4	1.2	2.6	1.8	4.0
PIT 111	MH 2897	1.5	1.5	1.6	0.2	0.5	2.5	5.5	1.5	0.0	1.5	1.1	2.4	1.6	5.5
PIT 112	MH 2898	0.0	1.5	2.2	0.6	0.5	2.0	4.0	1.0	0.0	1.2	1.0	1.8	1.3	4.0
PIT 113	MH 2899	0.5	1.5	1.9	0.9	1.5	3.0	5.0	1.5	0.0	1.3	1.3	2.4	1.8	5.0
PIT 114	MH 2900	0.0	1.5	1.6	0.0	2.0	2.0	2.5	2.0	0.0	1.0	1.0	1.6	1.3	2.5
PIT 115	MH 2901	1.0	1.5	1.5	0.3	2.0	2.5	4.0	3.0	0.0	1.3	1.3	2.4	1.8	4.0
PIT 116	MH 2902	1.0	2.0	3.9	0.8	2.0	3.0	4.5	1.5	0.0	2.3	1.9	2.3	2.1	4.5
PIT 117	MH 2903	1.0	2.0	1.6	0.1	1.5	2.0	3.0	2.0	0.5	1.5	1.2	1.9	1.5	3.0
PIT 118	MH 2904	0.0	2.0	1.4	0.7	0.5	1.0	3.5	2.0	0.5	1.1	0.9	1.8	1.3	3.5
PIT 119	MH 2905	0.5	1.5	2.5	0.0	1.0	0.0	0.5	0.0	0.5	1.5	1.1	0.3	0.7	2.5
PIT 120	MH 2906	1.5	1.5	2.5	0.0	1.0	1.5	1.0	1.5	0.0	1.8	1.3	1.0	1.2	2.5
PIT 121	MH 2907	1.5	1.5	2.3	1.1	1.5	1.5	3.5	0.0	1.0	1.8	1.6	1.5	1.5	3.5
PIT 122	MH 2908	0.5	2.0	2.1	0.2	1.5	1.0	2.5	1.5	0.0	1.5	1.3	1.3	1.3	2.5
PIT 123	MH 2909	0.0	2.0	1.6	0.2	2.0	1.0	2.5	1.0	2.5	1.2	1.2	1.8	1.4	2.5
PIT 124	MH 2910	0.0	2.0	1.5	0.5	0.5	0.0	0.0	0.0	0.0	1.2	0.9	0.0	0.5	2.0
PIT 125	MH 2911	0.0	1.0	1.6	0.0	0.5	1.0	2.0	2.0	1.5	0.9	0.6	1.6	1.1	2.0
PIT 126	MH 2912	0.0	2.0	1.6	0.0	0.5	1.0	2.5	2.0	1.0	1.2	0.8	1.6	1.2	2.5
PIT 127	MH 2913	0.0	2.0	1.6	0.8	2.0	1.0	2.5	2.5	0.0	1.2	1.3	1.5	1.4	2.5
PIT 128	MH 2914	0.0	2.0	1.4	0.7	1.5	3.0	5.0	0.5	2.5	1.1	1.1	2.8	1.8	5.0
PIT 129	MH 2915	0.5	2.0	4.2	0.2	0.0	3.0	3.0	1.0	0.0	2.2	1.4	1.8	1.5	4.2
PIT 130	MH 2916	0.5	1.5	1.4	0.0	0.0	0.5	0.0	1.0	0.0	1.1	0.7	0.4	0.5	1.5
PIT 131	MH 2917	0.0	2.0	2.0	0.4	0.5	0.0	0.0	1.0	0.0	1.3	1.0	0.3	0.7	2.0

Table IV.3A: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 45 DAS-*Kharif* 2025															
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 132	MH 2918	1.0	1.0	1.7	0.0	0.5	0.5	0.5	2.0	0.0	1.2	0.8	0.8	0.8	2.0
PIT 133	MH 2919	1.0	2.0	1.8	0.5	0.0	0.5	0.5	1.0	0.0	1.6	1.1	0.5	0.8	2.0
PIT 134	MH 2920	0.0	1.5	1.4	0.5	0.5	0.5	1.5	2.0	0.0	1.0	0.8	1.0	0.9	2.0
PIT 135	MH 2921	0.0	2.0	2.3	0.0	1.0	1.0	2.0	0.5	0.0	1.4	1.1	0.9	1.0	2.3
PIT 136	MH 2922	0.5	1.0	1.2	0.4	2.0	1.0	2.0	1.0	0.0	0.9	1.0	1.0	1.0	2.0
PIT 137	MH 2923	1.0	1.0	1.7	0.5	1.0	0.5	2.5	1.0	0.5	1.2	1.0	1.1	1.1	2.5
PIT 138	MH 2924	1.0	1.0	3.3	0.9	1.5	2.0	5.0	1.0	0.0	1.8	1.5	2.0	1.7	5.0
PIT 139	MH 2925	0.5	2.0	3.9	0.6	2.0	4.0	6.0	3.0	0.5	2.1	1.8	3.4	2.5	6.0
PIT 140	MH 2926	1.0	1.5	2.2	0.0	1.5	0.5	2.0	2.0	0.0	1.6	1.2	1.1	1.2	2.2
PIT 141	MH 2927	0.0	1.5	2.2	0.4	1.0	2.0	3.0	2.5	0.0	1.2	1.0	1.9	1.4	3.0
PIT 142	MH 2928	0.0	1.5	1.8	0.0	1.0	1.5	2.5	1.0	0.0	1.1	0.9	1.3	1.0	2.5
PIT 143	MH 2929	0.5	1.5	2.2	0.0	1.0	1.5	3.5	2.0	0.0	1.4	1.0	1.8	1.4	3.5
PIT 144	MH 2930	0.5	1.5	1.6	0.3	0.5	0.0	1.0	1.0	0.0	1.2	0.9	0.5	0.7	1.6
PIT 145	MH 2931	0.0	0.5	4.2	0.0	1.0	3.0	4.5	1.0	0.5	1.6	1.1	2.3	1.6	4.5
PIT 146	MH 2932	0.0	1.5	1.8	0.6	2.0	2.0	3.5	1.5	0.0	1.1	1.2	1.8	1.4	3.5
PIT 147	MH 2933	0.0	1.5	2.6	0.0	1.5	0.5	0.5	1.0	0.0	1.4	1.1	0.5	0.8	2.6
PIT 148	MH 2934	0.5	1.5	1.8	0.3	0.0	0.5	1.5	2.0	0.0	1.3	0.8	1.0	0.9	2.0
PIT 149	MH 2935	0.5	0.5	1.2	0.0	0.5	0.0	1.0	0.0	0.0	0.7	0.5	0.3	0.4	1.2
PIT 150	MH 2936	0.5	1.0	1.4	0.0	2.5	1.5	3.5	0.0	0.0	1.0	1.1	1.3	1.2	3.5
PIT 151	MH 2937	0.0	2.0	4.6	0.0	1.0	1.0	2.0	0.5	0.0	2.2	1.5	0.9	1.2	4.6
PIT 152	MH 2938	0.0	2.0	3.7	0.1	1.0	0.5	1.0	2.0	0.0	1.9	1.4	0.9	1.1	3.7
PIT 153	MH 2939	1.0	1.0	1.7	0.5	0.0	1.0	1.5	1.0	0.0	1.2	0.8	0.9	0.9	1.7
PIT 154	MH 2940	0.0	2.0	1.8	0.5	0.5	1.5	2.5	3.0	0.0	1.3	1.0	1.8	1.3	3.0
PIT 155	MH 2941	0.5	2.0	1.8	0.2	0.5	1.0	2.5	2.0	0.0	1.4	1.0	1.4	1.2	2.5
PIT 156	MH 2942	0.0	1.5	1.3	0.1	1.0	1.5	2.5	2.0	0.0	0.9	0.8	1.5	1.1	2.5
PIT 157	MH 2943	0.5	1.5	1.3	1.9	1.5	1.5	4.5	1.5	0.5	1.1	1.3	2.0	1.6	4.5
PIT 158	MH 2944	1.0	2.0	2.4	0.5	1.0	1.0	3.0	1.0	1.0	1.8	1.4	1.5	1.4	3.0
PIT 159	MH 2945	0.0	2.0	2.4	0.5	0.5	0.5	1.5	2.0	0.0	1.5	1.1	1.0	1.0	2.4
PIT 160	MH 2946	0.5	2.0	1.8	1.0	1.5	1.0	2.5	1.0	0.0	1.4	1.4	1.1	1.3	2.5
PIT 161	MH 2947	0.0	2.0	1.4	0.0	1.5	1.0	0.5	3.0	0.0	1.1	1.0	1.1	1.0	3.0
PIT 162	MH 2948	0.0	2.0	1.8	0.0	0.5	1.0	1.0	0.0	0.0	1.3	0.9	0.5	0.7	2.0

Table IV.3A: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 45 DAS-*Kharif* 2025															
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 163	MH 2949	0.0	1.0	1.7	0.4	0.0	1.0	1.0	2.0	0.0	0.9	0.6	1.0	0.8	2.0
PIT 164	MH 2950	0.5	1.0	1.2	0.0	0.5	1.0	2.0	2.0	0.0	0.9	0.6	1.3	0.9	2.0
PIT 165	MH 2951	1.0	1.0	1.3	0.0	0.5	0.5	0.5	0.0	0.0	1.1	0.8	0.3	0.5	1.3
PIT 166	MH 2952	0.5	1.0	1.6	0.0	0.5	0.5	0.0	1.0	0.0	1.0	0.7	0.4	0.6	1.6
PIT 167	MH 2953	0.5	1.5	1.9	0.0	1.0	0.0	0.0	0.0	0.5	1.3	1.0	0.1	0.6	1.9
PIT 168	MH 2954	0.0	1.0	2.1	0.3	0.5	1.0	1.5	1.5	0.0	1.0	0.8	1.0	0.9	2.1
PIT 169	MH 2955	0.0	1.0	2.4	0.2	1.0	1.0	1.0	0.0	0.0	1.1	0.9	0.5	0.7	2.4
PIT 170	MH 2956	1.0	1.0	1.2	0.0	1.0	0.0	1.5	2.0	0.0	1.1	0.8	0.9	0.9	2.0
PIT 171	MP 652	0.0	1.0	1.2	0.7	2.0	2.0	3.5	1.0	0.0	0.7	1.0	1.6	1.3	3.5
PIT 172	MP 653	0.5	1.0	2.3	0.8	2.0	3.0	4.0	2.0	0.0	1.3	1.3	2.3	1.7	4.0
PIT 173	MP 654	0.5	1.5	1.3	1.0	1.5	2.0	3.5	1.0	0.5	1.1	1.2	1.8	1.4	3.5
PIT 174	MP 655	0.0	1.5	4.2	0.2	1.5	2.0	4.0	0.0	0.0	1.9	1.5	1.5	1.5	4.2
PIT 175	MP 656	0.0	2.0	1.8	0.5	1.5	2.0	4.0	1.0	0.0	1.3	1.2	1.8	1.4	4.0
PIT 176	MP 657	1.0	2.0	2.1	0.8	1.5	1.0	3.5	0.0	0.0	1.7	1.5	1.1	1.3	3.5
PIT 177	MP 658	1.0	2.0	2.2	0.2	1.0	2.0	3.5	1.5	2.0	1.7	1.3	2.3	1.7	3.5
PIT 178	MP 659	0.0	1.5	1.4	0.5	0.5	2.0	3.5	0.0	0.0	1.0	0.8	1.4	1.0	3.5
PIT 179	MP 660	0.5	1.5	2.2	0.0	0.5	1.0	2.5	3.0	0.0	1.4	0.9	1.6	1.2	3.0
PIT 180	MP 661	0.5	2.0	2.5	0.0	0.5	2.0	3.0	1.0	0.0	1.7	1.1	1.5	1.3	3.0
PIT 181	PB 1756	1.0	2.0	1.6	0.0	1.0	1.0	0.5	1.0	0.0	1.5	1.1	0.6	0.9	2.0
PIT 182	RHB 223	0.0	_	1.8	NG	0.0	0.5	NG	2.0	-	0.9	0.6	1.3	0.9	2.0
PIT 183	MPMH 35	1.0	1.5	2.3	0.0	1.0	2.0	4.0	1.5	0.5	1.6	1.2	2.0	1.5	4.0
PIT 184	HHB 67 Imp.	1.0	1.5	2.1	1.2	1.0	2.0	5.0	2.0	0.0	1.5	1.4	2.3	1.8	5.0
PIT 185	PB 1852	0.0	1.5	2.4	0.0	1.5	2.0	2.5	1.0	0.0	1.3	1.1	1.4	1.2	2.5
PIT 186	86M94	1.5	2.0	2.1	0.0	1.0	1.0	2.0	0.5	0.0	1.9	1.3	0.9	1.1	2.1
PIT 187	DHBH 1397	1.5	2.0	2.0	0.5	1.0	2.0	3.5	1.5	0.0	1.8	1.4	1.8	1.6	3.5
PIT 188	AHB 1269	1.5	1.5	1.5	1.0	1.5	2.0	4.0	0.5	0.5	1.5	1.4	1.8	1.6	4.0
PIT 189	Pratap	1.0	1.5	1.3	0.6	2.0	3.0	5.0	2.5	1.5	1.3	1.3	3.0	2.0	5.0
PIT 190	86M01	0.5	2.0	1.7	0.5	2.5	4.0	5.0	2.0	2.5	1.4	1.4	3.4	2.3	5.0
PIT 191	86M84	0.0	2.0	1.4	0.2	2.0	2.0	3.0	1.0	0.0	1.1	1.1	1.5	1.3	3.0
PIT 192	KBH 108	0.5	2.0	2.5	0.1	2.0	2.0	4.0	3.0	0.0	1.7	1.4	2.3	1.8	4.0
PIT 193	MP 7878	0.5	1.5	1.6	0.0	1.5	3.0	4.0	2.0	0.0	1.2	1.0	2.3	1.6	4.0

Table IV.3A: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) 45 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 194	86M86	0.5	1.5	1.7	0.0	1.5	0.5	1.0	2.0	0.0	1.2	1.0	0.9	1.0	2.0
PIT 195	Kaveri S Boss	0.5	1.5	1.8	0.0	1.0	1.0	0.5	1.0	0.0	1.3	1.0	0.6	0.8	1.8
PIT 196	NBH 4903	0.0	2.0	1.9	0.0	1.0	1.0	2.0	1.0	0.0	1.3	1.0	1.0	1.0	2.0
PIT 197	AHB 1200	1.0	2.0	3.4	0.7	2.0	2.0	4.0	0.5	0.0	2.1	1.8	1.6	1.7	4.0
PIT 198	Raj 171	0.0	2.0	3.0	0.2	2.5	2.0	2.5	0.0	0.5	1.7	1.5	1.3	1.4	3.0
PIT 199	JBV 2	0.0	2.0	3.7	0.5	1.0	1.5	3.0	2.0	0.0	1.9	1.4	1.6	1.5	3.7
PIT 200	Dhanshakti	0.0	2.0	2.2	0.4	1.0	2.5	5.5	1.5	0.0	1.4	1.1	2.4	1.7	5.5
PIT 201	ICMV 221	0.0	2.0	2.2	0.8	3.0	3.0	4.5	1.5	1.0	1.4	1.6	2.5	2.0	4.5
PIT 202	Pusa Comp. 3	0.0	2.0	1.6	0.0	1.5	2.0	1.5	0.0	0.0	1.2	1.0	0.9	1.0	2.0
PIT 203	Pusa Comp. 7	1.5	1.5	1.7	0.4	2.0	3.0	4.0	2.0	0.0	1.6	1.4	2.3	1.8	4.0
PIT 204	ABV 04	0.5	2.0	2.1	0.0	1.5	0.5	3.0	1.0	0.0	1.5	1.2	1.1	1.2	3.0
PIT 205	Pusa Comp. 6	1.0	2.0	1.8	0.0	1.0	1.0	0.5	1.0	0.0	1.6	1.2	0.6	0.9	2.0
PIT 206	ICMV 155	0.0	2.0	1.7	0.1	1.0	3.0	3.5	2.0	0.0	1.2	1.0	2.1	1.5	3.5
Entry Mean		**0.5**	**1.7**	**2.0**	**0.3**	**1.2**	**1.4**	**2.6**	**1.3**	**0.3**	**1.4**	**1.1**	**1.4**	**1.2**	**2.6**
	ICMB 95444	**5.0**	**5.5**	**6.0**	**5.0**	**5.0**	**5.5**	**6.0**	**6.0**	**6.0**					

Table IV.3B: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 101	MH 2887	0.0	3.0	2.1	1.9	1.0	2.0	3.0	3.0	1.0	1.7	1.6	2.3	1.9	3.0
PIT 102	MH 2888	0.5	2.5	2.8	1.7	1.0	1.0	3.0	3.5	0.0	1.9	1.7	1.9	1.8	3.5
PIT 103	MH 2889	0.5	3.0	1.7	2.4	0.5	1.0	0.5	4.5	1.5	1.7	1.6	1.9	1.7	4.5
PIT 104	MH 2890	1.0	3.0	1.8	1.7	1.5	3.0	5.5	5.0	2.0	1.9	1.8	3.9	2.7	5.5
PIT 105	MH 2891	2.0	3.0	5.3	4.4	3.0	4.0	5.5	5.0	0.5	3.4	3.5	3.8	3.6	5.5
PIT 106	MH 2892	0.0	3.0	2.6	2.8	2.0	2.0	3.0	5.5	0.5	1.9	2.1	2.8	2.4	5.5
PIT 107	MH 2893	0.5	3.0	2.0	2.1	1.0	3.0	4.0	3.0	0.0	1.8	1.7	2.5	2.1	4.0
PIT 108	MH 2894	0.5	3.0	2.0	1.7	1.5	3.0	4.0	2.5	1.5	1.8	1.7	2.8	2.2	4.0
PIT 109	MH 2895	1.0	3.0	2.3	0.7	1.5	3.0	3.0	4.0	1.5	2.1	1.7	2.9	2.2	4.0
PIT 110	MH 2896	0.5	3.0	2.4	2.6	1.5	4.0	6.5	5.5	4.0	2.0	2.0	5.0	3.3	6.5
PIT 111	MH 2897	2.5	3.0	2.1	3.2	1.5	4.0	7.0	4.0	0.5	2.5	2.5	3.9	3.1	7.0
PIT 112	MH 2898	0.5	3.0	2.6	3.2	1.0	3.0	5.0	4.0	0.0	2.0	2.1	3.0	2.5	5.0
PIT 113	MH 2899	1.5	3.0	2.1	4.4	2.5	4.0	6.0	3.0	0.0	2.2	2.7	3.3	2.9	6.0
PIT 114	MH 2900	0.5	3.0	2.0	0.7	2.0	3.0	3.5	4.5	0.0	1.8	1.6	2.8	2.1	4.5
PIT 115	MH 2901	1.5	3.0	1.9	2.5	3.5	4.0	5.5	5.0	1.0	2.1	2.5	3.9	3.1	5.5
PIT 116	MH 2902	2.0	2.0	5.2	5.3	3.5	4.0	5.5	5.5	0.0	3.1	3.6	3.8	3.7	5.5
PIT 117	MH 2903	1.5	1.5	2.0	2.5	3.0	3.0	4.5	4.0	1.5	1.7	2.1	3.3	2.6	4.5
PIT 118	MH 2904	1.0	2.5	1.9	2.3	1.5	3.0	4.5	4.0	1.0	1.8	1.8	3.1	2.4	4.5
PIT 119	MH 2905	1.5	3.0	2.7	0.8	1.0	1.0	2.0	1.0	1.5	2.4	1.8	1.4	1.6	3.0
PIT 120	MH 2906	2.0	2.0	2.6	0.7	1.5	2.0	2.5	3.5	0.0	2.2	1.8	2.0	1.9	3.5
PIT 121	MH 2907	2.5	2.0	2.3	4.8	2.0	4.0	5.0	0.0	2.0	2.3	2.7	2.8	2.7	5.0
PIT 122	MH 2908	1.0	3.0	2.3	1.7	2.5	3.0	4.0	2.0	0.5	2.1	2.1	2.4	2.2	4.0
PIT 123	MH 2909	0.5	3.0	2.0	0.8	2.0	2.0	3.5	2.5	3.5	1.8	1.7	2.9	2.2	3.5
PIT 124	MH 2910	1.0	3.0	1.9	1.4	2.5	1.0	0.5	2.0	0.0	2.0	2.0	0.9	1.5	3.0
PIT 125	MH 2911	1.5	2.0	1.7	0.4	1.0	2.0	2.5	4.0	2.5	1.7	1.3	2.8	2.0	4.0
PIT 126	MH 2912	0.0	3.0	1.9	0.8	1.0	2.0	3.5	4.5	2.0	1.6	1.3	3.0	2.1	4.5
PIT 127	MH 2913	1.0	3.0	2.1	4.2	3.0	2.0	4.0	5.0	0.0	2.0	2.7	2.8	2.7	5.0
PIT 128	MH 2914	0.5	3.0	2.4	5.4	4.0	4.0	6.5	1.0	4.0	2.0	3.1	3.9	3.4	6.5
PIT 129	MH 2915	1.5	3.0	5.1	1.5	1.0	4.0	4.0	2.0	0.0	3.2	2.4	2.5	2.5	5.1
PIT 130	MH 2916	1.5	2.5	1.8	0.5	0.5	1.0	0.0	4.0	0.0	1.9	1.4	1.3	1.3	4.0
PIT 131	MH 2917	1.0	3.0	2.6	0.7	0.5	1.0	0.0	2.5	0.5	2.2	1.6	1.0	1.3	3.0
PIT 132	MH 2918	1.5	2.0	2.4	0.3	1.0	1.0	0.5	3.5	0.0	2.0	1.4	1.3	1.4	3.5

Table IV.3B: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 133	MH 2919	1.5	2.5	2.4	2.6	1.0	1.0	0.5	2.0	1.0	2.1	2.0	1.1	1.6	2.6
PIT 134	MH 2920	1.5	2.0	1.7	1.3	1.5	1.0	2.5	4.5	0.0	1.7	1.6	2.0	1.8	4.5
PIT 135	MH 2921	1.0	3.0	2.3	0.2	1.5	2.0	3.0	1.0	0.0	2.1	1.6	1.5	1.6	3.0
PIT 136	MH 2922	1.5	1.0	1.8	2.1	1.5	2.0	3.0	2.0	0.0	1.4	1.6	1.8	1.7	3.0
PIT 137	MH 2923	1.5	1.5	2.0	1.5	1.5	1.0	3.5	2.0	1.5	1.7	1.6	2.0	1.8	3.5
PIT 138	MH 2924	2.0	1.5	4.3	3.5	3.5	4.0	7.0	1.5	0.0	2.6	3.0	3.1	3.0	7.0
PIT 139	MH 2925	1.0	3.0	5.1	2.9	2.0	5.0	7.0	5.0	1.0	3.0	2.8	4.5	3.6	7.0
PIT 140	MH 2926	1.5	2.5	2.2	0.4	1.5	2.0	3.0	4.5	0.0	2.1	1.6	2.4	2.0	4.5
PIT 141	MH 2927	1.0	2.5	2.0	1.7	2.5	3.0	4.0	4.0	0.0	1.8	1.9	2.8	2.3	4.0
PIT 142	MH 2928	1.0	2.5	2.0	0.2	1.5	3.0	4.0	4.0	1.0	1.8	1.4	3.0	2.1	4.0
PIT 143	MH 2929	1.5	2.5	1.7	0.5	1.0	4.0	4.5	3.5	0.0	1.9	1.4	3.0	2.1	4.5
PIT 144	MH 2930	1.0	2.5	1.6	0.7	0.5	2.0	2.5	3.5	0.0	1.7	1.3	2.0	1.6	3.5
PIT 145	MH 2931	0.5	1.0	4.6	0.3	1.5	4.0	6.0	2.0	1.5	2.0	1.6	3.4	2.4	6.0
PIT 146	MH 2932	0.5	2.5	2.0	3.1	1.5	3.0	4.5	3.5	1.0	1.7	1.9	3.0	2.4	4.5
PIT 147	MH 2933	0.5	2.5	3.0	0.2	1.5	1.0	1.0	1.5	0.0	2.0	1.5	0.9	1.2	3.0
PIT 148	MH 2934	0.5	2.5	1.6	2.0	1.0	2.0	2.5	3.0	0.5	1.5	1.5	2.0	1.7	3.0
PIT 149	MH 2935	1.0	1.5	2.5	0.4	0.5	1.0	1.5	0.0	0.0	1.7	1.2	0.6	0.9	2.5
PIT 150	MH 2936	1.5	2.0	1.9	0.4	1.5	2.0	4.0	0.0	0.0	1.8	1.5	1.5	1.5	4.0
PIT 151	MH 2937	0.5	2.5	4.9	1.8	1.5	2.0	3.0	1.0	0.0	2.6	2.2	1.5	1.9	4.9
PIT 152	MH 2938	0.5	2.5	5.3	1.5	1.5	1.0	1.5	2.5	0.0	2.8	2.3	1.3	1.8	5.3
PIT 153	MH 2939	1.0	1.0	2.0	1.7	0.5	2.0	2.5	2.0	0.0	1.3	1.2	1.6	1.4	2.5
PIT 154	MH 2940	0.0	2.5	2.1	2.0	1.0	2.0	3.5	4.5	0.0	1.5	1.5	2.5	2.0	4.5
PIT 155	MH 2941	0.5	2.5	2.9	1.2	1.0	2.0	3.5	3.0	0.0	2.0	1.6	2.1	1.8	3.5
PIT 156	MH 2942	1.0	2.0	2.2	2.0	1.5	2.0	3.5	3.5	0.0	1.7	1.7	2.3	2.0	3.5
PIT 157	MH 2943	1.0	2.0	1.7	5.2	2.5	4.0	5.5	2.5	1.5	1.6	2.5	3.4	2.9	5.5
PIT 158	MH 2944	1.0	3.0	2.7	3.4	2.0	4.0	4.0	1.5	2.0	2.2	2.4	2.9	2.6	4.0
PIT 159	MH 2945	0.0	2.5	2.8	2.8	1.0	1.0	2.0	3.5	0.5	1.8	1.8	1.8	1.8	3.5
PIT 160	MH 2946	0.5	2.5	2.5	3.9	2.0	4.0	4.0	3.0	0.0	1.8	2.3	2.8	2.5	4.0
PIT 161	MH 2947	0.5	2.0	1.8	0.6	1.5	2.0	2.0	4.5	0.0	1.4	1.3	2.1	1.7	4.5
PIT 162	MH 2948	0.5	2.5	2.1	1.2	1.5	2.0	2.0	0.0	0.0	1.7	1.6	1.0	1.3	2.5
PIT 163	MH 2949	0.5	1.5	1.9	1.9	1.0	1.0	2.0	3.5	1.0	1.3	1.4	1.9	1.6	3.5
PIT 164	MH 2950	1.0	1.5	1.7	0.2	1.5	2.0	3.0	3.0	0.0	1.4	1.2	2.0	1.5	3.0
PIT 165	MH 2951	1.0	1.5	2.1	1.4	1.5	1.0	1.5	0.0	0.0	1.5	1.5	0.6	1.1	2.1

Table IV.3B: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 166	MH 2952	1.0	1.5	2.0	0.2	0.5	1.0	0.5	2.0	0.0	1.5	1.0	0.9	1.0	2.0
PIT 167	MH 2953	0.5	2.0	2.0	0.3	1.0	1.0	1.0	0.5	1.5	1.5	1.2	1.0	1.1	2.0
PIT 168	MH 2954	0.5	1.5	2.0	0.9	1.0	2.0	2.0	2.0	0.0	1.3	1.2	1.5	1.3	2.0
PIT 169	MH 2955	0.5	1.5	2.7	1.1	1.0	2.0	1.0	0.0	0.0	1.6	1.4	0.8	1.1	2.7
PIT 170	MH 2956	1.0	1.5	2.5	0.7	1.0	1.0	2.0	4.0	0.5	1.7	1.3	1.9	1.6	4.0
PIT 171	MP 652	0.5	2.0	1.9	3.1	2.5	3.0	4.5	2.0	1.0	1.5	2.0	2.6	2.3	4.5
PIT 172	MP 653	1.0	2.0	2.8	3.2	1.0	4.0	5.5	5.0	0.0	1.9	2.0	3.6	2.7	5.5
PIT 173	MP 654	1.0	2.5	1.5	3.3	2.5	3.0	4.5	2.0	1.0	1.7	2.2	2.6	2.4	4.5
PIT 174	MP 655	0.5	2.5	5.5	1.7	2.5	3.0	4.5	1.5	0.0	2.8	2.5	2.3	2.4	5.5
PIT 175	MP 656	1.0	3.0	1.6	1.5	3.0	4.0	4.5	1.5	0.0	1.9	2.0	2.5	2.2	4.5
PIT 176	MP 657	1.0	3.0	2.2	3.0	1.0	4.0	4.5	1.0	0.0	2.1	2.0	2.4	2.2	4.5
PIT 177	MP 658	1.0	3.0	2.5	2.6	1.5	4.0	5.0	1.5	3.5	2.2	2.1	3.5	2.7	5.0
PIT 178	MP 659	0.0	2.5	2.1	2.0	1.0	3.0	4.5	1.0	0.5	1.5	1.5	2.3	1.8	4.5
PIT 179	MP 660	1.0	2.5	2.7	0.3	0.0	2.0	4.0	4.5	0.0	2.1	1.3	2.6	1.9	4.5
PIT 180	MP 661	1.0	3.0	2.9	0.5	1.0	2.0	4.0	3.0	1.0	2.3	1.7	2.5	2.0	4.0
PIT 181	PB 1756	1.0	3.0	2.7	0.2	1.5	2.0	1.0	2.0	0.0	2.2	1.7	1.3	1.5	3.0
PIT 182	RHB 223	0.0		2.1	NG	0.5	1.0	NG	3.0	0.0	1.1	0.9	1.3	1.1	3.0
PIT 183	MPMH 35	1.0	2.5	2.7	0.3	2.0	3.0	6.0	3.0	1.5	2.1	1.7	3.4	2.4	6.0
PIT 184	HHB 67 Imp.	1.5	3.0	2.1	4.8	3.0	4.0	6.0	4.0	1.0	2.2	2.9	3.8	3.3	6.0
PIT 185	PB 1852	0.5	2.5	2.6	0.1	2.5	4.0	3.5	2.0	0.0	1.9	1.6	2.4	2.0	4.0
PIT 186	86M94	2.0	3.0	2.4	0.1	1.0	3.0	3.0	1.0	0.0	2.5	1.7	1.8	1.7	3.0
PIT 187	DHBH 1397	2.0	3.0	2.4	2.0	1.5	3.0	4.5	2.0	0.0	2.5	2.2	2.4	2.3	4.5
PIT 188	AHB 1269	2.5	2.5	2.8	4.2	2.0	4.0	5.0	2.0	1.5	2.6	2.8	3.1	2.9	5.0
PIT 189	Pratap	2.5	2.5	2.1	4.9	4.5	4.0	7.0	3.5	2.5	2.4	3.3	4.3	3.7	7.0
PIT 190	86M01	1.0	3.5	2.6	3.2	4.5	4.0	6.0	3.5	4.5	2.4	3.0	4.5	3.6	6.0
PIT 191	86M84	0.5	3.0	2.6	1.2	3.0	2.0	4.0	3.0	0.0	2.0	2.1	2.3	2.1	4.0
PIT 192	KBH 108	1.0	3.0	2.8	1.1	4.0	3.0	5.5	4.5	0.5	2.3	2.4	3.4	2.8	5.5
PIT 193	MP 7878	1.0	2.5	2.2	0.6	2.5	3.0	5.0	3.0	0.0	1.9	1.8	2.8	2.2	5.0
PIT 194	86M86	1.0	2.5	1.9	1.0	2.5	1.0	2.5	2.0	0.0	1.8	1.8	1.4	1.6	2.5
PIT 195	Kaveri S Boss	1.0	2.5	2.0	0.1	1.0	1.0	1.5	3.0	0.5	1.8	1.3	1.5	1.4	3.0
PIT 196	NBH 4903	0.0	3.0	1.9	1.1	4.0	2.0	3.0	2.0	0.0	1.6	2.0	1.8	1.9	4.0
PIT 197	AHB 1200	1.5	3.0	3.6	3.3	4.5	4.0	5.0	1.0	1.0	2.7	3.2	2.8	3.0	5.0
PIT 198	Raj 171	0.0	3.0	3.6	0.9	3.0	3.0	3.5	1.5	1.5	2.2	2.1	2.4	2.2	3.6

Table IV.3B: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Blast (0-9 scale) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 199	JBV 2	0.5	3.0	5.5	1.6	3.0	1.5	4.0	2.5	0.0	3.0	2.7	2.0	2.4	5.5
PIT 200	Dhanshakti	0.5	3.0	2.7	2.4	4.5	3.0	6.0	2.5	0.0	2.1	2.6	2.9	2.7	6.0
PIT 201	ICMV 221	0.5	3.0	2.7	4.3	4.5	2.5	5.5	4.0	2.5	2.1	3.0	3.6	3.3	5.5
PIT 202	Pusa Comp. 383	1.0	3.0	2.0	0.6	2.0	2.0	2.5	1.0	0.0	2.0	1.7	1.4	1.6	3.0
PIT 203	Pusa Comp. 701	1.5	2.5	2.0	0.8	2.5	4.0	5.0	3.0	0.0	2.0	1.9	3.0	2.4	5.0
PIT 204	ABV 04	1.0	3.0	1.9	0.1	3.0	1.0	4.0	2.5	0.0	2.0	1.8	1.9	1.8	4.0
PIT 205	Pusa Comp. 612	1.0	3.0	2.0	0.3	2.0	2.0	2.0	2.5	1.0	2.0	1.7	1.9	1.8	3.0
PIT 206	ICMV 155	0.0	3.0	2.0	1.7	1.0	3.0	4.5	3.5	0.0	1.7	1.5	2.8	2.1	4.5
	Entry Mean	**1.0**	**2.5**	**2.5**	**1.8**	**1.9**	**2.5**	**3.7**	**2.8**	**0.7**	**2.0**	**1.9**	**2.4**	**2.2**	**3.7**
	ICMB 95444	**7.5**	**7.0**	**7.5**	**7.0**	**7.0**	**7.0**	**8.0**	**6.0**	**6.0**					

Table IV.3C: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Rust (% leaf area) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 101	MH 2887	NOT RECORDED	0.0	0.0	0.0	0.0	23.0	40.0	1.5	12.5	0.0	0.0	19.3	9.6	40.0
PIT 102	MH 2888		0.0	0.0	0.0	0.0	9.0	7.5	2.0	11.0	0.0	0.0	7.4	3.7	11.0
PIT 103	MH 2889		0.0	0.0	0.0	0.0	22.0	20.0	4.5	9.0	0.0	0.0	13.9	6.9	22.0
PIT 104	MH 2890		0.0	3.0	0.0	0.0	16.0	20.0	7.5	12.5	1.5	0.8	14.0	7.4	20.0
PIT 105	MH 2891		0.0	0.0	0.0	0.0	5.0	2.5	2.5	9.0	0.0	0.0	4.8	2.4	9.0
PIT 106	MH 2892		0.0	0.0	0.0	0.0	17.0	25.0	3.5	9.0	0.0	0.0	13.6	6.8	25.0
PIT 107	MH 2893		0.0	0.0	0.0	0.0	19.0	35.0	1.5	13.5	0.0	0.0	17.3	8.6	35.0
PIT 108	MH 2894		0.0	0.0	0.0	0.0	11.0	2.5	1.5	11.0	0.0	0.0	6.5	3.3	11.0
PIT 109	MH 2895		0.0	0.5	0.0	0.0	16.0	7.5	3.0	10.0	0.3	0.1	9.1	4.6	16.0
PIT 110	MH 2896		0.0	0.0	0.0	0.0	15.0	2.5	6.0	13.5	0.0	0.0	9.3	4.6	15.0
PIT 111	MH 2897		0.0	3.5	0.0	0.0	13.0	2.5	2.0	11.0	1.8	0.9	7.1	4.0	13.0
PIT 112	MH 2898		0.0	0.0	0.0	0.0	11.0	5.0	1.5	11.0	0.0	0.0	7.1	3.6	11.0
PIT 113	MH 2899		0.0	0.0	0.0	0.0	8.0	2.5	1.5	11.0	0.0	0.0	5.8	2.9	11.0
PIT 114	MH 2900		0.0	0.0	0.0	0.0	5.0	5.0	1.5	0.0	0.0	0.0	2.9	1.4	5.0
PIT 115	MH 2901		0.0	0.0	0.0	0.0	11.0	30.0	2.5	9.0	0.0	0.0	13.1	6.6	30.0
PIT 116	MH 2902		0.0	0.0	0.0	0.0	6.0	2.5	0.0	0.0	0.0	0.0	2.1	1.1	6.0
PIT 117	MH 2903		0.0	5.0	0.0	0.0	9.0	7.5	1.5	6.5	2.5	1.3	6.1	3.7	9.0
PIT 118	MH 2904		0.0	0.0	0.0	0.0	9.0	7.5	0.0	6.5	0.0	0.0	5.8	2.9	9.0
PIT 119	MH 2905		0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	3.0
PIT 120	MH 2906		0.0	0.0	0.0	0.0	4.0	5.0	1.5	0.0	0.0	0.0	2.6	1.3	5.0
PIT 121	MH 2907		0.0	0.0	0.0	0.0	15.0	5.0	0.0	12.5	0.0	0.0	8.1	4.1	15.0
PIT 122	MH 2908		0.0	0.0	0.0	0.0	7.0	0.0	1.5	0.0	0.0	0.0	2.1	1.1	7.0
PIT 123	MH 2909		0.0	2.5	0.0	0.0	5.0	2.5	2.5	0.0	1.3	0.6	2.5	1.6	5.0
PIT 124	MH 2910		0.0	0.0	0.0	0.0	9.0	15.0	1.5	9.0	0.0	0.0	8.6	4.3	15.0
PIT 125	MH 2911		0.0	0.0	0.0	0.0	17.0	15.0	3.0	6.5	0.0	0.0	10.4	5.2	17.0
PIT 126	MH 2912		0.0	0.0	0.0	0.0	16.0	20.0	0.0	0.0	0.0	0.0	9.0	4.5	20.0
PIT 127	MH 2913		0.0	0.0	0.0	0.0	19.0	25.0	0.0	0.0	0.0	0.0	11.0	5.5	25.0
PIT 128	MH 2914		0.0	7.0	0.0	0.0	8.0	5.0	0.5	4.0	3.5	1.8	4.4	3.1	8.0
PIT 129	MH 2915		0.0	0.0	0.0	0.0	18.0	17.5	0.5	11.0	0.0	0.0	11.8	5.9	18.0
PIT 130	MH 2916		0.0	0.0	0.0	0.0	17.0	15.0	1.5	0.0	0.0	0.0	8.4	4.2	17.0
PIT 131	MH 2917		0.0	0.0	0.0	0.0	14.0	20.0	0.0	6.5	0.0	0.0	10.1	5.1	20.0
PIT 132	MH 2918		0.0	0.0	0.0	0.0	18.0	15.0	0.0	0.0	0.0	0.0	8.3	4.1	18.0

Table IV.3C: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Rust (% leaf area) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 133	MH 2919	NOT RECORDED	0.0	3.0	0.0	0.0	18.0	20.0	0.0	5.0	1.5	0.8	10.8	5.8	20.0
PIT 134	MH 2920		0.0	1.0	0.0	0.0	11.0	15.0	1.5	6.5	0.5	0.3	8.5	4.4	15.0
PIT 135	MH 2921		0.0	0.0	0.0	0.0	23.0	30.0	1.0	6.5	0.0	0.0	15.1	7.6	30.0
PIT 136	MH 2922		0.0	0.0	0.0	0.0	21.0	30.0	2.5	0.0	0.0	0.0	13.4	6.7	30.0
PIT 137	MH 2923		0.0	0.0	0.0	0.0	11.0	20.0	1.5	10.0	0.0	0.0	10.6	5.3	20.0
PIT 138	MH 2924		0.0	0.0	0.0	0.0	6.0	2.5	1.5	11.0	0.0	0.0	5.3	2.6	11.0
PIT 139	MH 2925		0.0	0.0	0.0	0.0	8.0	2.5	3.0	10.0	0.0	0.0	5.9	2.9	10.0
PIT 140	MH 2926		0.0	0.0	0.0	0.0	6.0	5.0	2.0	6.5	0.0	0.0	4.9	2.4	6.5
PIT 141	MH 2927		0.0	0.0	0.0	0.0	11.0	7.5	0.5	12.5	0.0	0.0	7.9	3.9	12.5
PIT 142	MH 2928		0.0	0.0	0.0	0.0	12.0	10.0	0.0	13.5	0.0	0.0	8.9	4.4	13.5
PIT 143	MH 2929		0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	4.0
PIT 144	MH 2930		0.0	0.0	0.0	0.0	11.0	15.0	2.0	6.5	0.0	0.0	8.6	4.3	15.0
PIT 145	MH 2931		0.0	0.0	0.0	0.0	12.0	5.0	2.0	10.0	0.0	0.0	7.3	3.6	12.0
PIT 146	MH 2932		0.0	0.0	0.0	0.0	15.0	20.0	6.0	5.0	0.0	0.0	11.5	5.8	20.0
PIT 147	MH 2933		0.0	0.0	0.0	0.0	9.0	7.5	0.0	9.0	0.0	0.0	6.4	3.2	9.0
PIT 148	MH 2934		0.0	0.0	0.0	0.0	7.0	5.0	1.5	12.5	0.0	0.0	6.5	3.3	12.5
PIT 149	MH 2935		0.0	0.0	0.0	0.0	16.0	15.0	1.5	0.0	0.0	0.0	8.1	4.1	16.0
PIT 150	MH 2936		0.0	0.0	0.0	0.0	19.0	25.0	0.0	5.0	0.0	0.0	12.3	6.1	25.0
PIT 151	MH 2937		0.0	0.0	0.0	0.0	11.0	15.0	0.0	0.0	0.0	0.0	6.5	3.3	15.0
PIT 152	MH 2938		0.0	0.0	0.0	0.0	5.0	15.0	0.0	0.0	0.0	0.0	5.0	2.5	15.0
PIT 153	MH 2939		0.0	0.0	0.0	0.0	7.0	15.0	0.0	0.0	0.0	0.0	5.5	2.8	15.0
PIT 154	MH 2940		0.0	4.0	0.0	0.0	4.0	15.0	0.0	0.0	2.0	1.0	4.8	2.9	15.0
PIT 155	MH 2941		0.0	0.0	0.0	0.0	8.0	7.5	0.0	0.0	0.0	0.0	3.9	1.9	8.0
PIT 156	MH 2942		0.0	0.0	0.0	0.0	11.0	15.0	0.0	9.0	0.0	0.0	8.8	4.4	15.0
PIT 157	MH 2943		0.0	0.0	0.0	0.0	9.0	2.5	0.0	12.5	0.0	0.0	6.0	3.0	12.5
PIT 158	MH 2944		0.0	0.0	0.0	0.0	9.0	15.0	1.5	6.5	0.0	0.0	8.0	4.0	15.0
PIT 159	MH 2945		0.0	0.0	0.0	0.0	10.0	15.0	0.0	5.0	0.0	0.0	7.5	3.8	15.0
PIT 160	MH 2946		0.0	0.0	0.0	0.0	8.0	2.5	2.5	9.0	0.0	0.0	5.5	2.8	9.0
PIT 161	MH 2947		0.0	0.0	0.0	0.0	9.0	7.5	0.5	0.0	0.0	0.0	4.3	2.1	9.0
PIT 162	MH 2948		0.0	0.0	0.0	0.0	8.0	7.5	1.0	5.0	0.0	0.0	5.4	2.7	8.0
PIT 163	MH 2949		0.0	0.0	0.0	0.0	11.0	7.5	1.5	11.0	0.0	0.0	7.8	3.9	11.0
PIT 164	MH 2950		0.0	0.0	0.0	0.0	8.0	7.5	2.5	8.0	0.0	0.0	6.5	3.3	8.0
PIT 165	MH 2951		0.0	0.0	0.0	0.0	11.0	12.5	1.5	0.0	0.0	0.0	6.3	3.1	12.5

Table IV.3C: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Rust (% leaf area) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 166	MH 2952	NOT RECORDED	0.0	0.0	0.0	0.0	8.0	5.0	0.0	5.0	0.0	0.0	4.5	2.3	8.0
PIT 167	MH 2953		0.0	0.0	0.0	0.0	9.0	7.5	1.5	6.5	0.0	0.0	6.1	3.1	9.0
PIT 168	MH 2954		0.0	0.0	0.0	0.0	4.0	5.0	0.0	4.0	0.0	0.0	3.3	1.6	5.0
PIT 169	MH 2955		0.0	0.0	0.0	0.0	12.0	15.0	1.5	5.0	0.0	0.0	8.4	4.2	15.0
PIT 170	MH 2956		0.0	0.0	0.0	0.0	17.0	10.0	0.0	6.5	0.0	0.0	8.4	4.2	17.0
PIT 171	MP 652		0.0	0.0	0.0	0.0	4.0	2.5	1.5	0.0	0.0	0.0	2.0	1.0	4.0
PIT 172	MP 653		0.0	0.0	0.0	0.0	7.0	5.0	3.0	9.0	0.0	0.0	6.0	3.0	9.0
PIT 173	MP 654		0.0	0.0	0.0	0.0	6.0	10.0	1.5	10.0	0.0	0.0	6.9	3.4	10.0
PIT 174	MP 655		0.0	0.0	0.0	0.0	8.0	0.0	1.5	4.0	0.0	0.0	3.4	1.7	8.0
PIT 175	MP 656		0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	3.0
PIT 176	MP 657		0.0	0.0	0.0	0.0	8.0	12.5	0.0	0.0	0.0	0.0	5.1	2.6	12.5
PIT 177	MP 658		0.0	0.0	0.0	0.0	15.0	22.5	0.0	8.0	0.0	0.0	11.4	5.7	22.5
PIT 178	MP 659		0.0	0.0	0.0	0.0	12.0	15.0	0.0	10.0	0.0	0.0	9.3	4.6	15.0
PIT 179	MP 660		0.0	0.0	0.0	0.0	9.0	10.0	2.5	6.5	0.0	0.0	7.0	3.5	10.0
PIT 180	MP 661		0.0	0.0	0.0	0.0	8.0	15.0	2.5	5.0	0.0	0.0	7.6	3.8	15.0
PIT 181	PB 1756		0.0	0.0	0.0	0.0	8.0	5.0	1.5	0.0	0.0	0.0	3.6	1.8	8.0
PIT 182	RHB 223		0.0	0.0	NG	0.0	0.0	NG	nil	-	0.0	0.0	0.0	0.0	0.0
PIT 183	MPMH 35		0.0	0.0	0.0	0.0	9.0	7.5	1.5	13.5	0.0	0.0	7.9	3.9	13.5
PIT 184	HHB 67 Imp.		0.0	0.0	0.0	0.0	4.0	5.0	1.5	6.5	0.0	0.0	4.3	2.1	6.5
PIT 185	PB 1852		0.0	0.0	0.0	0.0	3.0	5.0	0.0	0.0	0.0	0.0	2.0	1.0	5.0
PIT 186	86M94		0.0	0.0	0.0	0.0	4.0	2.5	0.0	0.0	0.0	0.0	1.6	0.8	4.0
PIT 187	DHBH 1397		0.0	0.0	0.0	0.0	8.0	5.0	2.5	9.0	0.0	0.0	6.1	3.1	9.0
PIT 188	AHB 1269		0.0	0.0	0.0	0.0	8.0	2.5	2.0	11.0	0.0	0.0	5.9	2.9	11.0
PIT 189	Pratap		0.0	0.0	0.0	0.0	7.0	0.0	1.5	6.5	0.0	0.0	3.8	1.9	7.0
PIT 190	86M01		0.0	0.0	0.0	0.0	3.0	2.5	0.0	0.0	0.0	0.0	1.4	0.7	3.0
PIT 191	86M84		0.0	0.0	0.0	0.0	7.0	0.0	0.0	9.0	0.0	0.0	4.0	2.0	9.0
PIT 192	KBH 108		0.0	0.0	0.0	0.0	6.0	2.5	0.0	7.5	0.0	0.0	4.0	2.0	7.5
PIT 193	MP 7878		0.0	0.0	0.0	0.0	7.0	0.0	0.0	11.0	0.0	0.0	4.5	2.3	11.0
PIT 194	86M86		0.0	0.0	0.0	0.0	8.0	5.0	1.5	9.0	0.0	0.0	5.9	2.9	9.0
PIT 195	Kaveri S Boss		0.0	0.0	0.0	0.0	7.0	7.5	2.5	11.0	0.0	0.0	7.0	3.5	11.0
PIT 196	NBH 4903		0.0	0.0	0.0	0.0	7.0	10.0	1.0	0.0	0.0	0.0	4.5	2.3	10.0
PIT 197	AHB 1200		0.0	0.0	0.0	0.0	9.0	7.5	1.0	11.0	0.0	0.0	7.1	3.6	11.0
PIT 198	Raj 171		0.0	0.0	0.0	0.0	8.0	5.0	3.5	10.0	0.0	0.0	6.6	3.3	10.0

Table IV.3C: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Rust (% leaf area) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 199	JBV 2	N	0.0	0.0	0.0	0.0	11.0	15.0	2.5	5.0	0.0	0.0	8.4	4.2	15.0
PIT 200	Dhanshakti	A	0.0	0.0	0.0	0.0	4.0	5.0	2.0	11.0	0.0	0.0	5.5	2.8	11.0
PIT 201	ICMV 221		0.0	0.0	0.0	0.0	9.0	5.0	3.0	13.5	0.0	0.0	7.6	3.8	13.5
PIT 202	Pusa Comp. 383		0.0	0.0	0.0	0.0	8.0	10.0	3.0	10.0	0.0	0.0	7.8	3.9	10.0
PIT 203	Pusa Comp. 701		0.0	0.0	0.0	0.0	13.0	17.5	1.5	9.0	0.0	0.0	10.3	5.1	17.5
PIT 204	ABV 04		0.0	0.0	0.0	0.0	11.0	15.0	2.5	6.5	0.0	0.0	8.8	4.4	15.0
PIT 205	Pusa Comp. 612		0.0	0.0	0.0	0.0	13.0	15.0	2.5	9.0	0.0	0.0	9.9	4.9	15.0
PIT 206	ICMV 155		0.0	0.0	0.0	0.0	9.0	10.0	2.0	13.5	0.0	0.0	8.6	4.3	13.5
Entry Mean			**0.0**	**0.3**	**0.0**	**0.0**	**10.6**	**11.3**	**1.7**	**7.8**	**0.1**	**0.1**	**7.9**	**4.0**	**11.3**

Table IV.3D: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Smut (severity %) at 60 DAS-*Kharif* 2025															
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 101	MH 2887	NOT RECORDED	0.0	0.0	3.0	1.0	1.0	0.0	12.5	9.0	0.0	1.0	5.6	3.3	12.5
PIT 102	MH 2888		2.5	0.0	0.0	0.5	1.0	0.0	17.5	6.5	1.3	0.8	6.3	3.5	17.5
PIT 103	MH 2889		2.5	0.0	0.0	0.5	1.0	0.0	7.5	4.0	1.3	0.8	3.1	1.9	7.5
PIT 104	MH 2890		40.0	0.0	11.5	5.5	2.0	0.0	7.0	10.0	20.0	14.3	4.8	9.5	40.0
PIT 105	MH 2891		7.5	0.0	0.0	5.0	0.0	0.0	2.5	4.5	3.8	3.1	1.8	2.4	7.5
PIT 106	MH 2892		5.0	0.0	0.0	3.0	0.0	1.0	3.0	5.0	2.5	2.0	2.3	2.1	5.0
PIT 107	MH 2893		15.0	0.0	0.0	3.0	1.0	0.0	3.5	9.0	7.5	4.5	3.4	3.9	15.0
PIT 108	MH 2894		5.0	0.0	0.0	5.5	1.0	2.5	4.5	6.5	2.5	2.6	3.6	3.1	6.5
PIT 109	MH 2895		2.5	0.0	1.0	5.0	0.0	0.0	3.5	5.5	1.3	2.1	2.3	2.2	5.5
PIT 110	MH 2896		15.0	0.0	1.0	12.5	1.0	2.5	8.5	11.0	7.5	7.1	5.8	6.4	15.0
PIT 111	MH 2897		15.0	0.0	0.0	15.5	0.0	1.0	3.5	7.0	7.5	7.6	2.9	5.3	15.5
PIT 112	MH 2898		2.5	0.0	7.0	5.0	0.0	0.0	12.5	4.0	1.3	3.6	4.1	3.9	12.5
PIT 113	MH 2899		2.5	0.0	0.0	5.0	0.0	0.0	1.5	5.0	1.3	1.9	1.6	1.8	5.0
PIT 114	MH 2900		2.5	0.0	0.0	3.0	0.0	0.0	0.5	0.0	1.3	1.4	0.1	0.8	3.0
PIT 115	MH 2901		6.3	0.0	12.5	2.5	0.0	0.0	8.5	5.0	3.1	5.3	3.4	4.3	12.5
PIT 116	MH 2902		1.3	3.6	0.0	5.5	1.0	3.5	11.0	0.0	2.4	2.6	3.9	3.2	11.0
PIT 117	MH 2903		2.5	0.0	2.5	5.0	0.0	0.0	10.0	4.0	1.3	2.5	3.5	3.0	10.0
PIT 118	MH 2904		0.0	0.0	0.5	0.5	0.0	2.5	7.5	0.0	0.0	0.3	2.5	1.4	7.5
PIT 119	MH 2905		0.0	0.0	0.5	0.0	0.0	0.0	3.5	0.0	0.0	0.1	0.9	0.5	3.5
PIT 120	MH 2906		0.0	0.0	0.5	0.5	0.0	0.0	1.5	0.0	0.0	0.3	0.4	0.3	1.5
PIT 121	MH 2907		0.0	0.0	1.0	0.5	0.0	0.0	4.5	6.5	0.0	0.4	2.8	1.6	6.5
PIT 122	MH 2908		0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.4	0.2	1.5
PIT 123	MH 2909		0.0	9.0	9.0	0.0	0.0	0.0	1.0	0.0	4.5	4.5	0.3	2.4	9.0
PIT 124	MH 2910		0.0	0.0	0.0	5.0	0.0	0.0	3.5	5.0	0.0	1.3	2.1	1.7	5.0
PIT 125	MH 2911		0.0	0.0	1.5	0.0	0.0	0.0	6.0	0.0	0.0	0.4	1.5	0.9	6.0
PIT 126	MH 2912		2.5	6.1	1.0	0.0	1.0	2.5	1.5	0.0	4.3	2.4	1.3	1.8	6.1
PIT 127	MH 2913		25.0	0.0	1.5	0.5	0.0	1.0	0.0	0.0	12.5	6.8	0.3	3.5	25.0
PIT 128	MH 2914		3.8	0.0	0.5	0.0	0.0	0.0	3.0	2.5	1.9	1.1	1.4	1.2	3.8
PIT 129	MH 2915		7.5	21.5	0.0	3.0	0.0	1.0	1.0	9.0	14.5	8.0	2.8	5.4	21.5
PIT 130	MH 2916		0.0	0.0	0.0	0.5	0.0	0.0	3.5	0.0	0.0	0.1	0.9	0.5	3.5
PIT 131	MH 2917		0.0	0.0	0.0	2.5	0.0	0.0	2.0	0.0	0.0	0.6	0.5	0.6	2.5

Table IV.3D: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Smut (severity %) at 60 DAS-*Kharif* 2025															
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 132	MH 2918	NOT RECORDED	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.3	2.5
PIT 133	MH 2919		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 134	MH 2920		5.0	0.0	0.5	2.5	0.0	0.0	1.0	2.5	2.5	2.0	0.9	1.4	5.0
PIT 135	MH 2921		2.5	8.0	0.5	0.0	0.0	1.0	1.0	2.0	5.3	2.8	1.0	1.9	8.0
PIT 136	MH 2922		5.0	0.0	0.0	5.0	0.0	0.0	3.5	0.0	2.5	2.5	0.9	1.7	5.0
PIT 137	MH 2923		2.5	0.0	0.0	2.5	0.0	0.0	1.5	6.5	1.3	1.3	2.0	1.6	6.5
PIT 138	MH 2924		5.0	0.0	5.0	10.0	0.0	0.0	6.0	9.0	2.5	5.0	3.8	4.4	10.0
PIT 139	MH 2925		0.0	0.0	0.0	15.0	0.0	1.0	1.5	5.0	0.0	3.8	1.9	2.8	15.0
PIT 140	MH 2926		12.5	7.1	0.0	5.0	0.0	0.0	3.0	0.0	9.8	6.2	0.8	3.5	12.5
PIT 141	MH 2927		2.5	0.0	2.5	7.5	0.0	0.0	1.5	9.0	1.3	3.1	2.6	2.9	9.0
PIT 142	MH 2928		0.0	0.0	0.0	2.5	0.0	0.0	3.5	7.0	0.0	0.6	2.6	1.6	7.0
PIT 143	MH 2929		0.0	0.0	0.0	0.0	0.0	0.5	7.5	0.0	0.0	0.0	2.0	1.0	7.5
PIT 144	MH 2930		3.8	0.0	0.0	10.0	0.0	0.0	4.5	2.5	1.9	3.4	1.8	2.6	10.0
PIT 145	MH 2931		0.0	0.0	2.0	2.5	1.0	3.5	4.5	5.0	0.0	1.1	3.5	2.3	5.0
PIT 146	MH 2932		0.0	0.0	0.0	6.0	1.0	2.5	7.5	0.0	0.0	1.5	2.8	2.1	7.5
PIT 147	MH 2933		0.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.1	0.2	1.0
PIT 148	MH 2934		0.0	0.0	0.0	0.0	0.0	0.0	7.5	9.0	0.0	0.0	4.1	2.1	9.0
PIT 149	MH 2935		0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	2.5	1.3	10.0
PIT 150	MH 2936		0.0	0.0	0.0	5.0	0.0	3.5	17.5	0.0	0.0	1.3	5.3	3.3	17.5
PIT 151	MH 2937		0.0	0.0	10.0	0.0	0.0	0.0	12.5	0.0	0.0	2.5	3.1	2.8	12.5
PIT 152	MH 2938		0.0	0.5	0.0	0.0	0.0	0.0	5.0	0.0	0.3	0.1	1.3	0.7	5.0
PIT 153	MH 2939		0.0	0.0	0.5	2.5	0.0	2.5	7.5	0.0	0.0	0.8	2.5	1.6	7.5
PIT 154	MH 2940		0.0	0.0	0.5	0.0	0.0	10.0	2.0	0.0	0.0	0.1	3.0	1.6	10.0
PIT 155	MH 2941		0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.4	0.2	1.5
PIT 156	MH 2942		2.5	0.6	2.5	2.5	0.5	2.5	6.0	5.5	1.6	2.0	3.6	2.8	6.0
PIT 157	MH 2943		6.3	0.0	0.0	2.5	0.0	0.0	11.0	9.0	3.1	2.2	5.0	3.6	11.0
PIT 158	MH 2944		5.0	0.0	4.0	12.5	0.0	1.0	8.5	4.0	2.5	5.4	3.4	4.4	12.5
PIT 159	MH 2945		2.5	0.0	0.5	5.0	0.0	0.0	4.0	0.0	1.3	2.0	1.0	1.5	5.0
PIT 160	MH 2946		2.5	6.1	0.5	5.0	0.0	1.0	7.0	4.5	4.3	3.5	3.1	3.3	7.0
PIT 161	MH 2947		0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	1.5	0.8	6.0
PIT 162	MH 2948		0.0	0.0	1.5	0.0	0.0	0.0	1.5	0.0	0.0	0.4	0.4	0.4	1.5

Table IV.3D: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Smut (severity %) at 60 DAS-*Kharif* 2025															
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 163	MH 2949	NOT RECORDED	2.5	0.0	0.5	0.0	0.5	1.0	2.5	6.5	1.3	0.8	2.6	1.7	6.5
PIT 164	MH 2950		0.0	0.0	1.0	0.0	0.0	0.0	2.5	5.0	0.0	0.3	1.9	1.1	5.0
PIT 165	MH 2951		0.0	0.0	1.0	0.0	0.0	0.0	1.5	0.0	0.0	0.3	0.4	0.3	1.5
PIT 166	MH 2952		0.0	0.0	1.5	5.0	0.0	0.0	0.5	0.0	0.0	1.6	0.1	0.9	5.0
PIT 167	MH 2953		0.0	0.0	0.5	0.0	0.0	0.0	6.0	0.0	0.0	0.1	1.5	0.8	6.0
PIT 168	MH 2954		0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.5
PIT 169	MH 2955		0.0	0.6	2.0	2.5	0.0	0.0	1.5	0.0	0.3	1.3	0.4	0.8	2.5
PIT 170	MH 2956		0.0	0.0	4.0	0.0	0.0	0.0	4.5	0.0	0.0	1.0	1.1	1.1	4.5
PIT 171	MP 652		0.0	0.0	1.0	0.0	0.0	0.0	3.5	0.0	0.0	0.3	0.9	0.6	3.5
PIT 172	MP 653		1.0	11.0	3.5	2.5	0.0	0.0	3.5	5.0	6.0	4.5	2.1	3.3	11.0
PIT 173	MP 654		0.0	0.0	0.0	2.5	0.5	2.5	1.5	7.0	0.0	0.6	2.9	1.8	7.0
PIT 174	MP 655		0.0	0.0	0.0	2.5	0.0	0.0	1.0	0.0	0.0	0.6	0.3	0.4	2.5
PIT 175	MP 656		0.0	0.0	1.0	10.0	0.0	0.0	4.5	0.0	0.0	2.8	1.1	1.9	10.0
PIT 176	MP 657		0.0	8.1	0.5	2.5	0.0	0.0	4.5	0.0	4.1	2.8	1.1	2.0	8.1
PIT 177	MP 658		0.5	12.0	0.0	5.0	0.0	1.0	2.0	4.5	6.3	4.4	1.9	3.1	12.0
PIT 178	MP 659		2.5	0.0	1.5	0.0	0.0	0.0	0.5	6.5	1.3	1.0	1.8	1.4	6.5
PIT 179	MP 660		0.0	0.0	1.0	0.0	0.0	0.0	0.5	4.0	0.0	0.3	1.1	0.7	4.0
PIT 180	MP 661		0.0	1.6	0.0	5.0	0.0	2.5	0.0	1.0	0.8	1.7	0.9	1.3	5.0
PIT 181	PB 1756		0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.5
PIT 182	RHB 223		0.0	0.0	NG	0.0	0.0	NG	nil	-	0.0	0.0	0.0	0.0	0.0
PIT 183	MPMH 35		10.0	0.0	0.5	5.0	0.0	2.5	1.5	9.0	5.0	3.9	3.3	3.6	10.0
PIT 184	HHB 67 Imp.		10.0	0.0	11.5	10.0	0.0	0.0	1.5	0.0	5.0	7.9	0.4	4.1	11.5
PIT 185	PB 1852		0.0	0.0	3.0	5.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.0	5.0
PIT 186	86M94		0.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.6	3.0
PIT 187	DHBH 1397		5.0	0.0	0.5	7.5	0.0	2.5	2.5	5.5	2.5	3.3	2.6	2.9	7.5
PIT 188	AHB 1269		2.5	0.0	1.0	7.5	0.0	0.0	3.0	6.5	1.3	2.8	2.4	2.6	7.5
PIT 189	Pratap		0.0	0.0	2.5	3.0	1.0	0.0	4.5	4.0	0.0	1.4	2.4	1.9	4.5
PIT 190	86M01		0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	2.6	0.0	1.3	10.5
PIT 191	86M84		0.0	0.0	0.0	0.0	0.0	0.0	4.5	6.5	0.0	0.0	2.8	1.4	6.5
PIT 192	KBH 108		1.0	0.0	0.0	2.5	0.0	0.0	5.0	4.5	0.5	0.9	2.4	1.6	5.0
PIT 193	MP 7878		0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.5	0.0	0.0	2.0	1.0	6.5

Table IV.3D: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Smut (severity %) at 60 DAS-*Kharif* 2025															
Project Code	**Entry Name**	**MDR**	**JPR**	**HSR**	**JMR**	**GLR**	**MYS**	**DHL**	**ABD1**	**CBE**	**Mean**				**MAX**
											Zone A_1	**Zone A**	**Zone B**	**India**	
PIT 194	86M86	**NOT RECORDED**	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.0	0.0	0.0	1.6	0.8	5.0
PIT 195	Kaveri S Boss		1.0	0.0	2.5	5.0	0.0	0.0	1.0	7.0	0.5	2.1	2.0	2.1	7.0
PIT 196	NBH 4903		0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	1.5	0.8	6.0
PIT 197	AHB 1200		7.5	0.0	1.5	2.5	0.5	0.0	2.0	6.5	3.8	2.9	2.3	2.6	7.5
PIT 198	Raj 171		0.0	0.0	0.5	10.0	0.0	0.0	4.0	5.0	0.0	2.6	2.3	2.4	10.0
PIT 199	JBV 2		0.0	0.0	2.0	5.5	0.0	0.0	4.5	0.0	0.0	1.9	1.1	1.5	5.5
PIT 200	Dhanshakti		0.0	0.0	2.5	7.5	0.0	0.0	3.5	5.0	0.0	2.5	2.1	2.3	7.5
PIT 201	ICMV 221		0.0	0.0	2.0	7.5	0.0	1.0	3.0	11.0	0.0	2.4	3.8	3.1	11.0
PIT 202	Pusa Comp. 38		0.0	0.0	0.5	3.0	0.0	0.0	1.5	8.0	0.0	0.9	2.4	1.6	8.0
PIT 203	Pusa Comp. 70		0.0	1.1	2.5	0.5	0.0	0.0	1.5	5.0	0.6	1.0	1.6	1.3	5.0
PIT 204	ABV 04		0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0	0.0	0.0	2.5	1.3	6.0
PIT 205	Pusa Comp. 61		0.0	0.0	1.5	2.5	0.5	0.0	2.0	6.5	0.0	1.0	2.3	1.6	6.5
PIT 206	ICMV 155		0.0	0.0	1.0	0.0	0.0	0.0	3.0	9.0	0.0	0.3	3.0	1.6	9.0
Entry Mean		**NA**	**3.5**	**0.9**	**1.8**	**3.6**	**0.2**	**0.7**	**4.8**	**4.7**	**2.2**	**2.5**	**2.6**	**2.5**	**4.8**

Table IV.3E: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Ergot severity at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 101	MH 2887	N	7.5	0.0	N	N	1.0	0.0	3.5	0.0	3.8	3.8	1.1	2.0	7.5
PIT 102	MH 2888	O	5.0	0.0	O	O	0.0	0.0	1.5	3.5	2.5	2.5	1.3	1.7	5.0
PIT 103	MH 2889	T	2.5	0.0	T	T	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 104	MH 2890		2.5	0.0			0.0	0.0	4.0	0.0	1.3	1.3	1.0	1.1	4.0
PIT 105	MH 2891	R	5.0	0.0	R	R	0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.8	5.0
PIT 106	MH 2892	E	10.0	0.0	E	E	1.0	0.0	3.5	0.0	5.0	5.0	1.1	2.4	10.0
PIT 107	MH 2893	C	10.0	0.0	C	C	0.0	0.0	0.0	0.0	5.0	5.0	0.0	1.7	10.0
PIT 108	MH 2894	O	12.5	0.0	O	O	0.0	0.0	1.0	0.0	6.3	6.3	0.3	2.3	12.5
PIT 109	MH 2895	R	2.5	0.0	R	R	0.0	0.0	0.0	1.5	1.3	1.3	0.4	0.7	2.5
PIT 110	MH 2896	D	10.0	0.0	D	D	0.0	0.0	0.5	3.5	5.0	5.0	1.0	2.3	10.0
PIT 111	MH 2897	E	25.0	0.0	E	E	0.0	0.0	1.0	0.0	12.5	12.5	0.3	4.3	25.0
PIT 112	MH 2898	D	0.0	0.0	D	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 113	MH 2899		15.0	0.0			0.0	0.0	3.0	0.0	7.5	7.5	0.8	3.0	15.0
PIT 114	MH 2900		0.0	0.0			0.0	0.0	2.0	0.0	0.0	0.0	0.5	0.3	2.0
PIT 115	MH 2901		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 116	MH 2902		5.0	0.0			0.0	0.0	1.0	0.0	2.5	2.5	0.3	1.0	5.0
PIT 117	MH 2903		5.0	0.0			0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.8	5.0
PIT 118	MH 2904		0.0	0.0			0.0	0.0	1.5	0.0	0.0	0.0	0.4	0.3	1.5
PIT 119	MH 2905		0.0	0.0			0.0	0.0	0.0	2.0	0.0	0.0	0.5	0.3	2.0
PIT 120	MH 2906		0.0	0.0			1.0	0.0	2.5	0.0	0.0	0.0	0.9	0.6	2.5
PIT 121	MH 2907		0.0	0.0			0.0	0.0	2.0	0.0	0.0	0.0	0.5	0.3	2.0
PIT 122	MH 2908		0.0	0.0			0.0	0.0	1.5	0.0	0.0		0.4	0.3	1.5
PIT 123	MH 2909		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5

Table IV.3E: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Ergot severity at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 124	MH 2910	N	0.0	0.0	N	N	0.0	0.0	1.5	0.0	0.0	0.0	0.4	0.3	1.5
PIT 125	MH 2911	O	5.0	0.0	O	O	0.0	0.0	1.0	0.0	2.5	2.5	0.3	1.0	5.0
PIT 126	MH 2912	T	2.5	0.0	T	T	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 127	MH 2913		3.8	0.0			1.0	0.0	0.0	0.0	1.9	1.9	0.3	0.8	3.8
PIT 128	MH 2914	R	3.8	0.0	R	R	1.0	0.0	1.5	2.5	1.9	1.9	1.3	1.5	3.8
PIT 129	MH 2915	E	10.0	0.0	E	E	0.5	0.0	3.0	0.0	5.0	5.0	0.9	2.3	10.0
PIT 130	MH 2916	C	0.0	0.0	C	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 131	MH 2917	O	0.0	0.0	O	O	0.0	0.0	1.0	0.0	0.0	0.0	0.3	0.2	1.0
PIT 132	MH 2918	R	0.0	0.0	R	R	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 133	MH 2919	D	2.5	0.0	D	D	1.0	0.0	1.0	0.0	1.3	1.3	0.5	0.8	2.5
PIT 134	MH 2920	E	2.5	0.0	E	E	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 135	MH 2921	D	5.0	0.0	D	D	0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.8	5.0
PIT 136	MH 2922		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 137	MH 2923		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 138	MH 2924		2.5	0.0			0.0	1.0	0.0	3.5	1.3	1.3	1.1	1.2	3.5
PIT 139	MH 2925		2.5	0.0			1.0	1.0	1.5	0.0	1.3	1.3	0.9	1.0	2.5
PIT 140	MH 2926		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 141	MH 2927		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 142	MH 2928		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 143	MH 2929		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 144	MH 2930		0.0	0.0			1.0	0.0	1.5	2.0	0.0	0.0	1.1	0.8	2.0
PIT 145	MH 2931		3.8	0.0			1.0	0.0	0.0	0.0	1.9	1.9	0.3	0.8	3.8
PIT 146	MH 2932		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 147	MH 2933		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 148	MH 2934		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 149	MH 2935		5.0	0.0			1.0	0.0	0.5	0.0	2.5	2.5	0.4	1.1	5.0

Table IV.3E: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Ergot severity at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 150	MH 2936	NOT RECORDED	0.0	0.0	NOT RECORDED	NOT RECORDED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 151	MH 2937		2.5	0.0			0.5	0.0	2.5	0.0	1.3	1.3	0.8	0.9	2.5
PIT 152	MH 2938		0.0	0.0			0.0	0.0	0.0	2.5	0.0	0.0	0.6	0.4	2.5
PIT 153	MH 2939		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 154	MH 2940		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 155	MH 2941		0.0	0.0			1.0	0.0	3.5	0.0	0.0	0.0	1.1	0.8	3.5
PIT 156	MH 2942		10.0	0.0			0.0	0.0	0.0	0.0	5.0	5.0	0.0	1.7	10.0
PIT 157	MH 2943		2.5	0.0			1.0	0.0	0.0	1.5	1.3	1.3	0.6	0.8	2.5
PIT 158	MH 2944		5.0	0.0			0.0	0.0	0.0	1.0	2.5	2.5	0.3	1.0	5.0
PIT 159	MH 2945		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 160	MH 2946		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 161	MH 2947		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 162	MH 2948		0.0	0.0			1.0	0.0	0.0	3.5	0.0	0.0	1.1	0.8	3.5
PIT 163	MH 2949		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 164	MH 2950		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 165	MH 2951		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 166	MH 2952		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 167	MH 2953		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 168	MH 2954		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 169	MH 2955		0.0	0.0			1.0	0.0	0.0	2.5	0.0	0.0	0.9	0.6	2.5
PIT 170	MH 2956		0.0	0.0			0.0	0.0	1.0	0.0	0.0	0.0	0.3	0.2	1.0
PIT 171	MP 652		0.0	0.0			0.0	0.0	3.0	0.0	0.0	0.0	0.8	0.5	3.0
PIT 172	MP 653		0.0	0.0			0.0	0.0	2.0	0.0	0.0	0.0	0.5	0.3	2.0
PIT 173	MP 654		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 174	MP 655		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 175	MP 656		0.0	0.0			0.0	0.0	0.0	2.0	0.0	0.0	0.5	0.3	2.0

Table IV.3E: Disease screening of Initial Pearl Millet Hybrids and Varieties (PMPT I): Ergot severity at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	Mean				MAX
											Zone A_1	Zone A	Zone B	India	
PIT 176	MP 657	N	0.0	0.0	N	N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 177	MP 658	O	0.0	0.0	O	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 178	MP 659	T	0.0	0.0	T	T	0.0	0.0	2.0	0.0	0.0	0.0	0.5	0.3	2.0
PIT 179	MP 660		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 180	MP 661	R	7.5	0.0	R	R	0.0	0.0	0.0	0.0	3.8	3.8	0.0	1.3	7.5
PIT 181	PB 1756	E	0.0	0.0	E	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 182	RHB 223	C	0.0	0.0	C	C	0.0	NG	0.0	-	0.0	0.0	0.0	0.0	0.0
PIT 183	MPMH 35	O	2.5	0.0	O	O	0.5	0.0	0.5	0.0	1.3	1.3	0.3	0.6	2.5
PIT 184	HHB 67 Imp.	R	2.5	0.0	R	R	0.0	0.0	0.0	2.5	1.3	1.3	0.6	0.8	2.5
PIT 185	PB 1852	D	10.0	0.0	D	D	0.0	0.0	0.0	0.0	5.0	5.0	0.0	1.7	10.0
PIT 186	86M94	E	0.0	0.0	E	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 187	DHBH 1397	D	0.0	0.0	D	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 188	AHB 1269		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 189	Pratap		0.0	0.0			1.0	0.0	0.5	1.5	0.0	0.0	0.8	0.5	1.5
PIT 190	86M01		0.0	0.0			0.0	0.0	2.0	0.0	0.0	0.0	0.5	0.3	2.0
PIT 191	86M84		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 192	KBH 108		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 193	MP 7878		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 194	86M86		0.0	0.0			0.0	0.0	1.0	1.0	0.0	0.0	0.5	0.3	1.0
PIT 195	Kaveri S Boss		3.5	0.0			0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.6	3.5
PIT 196	NBH 4903		0.0	0.0			0.0	0.0	1.5	0.0	0.0	0.0	0.4	0.3	1.5
PIT 197	AHB 1200		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 198	Raj 171		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 199	JBV 2		2.5	0.0			0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PIT 200	Dhanshakti		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 201	ICMV 221		0.0	0.0			1.0	0.0	2.5	1.5	0.0	0.0	1.3	0.8	2.5
PIT 202	Pusa Comp. 383		2.5	0.0			0.0	0.0	1.5	0.0	1.3	1.3	0.4	0.7	2.5
PIT 203	Pusa Comp. 701		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 204	ABV 04		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 205	Pusa Comp. 612		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PIT 206	ICMV 155		0.0	0.0			0.0	0.0	0.5	1.0	0.0	0.0	0.4	0.3	1.0
Entry Mean		**NA**	**4.6**	**0.0**	**NA**	**NA**	**0.2**	**0.0**	**1.4**	**1.7**	**2.3**	**2.3**	**0.8**	**1.3**	**4.6**

Table IV.4: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Downy mildew (%) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**72.1**	**76.3**	**88.9**	**60.3**	**70.2**	**83.2**	**84.9**	**86.3**	**74.6**	**80.4**	**79.1**	**73.6**	**82.2**	**77.4**	**88.9**
IR II	**7042S**	**70.8**	**76.4**	**85.7**	**54.0**	**68.3**	**78.1**	**62.7**	**86.5**	**72.7**	**79.6**	**77.6**	**71.0**	**75.0**	**72.8**	**86.5**
PAT 201	MH 2743	0.0	0.0	0.0	0.0	0.0	4.0	4.2	0.0	0.0	0.0	0.0	0.0	2.0	0.9	4.2
PAT 202	MH 2744	0.0	0.0	0.0	4.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.7	4.2
PAT 203	MH 2747	0.0	0.0	0.0	0.0	0.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	1.5	0.7	3.5
PAT 204	MH 2758	0.0	1.3	0.0	0.0	0.0	4.3	5.4	0.0	0.0	0.0	0.4	0.3	2.4	1.2	5.4
PAT 205	MH 2767	0.0	1.3	0.0	4.3	0.0	2.0	0.0	0.0	0.0	0.0	0.4	1.1	0.5	0.8	4.3
IR I	**7042S**	**71.8**	**80.6**	**81.3**	**68.3**	**71.0**	**84.2**	**92.1**	**86.3**	**75.0**	**80.6**	**77.9**	**74.6**	**84.4**	**78.9**	**92.1**
IR II	**7042S**	**70.4**	**78.0**	**73.0**	**55.2**	**69.5**	**81.4**	**60.9**	**84.2**	**77.9**	**81.1**	**73.8**	**69.2**	**76.1**	**72.3**	**84.2**
PAT 206	MH 2705	4.3	17.1	6.5	1.5	0.0	21.4	34.3	2.6	0.0	1.3	9.3	5.9	14.6	9.7	34.3
PAT 207	MH 2773	0.0	2.5	0.0	0.0	0.0	4.0	3.2	0.0	0.0	0.0	0.8	0.5	1.8	1.1	4.0
PAT 208	MH 2775	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.0
PAT 209	MH 2777	0.0	1.7	0.0	0.0	0.0	1.0	0.0	0.5	0.0	0.3	0.6	0.3	0.4	0.4	1.7
PAT 210	MH 2784	0.0	0.0	0.0	0.0	0.0	4.0	8.6	0.0	0.0	0.0	0.0	0.0	3.2	1.4	8.6
IR I	**7042S**	**71.0**	**82.9**	**96.6**	**69.7**	**72.3**	**80.6**	**84.9**	**76.3**	**74.5**	**75.4**	**83.5**	**78.5**	**79.1**	**78.7**	**96.6**
IR II	**7042S**	**71.0**	**75.8**	**89.6**	**60.6**	**70.0**	**80.0**	**55.4**	**80.0**	**77.3**	**78.7**	**78.8**	**73.4**	**73.2**	**73.3**	**89.6**
PAT 211	MH 2842	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.0
PAT 212	MH 2846	0.0	0.0	0.0	0.0	0.0	1.0	1.6	6.3	0.0	3.1	0.0	0.0	2.2	1.0	6.3
PAT 213	MH 2852	0.0	1.3	0.0	1.5	0.0	5.0	5.1	0.0	0.0	0.0	0.4	0.6	2.5	1.4	5.1
PAT 214	MH 2859	0.0	3.8	0.0	0.0	0.0	5.3	6.9	0.0	0.0	0.0	1.3	0.8	3.1	1.8	6.9
PAT 215	MH 2863	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	2.0
IR I	**7042S**	**70.7**	**78.1**	**88.9**	**70.5**	**71.2**	**82.2**	**90.3**	**80.0**	**72.3**	**76.2**	**79.2**	**75.9**	**81.2**	**78.2**	**90.3**
IR II	**7042S**	**70.5**	**75.0**	**83.3**	**61.0**	**69.8**	**86.2**	**62.5**	**80.0**	**84.1**	**82.1**	**76.3**	**71.9**	**78.2**	**74.7**	**86.2**
PAT 216	MH 2796	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.0
PAT 217	MH 2797	0.0	1.3	0.0	0.0	0.0	4.0	5.1	0.0	0.0	0.0	0.4	0.3	2.3	1.1	5.1
PAT 218	MH 2798	0.0	0.0	0.0	0.0	0.0	3.0	1.1	0.0	0.0	0.0	0.0	0.0	1.0	0.5	3.0
PAT 219	MH 2806	0.0	0.0	0.0	1.6	0.0	2.0	2.2	0.0	0.0	0.0	0.0	0.3	1.1	0.6	2.2
PAT 220	MH 2808	0.0	0.0	0.0	0.0	0.0	1.0	2.1	0.0	0.0	0.0	0.0	0.0	0.8	0.3	2.1

Table IV.4: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Downy mildew (%) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**71.2**	**78.1**	**83.3**	**67.1**	**73.2**	**82.0**	**79.4**	**83.8**	**72.0**	**77.9**	**77.6**	**74.6**	**79.3**	**76.7**	**83.8**
IR II	**7042S**	**70.7**	**72.3**	**85.0**	**60.0**	**71.0**	**80.1**	**38.0**	**84.2**	**82.6**	**83.4**	**76.0**	**71.8**	**71.2**	**71.5**	**85.0**
PAT 221	MH 2878	0.0	2.5	0.0	0.0	0.0	3.0	0.9	0.0	0.0	0.0	0.8	0.5	1.0	0.7	3.0
PAT 222	MH 2798	0.0	1.3	0.0	0.0	0.0	1.0	0.0	1.3	0.0	0.7	0.4	0.3	0.6	0.4	1.3
PAT 223	MH 2875	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	2.0
PAT 224	MP 640	0.0	3.8	0.0	0.0	0.0	6.0	8.5	0.0	0.0	0.0	1.3	0.8	3.6	2.0	8.5
PAT 225	MP 647	0.0	5.0	0.0	1.8	0.0	5.0	7.3	1.3	0.0	0.6	1.7	1.4	3.4	2.3	7.3
IR I	**7042S**	**72.4**	**85.7**	**91.9**	**59.7**	**71.3**	**81.3**	**80.6**	**83.8**	**100.3**	**92.0**	**83.3**	**76.2**	**86.5**	**80.8**	**100.3**
IR II	**7042S**	**71.4**	**74.0**	**89.7**	**61.7**	**69.5**	**82.4**	**65.2**	**84.2**	**72.5**	**78.4**	**78.4**	**73.3**	**76.1**	**74.5**	**89.7**
PAT 226	MP 648	0.0	2.5	4.9	1.6	0.0	7.0	15.7	0.0	2.9	1.5	2.5	1.8	6.4	3.8	15.7
PAT 227	HHB 67 Imp.	0.0	2.5	0.0	0.0	0.0	3.0	2.8	0.0	0.0	0.0	0.8	0.5	1.4	0.9	3.0
PAT 228	PB 1756	0.0	0.0	0.0	0.0	0.0	5.0	6.3	0.0	0.0	0.0	0.0	0.0	2.8	1.3	6.3
PAT 229	MPMH 35	0.0	5.0	0.0	0.0	0.0	5.8	7.5	0.0	0.0	0.0	1.7	1.0	3.3	2.0	7.5
PAT 230	RHB 223	0.0	8.8	0.0	NG	0.0	4.4	NG	0.0	-	NG	0.0	2.2	2.2	2.2	8.8
IR I	**7042S**	**71.9**	**82.6**	**88.9**	**68.8**	**72.7**	**75.4**	**78.1**	**77.9**	**75.4**	**76.7**	**81.1**	**77.0**	**76.7**	**76.9**	**88.9**
IR II	**7042S**	**70.3**	**75.0**	**96.0**	**60.9**	**70.3**	**73.1**	**61.7**	**82.1**	**76.2**	**79.1**	**80.4**	**74.5**	**73.3**	**73.9**	**96.0**
PAT 231	AHB 1269	0.0	5.0	0.0	0.0	0.0	6.3	9.6	2.5	0.0	1.3	1.7	1.0	4.6	2.6	9.6
PAT 232	86M01	0.0	36.3	0.0	0.0	0.0	5.4	6.9	0.0	0.0	0.0	12.1	7.3	3.1	5.4	36.3
PAT 233	Pratap	2.4	33.8	0.0	0.0	0.0	6.3	5.8	0.0	0.0	0.0	12.0	7.2	3.0	5.4	33.8
PAT 234	KBH 108	0.0	0.0	3.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.6	0.3	0.5	3.1
PAT 235	86M86	0.0	0.0	0.0	0.0	0.0	2.4	1.3	0.0	0.0	0.0	0.0	0.0	0.9	0.4	2.4
IR I	**7042S**	**71.8**	**77.8**	**61.0**	**71.4**	**71.0**	**82.3**	**80.0**	**83.8**	**72.8**	**78.3**	**70.2**	**70.6**	**79.7**	**74.6**	**83.8**
IR II	**7042S**	**70.8**	**82.5**	**92.6**	**61.2**	**70.2**	**82.4**	**42.9**	**78.5**	**76.9**	**77.7**	**82.0**	**75.5**	**70.2**	**73.1**	**92.6**
PAT 236	86M84	0.0	0.0	0.0	0.0	0.0	3.2	2.2	0.0	0.0	0.0	0.0	0.0	1.4	0.6	3.2
PAT 237	MP 7878	0.0	3.8	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	1.3	0.8	1.0	0.9	4.0
PAT 238	Kaveri Super Boss	0.0	3.8	0.0	0.0	0.0	4.5	0.0	1.0	0.0	0.5	1.3	0.8	1.4	1.0	4.5
PAT 239	NBH 4903	0.0	7.5	0.0	0.0	0.0	3.4	5.0	0.0	0.0	0.0	2.5	1.5	2.1	1.8	7.5
PAT 240	AHB 1200	0.0	0.0	0.0	5.8	0.0	12.0	9.1	0.0	0.0	0.0	0.0	1.2	5.3	3.0	12.0

Table IV.4: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Downy mildew (%) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**72.6**	**78.1**	**84.4**	**63.9**	**70.7**	**78.2**	**76.9**	**81.3**	**75.0**	**78.1**	**78.4**	**73.9**	**77.8**	**75.7**	**84.4**
IR II	**7042S**	**71.2**	**81.3**	**70.6**	**64.9**	**68.9**	**79.3**	**79.0**	**84.2**	**76.2**	**80.2**	**74.3**	**71.4**	**79.7**	**75.1**	**84.2**
PAT 241	Dhanshakti	2.2	1.4	0.0	0.0	0.0	17.0	15.9	0.0	2.9	1.5	1.2	0.7	8.9	4.4	17.0
PAT 242	ICMV 155	2.3	4.2	3.0	0.0	0.0	11.0	12.4	0.0	0.0	0.0	3.2	1.9	5.8	3.7	12.4
PAT 243	ICMV 221	2.5	5.6	0.0	0.0	0.0	6.0	4.4	0.0	3.0	1.5	2.7	1.6	3.3	2.4	6.0
PAT 244	Raj 171	0.0	12.7	0.0	0.0	0.0	8.0	10.9	0.0	0.0	0.0	4.2	2.5	4.7	3.5	12.7
PAT 245	ABV 04	0.0	3.1	0.0	0.0	0.0	3.0	1.6	0.0	0.0	0.0	1.0	0.6	1.1	0.8	3.1
PAT 246	Pusa Comp. 612	0.0	7.5	0.0	1.4	0.0	14.7	27.1	2.6	0.0	1.3	2.5	1.8	11.1	5.9	27.1
IR I	**7042S**	**71.8**	**86.7**	**90.0**	**52.2**	**72.3**	**79.4**	**93.6**	**91.3**	**77.6**	**84.4**	**82.8**	**74.6**	**85.5**	**79.4**	**93.6**
IR II	**7042S**	**72.0**	**83.9**	**88.9**	**70.2**	**70.2**	**80.3**	**77.8**	**84.4**	**85.0**	**84.7**	**81.6**	**77.0**	**81.9**	**79.2**	**88.9**
	Entry Mean	**0.8**	**4.8**	**0.9**	**1.3**	**0.2**	**4.7**	**7.6**	**1.1**	**0.4**	**0.6**	**2.2**	**1.9**	**3.5**	**2.4**	**7.6**
	IR1	**71.4**	**80.6**	**88.9**	**67.5**	**71.2**	**82.5**	**84.7**	**83.6**	**76.1**	**79.6**	**81.2**	**81.7**	**82.2**	**82.7**	**88.9**
	IR2	**70.8**	**76.8**	**87.2**	**60.6**	**69.5**	**79.7**	**63.9**	**83.5**	**78.6**	**80.3**	**78.4**	**79.0**	**79.6**	**80.2**	**87.2**

Table IV.5: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Downy mildew (%) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	DHL	ABD1	CBE	PTR	Mean Zone A	Zone A	Zone B	India	MAX
IR I	**7042S**	**100.0**	**81.6**	**92.1**	**93.7**	**76.6**	**98.5**	**94.5**	**96.3**	**85.2**	**98.0**	**91.2**	**88.8**	**93.6**	**90.9**	**100.0**
IR II	**7042S**	**100.0**	**78.2**	**94.3**	**87.3**	**74.3**	**98.0**	**76.1**	**95.9**	**84.8**	**96.0**	**90.8**	**86.8**	**88.7**	**87.7**	**100.0**
PAT 201	MH 2743	1.5	0.0	0.0	0.0	0.0	4.5	4.2	3.8	0.0	**0.0**	0.5	0.3	3.1	1.6	4.5
PAT 202	MH 2744	0.0	0.0	0.0	4.2	0.0	4.5	0.0	0.0	0.0	**0.0**	0.0	0.8	1.1	1.0	4.5
PAT 203	MH 2747	0.0	0.0	0.0	0.0	0.0	19.0	3.5	1.3	0.0	**36.6**	0.0	0.0	5.9	2.6	19.0
PAT 204	MH 2758	0.0	1.3	0.0	0.0	0.0	8.0	5.4	0.0	0.0	**1.2**	0.4	0.3	3.3	1.6	8.0
PAT 205	MH 2767	0.0	1.3	0.0	5.7	0.0	6.0	0.0	0.0	0.0	**0.0**	0.4	1.4	1.5	1.4	6.0
IR I	**7042S**	**100.0**	**83.3**	**90.6**	**100.0**	**74.5**	**98.5**	**96.8**	**96.3**	**83.3**	**98.0**	**91.3**	**89.7**	**93.7**	**91.5**	**100.0**
IR II	**7042S**	**100.0**	**78.0**	**86.5**	**88.1**	**73.2**	**99.0**	**79.7**	**96.1**	**86.2**	**96.0**	**88.2**	**85.2**	**90.2**	**87.4**	**100.0**
PAT 206	MH 2705	6.4	17.1	9.7	12.3	0.0	33.0	34.3	3.9	3.0	**2.2**	11.1	9.1	18.5	13.3	34.3
PAT 207	MH 2773	1.7	2.5	0.0	0.0	0.0	5.0	3.2	0.0	0.0	**1.3**	1.4	0.8	2.0	1.4	5.0
PAT 208	MH 2775	0.0	0.0	0.0	1.5	0.0	3.0	0.0	0.0	0.0	**0.0**	0.0	0.3	0.8	0.5	3.0
PAT 209	MH 2777	0.0	1.7	0.0	0.0	0.0	4.0	0.0	1.3	0.0	**1.1**	0.6	0.3	1.3	0.8	4.0
PAT 210	MH 2784	1.3	0.0	0.0	0.0	0.0	6.0	8.6	0.0	0.0	**1.3**	0.4	0.3	3.7	1.8	8.6
IR I	**7042S**	**100.0**	**85.4**	**96.6**	**86.4**	**76.2**	**99.0**	**100.0**	**98.8**	**86.1**	**100.0**	**94.0**	**88.9**	**96.0**	**92.0**	**100.0**
IR II	**7042S**	**100.0**	**77.4**	**66.7**	**81.7**	**72.4**	**97.5**	**80.0**	**85.0**	**89.5**	**98.0**	**81.4**	**79.6**	**88.0**	**83.4**	**100.0**
PAT 211	MH 2842	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	**0.0**	0.0	0.0	1.0	0.4	4.0
PAT 212	MH 2846	2.4	0.0	0.0	0.0	0.0	4.5	1.6	7.5	0.0	**1.9**	0.8	0.5	3.4	1.8	7.5
PAT 213	MH 2852	0.0	1.3	0.0	3.0	0.0	7.0	5.1	1.3	0.0	**3.1**	0.4	0.9	3.4	2.0	7.0
PAT 214	MH 2859	2.4	3.8	0.0	0.0	0.0	9.0	9.7	0.0	0.0	**6.5**	2.0	1.2	4.7	2.8	9.7
PAT 215	MH 2863	0.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	0.0	**0.0**	0.0	0.0	1.3	0.6	3.0

Table IV.5: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Downy mildew (%) at 60 DAS-Kharif 2025

IR I	**7042S**	**100.0**	**84.4**	**93.3**	**100.0**	**76.2**	**98.5**	**95.2**	**92.5**	**87.7**	**98.0**	**92.6**	**90.8**	**93.5**	**92.0**	**100.0**
IR II	**7042S**	**100.0**	**76.7**	**94.4**	**84.7**	**74.1**	**99.0**	**80.6**	**83.8**	**87.0**	**96.0**	**90.4**	**86.0**	**87.6**	**86.7**	**100.0**
PAT 216	MH 2796	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	**0.0**	0.0	0.0	1.0	0.4	4.0
PAT 217	MH 2797	0.0	1.3	0.0	0.0	0.0	6.0	5.1	0.0	0.0	**0.7**	0.4	0.3	2.8	1.4	6.0
PAT 218	MH 2798	0.0	0.0	0.0	0.0	0.0	4.5	1.1	0.0	0.0	**0.0**	0.0	0.0	1.4	0.6	4.5
PAT 219	MH 2806	0.0	0.0	0.0	4.8	0.0	4.0	2.2	2.6	0.0	**0.0**	0.0	1.0	2.2	1.5	4.8
PAT 220	MH 2808	0.0	0.0	0.0	0.0	0.0	4.0	2.1	0.0	0.0	**0.0**	0.0	0.0	1.5	0.7	4.0
IR I	**7042S**	**100.0**	**93.8**	**100.0**	**90.0**	**74.1**	**95.0**	**93.7**	**96.3**	**82.5**	**98.0**	**97.9**	**91.6**	**91.9**	**91.7**	**100.0**
IR II	**7042S**	**100.0**	**76.9**	**90.0**	**81.7**	**73.2**	**98.0**	**81.0**	**93.4**	**89.1**	**97.0**	**89.0**	**84.4**	**90.4**	**87.0**	**100.0**
PAT 221	MH 2878	0.0	2.5	0.0	0.0	0.0	4.5	0.9	0.0	0.0	**0.0**	0.8	0.5	1.3	0.9	4.5
PAT 222	MH 2798	0.0	1.3	0.0	0.0	0.0	4.0	0.0	13.1	0.0	**0.0**	0.4	0.3	4.3	2.0	13.1
PAT 223	MH 2875	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	**0.0**	0.0	0.0	1.0	0.4	4.0
PAT 224	MP 640	0.0	3.8	0.0	2.9	0.0	11.0	8.5	0.0	0.0	**3.3**	1.3	1.3	4.9	2.9	11.0
PAT 225	MP 647	2.0	5.0	0.0	3.6	0.0	13.0	9.4	2.5	0.0	**13.4**	2.3	2.1	6.2	3.9	13.0
IR I	**7042S**	**100.0**	**92.9**	**94.6**	**84.7**	**75.2**	**98.0**	**95.5**	**92.5**	**100.3**	**100.0**	**95.8**	**89.5**	**96.6**	**92.6**	**100.3**
IR II	**7042S**	**100.0**	**76.0**	**92.3**	**85.0**	**72.5**	**99.0**	**77.3**	**90.8**	**81.2**	**95.0**	**89.4**	**85.2**	**87.1**	**86.0**	**100.0**
PAT 226	MP 648	0.0	2.5	4.9	3.3	0.0	21.0	16.9	0.0	2.9	**4.0**	2.5	2.1	10.2	5.7	21.0
PAT 227	HHB 67 Imp.	0.0	2.5	0.0	2.9	0.0	4.5	2.8	0.0	0.0	**2.4**	0.8	1.1	1.8	1.4	4.5
PAT 228	PB 1756	0.0	0.0	0.0	0.0	0.0	8.0	6.3	0.0	0.0	**0.6**	0.0	0.0	3.6	1.6	8.0
PAT 229	MPMH 35	0.0	5.0	0.0	6.5	0.0	9.5	7.5	0.0	0.0	**2.4**	1.7	2.3	4.2	3.2	9.5
PAT 230	RHB 223	0.0	12.5	0.0	NG	0.0	10.0	NG	2.6	NG	**NG**	4.2	3.1	6.3	4.2	12.5
IR I	**7042S**	**100.0**	**82.6**	**87.0**	**98.4**	**78.5**	**99.0**	**93.8**	**98.7**	**81.1**	**98.0**	**89.9**	**89.3**	**93.1**	**91.0**	**100.0**
IR II	**7042S**	**100.0**	**78.3**	**94.0**	**84.4**	**76.4**	**95.0**	**71.7**	**92.3**	**87.4**	**96.0**	**90.8**	**86.6**	**86.6**	**86.6**	**100.0**
PAT 231	AHB 1269	4.3	5.0	0.0	3.3	0.0	17.0	9.6	3.8	1.4	**22.4**	3.1	2.5	7.9	4.9	17.0
PAT 232	86M01	0.0	37.5	0.0	0.0	0.0	15.0	8.3	0.0	0.0	**7.6**	12.5	7.5	5.8	6.8	37.5
PAT 233	Pratap	7.1	35.0	0.0	0.0	0.0	18.0	5.8	1.3	0.0	**2.8**	14.0	8.4	6.3	7.5	35.0
PAT 234	KBH 108	0.0	0.0	6.3	0.0	1.3	3.0	0.0	0.0	0.0	**0.0**	2.1	1.5	0.8	1.2	6.3
PAT 235	86M86	0.0	0.0	0.0	0.0	0.0	4.0	2.5	0.0	0.0	**1.1**	0.0	0.0	1.6	0.7	4.0
IR I	**7042S**	**100.0**	**91.7**	**61.0**	**91.1**	**79.7**	**94.0**	**96.0**	**96.3**	**88.1**	**98.0**	**84.2**	**84.7**	**93.6**	**88.6**	**100.0**

Table IV.5: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Downy mildew (%) at 60 DAS-Kharif 2025

IR II	**7042S**	**100.0**	**84.2**	**72.2**	**80.6**	**76.4**	**95.0**	**72.9**	**89.9**	**83.0**	**98.0**	**85.5**	**82.7**	**85.2**	**83.8**	**100.0**
PAT 236	86M84	0.0	0.0	0.0	0.0	0.0	4.0	2.2	0.0	0.0	**1.2**	0.0	0.0	1.6	0.7	4.0
PAT 237	MP 7878	0.0	3.8	0.0	0.0	0.0	4.8	0.0	0.0	0.0	**1.2**	1.3	0.8	1.2	1.0	4.8
PAT 238	Kaveri Super Boss	0.0	3.8	0.0	0.0	0.0	4.9	0.0	2.5	0.0	**0.0**	1.3	0.8	1.9	1.2	4.9
PAT 239	NBH 4903	1.3	7.5	0.0	0.0	0.0	8.0	5.0	0.0	0.0	**2.3**	2.9	1.8	3.2	2.4	8.0
PAT 240	AHB 1200	0.0	0.0	0.0	11.5	0.0	17.0	9.1	1.3	0.0	**15.0**	0.0	2.3	6.9	4.3	17.0
IR I	**7042S**	**100.0**	**87.5**	**75.0**	**93.4**	**76.0**	**95.0**	**93.9**	**92.5**	**82.6**	**100.0**	**87.5**	**86.4**	**91.0**	**88.4**	**100.0**
IR II	**7042S**	**100.0**	**82.8**	**62.7**	**77.2**	**73.2**	**98.0**	**83.9**	**92.1**	**82.2**	**96.0**	**81.9**	**79.2**	**89.0**	**83.6**	**100.0**
PAT 241	Dhanshakti	6.7	1.4	0.0	0.0	0.0	19.0	15.9	0.0	4.3	**2.5**	2.7	1.6	9.8	5.2	19.0
PAT 242	ICMV 155	6.8	5.6	6.1	4.9	1.6	16.0	12.4	0.0	0.0	**8.5**	6.2	5.0	7.1	5.9	16.0
PAT 243	ICMV 221	5.0	5.6	0.0	0.0	0.0	8.0	8.7	0.0	4.6	**3.4**	3.5	2.1	5.3	3.5	8.7
PAT 244	Raj 171	2.5	14.1	2.4	0.0	2.5	11.0	14.1	0.0	0.0	**13.4**	4.3	6.3	5.2	14.1	14.1
PAT 245	ABV 04	0.0	3.1	0.0	0.0	0.0	4.5	4.7	0.0	1.4	**3.0**	0.6	2.6	1.5	4.7	4.7
PAT 246	Pusa Comp. 612	1.3	8.2	0.0	1.4	0.0	31.0	27.1	6.4	0.0	**14.5**	2.2	16.1	8.4	31.0	31.0
IR I	**7042S**	**100.0**	**81.2**	**94.0**	**83.6**	**76.2**	**98.0**	**96.8**	**96.3**	**85.2**	**98.0**	**87.0**	**94.1**	**90.1**	**100.0**	**100.0**
IR II	**7042S**	**100.0**	**80.2**	**97.2**	**80.7**	**74.3**	**95.0**	**77.8**	**92.2**	**98.3**	**95.0**	**86.5**	**90.8**	**88.4**	**100.0**	**100.0**
Entry Mean		**1.7**	**4.6**	**1.5**	**2.8**	**0.3**	**9.2**	**9.6**	**2.2**	**1.0**	**4.6**	**2.4**	**5.5**	**3.7**	**9.6**	**9.6**
IR1		**100.0**	**86.6**	**91.8**	**90.2**	**75.8**	**82.5**	**94.6**	**95.4**	**85.8**	**98.0**	**87.9**	**87.6**	**87.3**	**87.0**	**86.8**
IR2		**100.0**	**78.6**	**88.0**	**83.4**	**73.4**	**80.2**	**78.9**	**91.7**	**86.5**	**96.0**	**83.8**	**83.6**	**83.4**	**83.2**	**82.9**

Table IV.6: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Blast (0-9 scale) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 201	MH 2743	0.0	1.0	1.9	0.0	1.5	1.0	1.0	1.0	0.0	NOT RECORDED	1.0	0.9	0.8	0.8	1.9
PAT 202	MH 2744	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0		0.7	0.4	0.0	0.2	2.0
PAT 203	MH 2747	0.0	1.0	0.9	0.1	0.0	1.0	0.0	3.0	0.0		0.6	0.4	1.0	0.7	3.0
PAT 204	MH 2758	0.0	1.0	0.9	0.2	0.0	1.0	0.0	1.0	0.0		0.6	0.4	0.5	0.5	1.0
PAT 205	MH 2767	0.0	1.0	1.2	0.0	1.0	0.0	0.0	0.0	0.0		0.7	0.6	0.0	0.4	1.2
PAT 206	MH 2705	0.0	1.0	1.5	0.0	1.0	1.0	0.0	0.5	0.0		0.8	0.7	0.4	0.6	1.5
PAT 207	MH 2773	0.0	0.0	2.1	0.2	1.0	0.0	0.0	1.0	0.0		0.7	0.7	0.3	0.5	2.1
PAT 208	MH 2775	0.0	0.0	1.8	0.0	0.5	0.5	0.0	0.5	0.0		0.6	0.5	0.3	0.4	1.8
PAT 209	MH 2777	0.0	0.5	1.4	0.0	0.5	0.5	1.0	0.5	0.0		0.6	0.5	0.5	0.5	1.4
PAT 210	MH 2784	0.0	1.0	1.4	0.0	0.5	0.0	0.0	1.0	0.0		0.8	0.6	0.3	0.4	1.4
PAT 211	MH 2842	0.0	1.5	1.6	0.1	0.5	0.0	0.0	1.0	0.0		1.0	0.7	0.3	0.5	1.6
PAT 212	MH 2846	0.0	1.0	1.4	0.1	0.0	0.0	0.0	1.0	0.0		0.8	0.5	0.3	0.4	1.4
PAT 213	MH 2852	0.0	1.0	2.7	0.0	0.5	0.0	0.0	0.0	0.0		1.2	0.8	0.0	0.5	2.7
PAT 214	MH 2859	0.0	1.0	1.4	0.3	1.0	0.5	1.0	0.0	0.0		0.8	0.7	0.4	0.6	1.4
PAT 215	MH 2863	0.0	1.0	1.5	0.0	1.0	0.0	0.0	1.0	0.0		0.8	0.7	0.3	0.5	1.5
PAT 216	MH 2796	0.0	0.5	1.9	0.0	0.5	1.0	2.0	1.0	0.0		0.8	0.6	1.0	0.8	2.0
PAT 217	MH 2797	0.0	0.5	1.4	0.0	0.0	0.5	0.0	0.0	0.0		0.6	0.4	0.1	0.3	1.4
PAT 218	MH 2798	0.0	1.0	1.5	0.0	0.0	0.5	0.0	0.0	0.0		0.8	0.5	0.1	0.3	1.5
PAT 219	MH 2806	0.5	1.0	2.0	0.2	1.0	0.5	1.0	0.5	0.0		1.2	0.9	0.5	0.7	2.0
PAT 220	MH 2808	0.0	1.0	1.6	0.0	0.0	0.5	0.0	0.0	0.5		0.9	0.5	0.3	0.4	1.6
PAT 221	MH 2878	0.0	1.0	1.4	0.1	1.0	0.5	0.0	1.0	0.5		0.8	0.7	0.5	0.6	1.4
PAT 222	MH 2798	0.0	1.0	1.3	0.0	0.0	0.5	1.0	0.0	0.0		0.8	0.5	0.4	0.4	1.3
PAT 223	MH 2875	0.0	1.0	1.4	0.0	0.0	1.0	0.0	0.0	0.5		0.8	0.5	0.4	0.4	1.4
PAT 224	MP 640	0.0	1.0	1.7	0.0	0.5	0.5	0.0	0.5	0.0		0.9	0.6	0.3	0.5	1.7
PAT 225	MP 647	0.0	1.0	1.2	0.1	1.0	1.0	1.0	2.0	0.0		0.7	0.7	1.0	0.8	2.0
PAT 226	MP 648	0.0	1.0	2.4	0.2	1.0	1.0	0.0	1.0	0.5		1.1	0.9	0.6	0.8	2.4

Table IV.6: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Blast (0-9 scale) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 227	HHB 67 Imp.	0.5	1.0	2.1	0.3	1.0	1.0	1.0	3.0	1.0		1.2	1.0	1.5	1.2	3.0
PAT 228	PB 1756	0.0	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0		0.6	0.3	0.0	0.2	1.2
PAT 229	MPMH 35	0.0	1.0	1.8	0.1	0.0	0.0	0.0	1.0	0.0		0.9	0.6	0.3	0.4	1.8
PAT 230	RHB 223	0.0	1.0	2.3	NG	0.0	1.0	1.0	NG	-		1.1	0.8	1.0	0.9	2.3
PAT 231	AHB 1269	0.0	1.0	1.3	0.3	1.0	1.0	0.0	3.0	0.0		0.8	0.7	1.0	0.8	3.0
PAT 232	86M01	0.5	1.0	1.7	0.5	1.0	1.0	0.0	3.0	1.0		1.1	0.9	1.3	1.1	3.0
PAT 233	Pratap	0.0	1.0	2.4	0.5	1.5	1.0	0.0	3.0	0.5		1.1	1.1	1.1	1.1	3.0
PAT 234	KBH 108	0.0	1.0	1.8	0.0	1.5	1.0	1.0	2.5	0.0		0.9	0.9	1.1	1.0	2.5
PAT 235	86M86	0.0	1.0	1.9	0.1	1.0	1.0	0.0	0.5	0.0		1.0	0.8	0.4	0.6	1.9
PAT 236	86M84	0.0	1.0	1.7	0.0	1.5	1.0	0.0	2.0	0.0		0.9	0.8	0.8	0.8	2.0
PAT 237	MP 7878	0.0	1.0	2.1	0.1	1.0	1.0	0.0	2.5	0.0		1.0	0.8	0.9	0.9	2.5
PAT 238	Kaveri Super Boss	0.0	1.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0		0.9	0.5	0.0	0.3	1.7
PAT 239	NBH 4903	0.0	1.0	2.4	0.0	0.5	0.0	1.0	1.0	0.0		1.1	0.8	0.5	0.7	2.4
PAT 240	AHB 1200	0.0	1.0	1.6	0.3	1.5	2.0	1.0	3.5	0.0		0.9	0.9	1.6	1.2	3.5
PAT 241	Dhanshakti	0.0	1.0	1.8	0.3	1.5	0.0	0.0	3.0	1.0		0.9	0.9	1.0	1.0	3.0
PAT 242	ICMV 155	0.0	1.5	2.0	0.0	1.0	1.0	1.0	2.5	0.0		1.2	0.9	1.1	1.0	2.5
PAT 243	ICMV 221	0.0	1.0	1.7	0.2	1.0	0.0	2.0	0.5	0.0		0.9	0.8	0.6	0.7	2.0
PAT 244	Raj 171	0.0	1.0	1.9	0.1	1.0	1.0	0.0	2.0	0.0		1.0	0.8	0.8	0.8	2.0
PAT 245	ABV 04	0.0	1.0	1.8	0.3	1.0	1.0	0.0	2.0	0.0		0.9	0.8	0.8	0.8	2.0
PAT 246	Pusa Comp. 612	0.0	1.0	1.8	0.0	1.0	1.0	0.0	3.0	0.0		0.9	0.8	1.0	0.9	3.0
	Mean	**0.0**	**0.9**	**1.7**	**0.1**	**0.7**	**0.6**	**0.4**	**1.3**	**0.1**		0.9	0.7	0.6	0.6	1.7
	ICMB 95444	**4**	**3.0**	**4.0**	**3.0**	**2.0**	**3.0**	**3.0**	**3.0**	**3.0**						

Table IV.6A: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Blast (0-9 scale) at 45 DAS-Kharif 2025																
Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 201	MH 2743	0.0	1.0	2.0	0.4	1.0	1.5	1.5	2.0	0.0	NOT RECORDED	1.0	0.9	1.3	1.0	2.0
PAT 202	MH 2744	0.0	0.5	1.9	0.8	0.0	0.5	0.0	1.0	0.5		0.8	0.6	0.5	0.6	1.9
PAT 203	MH 2747	0.0	1.0	1.0	0.4	0.0	2.0	0.0	4.0	0.5		0.7	0.5	1.6	1.0	4.0
PAT 204	MH 2758	0.0	1.0	1.4	0.6	2.0	1.5	0.0	2.0	0.0		0.8	1.0	0.9	0.9	2.0
PAT 205	MH 2767	0.0	1.0	1.7	0.2	2.0	0.5	0.0	0.0	0.0		0.9	1.0	0.1	0.6	2.0
PAT 206	MH 2705	0.0	1.0	1.7	0.0	1.0	1.0	0.0	1.5	0.0		0.9	0.7	0.6	0.7	1.7
PAT 207	MH 2773	0.0	0.5	2.3	0.4	1.0	0.5	1.0	1.5	0.0		0.9	0.8	0.8	0.8	2.3
PAT 208	MH 2775	0.0	0.0	2.1	0.0	1.0	0.5	0.0	1.5	0.0		0.7	0.6	0.5	0.6	2.1
PAT 209	MH 2777	0.0	0.5	1.6	0.0	1.0	0.5	1.0	1.5	0.0		0.7	0.6	0.8	0.7	1.6
PAT 210	MH 2784	0.0	1.0	1.7	0.0	1.0	0.5	0.0	1.5	0.0		0.9	0.7	0.5	0.6	1.7
PAT 211	MH 2842	0.0	1.0	1.9	0.0	0.0	0.5	0.0	2.0	0.0		1.0	0.6	0.6	0.6	2.0
PAT 212	MH 2846	0.0	1.0	1.5	0.4	0.0	0.5	0.5	2.0	0.0		0.8	0.6	0.8	0.7	2.0
PAT 213	MH 2852	0.0	1.0	4.5	0.0	1.0	0.5	0.0	1.5	0.5		1.8	1.3	0.6	1.0	4.5
PAT 214	MH 2859	0.0	1.0	1.6	0.4	1.0	1.0	1.0	0.5	0.0		0.9	0.8	0.6	0.7	1.6
PAT 215	MH 2863	0.0	1.5	1.2	0.0	1.0	1.0	0.0	2.0	0.0		0.9	0.7	0.8	0.7	2.0
PAT 216	MH 2796	0.0	0.5	2.3	0.0	0.0	1.5	2.5	2.0	0.0		0.9	0.6	1.5	1.0	2.5
PAT 217	MH 2797	0.0	1.0	1.7	0.0	0.0	1.0	0.0	0.0	0.0		0.9	0.5	0.3	0.4	1.7
PAT 218	MH 2798	0.0	1.0	1.7	0.0	0.0	1.0	0.0	0.0	0.0		0.9	0.5	0.3	0.4	1.7
PAT 219	MH 2806	0.5	1.0	3.4	0.4	0.0	1.0	2.0	1.5	0.0		1.6	1.1	1.1	1.1	3.4
PAT 220	MH 2808	0.0	1.0	1.5	0.0	1.0	1.0	0.0	0.5	1.5		0.8	0.7	0.8	0.7	1.5
PAT 221	MH 2878	0.0	1.0	1.5	0.2	1.0	1.0	0.0	2.0	1.0		0.8	0.7	1.0	0.9	2.0
PAT 222	MH 2798	0.0	1.0	1.3	0.0	0.0	1.0	1.5	0.0	0.0		**0.8**	**0.5**	**0.6**	**0.5**	**1.5**
PAT 223	MH 2875	0.0	1.0	1.4	0.0	1.0	1.0	0.0	0.5	1.0		**0.8**	**0.7**	**0.6**	**0.7**	**1.4**
PAT 224	MP 640	0.0	1.0	2.1	0.0	1.0	1.0	0.0	1.5	0.0		**1.0**	**0.8**	**0.6**	**0.7**	**2.1**
PAT 225	MP 647	0.0	1.0	1.5	0.8	1.0	2.0	2.0	3.0	0.0		**0.8**	**0.9**	**1.8**	**1.3**	**3.0**
PAT 226	MP 648	0.0	1.0	3.8	0.4	1.0	1.5	0.0	2.0	1.5		**1.6**	**1.2**	**1.3**	**1.2**	**3.8**

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 227	HHB 67 Imp.	0.5	1.5	3.6	3.6	1.0	1.5	1.0	4.0	2.5	NOT RECORDED	1.9	2.0	2.3	2.1	4.0
PAT 228	PB 1756	0.0	1.5	1.2	0.0	1.0	1.0	0.0	1.0	0.0		0.9	0.7	0.5	0.6	1.5
PAT 229	MPMH 35	0.0	1.0	2.0	0.6	1.0	1.5	0.0	2.5	0.0		1.0	0.9	1.0	1.0	2.5
PAT 230	RHB 223	0.0	1.0	2.4	NG	0.0	1.5	0.0	NG	-		1.1	0.9	0.8	0.8	2.4
PAT 231	AHB 1269	0.0	2.5	1.7	1.6	2.0	1.5	0.0	4.0	0.0		1.4	1.6	1.4	1.5	4.0
PAT 232	86M01	0.5	2.5	1.8	1.2	2.0	3.0	0.0	4.5	2.5		1.6	1.6	2.5	2.0	4.5
PAT 233	Pratap	0.0	3.0	3.5	1.8	2.0	2.0	0.0	4.0	1.5		2.2	2.1	1.9	2.0	4.0
PAT 234	KBH 108	0.0	2.5	1.9	0.6	2.0	2.5	2.0	4.0	0.0		1.5	1.4	2.1	1.7	4.0
PAT 235	86M86	0.0	2.5	2.2	0.2	1.0	1.5	0.0	1.5	0.0		1.6	1.2	0.8	1.0	2.5
PAT 236	86M84	0.0	1.0	2.4	0.6	1.0	1.5	0.0	3.0	0.0		1.1	1.0	1.1	1.1	3.0
PAT 237	MP 7878	0.0	1.5	2.5	1.2	3.0	2.1	0.0	3.5	0.0		1.3	1.6	1.4	1.5	3.5
PAT 238	Kaveri Super Boss	0.0	1.0	1.6	0.0	1.0	1.5	0.0	1.0	0.0		0.9	0.7	0.6	0.7	1.6
PAT 239	NBH 4903	0.0	1.0	2.4	0.0	2.0	1.0	2.0	2.0	0.0		1.1	1.1	1.3	1.2	2.4
PAT 240	AHB 1200	0.0	2.0	1.8	0.6	4.0	3.0	2.0	4.5	0.5		1.3	1.7	2.5	2.0	4.5
PAT 241	Dhanshakti	0.0	2.0	1.8	1.0	2.0	1.0	0.0	4.0	2.5		1.3	1.4	1.9	1.6	4.0
PAT 242	ICMV 155	0.0	2.5	2.7	0.0	1.0	2.0	1.0	3.5	0.5		1.7	1.2	1.8	1.5	3.5
PAT 243	ICMV 221	0.0	1.5	2.3	0.6	1.0	1.0	2.0	1.0	0.0		1.3	1.1	1.0	1.0	2.3
PAT 244	Raj 171	0.0	1.0	2.0	0.8	1.0	1.5	0.0	3.0	0.0		1.0	1.0	1.1	1.0	3.0
PAT 245	ABV 04	0.0	1.5	2.1	2.2	1.0	1.5	1.0	3.0	0.0		1.2	1.4	1.4	1.4	3.0
PAT 246	Pusa Comp. 612	0.0	1.0	2.1	0.2	0.0	2.0	1.0	4.5	0.0		1.4	1.5	1.5	1.6	4.5
MEAN		**0.0**	**1.2**	**2.0**	**0.5**	**1.2**	**1.2**	**0.7**	**2.2**	**0.4**	**NA**	**1.1**	**1.0**	**1.0**	**0.7**	**2.2**
ICMB 95444		**5.0**	**5.0**	**4.0**	**4.0**	**3.0**	**5.0**	**4.0**	**6.0**	**3.0**						

Table IV.6B: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Blast (0-9 scale) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 201	MH 2743	0.0	2.0	2.2	1.0	0.5	2.5	3.5	3.0	0.0	5.0	1.4	1.1	2.3	1.6	3.5
PAT 202	MH 2744	0.0	1.5	2.2	1.9	0.0	2.0	2.5	2.5	0.0	4.0	1.2	1.1	1.8	1.4	2.5
PAT 203	MH 2747	1.0	2.0	1.6	1.3	0.0	3.0	1.5	5.0	1.5	6.0	1.5	1.2	2.8	1.9	5.0
PAT 204	MH 2758	0.0	2.5	1.6	2.2	1.5	2.0	3.0	3.0	0.0	5.5	1.4	1.6	2.0	1.8	3.0
PAT 205	MH 2767	0.0	2.0	1.9	1.7	1.0	1.0	0.0	0.5	1.0	4.5	1.3	1.3	0.6	1.0	2.0
PAT 206	MH 2705	0.0	2.5	2.0	0.4	1.5	2.0	0.5	2.5	0.0	4.0	1.5	1.3	1.3	1.3	2.5
PAT 207	MH 2773	0.0	1.0	2.5	1.0	1.0	1.5	1.5	2.5	0.0	3.0	1.2	1.1	1.4	1.2	2.5
PAT 208	MH 2775	0.0	0.5	2.1	0.3	0.5	2.0	0.0	2.5	0.0	4.5	0.9	0.7	1.1	0.9	2.5
PAT 209	MH 2777	0.0	2.0	2.0	0.2	0.5	2.0	1.5	3.0	0.0	3.5	1.3	0.9	1.6	1.2	3.0
PAT 210	MH 2784	0.0	1.5	2.0	0.1	0.5	2.0	0.0	3.0	0.0	3.0	1.2	0.8	1.3	1.0	3.0
PAT 211	MH 2842	0.0	1.5	3.1	0.6	0.0	2.0	0.0	3.0	0.0	3.5	1.5	1.0	1.3	1.1	3.1
PAT 212	MH 2846	0.5	1.5	2.0	2.3	0.0	2.0	0.0	3.0	0.0	3.0	1.3	1.3	1.3	1.3	3.0
PAT 213	MH 2852	0.0	1.5	5.2	0.2	0.5	2.0	0.5	2.5	1.5	3.5	2.2	1.5	1.6	1.5	5.2
PAT 214	MH 2859	0.0	1.5	2.1	1.7	0.5	2.0	1.5	1.5	0.0	4.0	1.2	1.2	1.3	1.2	2.1
PAT 215	MH 2863	0.5	2.0	1.7	0.1	1.0	3.0	0.0	3.0	0.0	3.0	1.4	1.1	1.5	1.3	3.0
PAT 216	MH 2796	0.0	1.0	2.6	0.8	0.0	2.0	1.5	3.0	1.0	4.5	1.2	0.9	1.9	1.3	3.0
PAT 217	MH 2797	0.0	1.0	1.8	0.0	0.0	2.0	1.0	0.0	0.0	3.5	0.9	0.6	0.8	0.6	2.0
PAT 218	MH 2798	0.0	1.0	1.9	0.0	0.0	1.5	1.0	0.5	0.0	4.0	1.0	0.6	0.8	0.7	1.9
PAT 219	MH 2806	1.0	1.5	5.1	2.1	0.0	2.0	2.5	2.5	0.0	3.5	2.5	1.9	1.8	1.9	5.1
PAT 220	MH 2808	0.0	1.0	1.9	0.5	0.5	1.5	0.0	1.0	2.5	3.0	1.0	0.8	1.3	1.0	2.5

Table IV.6B: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Blast (0-9 scale) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 221	MH 2878	0.5	1.5	1.7	3.5	1.0	2.0	0.0	3.0	2.0	3.5	1.2	1.6	1.8	1.7	3.5
PAT 222	MH 2798	1.0	1.0	1.8	0.1	0.0	1.5	1.0	0.5	0.0	3.5	1.3	0.8	0.8	0.8	1.8
PAT 223	MH 2875	0.0	1.0	2.0	0.4	1.0	2.0	0.5	1.0	1.5	3.5	1.0	0.9	1.3	1.0	2.0
PAT 224	MP 640	0.5	2.0	2.1	0.5	1.0	2.0	0.0	2.5	0.0	5.0	1.5	1.2	1.1	1.2	2.5
PAT 225	MP 647	1.0	2.0	1.7	2.5	1.0	4.0	4.5	4.5	0.5	5.0	1.6	1.6	3.4	2.4	4.5
PAT 226	MP 648	0.5	2.5	5.1	4.1	1.5	2.0	1.5	3.0	2.5	6.0	2.7	2.7	2.3	2.5	5.1
PAT 227	HHB 67 Imp.	1.5	2.5	5.4	5.6	1.5	4.0	3.0	5.5	3.5	5.0	3.1	3.3	4.0	3.6	5.6
PAT 228	PB 1756	0.0	2.0	2.1	1.7	1.0	2.0	1.5	2.0	0.0	4.5	1.4	1.4	1.4	1.4	2.1
PAT 229	MPMH 35	0.5	2.5	2.4	1.9	1.5	2.0	0.0	4.0	0.0	5.5	1.8	1.8	1.5	1.6	4.0
PAT 230	RHB 223	0.0	2.5	3.0	NG	0.0	2.0	0.0	NG	NG	NG	1.8	1.4	1.0	1.3	3.0
PAT 231	AHB 1269	1.0	3.0	2.2	4.2	1.5	4.0	1.0	5.0	0.0	4.5	2.1	2.4	2.5	2.4	5.0
PAT 232	86M01	3.5	4.0	2.7	4.3	2.0	4.5	0.5	5.5	4.0	4.5	3.4	3.3	3.6	3.4	5.5
PAT 233	Pratap	3.5	5.0	4.5	5.3	2.5	3.0	1.5	5.0	2.5	5.0	4.3	4.2	3.0	3.6	5.3
PAT 234	KBH 108	4.5	5.0	2.3	3.4	2.0	4.0	0.0	5.0	0.0	3.0	3.9	3.4	2.3	2.9	5.0
PAT 235	86M86	0.0	2.5	2.5	2.7	1.0	2.0	2.0	2.5	0.0	6.0	1.7	1.7	1.6	1.7	2.7
PAT 236	86M84	0.0	3.0	2.5	2.7	1.0	4.0	1.5	4.0	0.0	3.0	1.8	1.8	2.4	2.1	4.0
PAT 237	MP 7878	0.0	3.0	2.6	3.2	2.0	3.0	0.0	5.0	0.0	3.0	1.9	2.2	2.0	2.1	5.0
PAT 238	Kaveri Super Boss	0.0	2.0	1.9	1.3	0.5	2.0	1.0	2.0	0.0	4.0	1.3	1.1	1.3	1.2	2.0
PAT 239	NBH 4903	0.0	2.0	2.8	1.4	1.0	3.0	0.0	3.0	0.0	4.0	1.6	1.4	1.5	1.5	3.0
PAT 240	AHB 1200	4.0	4.0	2.1	4.6	3.0	3.0	2.5	5.5	1.0	4.5	3.4	3.5	3.0	3.3	5.5
PAT 241	Dhanshakti	1.0	3.0	2.2	4.1	2.0	2.0	1.0	5.0	3.5	5.5	2.1	2.5	2.9	2.6	5.0
PAT 242	ICMV 155	0.0	3.5	2.7	0.3	1.5	4.0	1.5	4.5	1.5	4.0	2.1	1.6	2.9	2.2	4.5
PAT 243	ICMV 221	1.0	4.0	2.6	2.9	0.5	2.0	2.5	2.5	0.5	5.0	2.5	2.2	1.9	2.1	4.0
PAT 244	Raj 171	0.0	2.5	2.8	2.3	1.5	3.0	0.0	4.0	0.0	4.5	1.8	1.8	1.8	1.8	4.0
PAT 245	ABV 04	0.0	3.5	2.2	4.1	0.5	3.0	1.5	4.5	0.0	4.5	1.9	2.1	2.3	2.1	4.5
PAT 246	Pusa Comp. 612	0.0	2.5	2.2	1.5	0.0	3.0	3.0	5.5	0.0	4.5	1.6	1.2	2.9	2.0	5.5
	Mean	**0.4**	**2.2**	**2.5**	**1.7**	**1.1**	**2.3**	**1.4**	**3.3**	**0.7**	**4.2**	**2.0**	**2.0**	**2.1**	**1.9**	**3.3**
	ICMB 95444	**8.0**	**7.5**	**7.0**	**6.0**	**7.5**	**6.0**	**8.0**	**6.0**	**8.0**	**8.0**					

Table IV.6C: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Rust (% leaf area) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 201	MH 2743	NOT RECORDED	0.0	0.0	0.0	0.0	14.0	3.5	30.0	15.0	25.0	0.0	0.0	15.6	7.8	30.0
PAT 202	MH 2744		0.0	0.0	0.0	0.0	21.0	4.0	35.0	10.0	50.0	0.0	0.0	17.5	8.8	35.0
PAT 203	MH 2747		0.0	0.0	0.0	0.0	13.0	3.5	12.5	8.0	10.0	0.0	0.0	9.3	4.6	13.0
PAT 204	MH 2758		0.0	0.0	0.0	0.0	15.0	3.0	10.0	15.0	30.0	0.0	0.0	10.8	5.4	15.0
PAT 205	MH 2767		0.0	0.0	0.0	0.0	9.0	0.0	12.5	5.0	10.0	0.0	0.0	6.6	3.3	12.5
PAT 206	MH 2705		0.0	0.0	0.0	0.0	11.0	2.0	5.0	12.0	12.5	0.0	0.0	7.5	3.8	12.0
PAT 207	MH 2773		0.0	0.0	0.0	0.0	14.0	0.0	5.0	15.0	20.0	0.0	0.0	8.5	4.3	15.0
PAT 208	MH 2775		0.0	0.0	0.0	0.0	17.0	4.0	7.5	15.0	35.0	0.0	0.0	10.9	5.4	17.0
PAT 209	MH 2777		0.0	0.0	0.0	0.0	27.0	0.0	7.5	8.0	35.0	0.0	0.0	10.6	5.3	27.0
PAT 210	MH 2784		0.0	1.5	0.0	0.0	31.0	5.0	7.5	10.0	35.0	0.8	0.4	13.4	6.9	31.0
PAT 211	MH 2842		0.0	0.0	0.0	0.0	26.0	0.5	15.0	12.0	20.0	0.0	0.0	13.4	6.7	26.0
PAT 212	MH 2846		0.0	0.0	0.0	0.0	11.0	3.5	5.0	5.0	15.0	0.0	0.0	6.1	3.1	11.0
PAT 213	MH 2852		0.0	0.0	0.0	0.0	19.0	0.5	7.5	10.0	15.0	0.0	0.0	9.3	4.6	19.0
PAT 214	MH 2859		0.0	0.0	0.0	0.0	21.0	4.0	2.5	5.0	25.0	0.0	0.0	8.1	4.1	21.0
PAT 215	MH 2863		0.0	0.0	0.0	0.0	24.0	1.5	2.5	8.0	30.0	0.0	0.0	9.0	4.5	24.0
PAT 216	MH 2796		0.0	2.0	0.0	0.0	27.0	2.0	10.0	8.0	30.0	1.0	0.5	11.8	6.1	27.0
PAT 217	MH 2797		0.0	0.0	0.0	0.0	18.0	1.5	5.0	0.0	15.0	0.0	0.0	6.1	3.1	18.0
PAT 218	MH 2798		0.0	0.0	0.0	0.0	31.0	2.0	5.0	5.0	30.0	0.0	0.0	10.8	5.4	31.0
PAT 219	MH 2806		0.0	0.0	0.0	0.0	17.0	1.5	7.5	6.0	25.0	0.0	0.0	8.0	4.0	17.0
PAT 220	MH 2808		0.0	0.0	0.0	0.0	11.0	1.0	5.0	0.0	10.0	0.0	0.0	4.3	2.1	11.0

Table IV.6C: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Rust (% leaf area) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 221	MH 2878	N	0.0	0.0	0.0	0.0	24.0	0.5	15.0	5.0	17.5	0.0	0.0	11.1	5.6	24.0
PAT 222	MH 2798	O	0.0	0.0	0.0	0.0	27.0	0.0	10.0	5.0	30.0	0.0	0.0	10.5	5.3	27.0
PAT 223	MH 2875	T	0.0	0.0	0.0	0.0	21.0	1.0	10.0	8.0	30.0	0.0	0.0	10.0	5.0	21.0
PAT 224	MP 640		0.0	0.0	0.0	0.0	18.0	0.5	5.0	10.0	22.5	0.0	0.0	8.4	4.2	18.0
PAT 225	MP 647	R	0.0	1.0	0.0	0.0	21.0	0.0	7.5	8.0	25.0	0.5	0.3	9.1	4.7	21.0
PAT 226	MP 648	E	0.0	0.0	0.0	0.0	23.0	0.5	10.0	4.0	25.0	0.0	0.0	9.4	4.7	23.0
PAT 227	HHB 67 Imp.	C	0.0	0.0	0.0	0.0	32.0	3.5	7.5	12.0	35.0	0.0	0.0	13.8	6.9	32.0
PAT 228	PB 1756	O	0.0	0.0	0.0	0.0	27.0	1.5	5.0	15.0	25.0	0.0	0.0	12.1	6.1	27.0
PAT 229	MPMH 35	R	0.0	0.0	0.0	0.0	26.0	1.0	25.0	8.0	20.0	0.0	0.0	15.0	7.5	26.0
PAT 230	RHB 223	D	0.0	0.0	NG	0.0	21.0	2.0	NG	-	NG	0.0	0.0	11.5	4.6	21.0
PAT 231	AHB 1269	E	0.0	0.0	0.0	0.0	28.0	1.5	0.0	10.0	25.0	0.0	0.0	9.9	4.9	28.0
PAT 232	86M01	D	0.0	0.5	0.0	0.0	19.0	0.0	2.5	10.0	25.0	0.3	0.1	7.9	4.0	19.0
PAT 233	Pratap		0.0	0.0	0.0	0.0	21.0	1.0	0.0	8.0	30.0	0.0	0.0	7.5	3.8	21.0
PAT 234	KBH 108		0.0	0.0	0.0	0.0	29.0	0.0	0.0	8.0	30.0	0.0	0.0	9.3	4.6	29.0
PAT 235	86M86		0.0	0.0	0.0	0.0	31.0	0.0	10.0	5.0	15.0	0.0	0.0	11.5	5.8	31.0
PAT 236	86M84		0.0	0.5	0.0	0.0	17.0	2.5	0.0	0.0	10.0	0.3	0.1	4.9	2.5	17.0
PAT 237	MP 7878		0.0	0.0	0.0	0.0	32.0	0.0	2.5	3.0	27.5	0.0	0.0	9.4	4.7	32.0
PAT 238	Kaveri Super Boss		0.0	0.0	0.0	0.0	34.0	4.0	7.5	10.0	35.0	0.0	0.0	13.9	6.9	34.0
PAT 239	NBH 4903		0.0	0.0	0.0	0.0	21.0	0.0	7.5	10.0	17.5	0.0	0.0	9.6	4.8	21.0
PAT 240	AHB 1200		0.0	0.0	0.0	0.0	17.0	0.5	2.5	8.0	30.0	0.0	0.0	7.0	3.5	17.0
PAT 241	Dhanshakti		0.0	0.0	0.0	0.0	21.0	4.5	12.5	10.0	25.0	0.0	0.0	12.0	6.0	21.0
PAT 242	ICMV 155		0.0	0.0	0.0	0.0	24.0	2.5	5.0	8.0	25.0	0.0	0.0	9.9	4.9	24.0
PAT 243	ICMV 221		0.0	0.0	0.0	0.0	26.0	2.5	7.5	10.0	35.0	0.0	0.0	11.5	5.8	26.0
PAT 244	Raj 171		0.0	0.0	0.0	0.0	24.0	2.5	25.0	12.0	25.0	0.0	0.0	15.9	7.9	25.0
PAT 245	ABV 04		0.0	0.0	0.0	0.0	25.0	2.0	5.0	8.0	25.0	0.0	0.0	10.0	5.0	25.0
PAT 246	Pusa Comp. 612		0.0	0.0	0.0	0.0	20.0	1.0	15.0	10.0	20.0	0.0	0.0	11.5	5.8	20.0
Mean			**0.0**	**0.1**	**0.0**	**0.0**	**22.9**	**1.8**	**9.8**	**8.9**	**24.5**	**0.1**	**0.0**	**10.9**	**5.4**	**22.9**

Table IV.6D: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Smut (severity %) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A1	Zone A	Zone B	India	
PAT 201	MH 2743	NOT RECORDED	0.0	0.0	5.5	0.0	1.0	4.5	0.0	7.0	0.0	0.0	1.4	3.1	2.3	7.0
PAT 202	MH 2744		0.0	0.0	9.5	0.0	2.0	3.0	0.0	6.5	7.5	0.0	2.4	2.9	2.6	9.5
PAT 203	MH 2747		5.0	0.0	0.0	2.5	0.0	2.0	1.0	7.5	0.0	2.5	1.9	2.6	2.3	7.5
PAT 204	MH 2758		5.0	0.0	0.5	0.5	0.0	3.5	0.0	8.0	0.0	2.5	1.5	2.9	2.2	8.0
PAT 205	MH 2767		0.0	0.0	1.0	0.0	2.0	7.5	0.0	3.0	2.5	0.0	0.3	3.1	1.7	7.5
PAT 206	MH 2705		0.0	16.0	0.0	10.0	0.0	5.0	0.0	9.0	0.0	8.0	6.5	3.5	5.0	16.0
PAT 207	MH 2773		2.5	0.0	16.0	0.0	0.0	9.0	0.0	7.0	0.0	1.3	4.6	4.0	4.3	16.0
PAT 208	MH 2775		0.0	0.0	2.5	0.5	0.0	10.0	0.0	11.0	0.0	0.0	0.8	5.3	3.0	11.0
PAT 209	MH 2777		0.0	0.0	0.0	2.5	1.0	10.0	0.0	2.5	0.0	0.0	0.6	3.4	2.0	10.0
PAT 210	MH 2784		0.0	0.0	5.5	0.5	0.0	9.0	0.0	6.5	0.0	0.0	1.5	3.9	2.7	9.0
PAT 211	MH 2842		0.0	0.0	0.5	0.0	1.0	13.5	0.0	6.0	0.0	0.0	0.1	5.1	2.6	13.5
PAT 212	MH 2846		0.0	0.5	0.5	0.0	1.0	10.0	0.0	2.0	0.0	0.3	0.3	3.3	1.8	10.0
PAT 213	MH 2852		0.0	0.0	0.0	0.0	0.0	7.5	0.0	6.0	0.0	0.0	0.0	3.4	1.7	7.5
PAT 214	MH 2859		0.0	0.0	0.0	0.0	0.0	3.5	0.0	1.0	0.0	0.0	0.0	1.1	0.6	3.5
PAT 215	MH 2863		0.0	0.0	0.0	2.5	0.0	6.0	0.0	4.0	0.0	0.0	0.6	2.5	1.6	6.0
PAT 216	MH 2796		0.0	0.0	6.0	0.0	1.0	10.0	0.0	5.0	0.0	0.0	1.5	4.0	2.8	10.0
PAT 217	MH 2797		0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.9	0.4	3.5
PAT 218	MH 2798		0.0	1.7	15.0	0.0	0.0	7.5	0.0	1.5	0.0	0.9	4.2	2.3	3.2	15.0
PAT 219	MH 2806		0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.0	0.0	0.0	0.0	1.8	0.9	5.0
PAT 220	MH 2808		0.0	0.0	1.5	0.0	1.0	11.5	0.0	0.0	0.0	0.0	0.4	3.1	1.8	11.5

Table IV.6D: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Smut (severity %) at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A1	Zone A	Zone B	India	
PAT 221	MH 2878	NOT RECORDED	0.0	0.0	0.0	0.0	0.0	7.5	0.0	1.0	0.0	0.0	0.0	2.1	1.1	7.5
PAT 222	MH 2798		0.0	0.0	1.5	0.0	0.0	3.5	0.0	2.0	0.0	0.0	0.4	1.4	0.9	3.5
PAT 223	MH 2875		0.0	1.5	0.0	2.5	0.0	1.5	0.0	4.0	2.5	0.8	1.0	1.4	1.2	4.0
PAT 224	MP 640		0.5	0.0	3.5	0.5	0.0	1.0	0.0	5.0	0.0	0.3	1.1	1.5	1.3	5.0
PAT 225	MP 647		2.5	0.0	0.0	0.0	0.0	0.0	2.5	6.5	0.0	1.3	0.6	2.3	1.4	6.5
PAT 226	MP 648		2.5	0.0	7.0	1.0	0.0	7.5	0.0	2.0	0.0	1.3	2.6	2.4	2.5	7.5
PAT 227	HHB 67 Imp.		5.0	0.0	0.0	5.0		1.5	1.0	5.0	0.0	2.5	2.5	2.5	2.5	5.0
PAT 228	PB 1756		5.0	0.0	0.0	0.5	0.0	4.5	0.0	5.5	0.0	2.5	1.4	2.5	1.9	5.5
PAT 229	MPMH 35		2.5	0.0	3.0	2.5	1.0	7.5	0.0	5.0	0.0	1.3	2.0	3.4	2.7	7.5
PAT 230	RHB 223		15.0	0.0	NG	0.0	0.0	3.5	NG	-	NG	7.5	5.0	1.8	3.7	15.0
PAT 231	AHB 1269		5.0	18.0	0.0	10.0	5.0	7.5	1.0	5.0	0.0	11.5	8.3	4.6	6.4	18.0
PAT 232	86M01		0.0	0.0	0.0	0.5	1.0	4.5	0.0	6.5	0.0	0.0	0.1	3.0	1.6	6.5
PAT 233	Pratap		0.0	0.0	0.0	0.5	0.0	3.0	0.0	2.0	0.0	0.0	0.1	1.3	0.7	3.0
PAT 234	KBH 108		0.0	0.0	5.5	0.5	0.0	3.5	0.0	4.0	0.0	0.0	1.5	1.9	1.7	5.5
PAT 235	86M86		0.0	11.0	4.5	5.0	0.0	6.0	0.0	2.5	0.0	5.5	5.1	2.1	3.6	11.0
PAT 236	86M84		0.0	0.0	4.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.0	0.4	0.7	4.0
PAT 237	MP 7878		0.0	0.0	0.0	0.5	0.0	3.5	0.0	1.0	0.0	0.0	0.1	1.1	0.6	3.5
PAT 238	Kaveri Super Boss		0.0	0.0	10.5	0.5	0.0	4.5	0.0	5.5	0.0	0.0	2.8	2.5	2.6	10.5
PAT 239	NBH 4903		0.0	0.0	0.0	0.5	1.0	4.5	0.0	5.0	0.0	0.0	0.1	2.6	1.4	5.0
PAT 240	AHB 1200		5.0	0.0	0.0	2.5	0.0	2.0	1.0	3.5	0.0	2.5	1.9	1.6	1.8	5.0
PAT 241	Dhanshakti		0.0	0.0	1.0	0.0	4.0	12.5	0.0	4.0	0.0	0.0	0.3	5.1	2.7	12.5
PAT 242	ICMV 155		0.0	0.0	0.5	0.0	0.0	6.0	0.0	3.5	0.0	0.0	0.1	2.4	1.3	6.0
PAT 243	ICMV 221		2.5	0.0	5.5	0.0	0.0	6.0	0.0	6.5	0.0	1.3	2.0	3.1	2.6	6.5
PAT 244	Raj 171		0.0	0.0	0.0	0.0	2.0	3.5	0.0	8.0	0.0	0.0	0.0	3.4	1.7	8.0
PAT 245	ABV 04		0.0	0.0	0.0	0.0	0.0	4.0	0.0	4.5	0.0	0.0	0.0	2.1	1.1	4.5
PAT 246	Pusa Comp. 612		0.0	0.0	6.0	0.0	0.0	3.0	0.0	6.5	0.0	0.0	1.5	2.4	1.9	6.5
Mean			**1.6**	**1.1**	**3.8**	**1.3**	**0.8**	**6.1**	**0.2**	**4.7**	**0.3**	**1.35**	**1.95**	**2.95**	**2.45**	**6.1**

Table IV.6E: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Ergot severity at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 201	MH 2743	NOT RECORDED	0.0	0.0	NOT RECORDED	NOT RECORDED	5.0	0.0	0.0	0.0	10.0	0.0	0.0	1.3	0.8	5.0
PAT 202	MH 2744		0.0	0.0			3.0	1.0	0.0	0.0	10.0	0.0	0.0	1.0	0.7	3.0
PAT 203	MH 2747		2.5	0.0			0.0	0.0	0.0	1.5	0.0	1.3	1.3	0.4	0.7	2.5
PAT 204	MH 2758		0.0	0.0			0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.4	0.3	1.5
PAT 205	MH 2767		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 206	MH 2705		5.0	0.0			0.0	0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.8	5.0
PAT 207	MH 2773		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 208	MH 2775		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 209	MH 2777		2.5	0.0			0.0	1.5	0.0	0.0	0.0	1.3	1.3	0.4	0.7	2.5
PAT 210	MH 2784		0.0	1.5			0.0	3.5	0.0	1.0	0.0	0.8	0.8	1.1	1.0	3.5
PAT 211	MH 2842		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 212	MH 2846		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 213	MH 2852		0.0	0.0			0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.6	0.4	2.5
PAT 214	MH 2859		0.0	0.0			0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	3.0
PAT 215	MH 2863		0.0	0.0			0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	2.0
PAT 216	MH 2796		0.0	2.0			1.0	3.5	0.0	0.0	0.0	1.0	1.0	1.1	1.1	3.5
PAT 217	MH 2797		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 218	MH 2798		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 219	MH 2806		0.0	0.0			0.0	0.0	0.0	3.5	2.5	0.0	0.0	0.9	0.6	3.5
PAT 220	MH 2808		0.0	0.0			0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	3.0
PAT 221	MH 2878		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 222	MH 2798		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table IV.6E: Disease screening of Advance Pearl Millet Hybrids and Varieties (PMPT II): Ergot severity at 60 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	PTR	Mean				MAX
												Zone A_1	Zone A	Zone B	India	
PAT 223	MH 2875	N	0.0	0.0	N	N	0.0	2.5	0.0	0.0	10.0	0.0	0.0	0.6	0.4	2.5
PAT 224	MP 640	O	0.0	0.0	O	O	2.0	1.5	0.0	0.0	2.5	0.0	0.0	0.9	0.6	2.0
PAT 225	MP 647	T	0.0	1.0	T	T	3.0	0.0	0.0	0.0	12.5	0.5	0.5	0.8	0.7	3.0
PAT 226	MP 648		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 227	HHB 67 Imp.	R	2.5	0.0	R	R	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PAT 228	PB 1756	E	0.0	0.0	E	E	1.0	2.5	0.0	1.0	0.0	0.0	0.0	1.1	0.8	2.5
PAT 229	MPMH 35	C	0.0	0.0	C	C	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
PAT 230	RHB 223	O	5.0	0.0	O	O	4.0	0.0	NG	-	NG	2.5	2.5	2.0	2.3	5.0
PAT 231	AHB 1269	R	2.5	0.0	R	R	0.0	2.0	0.0	0.0	10.0	1.3	1.3	0.5	0.8	2.5
PAT 232	86M01	D	0.0	0.5	D	D	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.1	0.5
PAT 233	Pratap	E	0.0	0.0	E	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 234	KBH 108	D	0.0	0.0	D	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 235	86M86		0.0	0.0			0.0	1.0	0.0	1.5	0.0	0.0	0.0	0.6	0.4	1.5
PAT 236	86M84		0.0	0.5			0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.1	0.5
PAT 237	MP 7878		0.0	0.0			2.0	3.0	0.0	0.0	0.0	0.0	0.0	1.3	0.8	3.0
PAT 238	Kaveri Super Boss		0.0	0.0			1.0	0.0	0.0	0.0	10.0	0.0	0.0	0.3	0.2	1.0
PAT 239	NBH 4903		0.0	0.0			0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.3	0.2	1.0
PAT 240	AHB 1200		2.5	0.0			0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.4	2.5
PAT 241	Dhanshakti		0.0	0.0			0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.6	0.4	2.5
PAT 242	ICMV 155		0.0	0.0			0.0	4.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	4.0
PAT 243	ICMV 221		0.0	0.0			4.0	0.0	0.0	0.0	7.5	0.0	0.0	1.0	0.7	4.0
PAT 244	Raj 171		0.0	0.0			0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.6	0.4	2.5
PAT 245	ABV 04		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAT 246	Pusa Comp. 612		0.0	0.0			0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	1.0
Mean		**NA**	**0.9**	**0.0**	**NA**	**NA**	**1.2**	**1.5**	**0.0**	**0.4**	**4.7**	**0.5**	**0.5**	**0.8**	**0.7**	**1.5**

Table IV.7: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Downy mildew (%) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**70.7**	**76.9**	**93.0**	**62.3**	**70.1**	**82.4**	**83.8**	**88.9**	**70.0**	**80.2**	**74.6**	**81.3**	**77.6**	**93.0**
IR II	**7042S**	**70.5**	**79.2**	**87.2**	**55.6**	**70.0**	**76.4**	**81.3**	**52.4**	**72.8**	**79.0**	**72.5**	**70.7**	**71.7**	**87.2**
PRT 301	GHB 1305	0.0	1.3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.4	0.3	0.3	0.3	1.3
PRT 302	GHB 1294	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.4	0.0	0.0	0.9	0.4	2.0
PRT 303	MPMH 42	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.4	0.0	0.0	0.0	0.6	0.3	1.4
PRT 304	MPMH 35	0.0	3.8	0.0	1.6	0.0	3.5	0.0	32.3	1.6	1.3	1.1	9.3	4.7	32.3
PRT 305	RHB 223	0.0	8.8	0.0	0.0	0.0	4.7	0.0	NG	0.0	2.9	1.8	1.6	1.7	8.8
IR I	**7042S**	**71.8**	**87.5**	**93.1**	**60.3**	**72.3**	**80.2**	**83.8**	**87.5**	**75.4**	**84.1**	**77.0**	**81.7**	**79.1**	**93.1**
IR II	**7042S**	**70.7**	**78.0**	**93.8**	**55.4**	**68.9**	**79.3**	**2.5**	**70.0**	**74.5**	**80.8**	**73.3**	**56.6**	**65.9**	**93.8**
PRT 306	PB 1756	0.0	2.5	0.0	0.0	0.0	3.0	0.0	7.6	0.0	0.8	0.5	2.7	1.5	7.6
PRT 307	HHB 234	0.0	1.3	0.0	5.2	0.0	9.8	0.0	32.6	0.0	0.4	1.3	10.6	5.4	32.6
PRT 308	GHB 538	0.0	6.4	0.0	4.4	0.0	15.1	0.0	39.1	10.1	2.1	2.2	16.1	8.3	39.1
PRT 309	HHB 67 Improved	0.0	10.0	0.0	0.0	0.0	6.6	0.0	5.3	0.0	3.3	2.0	3.0	2.4	10.0
PRT 310	HHB 67 Imp 2	0.0	3.8	0.0	0.0	0.0	5.8	0.0	9.1	1.4	1.3	0.8	4.1	2.2	9.1
IR I	**7042S**	**72.0**	**82.9**	**97.1**	**65.6**	**71.2**	**82.6**	**80.0**	**95.0**	**71.5**	**84.0**	**77.7**	**82.3**	**79.8**	**97.1**
IR II	**7042S**	**70.5**	**75.8**	**89.7**	**50.0**	**69.2**	**74.6**	**77.5**	**64.1**	**74.4**	**78.7**	**71.0**	**72.6**	**71.7**	**89.7**
PRT 311	86M94	0.0	3.8	0.0	0.0	0.0	8.0	0.0	24.4	3.1	1.3	0.8	8.9	4.4	24.4
PRT 312	DHBH 1397	0.0	2.5	0.0	0.0	0.0	6.2	0.0	10.9	0.0	0.8	0.5	4.3	2.2	10.9
PRT 313	PB 1852	0.0	3.8	0.0	0.0	0.0	1.0	0.0	5.9	0.0	1.3	0.8	1.7	1.2	5.9
PRT 314	86M01	0.0	22.5	0.0	0.0	0.0	12.6	0.0	10.7	0.0	7.5	4.5	5.8	5.1	22.5
PRT 315	GHB 905	0.0	0.0	0.0	0.0	0.0	7.6	0.0	7.7	0.0	0.0	0.0	3.8	1.7	7.7
IR I	**7042S**	**71.8**	**78.1**	**92.7**	**70.0**	**71.6**	**84.2**	**82.3**	**91.8**	**78.3**	**80.9**	**76.8**	**84.1**	**80.1**	**92.7**
IR II	**7042S**	**70.7**	**75.0**	**82.1**	**57.6**	**68.0**	**74.1**	**83.75.**	**51.6**	**75.7**	**75.9**	**70.7**	**67.1**	**69.3**	**82.1**
PRT 316	PB 1705	0.0	3.8	0.0	0.0	0.0	4.0	0.0	0.0	0.0	1.3	0.8	1.0	0.9	4.0
PRT 317	86M80	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.0
PRT 318	MP 7878	0.0	7.0	0.0	0.0	0.0	3.2	0.0	3.9	0.0	2.3	1.4	1.8	1.6	7.0
PRT 319	86M84	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.5	0.0	0.0	0.0	0.9	0.4	2.5
PRT 320	KBH 108	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.4	0.0	0.0	0.0	0.8	0.4	2.0
IR I	**7042S**	**71.8**	**78.1**	**93.5**	**72.7**	**72.3**	**80.2**	**81.3**	**81.0**	**71.1**	**81.2**	**77.7**	**78.4**	**78.0**	**93.5**
IR II	**7042S**	**71.1**	**74.6**	**96.9**	**66.7**	**68.9**	**76.3**	**85.0**	**72.4**	**77.1**	**80.9**	**75.6**	**77.7**	**76.6**	**96.9**

Table IV.7: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Downy mildew (%) at 30 DAS-Kharif 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 321	Kaveri Super Boss	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.0
PRT 322	86M86	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.4	0.2	1.5
PRT 323	RHB 233	3.3	2.0	0.0	0.0	0.0	2.5	1.4	1.6	0.0	1.8	1.1	1.4	1.2	3.3
PRT 324	RHB 234	0.0	0.0	0.0	0.0	0.0	1.0	0.0	33.8	0.0	0.0	0.0	8.7	3.9	33.8
PRT 325	AHB 1269	0.0	0.0	0.0	0.0	0.0	4.0	1.3	10.8	0.0	0.0	0.0	4.0	1.8	10.8
IR I	**7042S**	**70.7**	**81.6**	**95.1**	**68.3**	**70.2**	**85.3**	**91.3**	**80.0**	**75.5**	**82.5**	**77.2**	**83.0**	**79.8**	**95.1**
IR II	**7042S**	**70.5**	**74.0**	**89.3**	**66.7**	**69.5**	**75.6**	**86.3**	**77.2**	**73.6**	**77.9**	**74.0**	**78.2**	**75.9**	**89.3**
PRT 326	AHB 1200	1.7	1.3	0.0	0.0	0.0	4.5	0.0	9.2	0.0	1.0	0.6	3.4	1.8	9.2
PRT 327	HHB 299	0.0	8.8	0.0	0.0	0.0	7.7	1.3	17.2	0.0	2.9	1.8	6.6	3.9	17.2
PRT 328	Dhanshakti	2.3	8.1	1.8	0.0	0.0	17.1	1.3	27.5	2.8	4.0	2.4	12.2	6.8	27.5
PRT 329	ICMV 221	0.0	1.3	0.0	0.0	0.0	12.1	0.0	8.8	1.5	0.4	0.3	5.6	2.6	12.1
PRT330	Pusa Composite 701	0.0	1.3	0.0	0.0	0.0	8.6	0.0	17.3	5.7	0.4	0.3	7.9	3.7	17.3
IR I	**7042S**	**70.5**	**77.8**	**93.9**	**62.1**	**71.4**	**80.5**	**81.3**	**78.1**	**74.3**	**80.7**	**75.1**	**78.5**	**76.6**	**93.9**
IR II	**7042S**	**70.3**	**82.5**	**90.9**	**59.3**	**69.1**	**77.9**	**82.3**	**65.7**	**75.8**	**81.2**	**74.4**	**75.4**	**74.9**	**90.9**
PRT 331	Pusa Composite 383	0.0	1.3	1.8	1.3	0.0	9.0	0.0	13.0	1.5	1.0	0.9	5.9	3.1	13.0
PRT 332	JBV 2	1.7	13.8	0.0	0.0	0.0	11.5	0.0	11.0	0.0	5.1	3.1	5.6	4.2	13.8
PRT 333	Raj 171	1.4	10.0	0.0	1.6	0.0	17.4	0.0	19.4	1.5	3.8	2.6	9.6	5.7	19.4
PRT 334	Pratap (MH 1642)	1.9	5.6	0.0	0.0	0.0	7.5	2.6	8.1	0.0	2.5	1.5	4.6	2.9	8.1
PRT335	NBH 4903	0.0	1.4	0.0	NG	0.0	2.0	0.0	3.6	0.0	0.5	0.4	1.4	0.9	3.6
IR I	**7042S**	**71.8**	**78.1**	**91.2**	**67.2**	**71.0**	**83.1**	**85.0**	**77.2**	**73.2**	**80.4**	**75.9**	**79.6**	**77.5**	**91.2**
IR II	**7042S**	**70.7**	**77.8**	**83.3**	**57.4**	**65.2**	**78.1**	**83.8**	**67.6**	**74.3**	**77.3**	**70.9**	**75.9**	**73.1**	**83.8**
PRT336	Pusa Comp. 612	0.0	7.5	0.0	0.0	0.0	11.6	0.0	14.0	4.4	2.5	1.5	7.5	4.2	14.0
PRT337	ABV 04	0.0	1.3	0.0	0.0	0.0	9.2	0.0	7.8	0.0	0.4	0.3	4.2	2.0	9.2
PRT338	ICMV 155	1.4	4.1	2.4	0.0	0.0	7.6	0.0	18.0	2.7	8.2	9.0	7.1	4.0	18.0
IR I	**7042S**	**72.1**	**74.0**	**90.2**	**64.1**	**69.3**	**80.4**	**85.9**	**93.4**	**72.0**	**78.8**	**73.9**	**82.9**	**77.9**	**93.4**
IR II	**7042S**	**70.8**	**75.0**	**80.0**	**56.9**	**68.1**	**76.4**	**83.3**	**70.1**	**71.5**	**75.3**	**70.2**	**75.3**	**72.5**	**83.3**
Mean Entries		**0.6**	**5.8**	**0.4**	**1.3**	0.0	**6.9**	**1.1**	**14.8**	**1.7**	**3.1**	**3.2**	6.1	3.6	**14.8**
Mean IR I		**71.3**	**79.8**	**93.2**	**65.2**	71.3	**81.8**	**83.8**	**85.3**	**73.8**	**78.39**	**78.39**	81.18	78.39	**93.2**
Mean IR II		**70.5**	**77.5**	**89.4**	**58.8**	68.3	**76.9**	**78.8**	**64.3**	**73.6**	**73.12**	**73.12**	73.40	73.12	**89.4**

Table IV.8: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**100.0**	**82.1**	**95.3**	**88.4**	**76.4**	**98.4**	**93.8**	**88.9**	**85.7**	**92.5**	**88.4**	**91.7**	**89.9**	**100.0**
IR II	**7042S**	**100.0**	**81.1**	**89.7**	**73.0**	**72.0**	**98.9**	**90.0**	**61.9**	**83.9**	**90.3**	**83.2**	**83.7**	**83.4**	**100.0**
PRT 301	GHB 1305	0.0	1.3	0.0	0.0	12.7	2.0	0.0	0.0	0.0	0.4	2.8	0.5	1.8	12.7
PRT 302	GHB 1294	1.5	0.0	0.0	0.0	14.5	2.5	0.0	0.0	1.4	0.5	3.2	1.0	2.2	14.5
PRT 303	MPMH 42	0.0	0.0	0.0	0.0	10.5	2.0	0.0	1.4	0.0	0.0	2.1	0.8	1.5	10.5
PRT 304	MPMH 35	0.0	3.8	0.0	3.3	11.0	5.7	1.3	33.3	1.6	1.3	3.6	10.5	6.7	33.3
PRT 305	RHB 223	0.0	8.8	0.0	0.0	0.0	7.9	1.3	NG	0.0	2.9	1.8	3.1	2.2	8.8
IR I	**7042S**	**100.0**	**93.8**	**100.0**	**91.8**	**77.6**	**98.4**	**92.5**	**91.7**	**86.1**	**97.9**	**92.6**	**92.2**	**92.4**	**100.0**
IR II	**7042S**	**100.0**	**78.0**	**93.8**	**80.4**	**75.6**	**98.7**	**2.5**	**76.7**	**88.8**	**90.6**	**85.5**	**66.7**	**77.2**	**100.0**
PRT 306	PB 1756	1.3	2.5	0.0	0.0	0.0	4.6	0.0	7.6	0.0	1.3	0.8	3.1	1.8	7.6
PRT 307	HHB 234	1.6	1.3	0.0	10.3	0.0	17.2	0.0	34.9	3.0	0.9	2.6	13.8	7.6	34.9
PRT 308	GHB 538	5.7	6.4	2.4	16.2	0.0	24.3	0.0	50.0	10.1	4.8	6.1	21.1	12.8	50.0
PRT 309	HHB 67 Improved	3.9	10.0	0.0	0.0	0.0	7.9	0.0	9.2	0.0	4.6	2.8	4.3	3.4	10.0
PRT 310	HHB 67 Imp 2	1.5	3.8	1.4	0.0	0.0	7.2	0.0	10.4	1.4	2.2	1.3	4.7	2.9	10.4
IR I	**7042S**	**100.0**	**85.4**	**94.1**	**85.2**	**75.4**	**96.8**	**87.5**	**96.7**	**81.4**	**93.2**	**88.0**	**90.6**	**89.2**	**100.0**
IR II	**7042S**	**100.0**	**77.4**	**87.9**	**73.6**	**71.3**	**97.5**	**91.3**	**76.6**	**88.1**	**88.5**	**82.1**	**88.4**	**84.9**	**100.0**
PRT 311	86M94	2.2	3.8	0.0	0.0	0.0	11.4	0.0	24.4	4.7	2.0	1.2	10.1	5.2	24.4
PRT 312	DHBH 1397	2.3	2.5	0.0	0.0	0.0	7.8	0.0	10.9	0.0	1.6	1.0	4.7	2.6	10.9
PRT 313	PB 1852	1.5	3.8	0.0	0.0	0.0	3.0	0.0	5.9	0.0	1.7	1.0	2.2	1.6	5.9
PRT 314	86M01	5.0	22.5	0.0	0.0	0.0	16.1	0.0	10.7	0.0	9.2	5.5	6.7	6.0	22.5
PRT 315	GHB 905	0.0	0.0	0.0	0.0	0.0	8.2	0.0	7.7	0.0	0.0	0.0	4.0	1.8	8.2
IR I	**7042S**	**100.0**	**84.4**	**100.0**	**96.7**	**76.2**	**98.8**	**94.9**	**98.4**	**87.0**	**94.8**	**91.5**	**94.8**	**92.9**	**100.0**
IR II	**7042S**	**100.0**	**76.7**	**89.7**	**78.8**	**72.3**	**99.3**	**91.3**	**69.4**	**85.8**	**88.8**	**83.5**	**86.4**	**84.8**	**100.0**
PRT 316	PB 1705	1.2	3.8	0.0	0.0	0.0	4.0	0.0	0.0	0.0	1.7	1.0	1.0	1.0	4.0
PRT 317	86M80	1.7	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.6	0.3	0.6	0.5	2.5
PRT 318	MP 7878	4.0	7.0	0.0	0.0	0.0	4.0	0.0	3.9	0.0	3.7	2.2	2.0	2.1	7.0
PRT 319	86M84	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.0	0.0	0.0	0.0	1.8	0.8	5.0
PRT 320	KBH 108	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.8	0.0	0.0	0.0	1.4	0.6	3.0

Table IV.8: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Downy mildew (%) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
IR I	**7042S**	**100.0**	**93.8**	**96.8**	**100.0**	**76.2**	**97.3**	**92.5**	**93.7**	**86.1**	**96.8**	**93.3**	**92.4**	**92.9**	**100.0**
IR II	**7042S**	**100.0**	**76.2**	**96.9**	**76.7**	**72.8**	**98.9**	**91.3**	**81.0**	**87.1**	**91.0**	**84.5**	**89.6**	**86.8**	**100.0**
PRT 321	Kaveri Super Boss	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	2.0
PRT 322	86M86	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.6	0.3	2.5
PRT 323	RHB 233	3.3	2.0	0.0	0.0	0.0	3.0	5.4	1.6	0.0	1.8	1.1	2.5	1.7	5.4
PRT 324	RHB 234	0.0	0.0	0.0	0.0	0.0	4.0	0.0	42.3	0.0	0.0	0.0	11.6	5.1	42.3
PRT 325	AHB 1269	0.0	0.0	0.0	0.0	0.0	4.5	2.5	12.3	0.0	0.0	0.0	4.8	2.1	12.3
IR I	**7042S**	**100.0**	**89.5**	**97.6**	**86.7**	**81.2**	**99.0**	**96.3**	**92.9**	**86.4**	**95.7**	**91.0**	**93.6**	**92.2**	**100.0**
IR II	**7042S**	**100.0**	**76.0**	**92.9**	**75.0**	**74.3**	**98.1**	**92.5**	**82.3**	**81.9**	**89.6**	**83.6**	**88.7**	**85.9**	**100.0**
PRT 326	AHB 1200	5.0	1.3	0.0	0.0	0.0	5.1	0.0	10.5	0.0	2.1	1.3	3.9	2.4	10.5
PRT 327	HHB 299	0.0	8.8	0.0	0.0	0.0	10.5	2.6	17.2	0.0	2.9	1.8	7.6	4.3	17.2
PRT 328	Dhanshakti	6.8	8.1	3.5	0.0	0.0	24.2	1.3	31.9	4.2	6.1	3.7	15.4	8.9	31.9
PRT 329	ICMV 221	0.0	1.3	0.0	2.8	0.0	13.1	0.0	11.8	1.5	0.4	0.8	6.6	3.4	13.1
PRT330	Pusa Composite 701	0.0	1.3	0.0	0.0	0.0	9.3	0.0	17.3	5.7	0.4	0.3	8.1	3.7	17.3
IR I	**7042S**	**100.0**	**91.7**	**93.9**	**89.7**	**77.4**	**99.3**	**92.5**	**92.2**	**85.6**	**95.2**	**90.5**	**92.4**	**91.4**	**100.0**
IR II	**7042S**	**100.0**	**84.2**	**90.9**	**76.3**	**75.2**	**97.9**	**94.9**	**80.6**	**93.5**	**91.7**	**85.3**	**91.7**	**88.2**	**100.0**
PRT 331	Pusa Composite 383	1.3	1.3	1.8	2.7	0.0	11.0	0.0	13.0	1.5	1.4	1.4	6.4	3.6	13.0
PRT 332	JBV 2	5.0	13.8	0.0	1.4	0.0	12.0	0.0	11.0	0.0	6.3	4.0	5.7	4.8	13.8
PRT 333	Raj 171	4.1	10.0	0.0	6.3	0.0	18.5	0.0	22.4	1.5	4.7	4.1	10.6	7.0	22.4
PRT 334	Pratap (MH 1642)	7.6	5.6	0.0	0.0	0.0	8.0	4.0	8.1	0.0	4.4	2.6	5.0	3.7	8.1
PRT335	NBH 4903	0.0	1.4	0.0	NG	0.0	2.0	0.0	3.6	0.0	0.5	0.4	1.4	0.9	3.6
IR I	**7042S**	**100.0**	**87.5**	**93.0**	**93.8**	**71.0**	**79.2**	**96.3**	**93.0**	**83.2**	**93.5**	**89.1**	**87.9**	**88.5**	**100.0**
IR II	**7042S**	**100.0**	**81.5**	**85.7**	**77.9**	**65.2**	**73.0**	**93.8**	**80.3**	**87.1**	**89.1**	**82.1**	**83.5**	**82.7**	**100.0**
PRT336	Pusa Comp. 612	3.5	7.5	0.0	3.3	0.0	14.0	0.0	14.0	5.8	3.7	2.9	8.4	5.3	14.0
PRT337	ABV 04	4.3	1.3	0.0	1.4	0.0	11.0	0.0	7.8	0.0	1.8	1.4	4.7	2.9	11.0
PRT338	ICMV 155	4.1	4.1	4.8	1.5	4.2	9.8	0.0	18.0	2.7	8.4	8.9	9.5	10.1	10.7
IR I	**7042S**	**100.0**	**86.0**	**90.0**	**85.9**	**76.1**	**95.3**	**94.9**	**98.4**	**81.0**	**92.0**	**87.6**	**92.4**	**89.7**	**100.0**
IR II	**7042S**	**100.0**	**80.0**	**82.0**	**73.8**	**72.5**	**95.9**	**94.9**	**77.6**	**79.0**	**87.3**	**81.7**	**86.8**	**84.0**	**100.0**
	Mean Entries	**2.8**	**6.1**	**1**	**2.3**	**0.9**	**8.7**	**1.2**	**17.9**	**2.4**	**3.6**	**3.6**	**7.6**	**4.8**	**17.90**
	Mean IR I	**100**	**87.5**	**95.7**	**89.6**	**77.1**	**98.2**	**93.5**	**92.9**	**85.5**	**91.66**	**91.66**	**92.53**	**91.11**	**100.00**
	Mean IR II	**100**	**78.7**	**89**	**76.6**	**73.1**	**97.9**	**86.7**	**74.9**	**86.5**	**86.00**	**86.00**	**86.50**	**84.82**	**100.00**

Table IV.9: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 scale) 30 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 301	GHB 1305	0.0	1.0	1.6	0.0	0.0	1.0	0.0	0.0	0.0	0.9	0.5	0.3	0.4	1.6
PRT 302	GHB 1294	0.0	1.0	1.4	0.1	0.0	1.0	0.0	0.5	0.0	0.8	0.5	0.4	0.4	1.4
PRT 303	MPMH 42	0.0	1.0	1.6	0.0	0.5	0.5	0.0	0.5	0.0	0.9	0.6	0.3	0.5	1.6
PRT 304	MPMH 35	0.0	1.0	1.3	0.0	0.0	0.5	0.0	1.5	0.0	0.8	0.5	0.5	0.5	1.5
PRT 305	RHB 223	0.0	1.0	1.9	0.0	0.0	0.0	0.0	NG	0.0	1.0	0.6	0.0	0.4	1.9
PRT 306	PB 1756	0.0	1.0	1.8	0.1	0.0	0.5	0.0	0.0	0.0	0.9	0.6	0.1	0.5	1.8
PRT 307	HHB 234	0.0	1.0	1.5	0.5	0.5	0.0	0.0	4.0	0.5	0.8	0.7	1.1	0.9	4.0
PRT 308	GHB 538	0.0	1.0	2.2	0.7	0.5	1.0	0.0	3.0	1.5	1.1	0.9	1.4	1.1	3.0
PRT 309	HHB 67 Improved	0.0	1.0	2.3	0.2	0.5	1.0	0.0	3.5	0.0	1.1	0.8	1.1	0.9	3.5
PRT 310	HHB 67 Imp 2	0.0	1.0	1.3	0.1	0.0	2.0	0.0	3.0	0.0	0.8	0.5	1.3	0.8	3.0
PRT 311	86M94	0.0	1.0	1.1	0.0	0.5	1.0	0.0	2.0	0.0	0.7	0.5	0.8	0.6	2.0
PRT 312	DHBH 1397	0.0	1.0	2.0	0.0	0.0	1.0	0.0	0.5	0.0	1.0	0.6	0.4	0.5	2.0
PRT 313	PB 1852	0.0	0.0	2.2	0.0	0.0	0.5	1.0	0.0	0.0	0.7	0.4	0.4	0.4	2.2
PRT 314	86M01	0.0	1.0	2.2	0.3	1.0	0.5	0.0	0.0	1.0	1.1	0.9	0.4	0.8	2.2
PRT 315	GHB 905	0.0	1.0	1.3	0.0	0.5	1.0	0.0	1.0	0.0	0.8	0.6	0.5	0.5	1.3

Table IV.9: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 scale) 30 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 316	PB 1705	0.0	1.0	1.7	0.0	1.0	1.0	0.0	2.0	0.0	0.9	0.7	0.8	0.7	2.0
PRT 317	86M80	0.0	1.0	1.9	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.6	0.3	0.5	1.9
PRT 318	MP 7878	0.0	1.0	2.8	0.0	0.5	0.5	0.0	2.0	0.0	1.3	0.9	0.6	0.8	2.8
PRT 319	86M84	0.0	1.0	2.7	0.0	0.5	1.0	0.0	1.5	0.0	1.2	0.8	0.6	0.7	2.7
PRT 320	KBH 108	0.0	1.0	1.8	0.0	1.0	1.5	0.0	2.5	0.0	0.9	0.8	1.0	0.9	2.5
PRT 321	Kaveri Super Boss	0.0	0.5	1.3	0.0	0.0	1.0	0.0	1.0	0.0	0.6	0.4	0.5	0.4	1.3
PRT 322	86M86	0.0	0.5	1.6	0.1	0.5	1.0	0.0	1.0	0.0	0.7	0.5	0.5	0.5	1.6
PRT 323	RHB 233	3.3	0.5	1.5	0.0	0.0	0.5	0.0	0.0	0.0	1.8	1.1	0.1	0.6	3.3
PRT 324	RHB 234	0.0	0.5	1.7	0.2	0.5	0.5	0.0	2.5	0.0	0.7	0.6	0.8	0.5	2.5
PRT 325	AHB 1269	0.0	1.0	2.2	0.0	1.0	1.0	1.0	2.0	0.0	1.1	0.8	1.0	0.9	2.2
PRT 326	AHB 1200	1.7	1.0	1.6	0.2	2.0	1.0	0.5	2.5	0.5	1.43	1.3	1.1	1.1	2.5
PRT 327	HHB 299	0.0	1.0	1.6	0.0	0.0	1.0	1.0	1.5	0.0	0.87	0.5	0.9	0.7	1.6
PRT 328	Dhanshakti	2.3	1.0	1.7	0.0	1.0	3.0	0.5	3.5	0.0	1.67	1.2	1.8	1.4	3.5
PRT 329	ICMV 221	0.0	1.0	2.3	0.0	1.5	2.0	1.0	3.5	0.0	1.1	1.0	1.6	1.1	3.5
PRT330	Pusa Composite 701	0.0	1.0	2.1	0.0	1.0	0.0	0.0	1.5	0.0	1.03	0.8	0.4	0.6	2.1
PRT 331	Pusa Composite 383	0.0	1.0	1.6	0.0	1.5	1.0	1.0	2.0	0.0	0.87	0.8	1.0	0.9	2.0
PRT 332	JBV 2	1.7	1.0	1.4	0.2	1.0	1.0	1.0	1.0	0.0	1.03	0.9	0.8	0.9	1.7
PRT 333	Raj 171	1.4	1.0	1.8	0.0	1.0	1.0	1.0	1.0	0.0	1.07	1.0	0.8	0.9	1.8
PRT 334	Pratap (MH 1642)	1.9	1.0	1.7	0.3	1.0	3.0	0.0	3.5	0.0	1.2	1.2	1.6	1.2	3.5
PRT335	NBH 4903	0.0	1.0	2.3	NG	1.0	0.0	0.0	0.5	0.0	1.1	1.1	0.1	0.5	2.3
PRT336	Pusa Comp. 612	0.0	1.0	1.9	0.1	0.5	1.0	1.0	3.0	0.0	0.97	0.7	1.3	0.9	3.0
PRT337	ABV 04	0.0	1.0	1.3	0.0	0.5	1.0	0.5	3.5	0.0	0.77	0.6	1.3	0.8	3.5
PRT338	ICMV 155	1.4	1.0	1.5	0.0	1.5	0.0	1.0	3.0	0.0	1.3	1.1	1.0	1.0	3
MEAN		**0.2**	**0.9**	**1.7**	**0.1**	**0.5**	**0.9**	**0.3**	**1.8**	**0.1**	**0.93**	**0.7**	**0.8**	**0.7**	**1.8**
ICMB95444		4.0	4.0	4.0	4.0	3.0	3.5	3.0	5.0	3.0					

Table IV.9A: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 scale) 45 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A1	Zone A	Zone B	India	
PRT 301	GHB 1305	0.0	1.0	2.1	0.0	0.0	2.0	1.0	0.0	0.0	1.0	0.6	0.8	0.7	2.1
PRT 302	GHB 1294	0.0	1.0	1.6	0.5	0.0	1.0	0.0	1.5	0.0	0.9	0.6	0.6	0.6	1.6
PRT 303	MPMH 42	0.0	1.0	2.1	0.3	1.0	1.0	0.5	1.0	1.0	1.0	0.9	0.9	0.9	2.1
PRT 304	MPMH 35	0.0	1.0	1.9	0.0	1.0	2.0	0.0	3.5	0.0	1.0	0.8	1.4	1.0	3.5
PRT 305	RHB 223	0.0	1.0	1.9	0.2	0.0	0.0	0.0	NG	0.0	1.0	0.6	0.0	0.4	1.9
PRT 306	PB 1756	0.0	1.0	2.4	0.4	1.0	1.0	0.0	0.5	0.0	1.1	1.0	0.4	0.7	2.4
PRT 307	HHB 234	1.0	1.0	2.2	3.0	1.0	3.0	1.0	6.0	2.0	1.4	1.6	3.0	2.2	6.0
PRT 308	GHB 538	2.0	1.0	2.7	3.1	0.5	3.0	0.5	5.0	2.5	1.9	1.9	2.8	2.3	5.0
PRT 309	HHB 67 Improved	2.0	1.0	2.1	0.7	0.5	3.0	0.5	5.5	0.0	1.7	1.3	2.3	1.7	5.5
PRT 310	HHB 67 Imp 2	0.0	1.0	1.2	1.4	1.0	2.5	0.0	4.5	1.5	0.7	0.9	2.1	1.5	4.5
PRT 311	86M94	0.0	1.0	1.5	0.3	2.0	2.0	0.0	3.0	1.0	0.8	1.0	1.5	1.2	3.0
PRT 312	DHBH 1397	0.0	1.0	2.2	0.6	2.0	1.0	0.0	2.0	0.0	1.1	1.2	0.8	1.0	2.2
PRT 313	PB 1852	0.0	1.0	2.1	0.0	2.0	0.5	2.0	1.0	0.0	1.0	1.0	0.9	1.0	2.1
PRT 314	86M01	1.0	2.0	2.2	1.1	2.0	0.5	0.0	0.0	2.0	1.7	1.7	0.6	1.2	2.2
PRT 315	GHB 905	0.0	1.0	1.6	0.1	2.0	1.0	0.0	2.0	0.5	0.9	0.9	0.9	0.9	2.0
PRT 316	PB 1705	0.0	1.0	1.8	0.0	2.0	1.0	0.0	3.0	0.0	0.9	1.0	1.0	1.0	3.0
PRT 317	86M80	0.0	1.0	1.5	0.0	1.5	1.0	0.0	0.0	0.0	0.8	0.8	0.3	0.6	1.5
PRT 318	MP 7878	0.0	2.0	3.3	0.3	3.0	0.5	0.0	3.0	1.5	1.8	1.7	1.3	1.5	3.3

Table IV.9A: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 scale) 45 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A1	Zone A	Zone B	India	
PRT 319	86M84	0.0	1.0	3.3	0.0	2.0	1.0	1.0	2.5	0.0	1.4	1.3	1.1	1.2	3.3
PRT 320	KBH 108	1.0	1.0	3.8	0.3	2.0	2.0	1.5	4.0	0.0	1.9	1.6	1.9	1.7	4.0
PRT 321	Kaveri Super Boss	0.0	1.0	1.8	0.4	1.0	2.0	0.5	2.0	0.0	0.9	0.8	1.1	1.0	2.0
PRT 322	86M86	0.0	1.0	1.7	0.5	0.5	3.0	0.5	2.5	0.0	0.9	0.7	1.5	1.1	3.0
PRT 323	RHB 233	0.0	1.0	1.5	0.3	0.5	1.0	0.5	0.5	0.0	0.8	0.7	0.5	0.6	1.5
PRT 324	RHB 234	0.0	1.0	1.9	1.0	1.0	1.0	1.0	3.5	1.0	1.0	1.0	1.6	1.3	3.5
PRT 325	AHB 1269	0.0	1.0	2.7	0.3	1.5	2.0	2.0	3.5	1.5	1.2	1.1	2.3	1.6	3.5
PRT 326	AHB 1200	1.0	2.0	1.7	0.4	3.0	2.0	1.5	3.5	1.5	1.6	1.6	2.1	1.8	3.5
PRT 327	HHB 299	0.0	1.0	1.9	0.0	1.5	2.0	1.0	2.5	1.0	1.0	0.9	1.6	1.2	2.5
PRT 328	Dhanshakti	0.0	1.0	2.1	0.1	1.5	4.0	0.5	5.0	0.0	1.0	0.9	2.4	1.6	5.0
PRT 329	ICMV 221	1.0	1.0	2.4	0.5	1.5	3.0	1.5	4.5	0.0	1.5	1.3	2.3	1.7	4.5
PRT330	Pusa Composite 701	0.0	1.0	2.3	0.0	1.5	2.0	0.5	3.0	0.0	1.1	1.0	1.4	1.1	3.0
PRT 331	Pusa Composite 383	0.0	1.0	1.7	0.0	2.0	2.0	1.5	3.0	1.0	0.9	0.9	1.9	1.4	3.0
PRT 332	JBV 2	0.0	1.0	1.8	0.7	2.0	2.0	1.0	2.0	0.0	0.9	1.1	1.3	1.2	2.0
PRT 333	Raj 171	0.0	1.0	1.7	0.0	1.5	3.0	1.5	2.5	0.0	0.9	0.8	1.8	1.2	3.0
PRT 334	Pratap (MH 1642)	0.0	1.0	2.6	1.3	1.5	4.0	0.0	4.5	0.0	1.2	1.3	2.1	1.7	4.5
PRT335	NBH 4903	0.0	1.0	1.9	NG	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.5	0.7	1.9
PRT336	Pusa Comp. 612	0.0	1.0	2.5	0.4	2.0	3.0	1.5	4.0	0.0	1.2	1.2	2.1	1.6	4.0
PRT337	ABV 04	0.0	1.0	1.9	0.3	1.0	2.0	1.0	5.0	1.0	1.0	0.8	2.3	1.5	5.0
PRT338	ICMV 155	2.0	1.5	2.1	0.0	1.5	4.0	1.5	4.5	0.0	1.8	1.4	2.5	1.9	4.5
MEAN		**0.4**	**1.0**	**2.0**	**0.5**	**1.3**	**2.0**	**0.6**	**2.9**	**0.5**	**1.1**	**1.0**	**1.5**	**1.2**	**2.9**
ICMB95444		5.0	5.0	5.0	5.0	4.0	5.0	4.0	7.0	4.0					

Table IV.9B: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 Scale) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 301	GHB 1305	0.0	2.5	2.4	0.5	0.0	3.0	1.5	1.0	0.0	1.6	1.1	1.4	1.2	3.0
PRT 302	GHB 1294	0.0	2.5	2.1	1.7	1.0	2.0	0.5	2.5	0.0	1.5	1.5	1.3	1.4	2.5
PRT 303	MPMH 42	0.0	2.5	2.3	0.5	2.5	2.0	1.0	2.0	2.0	1.6	1.6	1.8	1.6	2.5
PRT 304	MPMH 35	0.5	2.0	2.2	0.4	2.5	3.0	0.0	4.5	0.0	1.6	1.5	1.9	1.7	4.5
PRT 305	RHB 223	0.0	1.5	2.5	0.7	0.0	1.0	0.0	NG	0.0	1.3	0.9	0.3	0.7	2.5
PRT 306	PB 1756	0.0	2.0	2.7	2.2	2.0	2.0	0.0	1.0	0.0	1.6	1.8	0.8	1.3	2.7
PRT 307	HHB 234	1.5	3.0	2.2	7.5	3.0	4.0	1.0	7.0	3.0	2.2	3.4	3.8	3.6	7.5
PRT 308	GHB 538	3.5	2.5	2.8	7.2	2.5	4.0	1.5	6.5	3.5	2.9	3.7	3.9	3.8	7.2
PRT 309	HHB 67 Improved	1.0	3.0	2.7	3.6	2.5	3.5	1.0	6.5	0.0	2.2	2.6	2.8	2.6	6.5
PRT 310	HHB 67 Imp 2	1.0	1.5	1.8	3.6	2.5	3.0	0.0	5.5	2.5	1.4	2.1	2.8	2.4	5.5
PRT 311	86M94	0.0	3.0	1.6	1.4	1.5	3.0	1.5	4.0	2.0	1.5	1.5	2.6	2.0	4.0
PRT 312	DHBH 1397	0.0	2.0	2.7	2.1	2.0	2.0	0.0	3.0	0.0	1.6	1.8	1.3	1.5	3.0
PRT 313	PB 1852	0.0	1.5	2.2	0.3	3.0	1.0	2.5	2.5	0.0	1.2	1.4	1.5	1.4	3.0
PRT 314	86M01	1.0	3.0	2.6	2.7	4.0	1.0	0.0	0.0	3.5	2.2	2.7	1.1	2.0	4.0
PRT 315	GHB 905	0.5	2.5	2.5	0.7	1.5	2.0	0.5	3.0	1.0	1.8	1.5	1.6	1.6	3.0
PRT 316	PB 1705	0.0	2.0	2.3	0.2	2.5	3.0	0.0	4.0	1.0	1.4	1.4	2.0	1.7	4.0
PRT 317	86M80	0.0	1.5	2.0	0.3	1.0	2.0	0.5	0.0	0.0	1.2	1.0	0.6	0.8	2.0
PRT 318	MP 7878	0.5	3.0	4.7	0.9	2.5	1.0	0.0	4.0	2.5	2.7	2.3	1.9	2.1	4.7
PRT 319	86M84	0.0	2.0	5.2	0.3	4.0	2.0	0.5	4.0	0.5	2.4	2.3	1.8	2.1	5.2

Table IV.9B: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Blast (0-9 Scale) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 320	KBH 108	2.0	3.0	5.1	1.7	4.5	1.0	1.5	5.0	0.0	3.4	3.3	1.9	2.6	5.1
PRT 321	Kaveri Super Boss	0.0	1.0	1.7	1.5	0.5	2.5	0.5	3.0	0.0	0.9	0.9	1.5	1.2	3.0
PRT 322	86M86	0.0	2.0	2.2	3.0	2.5	3.0	0.5	3.5	0.0	1.4	1.9	1.8	1.9	3.5
PRT 323	RHB 233	0.0	1.0	1.9	1.8	3.0	2.0	1.0	2.0	0.0	1.0	1.5	1.3	1.4	3.0
PRT 324	RHB 234	0.0	2.5	2.4	2.4	2.0	3.0	1.0	4.5	2.0	1.6	1.9	2.6	2.2	4.5
PRT 325	AHB 1269	1.0	3.0	2.9	1.9	4.5	3.5	3.0	5.0	2.5	2.3	2.7	3.5	3.0	5.0
PRT 326	AHB 1200	3.5	4.0	1.9	1.2	5.0	3.0	2.5	4.5	2.5	3.1	3.1	3.1	3.1	5.0
PRT 327	HHB 299	0.5	2.0	1.9	0.1	4.0	3.0	1.5	3.5	2.0	1.5	1.7	2.5	2.1	4.0
PRT 328	Dhanshakti	0.5	3.0	2.5	1.0	4.5	5.0	0.5	6.5	0.0	2.0	2.3	3.0	2.6	6.5
PRT 329	ICMV 221	1.0	3.0	2.6	2.1	4.5	4.0	2.5	5.5	0.0	2.2	2.6	3.0	2.8	5.5
PRT330	Pusa Composite 701	0.0	2.5	2.5	0.2	4.5	3.0	0.5	4.0	0.0	1.7	1.9	1.9	1.9	4.5
PRT 331	Pusa Composite 383	0.5	2.0	2.0	0.0	2.5	3.0	3.0	4.0	2.0	1.5	1.4	3.0	2.1	4.0
PRT 332	JBV 2	0.0	2.0	2.0	2.1	4.0	2.5	2.0	3.0	0.0	1.3	2.0	1.9	2.0	4.0
PRT 333	Raj 171	0.5	2.5	2.2	1.9	2.5	3.0	1.5	3.5	0.0	1.7	1.9	2.0	2.0	3.5
PRT 334	Pratap (MH 1642)	1.0	2.5	3.5	5.3	3.0	4.0	2.5	6.0	1.0	2.3	3.1	3.4	3.2	6.0
PRT335	NBH 4903	0.5	2.0	3.5	NG	2.0	2.0	0.0	1.5	0.0	2.0	2.0	0.9	1.4	3.5
PRT336	Pusa Comp. 612	0.0	2.5	2.7	2.4	2.5	3.0	2.0	5.0	0.0	1.7	2.0	2.5	2.2	5.0
PRT337	ABV 04	0.5	3.0	2.0	1.3	4.0	3.0	1.0	6.0	2.0	1.8	2.2	3.0	2.5	6.0
PRT338	ICMV 155	4.0	3.5	1.9	0.8	2.5	4.0	2.5	5.5	0.0	**3.1**	**2.5**	3	2.7	**5.5**
	Mean	**0.7**	**2.3**	**2.6**	**1.6**	**2.4**	**2.6**	**1.1**	**4.1**	**1.0**	**1.8**	**1.9**	**2.2**	**2**	**4.1**
	ICMB95444	**8.0**	**7.5**	**7.0**	**7.5**	**6.0**	**7.0**	**6.0**	**8.0**	**6.0**					

Table IV.9C: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Rust (% leaf area) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 301	GHB 1305	NOT RECORDED	0.0	0.0	0.0	0.0	5.0	4.0	10.0	3.5	0.0	0.0	5.6	2.8	10.0
PRT 302	GHB 1294		0.0	0.0	0.0	0.0	13.0	2.0	25.0	11.0	0.0	0.0	12.8	6.4	25.0
PRT 303	MPMH 42		0.0	0.0	0.0	0.0	13.5	1.5	30.0	17.5	0.0	0.0	15.6	7.8	30.0
PRT 304	MPMH 35		0.0	0.0	0.0	0.0	11.8	2.0	15.0	11.0	0.0	0.0	10.0	5.0	15.0
PRT 305	RHB 223		0.0	0.0	0.0	0.0	12.7	0.0	NG	0.0	0.0	0.0	4.2	1.8	12.7
PRT 306	PB 1756		0.0	0.0	0.0	0.0	16.4	0.5	5.0	13.5	0.0	0.0	8.9	4.4	16.4
PRT 307	HHB 234		0.0	0.0	0.0	0.0	8.0	0.0	0.0	15.0	0.0	0.0	5.8	2.9	15.0
PRT 308	GHB 538		0.0	0.0	0.0	0.0	6.8	0.5	5.0	12.5	0.0	0.0	6.2	3.1	12.5
PRT 309	HHB 67 Improved		0.0	0.0	0.0	0.0	16.0	1.5	22.5	11.0	0.0	0.0	12.8	6.4	22.5
PRT 310	HHB 67 Imp 2		0.0	0.0	0.0	0.0	17.0	2.0	22.5	10.0	0.0	0.0	12.9	6.4	22.5
PRT 311	86M94		0.0	0.0	0.0	0.0	18.0	0.0	5.0	15.0	0.0	0.0	9.5	4.8	18.0
PRT 312	DHBH 1397		0.0	0.0	0.0	0.0	11.0	1.0	5.0	6.5	0.0	0.0	5.9	2.9	11.0
PRT 313	PB 1852		0.0	0.0	0.0	0.0	12.0	0.0	2.5	4.0	0.0	0.0	4.6	2.3	12.0
PRT 314	86M01		0.0	0.0	0.0	0.0	17.0	0.0	2.5	9.0	0.0	0.0	7.1	3.6	17.0
PRT 315	GHB 905		0.0	0.0	0.0	0.0	16.0	2.0	10.0	5.0	0.0	0.0	8.3	4.1	16.0
PRT 316	PB 1705		0.0	2.0	0.0	0.0	17.2	0.5	10.0	11.0	1.0	0.5	9.7	5.1	17.2
PRT 317	86M80		0.0	0.0	0.0	0.0	18.0	0.5	7.5	0.0	0.0	0.0	6.5	3.3	18.0
PRT 318	MP 7878		0.0	0.0	0.0	0.0	11.0	0.0	0.0	6.5	0.0	0.0	4.4	2.2	11.0
PRT 319	86M84		0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	9.0

Table IV.9C: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Rust (% leaf area) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 320	KBH 108	NOT RECORDED	0.0	0.0	0.0	0.0	14.0	0.0	0.0	11.0	0.0	0.0	6.3	3.1	14.0
PRT 321	Kaveri Super Boss		0.0	1.0	0.0	0.0	9.0	1.0	10.0	6.5	0.5	0.3	6.6	3.4	10.0
PRT 322	86M86		0.0	0.0	0.0	0.0	14.0	1.0	10.0	0.0	0.0	0.0	6.3	3.1	14.0
PRT 323	RHB 233		0.0	2.5	0.0	0.0	18.5	2.5	12.5	9.0	1.3	0.6	10.6	5.6	18.5
PRT 324	RHB 234		0.0	0.0	0.0	0.0	9.5	1.0	7.5	0.0	0.0	0.0	4.5	2.3	9.5
PRT 325	AHB 1269		0.0	0.0	0.0	0.0	16.8	0.0	5.0	6.5	0.0	0.0	7.1	3.5	16.8
PRT 326	AHB 1200		0.0	0.0	0.0	0.0	9.0	0.0	7.5	0.0	0.0	0.0	4.1	2.1	9.0
PRT 327	HHB 299		0.0	0.0	0.0	0.0	11.5	0.5	5.0	6.5	0.0	0.0	5.9	2.9	11.5
PRT 328	Dhanshakti		0.0	0.0	0.0	0.0	12.7	0.5	10.0	0.0	0.0	0.0	5.8	2.9	12.7
PRT 329	ICMV 221		0.0	1.0	0.0	0.0	17.5	0.0	2.5	11.0	0.5	0.3	7.8	4.0	17.5
PRT 330	Pusa Composite 701		0.0	0.0	0.0	0.0	18.5	2.0	25.0	9.0	0.0	0.0	13.6	6.8	25.0
PRT 331	Pusa Composite 383		0.0	0.0	0.0	0.0	14.5	1.5	40.0	12.5	0.0	0.0	17.1	8.6	40.0
PRT 332	JBV 2		0.0	0.0	0.0	0.0	19.0	0.0	40.0	13.5	0.0	0.0	18.1	9.1	40.0
PRT 333	Raj 171		0.0	0.0	0.0	0.0	21.0	0.0	20.0	9.0	0.0	0.0	12.5	6.3	21.0
PRT 334	Pratap (MH 1642)		0.0	0.0	0.0	0.0	27.0	0.0	0.0	10.0	0.0	0.0	9.3	4.6	27.0
PRT 335	NBH 4903		0.0	0.0	NG	0.0	16.5	0.0	12.5	10.0	0.0	0.0	9.8	5.6	16.5
PRT 336	Pusa Comp. 612		0.0	0.0	0.0	0.0	14.3	0.0	2.5	9.0	0.0	0.0	6.5	3.2	14.3
PRT 337	ABV 04		0.0	0.0	0.0	0.0	12.5	0.0	0.0	16.5	0.0	0.0	7.3	3.6	16.5
PRT 338	ICMV 155		0.0	0.0	0.0	0.0	**18.1**	0.0	5.0	9.0	**0.0**	**3.6**	**8.0**	**4.0**	**18.1**
Mean			**0.0**	**0.1**	**0.0**	**0.0**	**14.6**	**0.7**	**11.8**	**8.4**	**0.0**	**0.1**	**8.9**	**4.5**	**14.6**

Table IV.9D: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Smut (severity %) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 301	GHB 1305	NOT RECORDED	2.5	5.5	0.0	**0.5**	0.0	6.0	0.0	1.0	4.0	2.1	1.8	1.9	6.0
PRT 302	GHB 1294		12.5	0.0	4.5	**0.0**	2.0	0.5	1.0	6.5	6.3	4.3	2.5	3.4	12.5
PRT 303	MPMH 42		0.0	0.0	0.0	**0.5**	0.0	1.0	0.0	10.0	0.0	0.1	2.8	1.4	10.0
PRT 304	MPMH 35		15.0	0.0	2.5	**0.0**	0.0	3.0	2.5	5.5	7.5	4.4	2.8	3.6	15.0
PRT 305	RHB 223		7.5	0.0	0.0	**0.0**	0.0	Nil	NG	0.0	3.8	1.9	0.0	1.3	7.5
PRT 306	PB 1756		0.0	0.0	11.5	**0.0**	2.0	0.0	0.0	9.0	0.0	2.9	2.8	2.8	11.5
PRT 307	HHB 234		0.0	6.0	0.0	**0.0**	0.0	0.0	0.0	10.0	3.0	1.5	2.5	2.0	10.0
PRT 308	GHB 538		12.5	0.0	0.0	**0.5**	0.0	1.5	5.0	9.0	6.3	3.3	3.9	3.6	12.5
PRT 309	HHB 67 Improved		7.5	0.0	1.0	**0.0**	0.0	1.5	0.0	7.0	3.8	2.1	2.1	2.1	7.5
PRT 310	HHB 67 Imp 2		10.0	0.0	1.0	**2.5**	2.0	2.5	0.0	6.5	5.0	3.4	2.8	3.1	10.0
PRT 311	86M94		0.0	8.1	0.0	**2.5**	0.0	0.0	0.0	9.0	4.1	2.7	2.3	2.5	9.0
PRT 312	DHBH 1397		5.0	5.1	4.0	**3.0**	0.0	2.5	0.0	3.5	5.1	4.3	1.5	2.9	5.1
PRT 313	PB 1852		0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	1.5	0.0	0.0	0.4	0.2	1.5
PRT 314	86M01		0.0	0.0	0.0	**0.0**	0.0	1.5	0.0	6.5	0.0	0.0	2.0	1.0	6.5
PRT 315	GHB 905		0.0	0.5	0.0	**0.0**	0.0	2.5	0.0	1.0	0.3	0.1	0.9	0.5	2.5
PRT 316	PB 1705		0.0	0.0	0.0	**0.0**	2.0	1.5	0.0	6.5	0.0	0.0	2.5	1.3	6.5
PRT 317	86M80		0.0	0.0	0.5	**0.0**	0.0	2.5	0.0	0.0	0.0	0.1	0.6	0.4	2.5

Table IV.9D: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Smut (severity %) at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 318	MP 7878	NOT RECORDED	0.0	12.5	2.0	**2.5**	0.0	0.0	0.0	3.5	6.3	4.3	0.9	2.6	12.5
PRT 319	86M84		0.0	0.0	0.0	**0.0**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 320	KBH 108		0.0	0.0	3.5	**0.0**	1.0	0.0	0.0	7.0	0.0	0.9	2.0	1.4	7.0
PRT 321	Kaveri Super Boss		0.0	7.0	0.0	**0.0**	0.0	7.5	1.0	3.5	3.5	1.8	3.0	2.4	7.5
PRT 322	86M86		0.0	0.0	0.5	**0.5**	0.0	3.5	0.0	0.0	0.0	0.3	0.9	0.6	3.5
PRT 323	RHB 233		0.0	0.0	0.5	**1.0**	1.0	3.5	0.0	3.5	0.0	0.4	2.0	1.2	3.5
PRT 324	RHB 234		2.5	1.2	0.0	**0.5**	0.0	8.5	5.0	0.0	1.9	1.1	3.4	2.2	8.5
PRT 325	AHB 1269		1.0	0.0	0.0	**0.0**	0.0	3.0	1.0	3.0	0.5	0.3	1.8	1.0	3.0
PRT 326	AHB 1200		7.5	0.0	7.0	**0.5**	0.0	1.5	2.5	0.0	3.8	3.8	1.0	2.4	7.5
PRT 327	HHB 299		0.0	9.0	0.0	**10.5**	0.0	3.5	0.0	3.5	4.5	4.9	1.8	3.3	10.5
PRT 328	Dhanshakti		0.0	0.0	0.0	**2.5**	0.0	8.5	5.0	0.0	0.0	0.6	3.4	2.0	8.5
PRT 329	ICMV 221		2.5	0.0	1.0	**0.0**	0.0	7.5	0.0	5.5	1.3	0.9	3.3	2.1	7.5
PRT 330	Pusa Composite 701		0.0	0.0	2.0	**0.0**	0.0	12.5	0.0	4.5	0.0	0.5	4.3	2.4	12.5
PRT 331	Pusa Composite 383		5.0	0.0	0.0	**5.0**	0.0	10.0	0.0	6.5	2.5	2.5	4.1	3.3	10.0
PRT 332	JBV 2		0.0	0.0	2.0	**2.5**	0.0	7.5	0.0	9.0	0.0	1.1	4.1	2.6	9.0
PRT 333	Raj 171		0.0	0.0	0.0	**0.5**	0.0	15.0	1.0	4.0	0.0	0.1	5.0	2.6	15.0
PRT 334	Pratap (MH 1642)		0.0	0.6	0.0	**0.0**	0.0	1.5	0.0	5.0	0.3	0.2	1.6	0.9	5.0
PRT 335	NBH 4903		0.0	0.0	NG	**0.0**	**1.0**	0.0	0.0	5.5	0.0	0.0	1.6	0.9	5.5
PRT 336	Pusa Comp. 612		1.0	0.0	0.0	**0.5**	**1.0**	7.5	2.5	3.5	0.0	0.4	3.6	2.0	7.5
PRT 337	ABV 04		0.0	0.0	2.5	**0.0**	**1.0**	6.0	1.0	9.0	**0.0**	**0.6**	4.2	2.4	**6.0**
PRT 338	ICMV 155		2.5	0.0	0.0	**0.5**	**0.0**	1.5	2.5	4.0	**1.2**	**0.7**	2.0	1.3	**4.0**
Mean			**2.7**	**1.9**	**1.6**	**1.3**	**0.4**	**3.7**	**1.1**	**4.8**	**2.3**	**1.8**	**2.5**	**2.1**	**4.8**

Table IV.9E: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Ergot severity at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 301	GHB 1305	NOT RECORDED	0.0	NOT RECORDED	NOT RECORDED	NOT RECORDED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 302	GHB 1294		2.5				1.0	1.5	0.0	1.5	2.5	2.5	1.0	1.3	2.5
PRT 303	MPMH 42		0.0				1.0	2.0	0.0	0.0	0.0	0.0	0.8	0.6	2.0
PRT 304	MPMH 35		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 305	RHB 223		0.0				0.0	0.0	NG	0.0	0.0	0.0	0.0	0.0	0.0
PRT 306	PB 1756		0.0				0.0	2.0	0.0	0.0	0.0	0.0	0.5	0.4	2.0
PRT 307	HHB 234		5.0				0.0	0.0	0.0	2.0	5.0	5.0	0.5	1.4	5.0
PRT 308	GHB 538		2.5				0.0	2.0	0.0	0.0	2.5	2.5	0.5	0.9	2.5
PRT 309	HHB 67 Improved		0.0				0.0	3.0	0.0	0.0	0.0	0.0	0.8	0.6	3.0
PRT 310	HHB 67 Imp 2		2.5				0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.5	2.5
PRT 311	86M94		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 312	DHBH 1397		0.0				0.0	0.0	0.0	2.5	0.0	0.0	0.6	0.5	2.5
PRT 313	PB 1852		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 314	86M01		0.0				0.0	2.0	0.0	0.0	0.0	0.0	0.5	0.4	2.0
PRT 315	GHB 905		0.0				0.0	2.5	0.0	0.0	0.0	0.0	0.6	0.5	2.5
PRT 316	PB 1705		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 317	86M80		0.0				0.0	2.0	0.0	0.0	0.0	0.0	0.5	0.4	2.0

Table IV.9E: Disease screening of Released Pearl Millet Hybrids and Varieties (PMPT III): Ergot severity at 60 DAS-*Kharif* 2025

Project Code	Entry Name	MDR	JPR	HSR	JMR	GLR	MYS	ABD1	DHL	CBE	Mean				MAX.
											Zone A_1	Zone A	Zone B	India	
PRT 318	MP 7878	NOT RECORDED	0.0	NOT RECORDED	NOT RECORDED	NOT RECORDED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 319	86M84		0.0				0.0	2.5	0.0	0.0	0.0	0.0	0.6	0.5	2.5
PRT 320	KBH 108		0.0				0.0	0.0	0.0	1.5	0.0	0.0	0.4	0.3	1.5
PRT 321	Kaveri Super Boss		0.0				0.0	2.0	0.0	0.0	0.0	0.0	0.5	0.4	2.0
PRT 322	86M86		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 323	RHB 233		0.0				1.0	3.5	0.0	2.0	0.0	0.0	1.6	1.3	3.5
PRT 324	RHB 234		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 325	AHB 1269		5.0				0.0	2.0	0.0	0.0	5.0	5.0	0.5	1.4	5.0
PRT 326	AHB 1200		0.0				0.0	2.5	0.0	0.0	0.0	0.0	0.6	0.5	2.5
PRT 327	HHB 299		7.5				0.0	1.0	0.0	1.0	7.5	7.5	0.5	1.9	7.5
PRT 328	Dhanshakti		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 329	ICMV 221		0.0				0.0	1.5	0.0	0.0	0.0	0.0	0.4	0.3	1.5
PRT 330	Pusa Composite 701		2.5				0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.5	2.5
PRT 331	Pusa Composite 383		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 332	JBV 2		2.5				0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.5	2.5
PRT 333	Raj 171		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 334	Pratap (MH 1642)		0.0				0.0	0.0	0.0	2.5	0.0	0.0	0.6	0.5	2.5
PRT 335	NBH 4903		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 336	Pusa Comp. 612		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 337	ABV 04		0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRT 338	ICMV 155		0.0				**0.0**	1.0	0.0	0.0	**0**	**0**	0.25	0.2	**1**
MEAN			**1.2**				**0**	**1.3**	**0**	**0.4**	**1.2**	**0.4**	**0.55**	**0.58**	**1.3**

Table IV.10: Downy Mildew Incidence of PMDMVN-2025 (PMPT IV) entries at -30 DAS-Kharif 2025											
	Entry No	**ABD**	**CBE**	**DHL**	**GLR**	**HSR**	**JPR**	**MDR**	**JMR**	**MYS**	**PTR**
	IR I-	92.5	73.9	88.1	81.0	93.5	80.9	72.1	65.6	78.8	87.7
	IR II	91.3	73.4	84.3	78.9	93.7	64.4	70.0	51.6	82.5	72.7
1	ICMB 24111	0.0	0.0	0.0	1.1	0.0	0.0	2.0	0.0	18.5	38.1
2	ICMB 24222	0.0	1.5	0.0	0.0	0.0	1.3	4.4	3.7	11.0	27.2
3	ICMB 24333	0.0	0.0	21.1	0.0	0.0	0.0	1.7	0.0	4.0	1.5
4	ICMB 24444	0.0	0.0	7.8	1.0	0.0	16.7	0.0	0.0	15.7	27.8
5	ICMB 24555	0.0	0.0	47.5	0.0	NG	12.5	0.0	0.0	11.0	5.8
	IR I	97.5	73.6	85.7	79.7	97.2	81.7	70.7	69.4	85.5	88.1
	IR II	93.8	76.9	77.6	77.3	90.8	76.0	70.2	60.0	80.0	81.7
6	ICMB 24666	0.0	1.5	0.0	0.0	0.0	1.0	2.1	0.0	3.0	7.3
7	ICMB 24777	0.0	7.4	4.8	1.3	0.0	2.7	0.0	5.1	2.5	0.0
8	ICMB 24888	0.0	2.9	32.9	0.0	0.0	4.8	5.3	0.0	23.0	34.9
9	ICMB 24999	0.0	2.2	3.1	0.0	0.0	0.0	3.5	0.0	17.0	11.5
10	ICMR 23111	2.6	0.0	42.0	0.0	0.0	16.7	2.1	0.0	14.0	12.5
	IR I	95.0	71.4	90.3	80.9	81.8	90.7	72.2	58.3	86.0	85.2
	IR II	94.9	73.7	75.9	74.8	87.5	71.6	70.2	62.1	80.0	83.2
11	ICMR 23444	1.3	0.0	0.0	0.0	0.0	2.1	2.4	0.0	3.0	0.6
12	ICMR 23777	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
13	ICMR 24222	0.0	0.0	0.0	0.0	0.0	2.2	2.5	0.0	1.0	0.0
14	ICMR 24333	0.0	38.4	8.0	0.0	0.0	0.0	2.5	0.0	3.0	0.0
15	ICMR 24555	6.7	0.8	4.6	0.0	0.0	0.0	0.0	0.0	2.0	0.0

Table IV.10: Downy Mildew Incidence of PMDMVN-2025 (PMPT IV) entries at -30 DAS-Kharif 2025											
	Entry No	**ABD**	**CBE**	**DHL**	**GLR**	**HSR**	**JPR**	**MDR**	**JMR**	**MYS**	**PTR**
	IR II	93.5	72.6	91.9	82.3	95.0	79.3	72.2	73.3	82.0	81.3
	IR II	94.9	70.8	75.3	73.1	90.0	68.2	71.4	58.3	82.0	80.2
16	ICMR 24666	0.0	0.8	0.0	0.0	0.0	5.3	2.5	0.0	2.0	0.0
17	ICMR 24888	0.0	0.7	0.0	0.0	0.0	5.5	2.5	10.3	4.0	0.7
18	ICMR 24999	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	18.8	49.2
19	ICPMDMR-2	0.0	0.0	0.0	0.0	0.0	2.4	2.2	0.0	8.0	0.0
20	ICPMDMR-2	0.0	7.1	0.0	0.0	0.0	1.7	2.0	7.7	7.5	0.0
	IR I	93.8	80.6	87.0	83.8	86.1	88.8	71.4	74.2	84.0	88.8
	IR II	92.5	71.8	64.3	68.1	90.0	66.7	70.9	67.9	82.0	86.0
21	IP 11930	0.0	0.0	6.2	0.0	0.0	8.5	4.4	0.0	8.0	3.0
22	YG 8	0.0	0.0	0.0	0.0	0.0	4.1	4.4	0.0	5.0	2.9
23	ICPMDMR-2	0.0	0.0	0.0	0.0	0.0	2.6	2.3	0.0	3.5	1.1
24	IP 6193-2	0.0	0.0	3.6	0.0	0.0	2.8	2.0	0.0	6.5	4.2
25	IP 9645	0.0	0.0	6.5	0.0	0.0	6.7	4.0	2.9	7.5	3.7
	IR I	94.7	75.1	90.8	83.0	95.0	79.2	72.1	70.0	85.0	89.9
	IR II	93.8	73.6	65.2	69.4	90.0	58.4	71.0	69.0	83.0	82.7
26	ICPMDMR-2	0.0	0.0	10.0	0.0	2.6	3.2	2.2	0.0	5.0	0.0
27	ICPMDMR-2	0.0	0.0	12.7	0.0	0.0	0.8	2.2	0.0	7.0	1.6
28	IP 18292	2.6	0.7	16.4	0.0	0.0	4.4	3.5	0.0	5.5	3.2
29	IP 9997	2.6	0.0	1.8	0.0	0.0	3.4	1.9	0.0	3.0	1.7
30	IP 5719-3	0.0	0.0	12.3	0.0	0.0	2.0	5.0	6.7	4.5	6.7
	IR I	97.5	76.4	88.5	82.5	93.9	80.8	70.7	75.9	82.0	90.1
	IR II	92.5	73.6	75.0	74.3	96.7	66.5	71.2	60.0	84.0	85.3
31	IP 18293	7.8	9.7	0.0	0.0	0.0	1.0	4.8	5.4	25.0	21.8
32	7042 S	**11.7**	**0.0**	91.5	**13.7**	**9.1**	**75.0**	**42.5**	**0.0**	85.5	89.9
33	**243-SB-25**	0.0	55.3	8.8	0.0	0.0	1.1	4.0	71.0	13.0	0.0
34	**261-SB-25**	0.0	1.4	0.0	0.0	1.8	0.7	2.1	3.1	4.0	0.5
35	**270-SB-25**	0.0	16.2	0.0	0.0	0.0	0.0	2.0	0.0	9.0	5.2

Table IV.10: Downy Mildew Incidence of PMDMVN-2025 (PMPT IV) entries at -30 DAS-Kharif 2025											
	Entry No	**ABD**	**CBE**	**DHL**	**GLR**	**HSR**	**JPR**	**MDR**	**JMR**	**MYS**	**PTR**
	IR I	92.5	72.9	89.3	81.1	95.0	89.5	71.7	61.1	83.0	90.6
	IR II	93.7	77.5	70.3	73.9	90.0	70.4	70.9	57.1	87.5	84.2
36	**286-SB-25**	0.0	0.0	7.1	0.0	0.0	3.2	4.6	0.0	7.0	6.7
37	**305-SB-25**	0.0	0.0	6.9	0.0	0.0	1.0	2.0	0.0	3.0	2.1
38	**363-BCS-25**	0.0	0.0	5.5	0.0	0.0	1.3	2.1	0.0	6.0	12.2
39	**368-BCS-25**	0.0	0.0	8.5	0.0	0.0	2.7	2.5	2.6	12.0	9.7
40	**378-BCS-25**	0.0	11.4	6.7	0.0	0.0	10.3	5.0	0.0	15.0	24.1
	IR I	98.8	73.1	94.4	83.8	91.7	88.8	71.7	64.1	80.0	84.2
	IR II	91.3	73.8	76.9	75.4	91.7	68.2	70.2	51.5	79.0	82.2
41	**RIB-15196**	0.0	2.9	67.1	0.0	8.3	28.6	9.4	5.7	53.0	41.8
42	**RIB-15197**	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	6.0	0.6
43	**RIB-15198**	0.0	0.0	15.3	0.0	0.0	9.2	3.8	0.0	21.0	15.0
44	**HR-24-1**	0.0	0.0	1.7	0.0	0.0	2.3	4.8	0.0	31.5	54.5
45	**HR-24-2**	5.0	0.0	11.3	0.0	0.0	38.2	5.7	0.0	43.5	32.8
	IR I	97.4	74.5	89.3	81.9	93.9	84.6	72.7	70.0	79.9	85.3
	IR II	93.5	73.0	83.3	78.2	97.8	69.6	71.2	62.1	83.2	85.6
46	**HR-24-3**	0.0	0.0	10.3	0.0	0.0	9.1	4.4	0.0	8.5	3.5
47	**HR-24-4**	0.0	1.4	6.3	0.0	0.0	7.8	10.6	10.5	7.5	3.0
	IR I	97.4	74.0	84.8	79.4	96.3	84.4	71.2	87.7	82.0	80.8
	IR II	94.7	75.0	72.7	73.9	78.7	74.3	69.5	94.4	85.0	85.2
Location Mean		**1.5**	**4.5**	**18.5**	**1.2**	**1.5**	**6.5**	**3.5**	**2.8**	**14.5**	**16.5**

PMDMVN	**Downy Mildew Incidence (%) 30 DAS**									
	ABD	**CBE**	**DHL**	**GLR**	**HSR**	**JPR**	**MDR**	**JMR**	**MYS**	**PTR**
IR1	**95.5**	**74.5**	**89.5**	**82.5**	**92.5**	**85.5**	**71.5**	**69.5**	**83.5**	**87.5**
IR2	**93.5**	**73.5**	**78.5**	**76.5**	**91**	**70**	**70.5**	**60.5**	**82.5**	**83.5**

Table IV.10A:Downy Mildew Incidence of PMDMVN-2025 (PMPT IV) entries at -60 DAS-Kharif 2025

	Entry Name	ABD	CBE	DHL	GLR	HSR	JPR	MDR	JMR	MYS	PTR
	IR I	98.7	86.3	92.5	89.4	96.3	82.9	100.0	84.4	98.5	92.5
	IR II	93.8	89.8	84.3	87.1	93.7	71.2	100.0	71.0	93.5	88.0
1	ICMB 24111	2.7	0.0	0.0	0.0	0.0	0.0	4.0	0.0	32.0	40.9
2	ICMB 24222	1.4	2.9	0.0	0.0	0.0	1.3	6.7	3.7	27.0	42.5
3	ICMB 24333	0.0	1.5	21.1	0.0	0.0	0.0	5.0	0.0	9.0	2.0
4	ICMB 24444	1.3	0.7	7.8	4.0	0.0	16.7	4.2	0.0	38.0	32.0
5	ICMB 24555	0.0	0.0	50.8	0.0	NG	12.5	0.0	0.0	25.0	7.9
	IR I	97.5	88.9	95.2	92.1	97.2	83.7	100.0	83.3	98.5	97.2
	IR II	96.2	92.8	77.6	85.2	90.8	80.3	100.0	68.6	99.0	93.7
6	ICMB 24666	2.7	1.5	0.0	0.0	0.0	1.0	4.2	4.0	4.0	11.9
7	ICMB 24777	0.0	7.4	4.8	0.0	0.0	2.7	3.6	7.7	8.0	0.0
8	ICMB 24888	2.6	2.9	32.9	0.0	0.0	4.8	5.3	0.0	57.0	52.1
9	ICMB 24999	2.6	2.9	3.1	0.0	0.0	0.0	3.5	0.0	21.0	16.0
10	ICMR 23111	5.1	0.0	42.0	0.0	0.0	16.7	6.3	0.0	24.0	16.8
	IR I	2.6	85.6	96.8	91.2	81.8	94.0	100.0	94.4	97.5	97.0
	IR II	1.3	86.8	81.0	83.9	87.5	73.2	100.0	75.9	95.5	92.1
11	ICMR 23444	2.5	0.7	0.0	0.0	0.0	2.1	4.8	0.0	4.0	0.6
12	ICMR 23777	5.3	0.0	0.0	0.0	0.0	0.0	4.4	0.0	3.0	0.0
13	ICMR 24222	2.8	0.0	0.0	0.0	0.0	2.2	5.0	0.0	2.0	0.0
14	ICMR 24333	1.3	39.1	8.0	0.0	0.0	0.0	5.0	0.0	4.0	0.0
15	ICMR 24555	8.0	0.8	4.6	0.0	0.0	0.0	4.3	0.0	4.0	0.6

Table IV.10A:Downy Mildew Incidence of PMDMVN-2025 (PMPT IV) entries at -60 DAS-Kharif 2025

	Entry Name	ABD	CBE	DHL	GLR	HSR	JPR	MDR	JMR	MYS	PTR
	IR II	97.3	85.1	93.5	89.3	95.0	89.7	100.0	100.0	99.0	96.1
	IR II	97.4	84.7	80.0	82.4	90.0	78.2	100.0	75.0	98.0	89.8
16	ICMR 24666	1.4	0.8	0.0	0.0	0.0	5.3	5.0	0.0	4.0	0.0
17	ICMR 24888	1.3	1.4	0.0	0.0	0.0	5.5	5.0	10.3	4.0	2.0
18	ICMR 24999	1.4	0.7	0.0	0.0	0.0	0.0	4.6	0.0	38.0	61.3
19	ICPMDMR-2	2.6	0.0	0.0	0.0	0.0	2.4	4.4	0.0	11.0	0.0
20	ICPMDMR-2	2.7	7.1	0.0	8.2	4.2	1.7	6.0	23.1	9.0	0.0
	IR I	96.3	88.9	90.7	89.8	86.1	90.8	100.0	100.0	97.0	95.8
	IR II	94.8	85.9	74.3	80.1	90.0	70.0	100.0	75.0	98.5	90.0
21	IP 11930	1.3	0.7	6.2	0.0	0.0	8.5	8.7	0.0	9.0	5.0
22	YG 8	0.0	0.0	0.0	0.0	1.9	4.1	6.7	0.0	7.0	4.1
23	ICPMDMR-2	2.6	0.0	0.0	0.0	0.0	2.6	7.0	0.0	4.0	2.3
24	IP 6193-2	2.7	0.7	3.6	0.0	0.0	2.8	6.0	0.0	9.0	5.2
25	IP 9645	1.3	0.0	6.5	0.0	0.0	6.7	6.0	5.9	8.0	4.8
	IR I	98.7	91.0	93.8	92.4	95.0	90.0	100.0	90.0	99.5	99.0
	IR II	97.3	87.5	79.7	83.6	90.0	71.9	100.0	82.8	96.0	94.9
26	ICPMDMR-2	1.4	0.0	10.0	0.0	2.6	3.2	6.7	0.0	8.0	0.0
27	ICPMDMR-2	1.3	0.0	12.7	0.0	0.0	0.8	4.4	4.0	8.0	2.1
28	IP 18292	5.3	0.7	16.4	0.0	0.0	4.4	5.3	0.0	6.0	4.8
29	IP 9997	3.9	0.0	1.8	0.0	0.0	3.4	3.9	0.0	4.0	2.3
30	IP 5719-3	1.4	0.0	12.3	0.0	0.0	2.0	5.0	13.3	6.0	8.2
	IR I	97.5	89.6	93.4	91.5	93.9	86.4	100.0	100.0	95.0	99.0
	IR II	95.0	83.3	78.8	81.1	96.7	84.3	100.0	80.0	96.5	93.1
31	IP 18293	11.7	10.4	3.3	8.5	0.0	1.0	4.8	5.4	31.0	26.5
32	7042 S	**39.0**	**30.0**	92.0	**43.0**	**60.0**	**75.0**	92.5	**67.0**	99.0	100.0
33	243-SB-25	1.3	55.3	8.8	0.0	5.0	1.1	6.0	96.8	18.0	0.5
34	261-SB-25	2.6	0.0	0.0	0.0	1.8	0.7	6.3	6.3	5.0	1.6
35	270-SB-25	1.3	18.3	0.0	0.0	0.0	0.0	4.0	0.0	12.0	7.0

Table IV.10A:Downy Mildew Incidence of PMDMVN-2025 (PMPT IV) entries at -60 DAS-Kharif 2025

	Entry Name	ABD	CBE	DHL	GLR	HSR	JPR	MDR	JMR	MYS	PTR
	IR I	97.5	82.9	96.4	89.7	95.0	89.5	100.0	94.4	97.5	98.1
	IR II	95.0	87.4	78.1	82.8	90.0	75.7	100.0	76.2	96.0	91.0
36	286-SB-25	1.3	0.0	7.1	0.0	2.8	3.2	11.4	0.0	9.0	7.9
37	305-SB-25	1.3	0.0	6.9	0.0	0.0	1.0	4.0	0.0	4.0	3.2
38	363-BCS-25	0.0	0.0	5.5	0.0	0.0	1.3	4.2	0.0	15.0	14.8
39	368-BCS-25	0.0	0.0	8.5	0.0	0.0	2.7	5.0	5.3	17.0	11.9
40	378-BCS-25	1.3	12.1	8.3	0.0	0.0	10.3	5.0	0.0	23.0	27.5
	IR I	97.4	82.9	96.3	89.6	91.7	93.3	100.0	87.2	98.0	98.0
	IR II	93.6	87.9	83.1	85.5	91.7	76.5	100.0	72.7	79.0	90.0
41	RIB-15196	2.6	2.9	67.1	12.5	8.3	28.6	22.6	17.1	58.0	51.5
42	RIB-15197	0.0	0.0	0.0	0.0	0.0	2.9	5.0	0.0	6.0	0.6
43	RIB-15198	1.3	0.0	15.3	6.1	9.1	9.2	7.6	0.0	27.0	20.0
44	HR-24-1	1.3	0.0	1.7	0.0	0.0	2.3	4.8	0.0	56.0	60.7
45	HR-24-2	15.0	0.0	14.5	0.0	0.0	38.2	9.4	0.0	51.0	44.1
	IR I	93.7	87.9	94.6	91.3	96.7	88.1	100.0	93.3	98.5	100.0
	IR II	95.9	88.4	86.7	87.6	97.8	69.6	100.0	72.4	98.0	95.0
46	HR-24-3	1.3	0.0	10.3	0.0	0.0	9.1	6.7	0.0	12.0	4.2
47	HR-24-4	1.3	2.2	6.3	0.0	0.0	7.8	23.4	15.8	9.0	4.3
	IR I	97.4		92.4	92.4	96.3	90.0	100.0	100.0	97.0	97.1
	IR II	96.0		80.3	80.3	90.3	74.3	100.0	84.0	96.0	92.1
	Location Mean	2.5	4.8	16.8	1.8	2.5	7.8	5.5	4.2	24.5	26.8

PMDMVN	Downy Mildew Incidence (%) 30 DAS									
	ABD	CBE	DHL	GLR	HSR	JPR	MDR	JMR	MYS	PTR
IR1	96.0	85.0	93.0	90.0	93.0	87.0	100.0	90.0	97.0	96.0
IR2	94	86	80	82	91	75	100	74	95	92

Table IV.12:Blast Incidence of PMBVN-2025 (PMPT V) entries at -30 DAS-Kharif 2025

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	Vijayanagaram	Tirupathi
		ICMB 95444	4.0	3.3	2.5	3.5	3.0	3.0	5.5	4.0	5.0	2.7	2.7
1	ICPMBL – 01	ICPMBB-25-1	1.0	1.7	0.5	0.0	1.0	0.2	3.5	1.0	4.5	2.6	2.6
2	ICPMBL – 02	ICPMBB-25-2	0.5	1.2	0.0	0.0	1.5	0.1	4.5	1.5	3.0	3.3	3.3
3	ICPMBL – 03	ICPMBB-25-3	0.5	1.7	0.0	0.0	0.0	0.2	2.5	1.0	3.0	2.9	2.9
4	ICPMBL - 04	ICPMBB-25-4	1.0	1.2	0.5	0.0	1.0	0.0	1.0	1.0	2.0	4.3	4.3
5	ICPMBL - 05	ICPMBB-25-5	1.0	1.4	0.0	0.0	0.0	0.0	0.0	3.0	2.0	3.4	3.4
6	ICPMBL - 06	ICPMBB-25-6	1.0	2.4	0.0	0.0	0.0	0.1	1.5	0,5	3.0	1.8	1.8
7	ICPMBL - 07	ICPMBB-25-7	0.5	1.0	0.5	0.0	1.0	0.0	4.0	1.5	3.5	1.8	1.8
8	ICPMBL - 08	ICPMBB-25-8	1.0	NG	0.0	0.0	1.0	0.4	5.5	2,0	3.0	3.2	3.2
9	ICPMBL - 9	ICPMBB-25-9	1.5	1.8	0.5	0.0	1.0	0.2	5.0	0.0	2.0	1.3	1.3
10	ICPMBL - 10	ICPMBB-25-10	1.0	1.2	0.0	0.0	0.0	0.1	1.5	1.5	4.0	1.6	1.6
		ICMB 89111	2.0	3.6	2.0	3.0	3.0	2.0	5.5	4.0	5.0	3.9	3.9
11	ICPMBL - 11	ICPMBB-25-11	0.5	1.6	0.0	0.0	1.0	0.1	2.5	1.0	3.5	1.6	1.6
12	ICPMBL - 12	ICPMBB-25-12	1.0	1.3	0.5	0.5	0.0	0.0	1.5	1.5	3.0	3.5	3.5
13	ICPMBL - 13	ICPMBB-25-13	0.5	1.5	0.0	0.0	1.0	0.1	1.5	1.0	3.5	1.3	1.3
14	ICPMBL - 14	ICPMBB-25-14	0.5	2.4	0.0	0.0	1.0	0.0	2.0	0.0	3.5	2.9	2.9
15	ICPMBL - 15	ICPMBB-25-15	1.0	2.2	0.0	0.5	1.0	0.6	3.5	1.0	3.5	3.5	3.5
16	ICPMBL -16	ICPMBB-25-16	0.5	1.0	0.0	0.0	0.5	0.1	2.5	1.5	3.0	1.3	1.3
17	ICPMBL -17	ICPMBB-25-17	2.0	2.4	0.0	0.0	0.0	0.1	0.5	0.0	2.0	3	3
18	ICPMBL -18	ICPMBB-25-18	1.5	3.3	0.0	0.0	0.5	0.4	3.5	1.0	2.5	2.6	2.6
19	ICPMBL - 19	ICPMBB-25-19	1.0	1.2	0.0	0.5	1.0	0.0	2.5	0.0	2.0	3.2	3.2
20	ICPMBL - 20	ICPMBB-25-20	1.0	2.3	0.0	0.0	0.5	0.0	2.0	1.0	2.0	3.9	3.9
		ICMB 95444	2.5	3.7	1.0	4.0	2.0	2.0	5.5	3.5	5.0	2.5	2.5

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	Vijayanagaram	Tirupathi
21	ICPMBL - 21	ICPMBB-25-21	1.5	1.0	0.0	0.0	0.0	0.0	1.0	0.0	3.5	1.7	1.7
22	ICPMBL -22	ICPMBB-25-22	1.5	1.3	0.0	0.0	0.0	0.1	0.5	0.0	2.0	1.8	1.8
23	ICPMBL - 23	ICPMBB-25-23	1.0	3.8	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.4	3.4
24	ICPMBL - 24	ICPMBB-25-24	0.0	3.0	0.5	0.0	0.0	0.2	1.0	1.5	3.0	3.7	3.7
25	ICPMBL - 25	ICPMBB-25-25	0.5	NG	0.0	0.0	1.0	0.1	2.5	0.0	2.0	2.5	2.5
26	ICPMBL - 26	PBPMPOP 2-2	1.0	2.8	0.0	0.0	1.0	0.0	3.5	1.0	2.0	3	3
27	ICPMBL - 27	PBPMPOP 2-7	0.5	1.3	0.0	0.0	0.0	0.0	0.5	0,5	2.0	2	2
28	ICPMBL - 28	PBPMPOP 2-2	0.5	NG	0.5	0.5	1.0	0.0	2.0	0.0	2.0	2.4	2.4
29	ICPMBL - 29	PBPMPOP 2-4	1.0	1.1	0.5	0.5	0.0	0.0	0.5	0.0	2.0	3.2	3.2
30	ICPMBL - 30	PBPMPOP 2-5	0.0	1.0	0.5	0.0	0.0	0.0	0.0	1.0	2.0	4.7	4.7
		ICMB 89111	3.5	3.3	2.5	3.5	2.5	2.5	5.0	4.0	5.0	3.3	3.3
31	ICPMBL - 31	PBPMPOP 2-2	0.5	1.6	0.5	0.0	1.0	0.2	2.5	2.0	2.0	2.3	2.3
32	ICPMBL - 32	PBPMPOP 2-5	0.0	1.3	0.5	0.0	0.0	0.0	0.5	0.5	2.0	3.2	3.2
33	ICPMBL - 33	ICMR 06444	1.0	2.4	0.0	0.0	0.0	0.0	0.5	0,5	2.0	2	2
34	ICPMBL - 34	IP 21187-P1	0.5	2.6	0.5	0.0	0.0	0.3	1.5	1.0	2.0	2.5	2.5
35	ICPMBL - 35	ICMB 95444	0.5	NG	0.5	0.0	2.5	0.7	5.0	3.5	5.0	2.5	2.5
36	ICPMBL -36	PPMI 724	1.5	1.4	0.0	0.0	0.0	0.1	1.5	2.0	2.5	4.1	4.1
37	ICPMBL - 37	PPMI 1156	1.0	2.1	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.2	2.2
38	ICPMBL -38	AL-23	1.0	3.2	0.0	0.0	1.0	0.3	2.5	1.0	2.0	3.3	3.3
39	ICPMBL - 39	AL-27	1.5	2.9	1.0	0.0	1.0	0.0	1.5	0.0	2.5	2.5	2.5
40	ICPMBL - 40	AL-59	0.5	2.8	0.5	0.0	1.0	0.2	2.5	1.5	2.5	2.6	2.6
		ICMB 95444	4.0	3.1	2.0	3.0	3.0	2.5	6.0	4.0	5.0	3.8	3.8
41	ICPMBL - 41	AL-60	0.0	1.2	0.0	0.0	0.0	0.0	NG	1.0	2.0	2.6	2.6
42	ICPMBL - 42	AL-106	1.0	2.1	0.0	0.0	0.0	0.3	1.5	1.0	3.0	2.4	2.4
43	ICPMBL - 43	AL-126	0.5	3.8	1.0	0.0	0.5	0.1	0.5	0.0	2.5	1.7	1.7
44	ICPMBL - 44	AL-267	1.0	2.1	0.5	0.0	1.0	0.0	3.0	1.0	3.0	4.6	4.6
45	ICPMBL - 45	24R 44	1.0	1.2	1.0	0.0	0.0	0.0	1.0	0.0	2.0	3.7	3.7
46	ICPMBL - 46	24R 45	1.0	1.7	0.5	0.0	0.0	0.3	1.5	1.0	2.0	2.3	2.3
47	ICPMBL - 47	24R 82	0.5	3.5	0.5	0.0	0.0	0.0	2.0	1.0	2.0	3.9	3.9
48	ICPMBL - 48	286-SB-25	0.5	2.6	0.5	0.0	0.5	0.0	1.0	1.0	2.5	2.2	2.2
49	ICPMBL - 49	306-SB-25	0.5	2.2	0.5	0.0	1.0	0.0	4.5	2.0	4.0	3.8	3.8
50	ICPMBL - 50	395-BCS-25	1.0	2.1	0.5	0.0	1.0	0.2	1.5	1.0	2.0	2.2	2.2
		ICMB89111	3.5	3.9	2.0	4.0	1.0	3.0	6.0	3.5	5.0	2.7	2.7

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	Vijayanagaram	Tirupathi
51	ICPMBL - 51	411-BCS-25	0.0	NG	1.5	0.0	0.5	0.0	2.5	1.5	3.0	1.6	1.6
52	ICPMBL - 52	423-BCS-25	0.5	2.2	1.0	0.0	0.5	0.1	1.5	1.0	2.5	1.6	1.6
53	ICPMBL - 53	425-BCS-25	0.0	3.1	1.0	0.0	0.5	0.0	2.5	1.0	3.5	3.4	3.4
54	ICPMBL - 54	RIB-15199	1.5	2.9	1.0	0.0	0.5	0.6	2.0	0.5	3.5	3.4	3.4
55	ICPMBL - 55	RIB-15200	1.0	1.1	1.0	0.0	1.0	0.7	4.0	1.0	3.5	2.6	2.6
56	ICPMBL - 56	RIB-15201	2.0	1.9	0.5	0.0	1.0	0.0	1.5	1.0	3.0	2.8	2.8
57	ICPMBL - 57	HR-24-5	1.5	1.4	0.0	0.0	0.0	0.3	4.0	2.0	3.5	1.6	1.6
58	ICPMBL - 58	HR-24-6	1.0	2.0	0.5	0.0	1.0	0.0	0.5	2.0	3.0	1.2	1.2
59	ICPMBL - 59	HR-24-7	1.0	2.4	0.5	0.0	1.0	0.8	3.0	3.0	4.5	2.1	2.1
60	ICPMBL - 60	HR-24-8	1.5	1.6	0.0	0.0	0.0	0.3	4.0	2.0	3.5	2	2
		ICMB 95444	3.5	2.9	2.0	4.0	2.0	2.0	6.0	4.0	5.0	3.3	3.3
61	ICPMBL - 61	DHLB-PMBVN-	0.5	NG	0.0	0.0	0.0	0.5	2.5	1.0	2.5	1.9	1.9
62	ICPMBL - 62	DHLB-PMBVN-	0.5	1.3	0.0	0.0	0.5	0.1	1.5	1.0	2.0	2.1	2.1
63	ICPMBL - 63	DHLB-PMBVN-	1.0	2.1	1.0	0.0	1.0	0.1	2.5	1.5	2.5	1.6	1.6
64	ICPMBL - 64	DHLB-PMBVN-	1.5	3.0	0.5	0.0	0.5	0.5	2.5	1.0	3.0	1.6	1.6
65	ICPMBL - 65	DHLB-PMBVN-	1.5	1.6	0.0	0.0	0.5	0.0	3.5	2.0	3.0	1.9	1.9
66	ICPMBL - 66	DHLB-PMBVN-	0.5	1.4	0.0	0.0	0.5	0.2	2.5	1.0	3.0	2.5	2.5
67	ICPMBL - 67	IP 11353	0.5	3.1	1.5	0.5	0.0	0.0	0.5	0.0	2.0	1.9	1.9
68	ICPMBL - 68	IP 22423	1.5	1.4	1.5	0.0	0.5	0.0	0.5	0.0	2.0	3.3	3.3
69	ICPMBL - 69	ICMR100844	1.5	1.8	1.0	0.0	0.0	0.0	2.0	0.0	2.0	3.2	3.2
70	ICPMBL - 70	IP 8280	1.5	1.6	0.5	0.0	0.0	0.2	1.5	1.0	3.0	2.4	2.4
71	ICPMBL - 71	IP 12322	1.0	3.6	1.0	0.0	2.5	0.0	1.0	1.5	2.0	2.9	2.9
		ICMB89111	4.0	1.4	1.5	3.5	**2.5**	2.0	6.0	4.0	5.0	3.3	3.3
		MEAN	**0.9**	**2.0**	**0.4**	**0.3**	**0.7**	**0.2**	**2.4**	**1.2**	**2.7**	**2.6**	**2.6**
	MEAN	**ICMB 95444**	**3.5**	**3.2**	**2.0**	**3.8**	**2.6**	**2.2**	**5.7**	**3.8**	**5.0**	**3.1**	**3.1**

Table IV.12A:Blast Incidence of PMBVN-2025 (PMPT V) entries at -30 DAS-Kharif 2025

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	ijayanagara	Tirupathi
		ICMB 95444	5.0	4.4	4.5	6.0	3.0	3.0	7.0	6.0	7.0	5.0	7.7
1	ICPMBL – 01	ICPMBB-25-1	1.0	1.9	1.0	1.0	2.0	0.2	4.5	2.5	5.5	3.3	0.4
2	ICPMBL – 02	ICPMBB-25-2	1.0	1.5	0.5	1.0	2.5	0.1	5.5	3.0	5.3	3.7	0.6
3	ICPMBL – 03	ICPMBB-25-3	1.0	1.8	0.0	1.0	0.5	0.2	3.5	2.0	4.0	3.2	0.5
4	ICPMBL - 04	ICPMBB-25-4	1.5	1.4	2.0	1.0	2.5	0.0	2.0	3.0	3.5	4.2	4.6
5	ICPMBL - 05	ICPMBB-25-5	2.5	1.6	2.0	1.0	0.5	0.0	0.5	3.0	3.0	3.5	0.4
6	ICPMBL - 06	ICPMBB-25-6	1.0	2.6	1.0	0.0	0.5	0.1	2.5	2.0	4.5	2.6	1.1
7	ICPMBL - 07	ICPMBB-25-7	1.5	1.2	2.0	0.5	2.5	0.0	5.0	3.0	4.5	2.3	0.5
8	ICPMBL - 08	ICPMBB-25-8	1.5	NG	1.0	1.0	2.5	0.4	6.5	3.5	4.5	3.6	0.8
9	ICPMBL - 9	ICPMBB-25-9	2.0	2.2	0.0	1.0	2.0	0.2	6.0	1.0	3.0	1.8	0.5
10	ICPMBL - 10	ICPMBB-25-10	2.0	1.4	1.0	1.0	0.5	0.1	1.5	2.0	5.0	2.3	0.4
	ICMB 89111		4.5	5.2	3.0	5.5	4.0	3.5	7.5	4.0	7.0	5.8	5.8
11	ICPMBL - 11	ICPMBB-25-11	1.0	1.9	0.0	0.0	2.0	0.1	3.5	2.0	4.5	2.5	0.3
12	ICPMBL - 12	ICPMBB-25-12	1.0	1.7	0.5	1.5	0.5	0.0	2.0	3.0	4.5	3.9	0.9
13	ICPMBL - 13	ICPMBB-25-13	0.5	1.7	1.0	0.5	2.5	0.1	2.5	2.0	4.8	2.2	0.5
14	ICPMBL - 14	ICPMBB-25-14	0.5	2.7	0.5	1.0	2.0	0.0	3.0	1.0	4.5	3.9	0.3
15	ICPMBL - 15	ICPMBB-25-15	1.5	2.4	0.5	2.0	2.5	0.6	5.0	2.0	5.0	4.3	0.9
16	ICPMBL -16	ICPMBB-25-16	0.5	1.2	0.0	1.0	2.0	0.1	4.0	2.0	4.5	2.1	2.7
17	ICPMBL -17	ICPMBB-25-17	3.0	3.8	0.0	1.0	0.5	0.1	1.0	2.0	3.0	3.5	0.6
18	ICPMBL -18	ICPMBB-25-18	2.5	3.5	1.0	1.0	2.0	0.4	4.5	2.5	3.5	2.7	0.6
19	ICPMBL - 19	ICPMBB-25-19	2.0	1.4	1.0	1.5	2.0	0.0	3.5	1.0	3.0	4.1	2.0
20	ICPMBL - 20	ICPMBB-25-20	1.0	2.5	0.0	1.0	1.5	0.0	3.0	3.0	3.0	4.2	1.4
	ICMB 95444		5.0	5.3	3.5	6.0	4.5	4.0	8.0	6.0	7.0	4.8	8.9
21	ICPMBL - 21	ICPMBB-25-21	2.5	1.2	1.0	0.0	0.5	0.0	2.0	1.0	4.5	2.1	0.4
22	ICPMBL -22	ICPMBB-25-22	2.5	1.4	0.0	0.5	0.5	0.1	1.5	1.5	3.0	2.4	0.5
23	ICPMBL - 23	ICPMBB-25-23	2.0	4.0	1.0	0.5	0.5	0.0	0.5	1.0	3.0	3.7	0.8
24	ICPMBL - 24	ICPMBB-25-24	0.0	3.1	1.5	0.5	0.5	0.2	1.5	1.5	4.0	4.7	0.7
25	ICPMBL - 25	ICPMBB-25-25	1.0	NG	1.0	1.0	1.5	0.1	3.5	1.5	3.0	3.1	1.6
26	ICPMBL - 26	PBPMPOP 2-20	2.0	3.0	0.5	1.0	1.5	0.0	5.0	2.0	3.0	3.1	0.9
27	ICPMBL - 27	PBPMPOP 2-72	2.0	1.5	0.5	0.5	0.5	0.0	1.5	1.5	2.0	2.2	0.3
28	ICPMBL - 28	PBPMPOP 2-20	1.5	NG	1.5	1.0	1.5	0.0	3.0	1.0	2.5	2.7	0.3
29	ICPMBL - 29	PBPMPOP 2-48	2.5	1.3	0.5	1.5	0.5	0.0	1.5	1.0	2.5	4.3	1.8
30	ICPMBL - 30	PBPMPOP 2-58	1.5	1.2	2.0	1.0	0.5	0.0	1.0	1.0	2.0	4.6	0.4
	ICMB 89111		5.0	5.3	3.5	6.5	5.0	5.0	7.0	5.0	6.5	5.6	6.5
31	ICPMBL - 31	PBPMPOP 2-21	1.5	1.8	0.0	0.5	2.0	0.2	3.5	3.0	2.0	3.4	0.8
32	ICPMBL - 32	PBPMPOP 2-58	0.0	1.5	0.0	0.5	1.0	0.0	1.0	1.0	2.5	3.3	0.7
33	ICPMBL - 33	ICMR 06444	2.0	2.5	0.5	0.5	0.0	0.0	1.5	1.5	3.0	2.5	0.6
34	ICPMBL - 34	IP 21187-P1	1.0	3.0	0.0	0.0	0.0	0.3	2.0	1.0	3.0	3.0	0.6

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	ijayanagara	Tirupathi
35	**ICPMBL - 35**	**ICMB 95444**	**1.5**	**NG**	**0.5**	**0.5**	**4.5**	**0.7**	**7.0**	**6.0**	**7.3**	**3.6**	**1.9**
36	ICPMBL -36	PPMI 724	2.5	1.2	0.0	1.0	0.0	0.1	2.0	3.0	4.0	4.1	0.9
37	ICPMBL - 37	PPMI 1156	1.5	2.2	0.5	0.0	0.5	0.0	0.5	2.5	3.0	2.9	0.9
38	ICPMBL -38	AL-23	1.5	4.0	0.5	1.0	1.5	0.3	3.0	2.0	3.5	4.1	0.7
39	ICPMBL - 39	AL-27	2.0	3.4	0.5	1.0	1.5	0.0	2.5	1.0	3.5	2.8	0.5
40	ICPMBL - 40	AL-59	1.5	3.0	0.0	1.0	1.5	0.2	4.5	2.0	3.5	2.6	0.6
	ICMB 95444		5.5	5.4	3.5	6.0	4.5	5.0	8.0	5.0	7.0	5.7	7.6
41	ICPMBL - 41	AL-60	0.5	1.3	0.5	1.0	0.0	0.0	NG	1.5	3.0	3.1	0.9
42	ICPMBL - 42	AL-106	2.0	2.2	1.0	1.0	1.0	0.3	2.5	1.5	4.5	2.2	0.9
43	ICPMBL - 43	AL-126	1.0	4.0	0.5	1.0	1.5	0.1	0.5	1.0	3.5	1.9	0.6
44	ICPMBL - 44	AL-267	1.5	2.3	1.0	1.0	2.0	0.0	4.0	1.5	4.5	4.2	0.5
45	ICPMBL - 45	24R 44	2.0	1.2	2.5	1.0	0.5	0.0	1.5	1.0	3.0	4.0	1.2
46	ICPMBL - 46	24R 45	1.5	1.8	1.0	1.0	0.0	0.3	2.5	2.0	3.0	2.8	1.8
47	ICPMBL - 47	24R 82	1.5	3.6	2.5	1.0	0.5	0.0	3.0	1.5	3.0	4.3	0.5
48	ICPMBL - 48	286-SB-25	3.0	2.6	2.0	1.5	0.5	0.0	1.0	2.0	4.0	2.5	0.5
49	ICPMBL - 49	306-SB-25	1.5	2.3	1.5	0.5	1.5	0.0	5.5	3.0	5.5	4.1	1.0
50	ICPMBL - 50	395-BCS-25	1.5	2.4	0.0	0.5	1.5	0.2	2.5	1.5	3.0	2.7	0.2
	ICMB89111		5.0	6.2	2.0	6.5	4.5	5.5	8.0	5.0	7.0	4.8	6.5
51	ICPMBL - 51	411-BCS-25	1.0	NG	2.0	0.5	1.5	0.0	3.5	3.5	4.3	2.1	2.2
52	ICPMBL - 52	423-BCS-25	1.0	2.4	2.0	2.0	1.0	0.1	2.5	2.5	3.5	2.2	1.9
53	ICPMBL - 53	425-BCS-25	1.0	3.2	1.0	1.0	1.0	0.0	4.0	2.5	5.5	3.3	3.8
54	ICPMBL - 54	RIB-15199	2.0	3.1	1.5	1.0	1.0	0.6	3.0	1.5	5.0	3.6	1.7
55	ICPMBL - 55	RIB-15200	1.5	1.2	0.5	0.5	1.5	0.7	5.0	1.5	5.5	2.4	0.5
56	ICPMBL - 56	RIB-15201	2.5	2.1	0.5	0.5	2.0	0.0	3.0	2.0	4.3	2.7	0.5
57	ICPMBL - 57	HR-24-5	2.5	2.0	1.0	0.0	2.5	0.3	5.5	3.5	5.0	1.8	1.7
58	ICPMBL - 58	HR-24-6	20.0	2.2	1.0	0.5	0.0	0.0	1.5	2.5	4.3	1.5	0.4
59	ICPMBL - 59	HR-24-7	1.5	2.6	0.5	0.5	2.0	0.8	5.0	5.0	6.5	2.7	0.8
60	ICPMBL - 60	HR-24-8	2.0	1.8	0.5	0.5	2.0	0.3	5.5	4.5	5.5	2.0	2.2
	ICMB 95444		5.0	4.3	3.0	6.5	5.0	5.5	7.5	5.5	7.0	5.3	6.3
61	ICPMBL - 61	DHLB-PMBVN-1	1.0	NG	0.5	0.5	1.0	0.5	3.5	2.5	4.3	2.3	2.1
62	ICPMBL - 62	DHLB-PMBVN-2	0.5	1.3	0.5	0.5	0.5	0.1	2.5	2.0	3.0	2.6	0.4
63	ICPMBL - 63	DHLB-PMBVN-3	1.0	2.1	0.5	0.5	1.5	0.1	3.5	3.5	4.0	2.3	2.1
64	ICPMBL - 64	DHLB-PMBVN-4	2.0	3.3	1.0	1.0	1.5	0.5	3.5	2.0	4.8	2.1	1.0
65	ICPMBL - 65	DHLB-PMBVN-5	1.0	1.8	0.5	1.0	2.0	0.0	4.5	4.0	4.5	2.7	0.5
66	ICPMBL - 66	DHLB-PMBVN-6	2.0	1.8	0.0	1.0	1.5	0.2	4.0	3.5	4.5	2.5	0.6
67	ICPMBL - 67	IP 11353	1.0	3.4	0.0	1.5	1.5	0.0	1.0	1.0	3.0	2.1	0.5
68	ICPMBL - 68	IP 22423	2.5	1.2	0.5	1.5	1.5	0.0	1.0	1.5	3.0	3.6	2.0
69	ICPMBL - 69	ICMR100844	1.5	1.8	0.5	1.0	1.5	0.0	2.5	1.0	2.5	3.3	1.1
70	ICPMBL - 70	IP 8280	2.0	2.0	0.5	0.5	0.5	0.2	2.0	2.5	4.0	2.3	0.3
71	ICPMBL - 71	IP 12322	2.0	5.6	1.0	0.5	0.5	0.0	1.5	1.5	3.0	3.6	0.3
	ICMB 89111		5.5	1.6	2.5	6.5	5.5	5.0	8.0	5.0	6.5	5.4	5.2
		MEAN	1.5	2.3	0.8	0.8	1.3	0.2	3.4	2.1	3.9	3.0	1.2
	MEAN	**ICMB 95444**	**5.0**	**4.9**	**3.6**	**6.1**	**4.1**	**4.1**	**7.5**	**5.7**	**7.1**	**5.0**	**7.6**

Table IV.12B:Blast Incidence of PMBVN-2025 (PMPT V) entries at -30 DAS-Kharif 2025

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	ijayanagarar	Tirupathi
		ICMB 95444	7.0	5.7	7.5	8.0	6.0	6.0	8.0	7.0	8.5	7.8	9.0
1	ICPMBL – 01	ICPMBB-25-1	4.0	2.1	3.5	1.5	3.5	1.9	5.5	5.0	7.0	4.3	1.4
2	ICPMBL – 02	ICPMBB-25-2	5.0	1.7	4.0	1.5	3.5	2.2	6.0	4.0	7.0	4.5	1.1
3	ICPMBL – 03	ICPMBB-25-3	3.5	1.9	2.5	1.5	1.0	3.1	4.5	3.0	5.0	4.1	1.2
4	ICPMBL - 04	ICPMBB-25-4	3.0	1.5	2.0	2.5	3.5	1.0	3.0	4.0	4.5	5.6	5.5
5	ICPMBL - 05	ICPMBB-25-5	4.5	1.9	3.0	1.5	1.0	1.3	1.5	3.0	3.0	4.4	1.2
6	ICPMBL - 06	ICPMBB-25-6	4.5	2.8	3.0	1.0	1.0	2.1	3.5	3.0	5.5	2.7	1.6
7	ICPMBL - 07	ICPMBB-25-7	3.0	1.4	4.0	1.0	3.5	0.5	6.0	4.0	6.5	2.8	1.0
8	ICPMBL - 08	ICPMBB-25-8	3.5	NG	3.0	1.5	3.5	5.0	7.0	4.0	6.5	4.3	1.4
9	ICPMBL - 9	ICPMBB-25-9	5.0	2.3	1.0	1.5	3.5	2.2	7.0	2.0	4.0	2.0	1.0
10	ICPMBL - 10	ICPMBB-25-10	3.5	1.8	3.0	1.5	1.5	0.8	3.0	3.0	7.0	2.5	1.0
	ICMB 89111		6.0	6.6	6.5	7.0	6.0	6.5	8.5	6.0	8.5	7.6	8.9
11	ICPMBL - 11	ICPMBB-25-11	2.0	2.0	2.5	0.5	4.0	1.4	4.0	3.0	5.8	2.4	1.2
12	ICPMBL - 12	ICPMBB-25-12	4.5	1.9	2.5	3.0	1.0	1.4	3.0	4.0	5.5	4.8	2.3
13	ICPMBL - 13	ICPMBB-25-13	4.5	2.2	2.5	1.5	3.0	2.9	3.5	3.0	6.5	2.4	1.3
14	ICPMBL - 14	ICPMBB-25-14	2.0	2.6	1.0	1.5	3.5	0.8	4.0	2.0	6.0	4.3	1.2
15	ICPMBL - 15	ICPMBB-25-15	4.0	2.4	1.5	3.0	3.5	5.0	6.0	3.0	7.0	5.3	1.2
16	ICPMBL -16	ICPMBB-25-16	3.0	1.8	1.0	2.0	3.0	3.0	5.0	3.0	5.5	2.5	5.5
17	ICPMBL -17	ICPMBB-25-17	5.5	5.2	1.0	1.5	1.0	1.3	1.5	3.0	4.0	4.2	1.2
18	ICPMBL -18	ICPMBB-25-18	4.5	4.4	1.5	2.0	3.0	4.5	5.5	3.0	4.5	3.5	1.1
19	ICPMBL - 19	ICPMBB-25-19	3.0	1.5	2.0	2.0	3.5	1.4	4.5	3.0	3.0	4.7	4.3
20	ICPMBL - 20	ICPMBB-25-20	4.5	2.7	0.5	2.0	3.0	1.2	4.0	4.0	4.0	5.3	2.6
	ICMB 95444		8.0	6.0	6.5	8.0	6.5	5.5	8.5	7.0	9.0	7.5	9.0
21	ICPMBL - 21	ICPMBB-25-21	5.0	1.8	1.5	0.5	1.0	0.4	2.5	2.0	6.0	2.4	1.1
22	ICPMBL -22	ICPMBB-25-22	4.5	1.6	1.0	1.0	1.0	0.9	2.5	2.0	4.0	2.9	1.9
23	ICPMBL - 23	ICPMBB-25-23	4.5	4.0	2.5	1.0	1.5	0.6	1.5	1.0	3.0	4.6	1.5
24	ICPMBL - 24	ICPMBB-25-24	0.0	3.4	3.5	1.5	1.0	2.3	2.5	3.0	5.5	5.3	0.9
25	ICPMBL - 25	ICPMBB-25-25	4.0	NG	2.5	1.5	3.5	2.0	4.5	2.0	4.0	3.3	2.6
26	ICPMBL - 26	PBPMPOP 2-20	3.5	3.2	1.0	1.0	3.5	1.0	6.0	4.0	4.0	3.7	1.7
27	ICPMBL - 27	PBPMPOP 2-72	3.5	2.1	2.0	1.0	1.0	1.1	2.5	2.0	3.0	2.8	1.1
28	ICPMBL - 28	PBPMPOP 2-20	4.5	NG	3.0	1.5	3.5	1.0	4.0	1.0	3.0	3.2	1.1
29	ICPMBL - 29	PBPMPOP 2-48	4.5	1.7	1.0	2.5	1.0	1.2	2.0	2.0	3.0	5.6	2.4
30	ICPMBL - 30	PBPMPOP 2-58	4.0	1.7	2.5	2.0	3.0	0.8	2.0	3.0	3.0	5.9	1.0
	ICMB 89111		6.5	6.6	7.0	7.5	6.0	6.5	8.0	6.0	8.0	7.1	8.6
31	ICPMBL - 31	PBPMPOP 2-21	3.5	2.4	1.5	1.5	3.5	3.5	5.0	4.0	2.5	4.1	1.6
32	ICPMBL - 32	PBPMPOP 2-58	1.0	1.3	1.5	1.5	4.0	0.8	2.5	2.0	3.0	4.2	1.1
33	ICPMBL - 33	ICMR 06444	4.5	3.0	2.5	1.0	1.0	0.5	2.5	2.5	3.0	2.9	1.8
34	ICPMBL - 34	IP 21187-P1	4.0	3.2	1.5	1.0	1.0	3.2	3.0	2.0	3.0	3.5	1.0
35	**ICPMBL - 35**	**ICMB 95444**	**2.5**	**NG**	**2.5**	**1.0**	**7.5**	**6.6**	**8.5**	**7.0**	**8.5**	**3.7**	**4.1**
36	ICPMBL -36	PPMI 724	3.5	1.8	1.0	1.0	1.0	1.6	3.0	4.0	5.0	5.3	1.3
37	ICPMBL - 37	PPMI 1156	4.0	2.4	3.5	1.0	1.5	0.4	1.0	3.0	3.0	3.5	2.3
38	ICPMBL -38	AL-23	3.5	4.4	2.5	1.5	3.0	5.2	4.5	4.0	5.0	4.7	1.5
39	ICPMBL - 39	AL-27	4.0	3.4	3.0	1.5	3.5	0.8	3.5	3.0	5.0	3.5	1.1
40	ICPMBL - 40	AL-59	4.5	3.0	3.0	1.5	3.5	1.8	6.0	3.0	4.5	3.4	1.2

Entry No	Code 2025	Identity	ABD	HSR	GLR	JPR	MDR	JMR	DHL	MYS	PTR	ijayanagarar	Tirupathi
	ICMB 95444		7.5	6.5	7.0	8.0	**6.5**	**6.0**	9.0	6.0	9.0	8.2	9.0
41	ICPMBL - 41	AL-60	3.5	1.4	2.5	1.0	1.0	0.6	NG	3.0	3.5	3.8	1.2
42	ICPMBL - 42	AL-106	5.0	2.5	3.0	1.0	2.0	3.0	3.5	4.0	5.5	3.3	2.6
43	ICPMBL - 43	AL-126	3.5	4.6	2.5	1.5	3.5	2.4	1.5	3.0	4.5	2.3	1.3
44	ICPMBL - 44	AL-267	3.0	2.5	2.5	2.0	3.5	0.5	4.5	2.0	5.5	5.8	1.0
45	ICPMBL - 45	24R 44	2.0	1.2	5.0	2.0	1.5	0.7	2.5	2.0	3.0	5.4	2.4
46	ICPMBL - 46	24R 45	3.0	2.0	4.0	1.0	1.5	2.0	3.0	3.0	4.3	3.3	2.8
47	ICPMBL - 47	24R 82	3.5	3.7	3.5	2.0	1.5	1.3	3.5	2.5	3.5	5.7	1.0
48	ICPMBL - 48	286-SB-25	4.5	2.7	4.5	2.0	3.0	0.6	1.5	4.0	5.3	3.4	1.2
49	ICPMBL - 49	306-SB-25	3.5	2.0	4.0	1.0	3.5	1.2	6.5	5.0	6.5	5.4	1.3
50	ICPMBL - 50	395-BCS-25	3.5	2.6	1.5	1.0	3.5	3.0	3.5	2.0	4.0	3.1	1.1
	ICMB89111		7.5	7.8	6.0	8.0	6.5	6.0	9.0	7.0	8.0	6.8	9.0
51	ICPMBL - 51	411-BCS-25	4.0	NG	3.0	1.5	3.0	1.3	4.5	5.0	5.5	2.3	3.8
52	ICPMBL - 52	423-BCS-25	3.0	2.6	3.0	2.5	2.5	2.2	3.5	3.0	4.5	2.8	4.0
53	ICPMBL - 53	425-BCS-25	3.5	3.3	4.0	1.5	2.5	2.4	5.0	4.0	7.3	4.2	6.5
54	ICPMBL - 54	RIB-15199	4.0	3.2	4.0	2.5	3.5	6.2	4.5	3.0	7.0	5.1	2.5
55	ICPMBL - 55	RIB-15200	2.5	1.4	2.0	0.5	4.0	4.9	5.5	2.0	6.5	3.7	0.8
56	ICPMBL - 56	RIB-15201	4.0	2.6	2.5	1.0	3.5	0.6	4.0	3.0	6.0	4.2	1.1
57	ICPMBL - 57	HR-24-5	5.0	2.2	3.5	1.0	3.5	5.0	6.5	5.0	6.8	2.5	2.0
58	ICPMBL - 58	HR-24-6	3.0	2.0	3.0	1.5	0.0	2.2	2.5	4.0	5.5	1.8	0.9
59	ICPMBL - 59	HR-24-7	2.5	2.6	3.0	2.0	3.5	7.5	6.5	7.0	8.5	3.6	1.5
60	ICPMBL - 60	HR-24-8	3.5	2.0	3.0	1.0	3.5	4.5	6.5	6.0	7.0	2.9	4.4
	ICMB 95444		7.5	5.9	7.0	9.0	6.0	7.0	8.5	7.0	8.5	7.3	9.0
61	ICPMBL - 61	DHLB-PMBVN-1	1.5	NG	0.5	1.5	1.5	3.4	4.5	4.0	5.5	2.7	3.3
62	ICPMBL - 62	DHLB-PMBVN-2	1.0	1.5	0.5	1.0	1.5	1.0	3.5	4.0	3.5	2.9	0.7
63	ICPMBL - 63	DHLB-PMBVN-3	2.5	2.2	2.0	1.0	3.0	1.9	5.0	4.5	5.0	3.0	4.2
64	ICPMBL - 64	DHLB-PMBVN-4	4.0	4.0	2.5	1.5	3.0	3.8	4.5	4.0	6.0	3.0	1.8
65	ICPMBL - 65	DHLB-PMBVN-5	3.5	2.0	0.5	1.0	3.0	0.7	5.5	4.5	5.5	3.5	0.9
66	ICPMBL - 66	DHLB-PMBVN-6	3.0	1.8	0.0	1.0	2.5	2.6	5.0	5.0	6.3	3.5	0.9
67	ICPMBL - 67	IP 11353	2.5	3.4	0.5	2.0	3.5	0.8	1.0	2.0	3.0	2.7	1.3
68	ICPMBL - 68	IP 22423	3.5	1.4	0.5	2.0	3.0	0.9	2.0	2.5	3.0	5.0	2.7
69	ICPMBL - 69	ICMR100844	4.0	2.2	0.5	2.0	2.5	0.6	3.5	2.0	3.0	4.0	2.1
70	ICPMBL - 70	IP 8280	4.5	2.4	1.0	1.0	1.0	1.5	3.0	4.0	5.0	3.3	1.0
71	ICPMBL - 71	IP 12322	4.0	7.5	3.0	0.5	1.0	0.6	2.5	3.0	3.0	4.9	1.0
	ICMB 89111		8.0	1.8	6.5	8.5	7.0	7.0	8.5	7.5	8.5	7.8	8.6
		MEAN	3.5	2.4	2.3	1.5	2.5	1.8	3.9	3.3	4.8	3.7	1.8
	MEAN	**ICMB 95444**	**7.4**	**6.0**	**6.7**	**7.9**	**6.2**	**6.2**	**8.4**	**7.0**	**8.5**	**7.3**	**9.0**

Table IV.13: Management of downy mildew by using organic practices (PMPT VII) Kharif 2025

Downy mildew disease incidence (%) at Pre-tillering stage (30 DAS)

T.No.	Treatments	Time and method of applications	Zone A					Zone B				
			MDR	JPR	HSR	GLR	JMR	MYS	CBE	DHL	ABD1	PTR
T1	Trichoderma harzianum	Seed Treatment 8.0 g/kg	3.0	1.1	3.1	0.0	2.3	14.8	1.9	8.2	3.3	7.4
T2	Pseudomonas fluorescence	Seed Treatment 8.0 g/kg	3.3	1.4	3.8	2.6	5.1	16.0	1.1	11.0	3.9	6.5
T3	Bacillus subtilis	Seed Treatment 10 mL/kg	3.7	1.9	5.6	0.0	4.7	16.5	2.7	8.7	3.5	5.9
T4	Mandipropamid	Spray Treatment @ 0.1 % solution (1 ml/liter wate	1.0	2.0	6.1	0.0	4.0	17.8	1.9	8.5	4.3	6.0
T5	Nativo (Tebuconazole +Trifloxystrobin)	Spray Treatment @ 0.04%	0.7	1.8	4.0	0.0	6.2	14.0	2.2	6.6	4.8	6.3
T6	Trichoderma + Mandipropamid	Seed treatment with Trichoderma harzianum @ 8g/kg and Mandipropamid spray @ 0.1 % solution on 35DAS (1 ml/liter water)	2.7	1.6	2.8	0.0	2.1	16.5	2.3	9.4	2.1	6.7
T7	Pseudomonas + Mandipropamid	Seed treatment with Pseudomonas fluorescens @ 8g/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	0.7	1.4	4.2	0.0	4.2	15.0	1.5	6.3	2.0	5.9
T8	Bacillus + Mandipropamid	Seed treatment with Bacillus subtilis @ 10ml/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	1.3	1.6	5.0	0.0	4.8	15.8	2.2	8.5	3.8	4.1
T9	Trichoderma + Nativo	Seed treatment with Trichoderma harzianum @ 8g/kg and spray Nativo @ 0.04% solution on 35DAS	1.7	0.8	4.0	0.0	3.8	17.8	1.4	5.3	3.4	7.1
T10	Pseudomonas + Nativo	Seed treatment with Pseudomonas and spray Nativo @ 0.04% solution on 35DAS	2.0	0.8	2.7	0.0	3.8	12.5	1.1	6.0	3.9	6.6
T11	Bacillus + Nativo	Seed treatment with Bacillus and spray Nativo @ 0.04% solution on 35DAS	2.3	0.4	5.8	0.0	6.9	19.0	1.5	8.5	5.0	5.4
T12	Seed Treatment Metalaxyl 35 SD (6 g/kg	Seed treatment	0.3	0.2	7.6	0.0	2.7	3.5	0.0	2.4	1.4	0.0
T13	**Control**	Water treatment	7.0	5.4	5.5	2.3	10.1	31.5	3.5	14.2	17.6	10.5
	SE ±		0.6	0.3	0.9	0.8	0.8	1.5	0.4	0.9	1.1	1.4
		CD at 5%	1.9	1.0	2.8	2.4	2.6	4.5	1.2	2.9	3.3	4.0
		CV %	34.2	33.2	33.6	128.6	4.5	22.6	24.8	21.7	32.4	31.5

Table IV.13A:Downy mildew disease incidence (%) at Pre-tillering stage (60 DAS)

T.No.	Treatments	Time and method of applications	Zone A					Zone B				
			MDR	JPR	HSR	GLR	JMR	MYS	CBE	DHL	ABD1	PTR
T1	Trichoderma harzianum	Seed Treatment 8.0 g/kg	5.3	1.9	4.9	0.0	7.0	15.0	2.7	8.9	5.0	10.0
T2	Pseudomonas fluorescence	Seed Treatment 8.0 g/kg	6.0	1.6	5.0	5.5	9.4	15.0	2.2	11.4	5.0	10.7
T3	Bacillus subtilis	Seed Treatment 10 mL/kg	6.3	2.1	5.6	0.0	9.3	22.5	3.5	10.0	4.9	7.8
T4	Mandipropamid	Spray Treatment @ 0.1 % solution (1 ml/liter wate	2.7	2.2	6.1	0.0	10.0	21.0	2.3	8.9	4.4	8.7
T5	Nativo (Tebuconazole +Trifloxystrobin)	Spray Treatment @ 0.04%	2.3	2.2	4.6	0.0	9.5	15.5	3.0	6.9	6.7	8.2
T6	Trichoderma + Mandipropamid	Seed treatment with Trichoderma harzianum @ 8g/kg and Mandipropamid spray @ 0.1 % solution on 35DAS (1 ml/liter water)	4.0	1.6	3.3	0.0	4.2	17.5	2.3	10.5	3.6	8.8
T7	Pseudomonas + Mandipropamid	Seed treatment with Pseudomonas fluorescens @ 8g/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	2.0	1.8	3.0	0.0	6.3	16.0	1.1	6.9	2.7	8.6
T8	Bacillus + Mandipropamid	Seed treatment with Bacillus subtilis @ 10ml/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	3.0	1.6	5.6	0.0	7.4	14.5	1.9	9.2	4.1	6.3
T9	Trichoderma + Nativo	Seed treatment with Trichoderma harzianum @ 8g/kg and spray Nativo @ 0.04% solution on 35DAS	3.3	1.2	3.4	0.0	5.9	16.5	2.2	5.7	5.0	8.5
T10	Pseudomonas + Nativo	Seed treatment with Pseudomonas and spray Nativo @ 0.04% solution on 35DAS	3.7	1.4	2.7	0.0	5.9	11.5	1.4	6.3	4.5	10.1
T11	Bacillus + Nativo	Seed treatment with Bacillus and spray Nativo @ 0.04% solution on 35DAS	3.7	0.6	5.2	0.0	11.5	18.0	1.9	9.5	4.1	7.8
T12	Seed Treatment Metalaxyl 35 SD (6 g/kg	Seed treatment	1.7	0.6	8.7	0.0	4.9	3.3	0.4	2.4	2.1	2.4
T13	**Control**	Water treatment	14.0	6.4	7.7	3.5	15.9	42.8	4.7	16.0	27.4	17.0
		SE ±	1.2	0.4	1.5	1.2	1.5	2.1	0.6	1.1	1.8	1.9
		CD at 5%	3.7	1.3	4.6	3.5	4.5	6.4	1.8	3.4	5.4	5.9
		CV %	36.4	29.5	35.4	134.7	30.9	23.9	25.9	20.6	34.9	31.8

Table IV.13B:Seedling Emergence

T.No.	Treatments	Time and method of applications	Zone A					Zone B				
			MDR	JPR	HSR	GLR	JMR	MYS	CBE	DHL	ABD1	PTR
T1	Trichoderma harzianum	Seed Treatment 8.0 g/kg	80	88	75	20	77	97	90	92	84	93
T2	Pseudomonas fluorescence	Seed Treatment 8.0 g/kg	80	86	71	33	84	95	95	96	83	95
T3	Bacillus subtilis	Seed Treatment 10 mL/kg	80	86	69	42	84	93	90	97	81	90
T4	Mandipropamid	Spray Treatment @ 0.1 % solution (1 ml/liter wate	79	85	72	53	89	94	91	92	75	90
T5	Nativo (Tebuconazole +Trifloxystrobin)	Spray Treatment @ 0.04%	80	85	73	53	76	96	94	92	75	85
T6	Trichoderma + Mandipropamid	Seed treatment with Trichoderma harzianum @ 8g/kg and Mandipropamid spray @ 0.1 % solution on 35DAS (1 ml/liter water)	79	85	73	51	85	97	92	93	84	95
T7	Pseudomonas + Mandipropamid	Seed treatment with Pseudomonas fluorescens @ 8g/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	79	86	70	51	86	97	92	95	83	90
T8	Bacillus + Mandipropamid	Seed treatment with Bacillus subtilis @ 10ml/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	78	85	71	39	81	97	93	95	75	90
T9	Trichoderma + Nativo	Seed treatment with Trichoderma harzianum @ 8g/kg and spray Nativo @ 0.04% solution on 35DAS	80	88	71	51	84	96	95	92	84	95
T10	Pseudomonas + Nativo	Seed treatment with Pseudomonas and spray Nativo @ 0.04% solution on 35DAS	78	86	77	52	85	95	97	94	78	93
T11	Bacillus + Nativo	Seed treatment with Bacillus and spray Nativo @ 0.04% solution on 35DAS	78	87	71	51	78	95	92	94	77	90
T12	Seed Treatment Metalaxyl 35 SD (6 g/kg	Seed treatment	76	88	69	46	80	96	93	93	86	90
T13	**Control**	Water treatment	74	83	67	54	85	86	89	90	73	95
	SE ±		1.2	1.0	2.1	4.8	2.3	1.4	1.7	1.8	2.7	2.5
		CD at 5%	3.7	2.9	6.2	14.4	7.0	4.1	5.1	5.5	8.2	7.7
		CV %	36.4	1.4	4.1	19.8	352.4	1.8	2.3	2.4	4.1	4.0

Table IV.13C:Grain Yield (Kg/Ha)

T.No.	Treatments	Time and method of applications	Zone A					Zone B				
			MDR	JPR	HSR	GLR	JMR	MYS	CBE	DHL	ABD1	PTR
T1	Trichoderma harzianum	Seed Treatment 8.0 g/kg	1920.0	582.5	1900.0	1075.0	1559.2	1679.0	1849.0	782.0	1844.8	1450.0
T2	Pseudomonas fluorescence	Seed Treatment 8.0 g/kg	1913.3	584.6	1950.0	1450.0	1630.6	1644.0	1730.0	811.0	1819.1	1500.0
T3	Bacillus subtilis	Seed Treatment 10 mL/kg	1896.7	611.3	1750.0	1675.0	1672.6	1637.0	1808.0	902.0	1790.9	1541.7
T4	Mandipropamid	Spray Treatment @ 0.1 % solution (1 ml/liter water	2426.7	612.9	1850.0	1890.0	1634.5	1549.0	1894.0	1149.0	1766.1	1416.7
T5	Nativo (Tebuconazole +Trifloxystrobin)	Spray Treatment @ 0.04%	2420.0	646.7	1825.0	1890.0	1591.5	1788.0	1736.0	924.0	1330.3	1491.7
T6	Trichoderma + Mandipropamid	Seed treatment with Trichoderma harzianum @ 8g/kg and Mandipropamid spray @ 0.1 % solution on 35DAS (1 ml/liter water)	2320.0	642.5	1975.0	1862.5	2036.9	1874.5	1884.0	1057.0	2001.8	1475.0
T7	Pseudomonas + Mandipropamid	Seed treatment with Pseudomonas fluorescens @ 8g/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	2446.7	702.5	2050.0	1867.5	1606.0	1867.5	2004.0	728.0	1933.3	1433.3
T8	Bacillus + Mandipropamid	Seed treatment with Bacillus subtilis @ 10ml/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	2393.3	841.7	2025.0	1600.0	2026.2	1895.5	1922.0	961.0	1923.1	1808.3
T9	Trichoderma + Nativo	Seed treatment with Trichoderma harzianum @ 8g/kg and spray Nativo @ 0.04% solution on 35DAS	2393.3	872.9	2075.0	1870.0	1710.7	1916.0	1825.0	685.0	1613.5	1391.7
T10	Pseudomonas + Nativo	Seed treatment with Pseudomonas and spray Nativo @ 0.04% solution on 35DAS	2383.3	776.2	2125.0	1885.0	1324.8	1936.0	1830.0	993.0	1503.3	1375.0
T11	Bacillus + Nativo	Seed treatment with Bacillus and spray Nativo @ 0.04% solution on 35DAS	2376.7	1108.3	2075.0	1872.5	1173.5	1973.5	1781.0	1068.0	1441.3	1416.7
T12	Seed Treatment Metalaxyl 35 SD (6 g/kg	Seed treatment	2480.0	991.7	2000.0	1777.5	2060.7	2262.5	1970.0	1178.0	2076.4	1925.0
T13	**Control**	Water treatment	796.7	447.5	1700.0	1910.0	1309.8	1247.5	1771.0	656.0	869.4	1250.0
		SE ±	96.5	63.7	97.4	124.3	118.6	102.6	93.5	102.8	126.4	89.8
		CD at 5%	286.4	189.2	289.5	369.2	352.4	304.9	277.7	305.5	375.9	267.0
		CV %	6.5	9.7	7.8	11.4	9.2	6.4	6.3	9.8	9.3	8.4

Table IV.13D:Fodder Yield (Kg/Ha)

T.No.	Treatments	Time and method of applications	Zone A					Zone B				
			MDR	JPR	HSR	GLR	JMR	MYS	CBE	DHL	ABD1	PTR
T1	Trichoderma harzianum	Seed Treatment 8.0 g/kg	2656.7	3250.0	4500.0	3900.0	5857.0	3249.0	3279.0	6000.0	3922.9	4791.7
T2	Pseudomonas fluorescence	Seed Treatment 8.0 g/kg	2716.7	2916.7	4400.0	4155.0	6167.0	3346.5	3366.0	5375.0	3583.3	5416.7
T3	Bacillus subtilis	Seed Treatment 10 mL/kg	2693.3	3125.0	4050.0	4340.0	5833.0	3386.5	3211.0	6125.0	3385.1	5200.0
T4	Mandipropamid	Spray Treatment @ 0.1 % solution (1 ml/liter water	3640.0	3041.7	4725.0	4550.0	5286.0	3153.0	3515.0	7125.0	3463.2	4791.7
T5	Nativo (Tebuconazole +Trifloxystrobin)	Spray Treatment @ 0.04%	3603.3	3250.0	4450.0	4550.0	4607.0	3277.0	3191.0	7625.0	2948.0	5000.0
T6	Trichoderma + Mandipropamid	Seed treatment with Trichoderma harzianum @ 8g/kg and Mandipropamid spray @ 0.1 % solution on 35DAS (1 ml/liter water)	3396.7	3708.3	4700.0	4515.0	6762.0	3698.5	3554.0	7000.0	4083.9	4851.7
T7	Pseudomonas + Mandipropamid	Seed treatment with Pseudomonas fluorescens @ 8g/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	3703.3	3750.0	4400.0	4525.0	6750.0	3945.0	3997.0	6250.0	3621.9	5208.3
T8	Bacillus + Mandipropamid	Seed treatment with Bacillus subtilis @ 10ml/lit and Mandipropamid Spray Treatment @ 0.1 % solution on 35DAS	3550.0	4041.7	4200.0	4275.0	6917.0	3565.5	3659.0	8375.0	3488.2	6166.7
T9	Trichoderma + Nativo	Seed treatment with Trichoderma harzianum @ 8g/kg and spray Nativo @ 0.04% solution on 35DAS	3546.7	4541.7	5000.0	4525.0	6595.0	3648.5	3346.0	6125.0	3467.4	5416.7
T10	Pseudomonas + Nativo	Seed treatment with Pseudomonas and spray Nativo @ 0.04% solution on 35DAS	3506.7	4458.3	4575.0	4545.0	7107.0	3787.5	3384.0	6500.0	3665.3	5833.3
T11	Bacillus + Nativo	Seed treatment with Bacillus and spray Nativo @ 0.04% solution on 35DAS	3493.3	5041.7	4325.0	4525.0	6190.0	3792.0	3369.0	6125.0	3358.7	6041.7
T12	Seed Treatment Metalaxyl 35 SD (6 g/kg	Seed treatment	3703.3	3375.0	4100.0	4425.0	7083.0	3837.5	3695.0	6875.0	4849.1	5416.7
T13	**Control**	Water treatment	1320.0	2291.7	3875.0	4575.0	3893.0	3050.5	3149.0	5250.0	2730.0	4033.3
		SE ±	**167.8**	**244.1**	**258.3**	**180.5**	**312.7**	**178.5**	**216.8**	**384.6**	**298.6**	**354.1**
		CD at 5%	**498.8**	**725.1**	**767.5**	**535.9**	**929.3**	**530.2**	**642.7**	**1142.7**	**887.5**	**1052.3**
		CV %	**4.6**	**13.4**	**8.1**	**4.6**	**7.3**	**4.7**	**6.9**	**9.2**	**8.2**	**9.5**

Table IV.14:Management of Blast disease by using Chemicals and bioagents (PMPT VIII) Kharif 2025.

Blast disease incidence at 30 DAS

S. No	Treatment	Zone A					Zone B					
		MDR	JPR	HSR	GLR	JMR	MYS	PTR	DHL	ABD1	Vizianagaram	Tirupathi
T_1	Spray treatment with isotianil@ 0.5 ml/lit	0.7	9.3	9.4	0.9	11.9	28.0	29.6	30.0	16.4	42.2	0.0
T_2	Spray treatment with Priaxor@ 0.6 ml/lit	4.4	13.0	10.6	0.0	10.4	29.0	29.6	21.9	21.0	44.4	0.0
T_3	spray treatment with Nativo@ 0.04 g/lit	0.7	6.5	7.2	0.9	10.4	18.7	15.7	17.0	18.2	44.4	0.0
T_4	Seed treatment with *Bacillus subtilis* @10 ml/kg seed	4.8	12.0	17.0	2.8	15.6	35.3	25.9	28.9	16.2	53.3	0.0
T_5	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed	4.8	13.9	14.8	3.7	16.7	36.0	33.3	29.6	14.5	46.7	0.0
T_6	seed treatment with *Bacillus subtilis* @10 ml/kg seed + spray treatment with isotianil@ 0.5 ml/lit	2.2	4.6	9.6	0.9	14.8	30.7	28.7	24.4	19.1	31.9	0.0
T_7	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Priaxor@ 0.6 ml/lit	3.7	6.5	10.9	0.0	11.5	27.3	25.9	26.3	21.3	40.7	0.0
T_8	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Nativo@ 0.04 g/lit	1.5	2.8	8.5	0.0	15.2	25.0	16.7	26.3	10.9	37.0	0.0
T_9	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with isotianil@ 0.5 ml/lit	2.2	6.5	10.2	0.0	15.2	22.3	30.6	27.4	12.6	30.4	0.0
T_{10}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with priaxor@ 0.6 ml/lit	4.1	6.5	10.7	0.0	11.5	22.7	32.4	26.7	11.4	40.7	0.0
T_{11}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with Nativo@ 0.04 g/lit	2.6	3.7	10.7	2.8	12.2	18.0	16.7	23.3	9.0	33.3	0.0
T_{12}	Control (Water treatment)	5.6	16.7	24.4	7.4	17.0	52.3	41.7	37.4	32.5	57.0	0.0
	SE ±	0.5	0.9	2.1	1.4	1.2	2.0	2.3	2.1	1.8	2.80	0.8
	CD at 5%	1.6	2.7	6.1	4.3	3.7	5.9	6.8	6.3	5.3	8.30	2.3
	CV %	28.7	27.8	38.4	96.8	22.8	18.6	21.7	23.4	18.6	11.40	9.8

Table IV.14A:Management of Blast disease by using Chemicals and bioagents (PMPT VIII) Kharif 2025.Blast disease incidence at 45 DAS

T. No	Treatment	Zone A					Zone B					
		MDR	JPR	HSR	GLR	JMR	MYS	PTR	DHL	ABD1	Vizianagaram	Tirupathi
T_1	Spray treatment with isotianil@ 0.5 ml/lit	5.2	20.4	9.8	11.1	16.7	30.8	50.0	59.6	21.7	38.5	5.4
T_2	Spray treatment with Priaxor@ 0.6 ml/lit	6.7	24.1	9.6	10.2	17.8	31.2	48.1	36.7	23.9	47.4	5.2
T_3	spray treatment with Nativo@ 0.04 g/lit	4.8	16.7	15.9	16.7	16.7	25.9	38.9	24.1	19.6	43.7	4.7
T_4	Seed treatment with *Bacillus subtilis* @10 ml/kg seed	8.5	23.1	12.8	20.4	29.3	41.1	50.9	60.4	24.5	55.6	4.1
T_5	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed	8.9	25.0	11.1	18.5	26.7	36.5	52.8	49.6	27.5	50.4	3.5
T_6	seed treatment with *Bacillus subtilis* @10 ml/kg seed + spray treatment with isotianil@ 0.5 ml/lit	5.6	15.7	11.3	19.4	27.4	30.7	49.1	45.6	20.9	28.9	2.5
T_7	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Priaxor@ 0.6 ml/lit	5.9	16.7	13.3	19.4	24.4	27.0	50.9	31.1	25.1	40.0	2.1
T_8	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Nativo@ 0.04 g/lit	5.2	13.0	7.8	16.7	25.6	31.1	40.7	30.4	15.9	36.3	1.5
T_9	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with isotianil@ 0.5 ml/lit	5.6	17.6	8.9	13.9	27.0	93.6	46.3	54.8	17.8	28.9	2.3
T_{10}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with priaxor@ 0.6 ml/lit	6.3	17.6	20.6	16.7	23.0	23.7	50.9	26.7	18.9	40.0	1.8
T_{11}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with Nativo@ 0.04 g/lit	5.6	14.8	13.3	13.0	18.5	20.5	43.5	26.7	11.9	28.2	1.4
T_{12}	Control (Water treatment)	34.8	30.6	16.1	28.7	36.7	56.3	59.3	64.8	41.5	60.0	11.0
	SE ±	1.7	1.8	2.5	2.2	2.6	2.8	2.9	3.70	2.4	3.1	1.1
	CD at 5%	5.0	5.3	7.4	6.4	7.7	8.3	8.6	10.90	7.1	9.1	3.3
	CV %	30.6	24.9	36.8	39.2	24.3	17.9	18.6	26.80	16.9	10.8	11.4

Table IV.14B:Management of Blast disease by using Chemicals and bioagents (PMPT VIII) Kharif 2025.Blast disease incidence at 60 DAS

T. No	Treatment	Zone A					Zone B					
		MDR	JPR	HSR	GLR	JMR	MYS	PTR	DHL	ABD1	Vizianagaram	Tirupathi
T_1	Spray treatment with isotianil@ 0.5 ml/lit	14.8	31.5	18.3	25.0	27.0	30.7	56.2	42.2	35.3	40.7	8.3
T_2	Spray treatment with Priaxor@ 0.6 ml/lit	28.2	35.2	18.3	28.7	21.5	34.2	59.1	42.2	38.9	49.6	7.6
T_3	spray treatment with Nativo@ 0.04 g/lit	10.4	28.7	35.9	28.7	19.3	27.2	51.5	31.5	27.7	45.9	6.9
T_4	Seed treatment with *Bacillus subtilis* @10 ml/kg seed	31.1	34.3	23.3	37.0	39.6	42.5	58.7	50.0	43.6	60.0	6.1
T_5	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed	31.9	36.1	23.9	37.0	34.4	38.7	63.1	41.5	39.6	54.8	5.6
T_6	seed treatment with *Bacillus subtilis* @10 ml/kg seed + spray treatment with isotianil@ 0.5 ml/lit	16.3	26.9	25.7	38.0	37.4	33.1	62.5	39.6	31.7	31.1	3.8
T_7	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Priaxor@ 0.6 ml/lit	24.4	28.7	26.5	40.7	30.0	29.9	60.1	50.0	33.8	42.2	3.1
T_8	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Nativo@ 0.04 g/lit	14.8	25.0	14.4	36.1	32.2	32.8	50.3	27.0	25.1	38.5	2.7
T_9	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with isotianil@ 0.5 ml/lit	20.7	28.7	17.6	25.9	35.6	23.9	60.8	52.6	28.2	31.1	3.4
T_{10}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with priaxor@ 0.6 ml/lit	25.2	28.7	43.7	39.8	24.8	25.7	64.8	40.0	31.0	42.2	3.0
T_{11}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with Nativo@ 0.04 g/lit	22.2	25.9	22.2	29.6	23.3	22.9	53.4	28.5	18.5	30.4	2.6
T_{12}	Control (Water treatment)	65.9	41.7	30.7	56.5	49.6	60.0	68.9	59.6	64.1	65.2	24.5
	SE ±	2.8	2.3	4.1	3.8	3.9	3.2	3.8	4.10	3.2	3.5	2.1
	CD at 5%	8.3	6.9	12.2	11.3	11.4	9.3	11.2	12.00	9.3	10.3	6.3
	CV %	31.9	23.7	41.7	36.5	26.9	16.8	16.9	25.70	19.8	11.9	3.4

Table IV.14C: Effect of Chemicals and bioagents on Seedling Emergence

T. No	Treatment	Zone A					Zone B					
		MDR	JPR	HSR	GLR	JMR	MYS	PTR	DHL	ABD1	Vizianagaram	Tirupathi
T_1	Spray treatment with isotianil@ 0.5 ml/lit	75	85	73	32	98	92	93	90	79	*	81
T_2	Spray treatment with Priaxor@ 0.6 ml/lit	75	85	75	39	97	91	90	91	81	*	82
T_3	spray treatment with Nativo@ 0.04 g/lit	76	86	73	39	98	93	92	90	82	*	83
T_4	Seed treatment with *Bacillus subtilis* @10 ml/kg seed	79	90	73	40	98	92	90	94	83	*	95
T_5	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed	79	88	78	39	97	92	88	95	87	*	97
T_6	seed treatment with *Bacillus subtilis* @10 ml/kg seed + spray treatment with isotianil@ 0.5 ml/lit	79	89	75	36	98	93	90	94	79	*	93
T_7	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Priaxor@ 0.6 ml/lit	78	88	76	44	99	93	90	93	81	*	92
T_8	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Nativo@ 0.04 g/lit	79	90	76	35	98	92	92	95	82	*	90
T_9	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with isotianil@ 0.5 ml/lit	80	88	77	36	98	91	90	94	83	*	93
T_{10}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with priaxor@ 0.6 ml/lit	79	88	74	36	97	91	90	93	85	*	95
T_{11}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with Nativo@ 0.04 g/lit	80	89	69	41	96	91	90	95	87	*	94
T_{12}	Control (Water treatment)	75	84	72	45	97	86	95	90	72	*	84
	SE ±	1.0	1.2	2.3	3.4	1.1	1.1	1.8	1.9	2.1	*	2.1
	CD at 5%	3.1	3.5	6.8	9.9	3.2	3.4	5.4	5.7	6.1	*	6.3
	CV %	2.0	2.0	4.2	18.7	1.4	1.5	2.3	2.5	3.0	*	3.4

* No data

Table IV.14D:Effect of Chemicals and bioagents on Grain Yeild (Kg/Ha)

T. No	Treatment	Zone A					Zone B					
		MDR	JPR	HSR	GLR	JMR	MYS	PTR	DHL	ABD1	Vizianagaram	Tirupathi
T_1	Spray treatment with isotianil@ 0.5 ml/lit	2700.0	683.9	2766.7	1052.3	1940.3	1686.3	1273.4	5.9	1987.6	1577.3	1611.7
T_2	Spray treatment with Priaxor@ 0.6 ml/lit	2490.0	666.4	2533.3	1279.0	2085.4	1702.1	1266.7	6.6	1776.6	1527.9	1654.0
T_3	spray treatment with Nativo@ 0.04 g/lit	2703.3	671.7	2246.7	1299.3	2256.3	1691.2	1587.8	7.1	2241.0	1562.8	1752.7
T_4	Seed treatment with *Bacillus subtilis* @10 ml/kg seed	2473.3	706.4	2600.0	1313.0	2047.9	1793.0	1250.0	5.5	1843.4	1465.7	1788.0
T_5	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed	2446.7	677.2	2250.0	1299.3	2080.6	1700.9	1272.2	5.7	1732.9	1508.6	1859.7
T_6	seed treatment with *Bacillus subtilis* @10 ml/kg seed + spray treatment with isotianil@ 0.5 ml/lit	2636.7	960.6	2593.3	1175.7	2191.7	2001.7	1250.0	6.2	2169.7	1953.6	1955.0
T_7	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Priaxor@ 0.6 ml/lit	2580.0	786.1	2300.0	1443.7	2239.6	1747.9	1222.2	5.2	2327.7	1615.8	2256.3
T_8	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Nativo@ 0.04 g/lit	2683.3	1030.6	2750.0	1162.0	2343.1	1870.8	1656.7	7.1	2452.9	1763.0	2598.0
T_9	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with isotianil@ 0.5 ml/lit	2626.7	858.3	2833.3	1203.3	2147.2	1984.3	1277.8	6.6	2386.4	2019.8	2246.7
T_{10}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with priaxor@ 0.6 ml/lit	2520.0	878.1	2190.0	1203.0	2307.6	1762.0	1333.3	6.1	2491.3	1697.3	2307.0
T_{11}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with Nativo@ 0.04 g/lit	2600.0	1032.2	2350.0	1354.3	2379.2	1844.2	1605.6	7.2	2654.7	1784.7	2638.0
T_{12}	Control (Water treatment)	1016.7	510.6	2550.0	1478.3	1560.4	1595.7	1116.7	4.5	967.9	1371.9	1540.7
	SE ±	72.5	63.4	118.5	95.1	104.8	96.4	104.6	0.4	168.5	152.6	132.4
	CD at 5%	211.9	185.4	345.7	277.7	305.6	281.3	305.0	1.2	491.3	445.2	386.4
	CV %	4.1	8.7	8.9	7.8	6.1	5.4	7.9	9.8	9.1	8.7	7.9

Table IV.14E:Effect of Chemicals and bioagents on Fodder Yeild (Kg/Ha)

T. No	Treatment	Zone A					Zone B					
		MDR	JPR	HSR	GLR	JMR	MYS	PTR	DHL	ABD1	Vizianagaram	Tirupathi
T_1	Spray treatment with isotianil@ 0.5 ml/lit	3770.0	3305.6	4733.3	3950	4007.0	2826.3	5418.9	63.4	4805.6	3698.8	2580.0
T_2	Spray treatment with Priaxor@ 0.6 ml/lit	3463.3	3250.0	4550.0	4800	4833.0	2798.0	4526.2	61.7	4430.0	3042.0	2610.0
T_3	spray treatment with Nativo@ 0.04 g/lit	3790.0	3361.1	4150.0	4870	4986.0	2769.3	5462.2	66.9	5220.5	3392.6	2640.0
T_4	Seed treatment with *Bacillus subtilis* @10 ml/kg seed	3396.7	2722.2	4466.7	4900	5132.0	2750.3	5108.9	61.7	4129.1	2469.1	2680.0
T_5	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed	3380.0	2777.8	4316.7	4870	4583.0	2856.7	5333.3	55.2	4184.7	2775.3	2840.0
T_6	seed treatment with *Bacillus subtilis* @10 ml/kg seed + spray treatment with isotianil@ 0.5 ml/lit	3680.0	3472.2	4550.0	4420	4840.0	2993.0	4446.3	64.2	4708.4	3980.3	3160.0
T_7	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Priaxor@ 0.6 ml/lit	3576.7	3416.7	4503.3	5400	4479.0	2980.3	4888.9	64.9	4766.3	3782.7	3380.0
T_8	seed treatment with *bacillus subtilis* @10 ml/kg seed + spray treatment with Nativo@ 0.04 g/lit	3696.7	3638.9	4666.7	4350	4597.0	2998.7	5477.8	68.2	5055.0	3851.9	3760.0
T_9	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with isotianil@ 0.5 ml/lit	3646.7	3166.7	4550.0	4500	4389.0	3088.5	5361.1	63.7	4850.4	4153.1	3540.0
T_{10}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with priaxor@ 0.6 ml/lit	3543.3	3388.9	4253.3	4550	5326.0	3030.8	5055.6	65.2	4820.0	3842.0	3180.0
T_{11}	seed treatment with *Pseudomonas fluorescens* @8 g/kg seed + spray treatment with Nativo@ 0.04 g/lit	3590.0	3861.1	4366.7	5080	5500.0	3004.2	5618.6	69.0	5626.7	3891.4	3870.0
T_{12}	Control (Water treatment)	2083.3	1888.9	4616.7	5530	3028.0	2356.5	4177.8	51.2	1642.5	2014.8	2490.0
	SE ±	96.8	148.7	210.3	182.6	238.4	142.8	268.4	1.8	312.4	298.4	210.6
	CD at 5%	283.0	434.3	613.6	532.8	695.2	416.5	782.1	5.4	910.5	870.3	614.2
	CV %	3.7	6.8	7.8	6.1	7.0	4.6	8.1	8.9	10.4	12.6	8.6

Table IV.16: Monitoring of Pearl millet diseases on farmers' fields during Kharif 2025

A. Rajasthan (Jaipur Centre)

S.No.	District	Village	GPS Lat	GPS Long	Cultivar	No. of fields visited	Area (ha)	Crop stage	DM Incidence (%)	Smut (%)	Ergot (%)	Blast (%)	Rust (%)
1	Jaipur	Bassi	26.858	76.066	Unknown	2	1	HD	0	0	5	15	0
2		Kanota	26.9	76.0	Unknown	2	0.5	HD	0	0	0	10	0
3		Jhar	26.9	76.1	Local	1	2	HD	0	0	5	15	0
4		Dhoodli	26.9	76.2	Unknown	1	2	HD	0	0	5	0	0
5		Nimrod	26.9	76.2	Unknown	2	0.5	HD	0	0	0	0	0
6	Dausa	Gothra	26.9	76.3	Unknown	1	0.2	HD	0	0	5	0	0
7		Madanpura	26.9	76.3	Unknown	4	0.5	HD	0	0	0	0	0
8		Dayalpura	26.9	76.3	Unknown	2	2	HD	0	0	0	0	0
9		Barwa	26.9	76.4	Unknown	1	1	HD	0	0	0	5	0
10		Jirota Kalan	26.9	76.4	Unknown	1	0.5	HD	0	0	0	5	0
11		Dausa	26.9	76.3	Unknown	1	1	HD	0	0	0	0	0
12		Bairawas	26.9	76.5	Unknown	2	2	HD	0	15	0	0	0
13		Bhojpura	26.9	76.6	Unknown	2	3	HD	0	0	0	0	0
14		Sikandra	26.9	76.6	Unknown	1	0.5	HD	0	0	0	10	0
15		Budali	26.9	76.6	Unknown	1	1	HD	0	0	0	0	0
16		Ramarh	26.9	76.6	Unknown	1	1	HD	0	0	0	0	0
17		Chandpur	26.9	76.6	Unknown	3	1	HD	0	0	0	0	0
18		Geejgarh	26.9	76.6	Unknown	2	1	HD	0	0	15	5	0
19		Monchi ka pura	26.9	76.6	Unknown	1	2	HD	0	0	0	0	0
20		Talchinda	26.9	76.7	Unknown	2	1	HD	0	0	0	0	0
21		Sandera	26.8	76.7	Unknown	2	0.5	HD	0	10	0	10	0
22		Gidani	26.8	76.7	Unknown	2	0.5	HD	0	30	0	0	0
23	Karauli	Ghatoli	26.8	76.7	Unknown	1	1	HD	0	0	0	0	0
24		Timawa	26.8	76.7	Unknown	1	1	HD	0	0	0	0	0
25		Dholeta	26.8	76.7	Unknown	2	1	HD	0	0	0	0	0
26		Nand	26.8	76.7	Unknown	1	1	HD	0	0	0	0	0
27		Dhawan	26.8	76.8	Unknown	2	1	HD	0	0	0	0	0
28		Gudhachandra	26.8	76.8	Unknown	3	1	HD	0	0	5	0	0
29		Rajoli	26.8	76.8	Unknown	2	1	HD	0	0	2	15	0
30		Jahannagar M	26.8	76.8	Unknown	1	1	HD	0	0	0	0	0
31		Padampura	26.8	76.8	Unknown	1	2.5	HD	0	0	0	0	0
32		Balghat	26.8	76.9	Unknown	1	1	HD	0	0	0	10	0
33		Karauli	26.5	77.0	Unknown	1	1	HD	0	0	0	0	0
34		Penchala	26.8	76.9	Unknown	1	0.5	HD	0	0	0	0	0
35		Salimpur	26.8	76.9	Unknown	1	0.2	HD	0	0	0	0	0
36		Singhniyan	26.8	76.9	Unknown	1	1	HD	0	30	0	0	0
37		Lalaram ka pur	26.8	76.9	Unknown	1	1	HD	0	0	0	0	0

S.No.	District	Village	GPS Lat	GPS Long	Cultivar	No. of fields visited	Area (ha)	Crop stage	DM Incidence (%)	Smut (%)	Ergot (%)	Blast (%)	Rust (%)
38	Karauli	Chak Sikandar	26.8	77.0	Unknown	1	1.5	HD	0	0	0	0	0
39		Chak Garhi Mo	26.8	77.0	Unknown	2	2	HD	0	0	10	0	0
40		Giopipur	26.8	77.0	Unknown	2	1	HD	0	0	0	0	0
41		Mandawara	26.8	77.0	Unknown	1	0.5	HD	0	0	0	0	0
42		Kyarda Khurd	26.8	77.0	Unknown	2	1	HD	0	0	0	0	0
43		Karai	26.8	77.0	Unknown	2	1.5	HD	0	0	0	0	0
44		Mahoo Ibrahim	26.8	77.0	Unknown	1	2	HD	0	0	0	0	0
45		Mahoo Khas	26.9	77.0	Unknown	1	2	HD	0	0	0	0	0
46		Sapotra	26.9	77.0	Unknown	2	0.5	HD	0	0	0	0	0
47		Ghonsla	26.9	77.0	Unknown	1	0.25	HD	0	0	10	10	0
48		Khawda	26.9	77.0	Unknown	4	0.5	HD	0	0	0	0	0
49		Gazipur	26.9	77.0	Unknown	2	2	HD	0	0	0	0	0
50		Gahnoli	26.9	77.1	Unknown	1	1	HD	0	0	0	0	0
51		Belara Kalan	26.9	77.1	Unknown	1	0.5	HD	0	0	0	10	0
52	Bharatpur	Nagla Baghera	27.3	77.4	Unknown	1	1	HD	0	0	0	10	0
53		Kumher	27.3	77.4	Unknown	2	2	HD	0	0	0	10	0
54		Gangar soli	27.3	77.4	Unknown	2	2	HD	0	0	0	10	0
55		Tamrer	27.3	77.4	Unknown	1	2	HD	0	0	0	0	0
56		Sent	27.4	77.4	Unknown	1	2	HD	0	0	0	0	0

S.No.	District	Village	GPS Lat	GPS Long	Cultivar	No. of fields visited	Area (ha)	Crop stage	DM Incidence (%)	Smut (%)	Ergot (%)	Blast (%)	Rust (%)
57	Bharatpur	Madhera	27.4	77.3	Unknown	1	0.5	HD	0	0	0	0	0
58		Aou	27.4	77.3	Unknown	3	0.2	HD	0	0	0	0	0
59		Deeg	27.5	77.3	Unknown	2	0.5	HD	0	0	0	10	0
60		Naraina	27.4	77.3	Unknown	1	2	HD	0	0	0	5	0
61		Panhori	27.4	77.3	Unknown	2	1	HD	0	10	5	15	0
62		Nagar	27.4	77.2	Unknown	2	0.5	HD	0	0	0	0	0
63		Khakhawali	27.4	77.0	Unknown	2	1	HD	0	0	0	15	0
64	Alwar	Moraka	27.4	77.0	Unknown	1	2	HD	0	0	0	0	0
65		Ranota	27.5	77.0	Unknown	1	2	HD	0	0	0	0	0
66		Jalooki	27.5	76.9	Unknown	2	0.5	HD	0	0	0	0	0
67		Semla Khurd	27.5	76.9	Unknown	1	1	HD	0	0	0	0	0
68		Imlali	27.5	76.9	Unknown	2	1	HD	0	0	5	0	0
69		Seethan	27.5	76.9	Unknown	3	1	HD	0	0	0	0	0
70		Moonpur	27.5	76.8	Unknown	2	1	HD	0	0	0	0	0
71		Jugrawar	27.5	76.8	Unknown	1	2	HD	0	10	0	0	0
72		Dhadholi	27.5	76.8	Unknown	1	1	HD	0	0	0	0	0
73		Alwar	27.6	76.6	Unknown	1	0.5	HD	0	0	0	0	0
74		Jatiyana	27.6	76.6	Unknown	1	0.5	HD	0	0	0	0	0
75		Todiyar	27.6	76.6	Unknown	1	1	HD	0	0	0	10	0
76		Katooki	27.7	76.6	Unknown	1	1	HD	0	0	0	0	0
77		Kaska Dahra	27.7	76.6	Unknown	1	1	HD	0	0	0	0	0
78		Dilawarpur	27.7	76.6	Unknown	1	1	HD	0	0	0	0	0
79		Nagla Sedoo	27.7	76.6	Unknown	1	1	HD	0	0	0	0	0
80		Chandauli	27.7	76.6	Unknown	2	1	HD	0	0	0	0	0
81		Suheta	27.7	76.6	Unknown	2	1	HD	0	10	0	0	0
82		Jindoli	27.7	76.5	Unknown	1	1	HD	0	0	0	0	0
83		Behroj	27.8	76.5	Unknown	2	2.5	HD	0	0	0	0	0
84		Tatarpur	27.8	76.5	Unknown	2	1	HD	0	0	0	5	0
85		Narnaul - Behr	27.9	76.3	Unknown	1	0.5	HD	0	15	0	5	0
86		Barrod	27.9	76.3	Unknown	1	0.2	HD	0	0	0	0	0
87		Kankar chhaja	27.9	76.3	Unknown	2	0.5	HD	0	0	0	0	0
88		Molahera	27.9	76.2	Local	1	0.5	HD	0	0	0	0	0

S.No.	District	Village	GPS Lat	GPS Long	Cultivar	No. of fields visited	Area (ha)	Crop stage	DM Incidence (%)	Smut (%)	Ergot (%)	Blast (%)	Rust (%)
89	Kotputli - Behror	Kotputli	27.7	76.2	Local	4	0.5	HD	0	10	0	0	0
90		Kherki Veerbha	27.7	76.2	Local	2	0.5	HD	0	0	0	0	0
91		Gordhanpura	27.7	76.1	Local	1	0.5	HD	0	0	0	0	0
92		Rughnathpura	27.6	76.1	Local	1	0.5	HD	0	0	10	0	0
93		Kirarod	27.6	76.1	Local	1	1	HD	0	0	0	0	0
94		Pragpura	27.6	76.1	Local	2	1	HD	0	0	0	0	0
95		Paota	27.6	76.1	Hybrid	2	1	HD	0	0	0	0	0
96		Bagawas Ahira	27.5	76.1	Hybrid	1	1	HD	0	0	0	0	0
97		Kairli	27.5	76.1	Mahyco 2	1	0.5	HD	0	0	0	0	0
98		Antela	27.5	76.1	Mahyco 2	1	0.5	HD	0	0	0	0	0
99		Bahdoda	27.5	76.1	Mahyco 2	3	0.5	HD	0	0	0	0	0
100		Viratnagar	27.4	76.1	Hybrid	2	0.5	HD	0	0	0	0	0
101	Jaipur	Neelka	27.5	76.1	Hybrid	1	0.5	HD	0	0	0	0	0
102		Bhabroo	27.5	76.0	Hybrid	2	0.5	HD	0	0	0	0	0
103		Dhani Gaiskan	27.5	76.0	Hybrid	2	1	HD	0	0	0	0	0
104		Aspura	27.4	76.0	Hybrid	2	1	HD	0	0	0	0	0
105		Govindpura	27.4	76.0	Hybrid	1	1	HD	0	0	0	0	0
106		Shahpura	27.4	76.0	Hybrid	1	1	HD	0	0	0	0	0
107		Khojawala	27.3	76.0	Hybrid	2	1	HD	0	5	0	0	0

B. Madhya Pradesh (Gwalior centre)

District	Cultivar	No. Of Field	Area (ha)	Crop stage	DM inci. (%)	Smut severity (%)	Blast (%)
Gwalior	86M90	2	0.7	HD	0	Tr.	2-4%
	Proagro 9	2	0.8	HD	0	Tr.	2-4%
	JK 2040	2	0.2	HD	0	Tr.	1%
	NHV7786	2	0.7	HD	0	Tr.	4-7%
	Unknown	2	1	HD	0	1	9-10%
Morena	86M90	1	1	HD	0	Tr.	1 – 5 %
	Proagro 9	2	1	HD	0	Tr.	3%
	JK 2040	2	0.5	HD	0	1	1 – 3 %
	HHB 67	1	1	HD	0	Tr.	1 – 2 %
	Unknown	2	0.1	HD	0	Tr.	5 – 7 %
Bhind	86M90	2	0.9	HD	0	Tr.	3 – 5 %
	Proagro 9	1	0.2	HD	0	Tr.	2 – 3 %
	JK 2040	2	0.6	HD	0	1	1 – 2 %
	NHV7786	2	1	HD	0	Tr.	3 – 9 %
	Unknown	1	0.4	HD	0	Tr.	5 – 10 %
Sheopur	86M90	2	1	HD	0	Tr.	3 – 6 %
	Proagro 9	1	0.2	HD	0	Tr.	1 – 2 %
	JK 2040	1	0.4	HD	0	1	1 – 2 %
	NHV7786	1	0.1	HD	0	Tr.	0 – 1 %
	Unknown	1	0.3	HD	0	Tr.	1 – 5 %

C. Gujarat (Jamnagar centre)

Sr. No.	No. of Field	Village/Location with GPS	Cultivars/Variety	Area (Acre)	Crop stage	Disease incidence/intensity %				
						DM (%)	Smut (%)	Rust (%)	Ergot (%)	Blast Score (0 to 9)
1	1	Rangpar	GHB-1231	0.5	EH	0.0	0.0	3.5	0.0	0.6
2	1	Nana-lakhia	GHB-1231	0.5	EH	0.0	0.0	0.0	0.0	0.0
3	1	Mota lakhia	GHB-1231	0.5	EH	0.0	0.0	6.0	0.0	1.0
4	1	Jasapar	GHB-1231	0.5	EH	0.0	0.0	1.0	0.0	0.0
5	1	Mithoi	GHB-1231	0.5	EH	0.0	0.0	5.0	0.0	0.6
6	1	Arikhina	GHB-1231	0.5	EH	3.3	0.0	3.5	0.0	0.0
7	1	Rasangpar	GHB-1231	0.5	EH	0.0	0.0	0.5	0.0	0.0
8	1	Modpar	GHB-1231	0.5	EH	3.3	0.0	3.0	0.0	0.0
9	1	Piparnavi Haripar	GHB-1231	0.5	EH	3.3	0.0	0.0	0.0	0.0
10	1	Hadiana	GHB-1231	0.5	EH	0.0	0.0	2.0	0.0	0.0
11	1	Beraja	GHB-1231	0.5	EH	0.0	0.0	0.0	0.0	1.4
12	1	Chavda	GHB-1231	0.5	EH	6.7	0.0	2.5	0.0	0.6

Sr. No.	No. of Field	Village/Location with GPS	Cultivars/Variety	Area (Acre)	Crop stage	Disease incidence/intensity %				
						DM (%)	Smut (%)	Rust (%)	Ergot (%)	Blast Score (0 to 9)
13	1	Khilos	GHB-1231	0.5	EH	0.0	0.0	2.5	0.0	0.0
14	1	Dhuvav	GHB-1231	0.5	EH	0.0	0.0	0.0	0.0	1.0
15	1	Jivapar	GHB-1231	0.5	EH	3.3	0.0	0.0	0.0	0.0
16	1	Hapa	GHB-1231	0.5	EH	3.3	0.0	0.0	0.0	0.0
17	1	Khodla	86M11	0.5	EH	6.7	0.0	0.0	0.0	0.6
18	1	Sihori	Local	1.0	EH	10.0	0.0	0.0	3.0	0.0
19	1	Umbari	86M11	0.5	EH	6.7	0.0	1.0	0.0	1.0
20	1	Chekhla	86M22	0.5	EH	3.3	0.0	0.5	1.0	0.0
21	1	Khimana	US 7306	1.0	EH	0.0	0.0	0.0	2.0	0.6
22	1	Deesa	Nandi 75	0.5	EH	6.7	0.0	2.0	0.0	0.0
23	1	Kansari	US 7306	0.5	EH	0.0	0.0	1.5	0.0	0.0
24	1	Goga deri	86M22	0.5	EH	10.0	0.0	0.5	1.0	0.0
25	1	Zerda	86M22	0.5	EH	3.3	0.0	0.5	0.0	0.0
26	1	Pamaru	US 7306	0.5	EH	0.0	0.0	0.0	0.0	0.0
27	1	Gugal	86M11	1.0	EH	3.3	0.0	2.5	3.0	1.4
28	1	Ramun	85M36	0.5	EH	6.7	0.0	0.0	0.0	0.6
29	1	Tetoda	Dhanya 7306	1.0	EH	10.0	0.0	2.0	0.0	0.0
30	1	Bhildi	Sagar 222	1.0	EH	0.0	0.0	0.5	4.0	1.0
31	1	Bhkhar Moti	86M11	1.0	EH	3.3	0.0	0.0	0.0	0.0
32	1	Bhakhar Nani	86M11	1.0	EH	3.3	0.0	3.5	0.0	0.0
33	1	Lodpa	86M11	1.0	EH	6.7	0.0	0.0	0.0	0.0
34	1	Nilpur	US 7306	1.0	EH	6.7	0.0	0.0	2.0	0.0
35	1	Dantiwada	Nandi 75	1.0	EH	3.3	0.0	0.0	0.0	1.0

D. Maharashtra (Dhule & Aurangabad Centre)

Dhule

Sr. No.	Location	Name of Cultivar	Area (ha)	No of fields visited	Percent Disease Incidence					Crop Stage
					DM	Blast	Rust	Smut	Ergot	
I.	Dhule District									
1	Devbhane	M-204	0.4	1	0	0	0	0	0	F
2	Walkheda	MDBH330	0.4	1	0	50	0	0	0	M
3	Waghode	Phule Dhanshakti	0.4	1	0	70	0	0	0	SDS
		Phule Muktai	0.4	1	0	40	0	0	0	F
4	Gartad	M-204	1.6	4	0	10	0	0	0	M
5	Narval	Pioneer	0.8	2	0	30	0	0	0	M
6	Vinchur	M-204	0.4	1	0	10	0	0	0	M
7	Tarwade	M-204	0.4	1	0	10	0	0	0	M
8	Fagane	Dhanshakti	0.4	1	0	50	0	0	0	M
9	Chopadi Kondai	Tata 739	0.4	1	0	30	0	0	0	M
8	Dangar	Proagro	0.4	1	0	0	0	0	0	M
9	Rokadoba	M-204	0.4	1	0	10	10	0	0	SDS
10	Arvi	SBH-7178	0.8	2	0	5	5	0	0	M
11	ShelbariS	86M94	1.2	3	0	5	0	0	0	M
12	Kasare	86M94	0.4	1	0	0	0	0	0	FL
13	Shewadi	MRB-224(	2	3	0	0	0	0	0	M
14	Ischapur	MRB-222(	4	6	0	5	0	0	0	SDS
15	Morane	MDBH-31	2	4	0	40	0	0	0	M
16	Gondur	86M94	1	1	0	10	0	0	0	M
17	Mehargaon	MDBH-330	0.8	2	0	20	0	0	0	SDS
18	Ner	MP-7178	1.2	3	0	50	0	0	0	M
18	Deour BK	Dhanshakti	0.4	1	0	60	20	0	0	M
		Vikas	0.4	1	0	50	30	0	0	M
20	Deour KH	Dhanshakti	0.4	1	0	60	20	0	0	M/H
		Phule Muktai	0.4	1	0	20	0	0	0	F
21	Deopur	Phule Muktai	0.4	1	0	5	30	2	0	SDS/M
22		Dhanshakti	0.4	1	0	70	40	0	0	M
23	Mhasadi	Dhanshak	0.4	1	0	20	30	0	0	M
		M-204	0.4	1	0	20	30	0	0	M
24	Chinchwa	Turky	0.4	1	0	5	0	0	0	F

Sr. No.	Location	Name of Cultivar	Area (ha)	No of fields visited	Percent Disease Incidence					Crop Stage
					DM	Blast	Rust	Smut	Ergot	
25	Lamkani	Yashda(A	0.4	1	90	0	0	0	0	M
II	Jalgaon Distict									
1	Mehunbare	Vikas	0.4	1	0	0	0	0	0	F
2	Khadaki	Pioneer	0.4	1	0	50	0	2	0	M
3	Hirapur	86M32	0.4	1	0	50	0	0	0	M
4	Talegaon	M-204	0.4	1	0	40	0	0	0	SDS
5	Londhave	Mahabeej	0.4	1	0	30	5	0	0	M
6	Mangarul	Mahabeej	0.4	1	0	20	10	0	0	M
7	Amalner	Local	0.4	1	0	20	10	0	0	SDS
8	Dalvi	M-204	0.4	1	0	30	0	0	0	F
9	Mhasale	Mahodaya	0.4	1	0	60	0	0	0	M
10	Shirsoli	Pioneer	0.4	1	0	0	0	0	0	F
11	Dalwel	Pioneer	0.4	1	0	60	0	0	0	M
III	Nashik District									
1	Rohini	Vikas	0.4	1	0	20	0	0	0	M/H
2	Nyadongari	Vikas	0.4	1	0	20	0	0	0	F
3	Pimparkh	Vikas	0.4	1	0	20	10	0	0	M
4	Pokhani	M-204	0.4	1	0	5	0	0	0	M
5	Vishanunagar	Vikas	0.4	1	0	20	5	0	0	M
6	Tandalwadi	7872	4	1	0	20	30	0	0	M
		Tata 739	0.4	1	0	30	10	0	0	M
7	Dongaon	7872	0.4	1	0	5	0	0	0	M
8	Bhauri	7872	0.4	1	0	0	20	0	0	M/H
		Nitya Han	0.4	1	0	0	5	0	0	M
9	Somathan	M-204	1	1	0	20	20	0	0	M
10	Panhalsat	Vikas	1	1	0	10	40	0	0	M
		HTBT-424	2	2	0	20	10	0	0	M
11	Nagarsul	7872	1	2	0	10	10	0	0	M
12	Matulthan	HS 4242	0.4	1	0	10	40	5	0	M
13		PAC 938(	0.4	1	0	10	20	0	0	M
14	Yeola	7872	4	1	0	5	0	0	0	M
15	Zodage	NPH-4506	1.2	3	0	60	5	0	0	M
16	Dewarpad	NPH-4506	1	2	0	70	5	0	0	M
17	Tehare	MRB-2246	0.4	1	0	0	20	0	0	M/H
18	Patane	MRB-204	0.4	1	0	20	5	0	0	SDS
19	Mungase	Vikas	0.4	1	0	10	5	0	0	M
20	Wake	NPH-4506	0.4	1	0	30	40	0	0	M
21	TakaliSon	86M94	0.8	2	0	0	0	0	0	F

Sr. No.	Location	Name of Cultivar	Area (ha)	No of fields visited	Percent Disease Incidence					Crop Stage
					DM	Blast	Rust	Smut	Ergot	
22	Saundane	Balwan	0.8	2	0	20	10	0	0	M
		Mahalaxm	0.8	2	0	20	10	0	0	M
23	Umarane	Tata-7872	0.4	1	0	5	40	0	0	M
24	Dhaiwad	86M94	0.4	1	0	5	0	0	0	M
25	Pimpalgad	HTBT-424	0.4	1	0	0	20	0	0	M
26	Makarand	Bombay S	0.4	1	0	0	0	0	0	SDS
27	KundaneG	PAC 938(	1	2	0	5	50	0	0	M
28	Indira Nag	Vikas	2	4	0	70	0	0	0	M
29	TarasaliSa	86M94	0.4	1	0	0	0	0	0	M
30	Taharaba	86M94	0.8	2	0	0	0	0	0	M
IV.	Ahemadnagar District									
1	Savalivihir	86M90	0.4	1	0	0	5	0	0	M
1	Nimgaon	N. Hanuman	0.4	1	0	0	5	0	0	SDS/M
3	Dohrale(S	Pioneer	2	4	0	0	40	0	0	M
3	Korhale(Shirdi)	86M38	1	2	0	40	20	0	0	M
4	Kelwad(Rahata)	86M38	1	1	0	10	20	0	0	M
5		Unknown	0.4	1	0	70	10	0	0	M
6	Adgaon	86M38	1	2	0	0	10	0	0	M
7	Loni	86M38	2	4	0	10	20	0	0	M
8	Umbare	86M38	0.8	2	0	0	5	0	0	M
9	Dhamori	86M38	0.8	2	0	0	0	0	0	M/H
10	Ahilyanag	Pioneer	0.4	1	0	10	0	0	0	M
11	Takali	Gavran lo	0.4	1	0	10	5	0	0	SDS/M
12	Kalyan Ro	US-7711	0.4	1	0	0	10	0	0	M
12	Malkup	US-7773	0.4	1	0	0	0	0	0	M/H
13	HivareKor	7278	0.4	1	0	40	0	0	0	M
14	Dhotre	M-204	1.5	3	0	10	20	0	0	M
15	Dhokeshv	US-7711	1	1	0	10	20	0	0	M
16	Karjule (P	US-7773	0.8	2	0	10	30	0	0	M
17	Sawargad	US-7711	0.8	2	0	20	10	0	0	M
18	Galankwa	US-7773	0.6	1	0	5	20	0	0	M
19	Ghulewad	M-204	0.4	1	0	30	5	0	0	M
20	Palaskhed	Samarat	0.4	1	0	5	0	0	0	M

AURANGABAD

Sr No	Tehsil	Name of farmer and village location with GPS	Cultivars	Areas (acer)	Crop stage	Disease incidence / Intensity (%))			
						DM	Rust	Blast	Ergot
Dist . Chh Sambhajinagar									
1	Chh. Sambhajinagar	Shri. Sahastramuli Lati:19.769471 Longi:75.394042	Proagro 9555	1	Soft Dough	0	10	22	0
2		Shri. Raju Ghayat Ghardon Lati:19.713631 Longi:75.429577	Mahyco 2210	1.5	Maturity	0	20	18	2
3		Shri Rameshj shinde Sindon Lati:19.791708 Longi:75.379072	86 M 38	1	Soft Dough	0	20	14	3
4		Shri. Bhanudas Dhotr Khodegaon Lati:19.712045 Longi:75.480355	Nandi 75	0.5	Flowering	0	14	25	0
5		Shri. Ram Jadhav Dudhad Lati:19.869714 Longi:75.642089	Nirmal 240	2	Soft Dough	0	8	18	0
6		Dudhad Lati:19.869713 Longi:75.642114	AHB 1200	1	Soft Dough	0	10	15	0
7		Gadhe Jalgaon Lati:19.870268 Longi:75.578657	Mahyco 204	1	Soft Dough	0	12	31	0
8		Gadhe Jalgaon Lati:19.870268 Longi:75.578663	Kaveri super boss	2	Maturity	0	9	35	1
9	Paithan	Adool Bk. Lati:19.683953 Longi:75.517033	Parmanu	10	Soft Dough	0	7	24	0
10		Shri Mulund Garad Adgaon Lati:19.66805 Longi:75.602972	7872	1.5	Soft Dough	0	15	21	2
11		Shri Ram Kakade Adgaon Lati:19.668068 Longi:75.603001	88036	1.5	Flowering	0	10	18	0
12		Shri Ganesh Shelke Georai Marda Lati:19.645828 Longi:75.525542	Mahodaya 318	2	Soft Dough	0	11	23	0
13		Shri. Sandip Badhane Georai Marda Lati:19.634776 Longi:75.534824	Kaveri boss	1	Maturity	0	10	17	0
14		Shri Vishnu Nawale Georai Marda Lati:19.645933	Local	0.5	Soft Dough	3	22	24	4.50.

Sr No	Tehsil	Name of farmer and village location with GPS	Cultivars	Areas (acer)	Crop stage	Disease incidence / Intensity (%))			
	Paithan	Longi:75.525496							
15		Shri. Yogesh Jadhav Shri Kadethan Lati:19.63475 Longi:75.558435	Nandi 30	1	Soft Dough	0	8	21	1
16		Shri Balchand Dhunawa Georai Marda Lati:19.63475 Longi:75.534834	86 M 38	1.5	Flowering	0	2	22	0
17		Shri Raju Chikane Anterwali Khandi Lati:19.656374 Longi:75.583116	Local	1	Maturity	2	18	34	8
18		Jahagir Baig Adool Kh. Lati:19.712737 Longi:75.524815	Dhashekti	1	Soft Dough	0	12	32	6
19		Shri Khandu veer Adool Kh. Lati:19.712697 Longi:75.52475	86M32	1.5	Maturity	0	7	25	0
20		Shri.Bahusahe Aute Georai Marda Lati:19.645927 Longi:75.525577	AHB 1269	1	Maturity	0	6	16	2
21		Shri. Dyaneshwar Zirpe Kadethan Lati:19.634754 Longi:75.558487	Mahyco 2210	1	Soft Dough	0	5	20	1
22		Shri. Bardinath bobade Kadethan Lati:19.634731 Longi:75.558476	Kaveri super boss	1	Flowering	0	12	26	0
Dist .Jalna									
23	Ambad	Asha bai More Jamkhed Lati:19.662301 Longi:75.679432	Nath Super 27	1	Soft Dough	0	7	23	0
24		Shri. Dyaneshwar shinde Kingaon Lati:19.661976 Longi:75.677198	Mahyco 2240	0.5	Maturity	0	9	28	0
25		Shri. Pandurang .Pawar Jamkhed Lati:19.656375 Longi:75.583165	Local	0.5	Flowering	3.5	21	31	14
26		Shri. Sudharshan Natkar Jamkhed Lati:19.662217 Longi:75.67928	Local	1	Soft Dough	4	19	32	0
27		Shri Baban shirke Khedgaon Lati:19.719271 Longi:75.705067	Nandi 35	.2.0	Soft Dough	0	8	22	0

Sr No	Tehsil	Name of farmer and village location with GPS	Cultivars	Areas (acer)	Crop stage	Disease incidence / Intensity (%))			
28		Shri. Parmeshawar kharat Khedgaon Lati:19.71927 Longi:75.705066	Proagro 9555	1	Soft Dough	0	7	20	0
29		Shri. Sitaram Golade Khedgaon Lati:19.71926 Longi:75.705055	US 7117	1	Soft Dough	0	6	14	0
30		Shri. Ajinath madane Jamkhed Lati:19.662301 Longi:75.679432	Mahyco 2272	0.5	Soft Dough	0	8	24	0
31		Shri. Narayan handge Jamkhed Lati:19.662305 Longi:75.679434	Local	2.5	Flowering	0	24	35	12
32	Badnapur	Shri. Bhagwan palhal Dhawalpuri Lati:19.869893 Longi:75.657935	86M90	1	Soft Dough	0	4	28	0
33		Sayed Aanis Dhawalpuri Lati:19.870013 Longi:75.658233	NHB 07	1.5	Maturity	0	8	22	0
34		Shri Ankush Jarwal Lonar Bhaigaon Lati:19.741107 Longi:75.714291	Kaveri boss	1	Soft Dough	0	13	28	0
35		Shri. Narayan wagh Lonar Bhaigaon Lati:19.741108 Longi:75.71429	NHB 1717	1	Maturity	0	15	24	0
36		Rameshwar Jarahad Ambadgaon Lati:19.84256 Longi:75.728692	Mahyco 2240	2	Soft Dough	0	11	19	0

Table E: Karnataka (Mysore Centre)

District	Cultivar	Area (ha)	Crop st	Downy mildew	Blast	Rust	Ergot
Bellary	Local va	2	Matuirty	4	12	9	0
	Private	1.6	Maturity	2	7	11	0
	Pratap	1.5	Maturity	9	8	16	0
	PAC 90	2.5	Maturity	2	4	18	1
	86M64	1	Maturity	2	6	19	0
	ICMV 2	1.5	Maturity	2	8	20	1
Bagalko	Private	2	SD	1	10	18	0
	Private	3	SD	0	7	14	0
	Private	4	F	0	7	9	0
	Advanta	1	F	1	4	7	0
	MLHB5	1	SD	1	8	17	0
	MRB16	2	SD	0	5	13	0
Vijayap	PHI 768	2.5	Maturity	0	6	21	0
	Advanta	1.8	F	2	3	12	0
	SMP77	4	SD	1	12	15	0
Koppala	GHB55	3.2	F	0	8	17	0
	Local hy	2.3	F	8	9	15	1
	Private	1.6	SD	2	13	16	0
	Private	2.5	SD	2	11	18	0

Table F: Tamil Nadu (Coimbatore Centre)

No.	District/ Block	Village/ Location	Cultivars	GPS coordinates	Area (ac)	Crop Stage	Disease Incidence / intensity %				
							DM	Rust	Blast (g)	Ergot	Smut
1	Viluppuram/ Mogaiyur	Mogaiyur	Private hybrid	N 11°59.163 ; E 079°17.764	2	Flowering	0	0	3	0	0
			Local variety	N 11°59.211 ; E 079°17.235	1	HD	0	3	5	0	0
		Ayanthur	Private hybrid	N 11°58.321 ; E 079°20.615	2	SD	0	0	3	0	0
			Pioneer hybrid	N 11°58.417; E 079°18.751	2	SD	0	0	2	0	0

No.	District/ Block	Village/ Location	Cultivars	GPS coordinates	Area (ac)	Crop Stage	Disease Incidence / intensity %				
							DM	Rust	Blast (g)	Ergot	Smut
	Viluppuram/ Kanai	Mambalapattu	Pioneer hybrid	N 11°57.172 ; E 079°21.622	2	HD	0	0	2	0	0
			Private hybrid	N 11°57.959 ; E 079°22.213	1.5	HD	0	2	4	0	0
2	Cuddalore/ Nallur	Vannathur	Local variety	N 11°33.952 ; E 079°12.007	1	HD	2	3	5	2	0
			Private hybrid	N 11°34.345 ; E 079°12.123	2	Flowering	0	0	3	0	0
			Co 10	N 11°34.188 ; E 079°11.780	2	SD	0	5	3	0	0
		Elangiannur	Private hybrid	N 11°34.266 ; E 079°12.458	2	SD	0	2	3	0	0
			Co 10	N 11°34.672 ; E 079°12.334	2	Flowering	0	5	4	0	0
			Local (farm saved	N 11°34.328 ; E	1	HD	5	8	5	2	0
			Local (farm saved	N 11°34.632 ; E	1.5	HD	6	5	5	0	0
		Nallur	Local (farm saved	N 11°34.375 ; E	1	HD	2	2	3	0	0
3	Erode - Nambiyur block	Vellalapalayam	Local (farm saved	N 11°20.911 ; E	1.5	SD	1	5	5	0	0
		Cinnaripalayam	Private hybrid	N 11°20.775 ; E 077°24.144	1.5	Flowering	0	3	3	0	0
		Vemandampalayam	Private hybrid	N 11°20.412 ; E 077°15.773	2	HD	0	8	5	0	0

No.	District/ Block	Village/ Location	Cultivars	GPS coordinates	Area (ac)	Crop Stage	Disease Incidence / intensity %				
							DM	Rust	Blast (g)	Ergot	Smut
	Erode	Panayampalli	Pioneer hybrid	N 11°522 ; E 077°15.722	2	Flowering	0	8	5	0	0
	Puliampatti block	Thoppampalayam	Local (farm saved seeds)	N 11°6154 ; E 077°344	1	SD	0	10	5	0	0
4	Coimbatore	Coimbatore	CO 10	N 11°01.493 ; E 076°55.378	1	Flowering	0	12	4	0	0
			Co 9 hybrid	N 11°01.493 ; E 076°55.378	1	Flowering	0	10	2	0	0

CHAPTER V
ENTOMOLOGY

ENTOMOLOGY

Total nine entomological trials (total 8 locations) were conducted at Pearl Millet Research Station, Junagadh Agricultural University, Jamnagar, Regional Research Station, Anand Agricultural University, Anand in Gujarat state, RARI, Duragpura, Jaipur, Fatehpur-Shelhawati, Sikar and ARS mandor Jodhpur in Rajasthan, National Agriculture Research Project, Aurangabad in Maharashtra, CCS HAU, Hisar in Haryana & Anantapur in Andhra Pradesh.

METHODOLOGY AND OBSERVATIONS

1. PMET-1A: Screening of pearl millet lines against major insect pest (Initial lines/ populations). Centres: Jamnagar, Jaipur and Fatehpur-Shekhawati (Total centres: 3)

Methodology: At vegetative stage (28 DAG), observations were recorded from total plants of net plot plants by counting the dead hearts. Thus, shoot fly dead heart percent incidence was worked out. For stem borer, plant showing parallel holes due to stem borer larvae in the leaves were considered as damaged plant and percent damaged plant was calculated. At ear head stage, number of ear heads showing shoot fly (deformed ear head) and stem borer (empty/white ear head) damage were recorded separately and thus percent ear head damage was worked out from ear heads of total plants of net plot. Whereas, for *Helicoverpa armigera*, the population of larvae was counted from 5 ear heads of the randomly selected. Leaf roller damage score (0-10) was worked out on 5 plant basis at ear head stage.

Observations recorded:

a. **Shoot fly** – Per cent infestation at 28 DAG (Vegetative stage) and ear head stage.
b. **Stem borer** – Per cent plant damage at 28 DAG (Vegetative stage) and at ear head stage.
c. ***Helicoverpa*** larvae – Number of larvae/ 5 ear heads.
d. **Leaf roller** – Damage score (0-10) at ear head stage.
e. **Grey weevil**- Damage score (0-10) at ear head stage.

Criteria:

a. Shoot fly – Percent infestation at vegetative stage (28 DAG) & at ear head stage (Criteria: 0.0%= Resistant, 0.1-5.0%=Moderate resistant, 5.1-10.0% = Tolerant, 10.1-20.00%= Susceptible & Above 20.00% = Highly susceptible)
b. Stem borer – Percent infestation at vegetative stage (28 DAG) & at ear head stage (Criteria: 0.0%= Resistant, 0.1-5.0%=Moderate resistant, 5.1-10.0% = Tolerant, 10.1-20.00%= Susceptible & Above 20.00% = Highly susceptible)
c. *Helicoverpa* larvae – Number of larvae/ 5 ear head
d. Leaf roller- Damage score (0-10).

e. Grey weevil- Damage score (0-10).

2. PMET-1B: Screening of pearl millet lines against major insect pest (advance lines).
Centres: Jamnagar, Mandor-Jodhpur, Jaipur and Fatehpur-Shekhawati (Total centres: 4)

N.B.: Methodology, observations recorded and criteria as per PMET-1A experiment.

3. PMET-2: Monitoring of major insect pests of pearl millet

Centres: Jamnagar, Anand, Jaipur, Mandor-Jodhpur, Fatehpur-Shekhawati, Aurangabad & Hisar (Total centres: 7).

Methodology:

(A) Untreated plot: Sowing of released pearl millet variety was done over an area of 100 m^2 which was kept free from insecticidal application during crop season. The whole block was divided into 10 quadrates of 1.0 X 1.0 m. The incidence (%) and population of various insect pests observed during the crop period was recorded at weekly interval from 2 plants of each quadrate randomly selected, 7 days after germination (DAG) of the crop till maturity. Thus total 20 plants were observed at weekly interval. The presence of bio agents was also recorded simultaneously. Weather data also recorded on weekly basis (Standard Meteorological Week) at least, Temperature Minimum & Maximum, RH Morning & Evening, Rainfall mm & Rainy days. If some other facility available than other parameters were recorded for correlation.

(B) Treated plot: One treated plot of 100 m^2 was maintained by taking recommended package of practices for insect pest management to get the information of yield losses.

The following treatments were adopted for treated plot.

1. Shoot fly, stem borer, white grub & termite: Seed treatment imidacloprid 600 FS @ 8.75 ml/kg seed.
2. Shoot fly, stem borer foliar spray: Imidacloprid 17.8 SL 0.009% at 35 DAG
3. *Helicoverpa armigera:* Spray of novaluron 10 EC 0.01%, at ear head stage at pest appearance.
4. Fall Army Worm: *Beauveria bassiana* 5 g/ litre whorl application ($1X10^8$ cfu/g) at the initiation of pest appearance and repeat it after 10 days if required.
5. Leaf binder, grass hopper, grey weevil, leaf roller, hairy cater pillar and any other leaf feeding insects: Spraying of NSKE 5%.

Observations recorded:

1. From Un-treated plot, per cent incidence and population of various insect pests observed during the crop period was recorded at weekly interval from 20 randomly selected plants (2 plants from each quadrate) 7 days after germination (DAG) of the crop till maturity. The presence of bio agents was also recorded simultaneously.
2. Yield kg/plot converted into hactare from treated as well as Un-treated plot.

4. PMET-3: Survey of major insect pests in *kharif* pearl millet on farmer's fields.

Centres: Jamnagar, Anand, Jaipur, Fatehpur-Shekhawati,Aurangabad and Hisar (Total centres: 6)

Survey of insect pests was carried out in pearl millet crop during *Kharif* season at different locations. Incidence of various insect pests infesting pearl millet was recorded. For shoot fly and stem borer per cent incidence was worked out from 20 randomly selected plants. Whereas, for rest of the insects, population was recorded from randomly selected 5 plants/ear heads as the case may be. The population of bio-agents was also recorded from randomly selected 5 plants/ear heads.

5. PMET-4: Management of insect-pest complex of pearl millet through seed treatment and foliar application of bio-pesticides

Centres: Jamnagar, Anand, Jaipur, Mandor-Jodhpur, Fatehpur-Shekhawati & Aurangabad **(Total centres: 6).**

Methodology: Seed treatment was given initially at the time of sowing. While, two foliar applications were given at 30 DAG and ear head stage. At vegetative stage (28 DAG), observations were recorded on 20 plants of net plot plants by counting the dead hearts. Thus, shoot fly percent incidence was worked out. For stem borer, plant showing parallel holes due to stem borer larvae in the leaves was considered as damaged plant and thus percent incidence was recorded. At ear head stage, number of ear heads showing shoot fly (deformed ear head) and stem borer (empty/white ear head) damage was recorded separately and thus per cent ear head damage was worked out from ear heads of 20 plants of net plot. Grass hopper per cent damage was recorded at 45 DAG. Fall Army worm % damage was also recorded at 45 DAG of the crop. Larval population of *Helicoverpa* was recorded on 5 ear heads in each treatment at ear head stage before spray (24 hrs before spray) and after spray 1, 3, and 7 days. Termite and white grub damage was recorded from 20 plants of net plot and thus per cent damage was recorded at ear head stage. Grey weevil damage score (0-10) was recorded at ear head stage. Grain and fodder yield was recorded from net plot area at harvest and data thus obtained were analyzed statistically. The ICBR was also calculated.

Observations to be recorded:

a. Per cent incidence of shoot fly at 28 DAG (vegetative stage) and at ear head stage.
b. Per cent incidence of stem borer at 28 DAG (vegetative stage) and at ear head stage.
c. Per cent termite and white grub damage at ear head stage.
d. Larval population of *Helicoverpa* to be recorded on 5 ear heads in each treatment before & after spray (24 hrs before, 1, 3 & 7 days after spray).
e. Grass hopper per cent damage at 45 DAG of the crop.
f. Fall Army worm % damage at 45 DAG of the crop.
g. Grey weevil damage score at ear head stage (0-10).
h. Grain & fodder yield.

6. PMET-5: Management of ear head worm, *Helicoverpa armigera* in pearl millet through chemical insecticides

Centres: Jamnagar, Mandor-Jodhpur and Fatehpur-Shekhawati (Total centres: 3).

Methodology:

The pearl millet crop will be sown followed by all the agronomical practices. If any major incidence of foliage pest (shoot fly, stem borer, grass hopper & FAW) is observed it will be protected with spray of Azadirachtin 1500 ppm (40 ml/10 litres) as a blanket spray. Rest of all the treatments will be given at ear head stage at the appearance of *H. armigera*.

Observations to be recorded:

1. *Helicoverpa armigera* larval population 24 hrs before spray, 24 hrs, 3 days and 7 days after spray from randomly selected 20 ear heads of net plot.
2. Grain and fodder yield will be recorded from the net plot.

7. PMET 7: Survey of insect- pests of summer pearl millet on farmers' fields.

Centres: Jamnagar, Anand and Aurangabad (Total centres: 3)

Survey of insect pests was carried out in pearl millet crop on farmer's field during summer season. Incidence/population of insect pests infesting pearl millet crop was recorded from 20 randomly selected plants per field. For shoot fly and stem borer per cent incidence was worked out from 20 randomly selected plants. Whereas, for rest of the insects, population was recorded from randomly selected 5 plants/ear heads as the case may be. The population of bio-agents was also recorded from randomly selected 5 plants/ear heads.

8. PMET-8: Relative susceptibility of pearl millet advanced entries to storage insect pests

Centres: Jamnagar, Anand, Jaipur, Mandor-Jodhpur and Anantapur (Total centres: 5)

Since installation of storage trial was done after the harvest of *kharif* trial, the observations recorded at 3 & 6 months of period of 2024 will be presented next year, whereas the results of entries of *kharif* 2023 are presented in this year's report.

Observations:

a. Number of adults (*Tribolium/Rhizopertha*) emerged at 3 & 6 months period of storage
b. Per cent grain damage at 3 & 6 months period of storage
c. Per cent weight loss at 3 & 6 months period of storage
d. Germination percentage at 6 months

9. PMET-9: Monitoring of Fall Army worm (*Spodoptera frugiperda*) through pheromone traps in *Kharif* pearl millet

Centres: Jamnagar, Anand, Jaipur, Mandor-Jodhpur, Fatehpur-Shekhawati & Aurangabad (Total centres: 6).

Methodology & Observations recorded: The pheromone traps of Fall Army Worm (5 traps) were installed in the general pearl millet crop field of the station. The catches per 5 traps were recorded at weekly interval as per Meteorological Standard week (MSW). The mean catches per week were worked out to know the population fluctuations. Simultaneously, damage per cent was also recorded.

N.B.: The traps were supplied by PI (Entomology), ICAR – IIMR, Hyderabad to the above locations.

RESULTS-2025

1. PMET-1A: Screening of pearl millet lines against major insect pests (Initial lines/ populations).

Number of pearl millet entries screened for their resistance against major insect pests were 106. This trial was conducted at Jamnagar, Fatehpur-Shekhawati and Jaipur (Table V.1a, V.1b, V.1c and V.1d).

Based on the evaluation of 106 entries for shoot fly and stem borer incidence at vegetative (28 DAG) and ear head stages, the distribution of entries across resistance classes revealed distinct infestation patterns. For shoot fly incidence at the vegetative stage, only a few entries were completely free (0.0%) (~8–10 entries) including MH 2849, MH 2852, MH 2859, MP 645, and Raj 171, while a moderate number were moderately resistant (0.1–5.0%) (~30–35 entries); the majority of entries were grouped under tolerant (5.1–10.0%) (~35–40 entries) and susceptible (10.1–20.0%) (~20–25 entries) categories, with a small proportion (~5–8 entries) falling under highly susceptible (>20.0%).

At the ear head stage, infestation increased markedly, with no entries remaining free, and most entries shifting to the susceptible class (~60–70 entries), followed by tolerant (~20–25 entries) and moderately resistant (~10–15 entries) categories; only a few entries (~3–5) with a few entries such as MH 2836, MH 2863, and PB 1852 exhibited high susceptibility (>20%).

In contrast, stem borer incidence at the vegetative stage showed a relatively resistant profile, with a substantial number of entries in the free category (0.0%) (~25–30 entries) and moderately resistant class (~40–45 entries), while fewer entries were tolerant (~20–25 entries), susceptible (~5–8 entries), and highly susceptible (~5–8 entries). However, at the ear head stage, infestation increased, resulting in no entries remaining free, and most entries falling under moderately resistant (~40–45 entries) and tolerant (~25–30 entries) categories, followed by susceptible (~20–25 entries) and a very limited number of highly susceptible entries (~3–5).

Overall, the results indicate that shoot fly infestation was more severe and showed a clear shift toward susceptibility at the ear head stage, whereas stem borer incidence remained comparatively lower with a higher proportion of entries exhibiting moderate resistance, suggesting relatively better tolerance of the tested material against stem borer than shoot fly across crop growth stages.

Shoot Fly Incidence

At the vegetative stage, shoot fly infestation showed a wide distribution across resistance classes, indicating variability among entries. A small proportion of entries (≈8–10) were completely free (0.0%), while moderately resistant entries (0.1–5.0%) accounted for ≈30–35 entries. A major share of the germplasm fell under tolerant (5.1–10.0%) (≈35–40 entries) and susceptible (10.1–20.0%) (≈20–25 entries) categories. Additionally, a limited number of entries (≈5–8)were categorized as highly susceptible (>20%), indicating the presence of highly vulnerable genotypes even at early crop stages.

At the reproductive stage, infestation intensity increased substantially, with no entries remaining in the free category. A pronounced shift toward susceptibility was observed, where majority of entries (≈60–70) were classified as susceptible (10.1–20.0%). The tolerant group reduced to ≈20–25 entries, and moderately resistant entries further declined (≈10–15). Only a few entries (≈3–5) exhibited high susceptibility (>20%).

Interpretation

The data clearly demonstrate that shoot fly pressure escalates from vegetative to ear head stage, with a marked breakdown of resistance. The limited number of free and moderately resistant entries suggests scarcity of strong resistance sources, making shoot fly a major constraint requiring focused breeding intervention.

The overall incidence was higher at vegetative stage (6.6%) as compared to ear head stage (8.9%)

Stem Borer Incidence

Vegetative Stage (28 DAG)

Stem borer infestation at the vegetative stage was comparatively low and skewed toward resistance. A significant proportion of entries (≈25–30) were completely free (0.0%), while the largest group (≈40–45 entries) fell under moderately resistant (0.1–5.0%) category. The tolerant group (≈20–25 entries) was moderately represented, whereas only a few entries were susceptible (≈5–8) or highly susceptible (≈5–8).

Ear Head Stage

At the ear head stage, infestation levels increased moderately, leading to complete disappearance of the free category. However, the distribution remained largely favorable compared to shoot fly, with most entries in moderately resistant (≈40–45) and tolerant (≈25–30) classes. The susceptible category (≈20–25 entries) showed some increase, while highly susceptible entries remained minimal (≈3–5).

Comparison across centres (JAM, JP, FPS)

A clear centre environmental gradient was evident: FPS recorded the highest infestation across both pests and stages (e.g., shoot fly mean: 10.61% at vegetative and 13.51% at ear head stage), indicating high pest pressure conditions. JP showed intermediate infestation levels. JAM consistently recorded the lowest infestation, with several entries showing free or near-free reactions, particularly for stem borer. This indicates that FPS is a hotspot environment for screening resistant genotypes, whereas JAM is relatively less conducive for pest buildup.

Top Performing Entries (Low Infestation Across Traits): Entries showing consistent moderate resistance or tolerance across pests and stages include: MH 2835, MH 2830, MH 2862, MH 2849, MH 2852. These entries frequently fall under free to moderately resistant classes and exhibit stability across environments, making them strong candidates for resistance breeding.

Highly Susceptible Entries (Across Environments): Entries showing consistently high infestation, particularly under FPS, include, MH 2836, MH 2863, PB 1852, MH 2811. These entries often fall under susceptible to highly susceptible classes, indicating vulnerability under high pest pressure.

The results clearly indicate that shoot fly incidence is higher and more environment-sensitive than stem borer, with a pronounced shift toward susceptibility at the ear head stage. In contrast, stem borer incidence remains relatively lower and more stable, with a higher proportion of entries retaining moderate resistance. The strong environmental influence, particularly the elevated pest pressure in FPS, highlights the importance of multi-location screening for identifying stable resistant genotypes. Overall, the study underscores the limited availability of strong shoot fly resistance and comparatively better stem borer tolerance, emphasizing the need for targeted breeding strategies.

Unlike shoot fly, stem borer infestation remained relatively controlled, with a high proportion of entries maintaining moderate resistance across stages. Although infestation increased at later stages, the shift toward susceptibility was less severe, indicating better inherent tolerance in the germplasm.
Shoot fly exhibited higher infestation intensity and stronger stage-wise escalation. Stem borer showed lower infestation levels and more stable resistance expression. Both pests showed increased infestation at ear head stage. The magnitude of increase was much greater in shoot fly
The evaluated germplasm demonstrates contrasting pest responses, with shoot fly emerging as the dominant and more damaging pest, particularly at later crop stages, while stem borer incidence remains comparatively lower and manageable. The findings highlight a critical need to strengthen shoot fly resistance breeding, while simultaneously exploiting the existing moderate resistance to stem borer for developing resilient cultivars.

Helicoverpa armigera (mean larvae per 5 ear heads):
For *Helicoverpa armigera* (mean larvae per 5 ear heads), a considerable number of entries were completely free (0.0) (~15–18 entries), including prominent examples such as MH 2835, MH 2841, MH 2846, MH 2862, MH 2863, and MP 641. The majority of entries were concentrated in the low-density class (0.1–1.0) (~40–45 entries), followed by moderate classes of 1.1–2.0 (~25–30 entries) and 2.1–5.0 (~10–15 entries), while very few entries (≈3–5) showed high infestation (>5.0), notably MH 2857, MH 2879, and MH 2811.
Grey weevil:
Infestation was largely confined to low to moderate ranges, with no entries strictly falling under free (0.0) category, but a majority of entries occurring within 0.1–1.0 (~35–40 entries) and 1.1–2.0 (~40–45 entries) classes. A moderate number of entries were observed in the 2.1–5.0 range (~15–20 entries), and only a few-entries (>5.0) exhibited high infestation, such as MH 2857 and MH 2879.
Leaf roller:
Infestation remained generally moderate, with a few-entries under free (0.0) category (~8–10 entries), including MH 2821, MH 2823, MH 2825, MH 2830, and MH 2862. Most entries were distributed in the 1.1–2.0 range (~45–50 entries), followed by 2.1–5.0 (~30–35 entries) and 0.1–1.0 (~15–20 entries) classes, while no entries exceeded the >5.0 threshold, indicating absence of severe infestation.

Overall, the results indicate that *Helicoverpa armigera* exhibited greater variability with a few high-density outliers, whereas grey weevil infestation remained largely within low to moderate levels, and leaf roller incidence was moderate without severe outbreaks, suggesting comparatively better tolerance of the tested germplasm to grey weevil and leaf roller than to H. armigera.

2. PMET-IB: Screening of pearl millet lines against major insect-pest (advance lines)

Forty six different advance entries were screened for their resistance against major insect pests.

This trial was conducted at Jamnagar, Jaipur, Fatehpur-shekhwati & Jodhpur (Table V.2a, V.2b, V.2c and V.2d).

Shoot Fly Incidence:
For shoot fly incidence at vegetative stage (28 DAG), the distribution of 46 entries across resistance classes indicated that free (0.0%) entries were few (~6–8 entries), including promising genotypes such as MH 2754, MH 2773, Pratap,and PB 1756. A substantial proportion of entries fell under moderately resistant (0.1–5.0%) (~18–20 entries), followed by tolerant (5.1–10.0%) (~12–15 entries). Fewer entries were classified as susceptible (10.1–20.0%) (~6–8 entries), while highly susceptible (>20%) entries (~3–5) included MH 2775, MH 2795, and MP 7878.
At the ear head stage, infestation increased, with no entries remaining free. The majority shifted into tolerant (~18–20 entries) and susceptible (~12–15 entries) categories, while moderately resistant entries reduced (~8–10 entries). A small number of entries (~4–6) showed high susceptibility (>20%), including MH 2795, MP 7878, and Raj 171.
Centre-wise comparison (Shoot fly):
FPS consistently recorded highest infestation (mean ≈12.75% at vegetative stage), pushing more entries into susceptible and highly susceptible classes. JOD also showed high variability and occasional extreme values (>20%). JP showed intermediate infestation levels. JAM recorded the lowest infestation, with most entries falling under free and moderately resistant classes. This confirms FPS and JOD as hotspot environments for shoot fly screening, while JAM is relatively less conducive.

Stem Borer Incidence:
For stem borer incidence at vegetative stage, a strong resistance pattern was observed. A considerable number of entries were free (0.0%) (~10–12 entries), including MH 2743, MH 2754, MH 2773, and MH 2860. The majority of entries were grouped under moderately resistant (0.1–5.0%) (~20–22 entries), followed by tolerant (~8–10 entries). Very few entries fell under susceptible (~3–5 entries) and highly susceptible (~2–3 entries) classes.
At the ear head stage, infestation increased moderately, and free category disappeared. Most entries were distributed in moderately resistant (~18–20 entries) and tolerant (~12–15 entries) classes, followed by susceptible (~8–10 entries) and very few highly susceptible (~2–3 entries) entries such as MH 2797 and MP 7878.
Centre-wise comparison (Stem borer):
FPS recorded highest infestation (mean ≈5.49–5.96%), leading to increased susceptible entries. JP showed moderate infestation. JAM consistently recorded lowest infestation, with many entries in free and moderately resistant classes. Stem borer showed less environmental fluctuation compared to shoot fly, indicating more stable resistance expression.

Top Performing Entries (Multi-pest and Multi-stage Stability):
Entries showing consistent low infestation (free to moderately resistant across pests and stages) include:
MH 2754 (excellent stability across all traits)
MH 2773 (near-zero stem borer and low shoot fly)
MH 2743 (low incidence across environments)
Pratap (stable low infestation across stages)
MH 2862 (strong resistance profile)
These entries represent high-value donor genotypes for resistance breeding.

Highly Susceptible Entries
Entries consistently showing high infestation (>20%) under high-pressure environments include:
MH 2775, MH 2795, MP 7878, Raj 171
These genotypes are highly vulnerable and unsuitable for resistance breeding programs.

The results clearly demonstrate that:
Shoot fly incidence is higher, more variable, and strongly environment-dependent, with a clear shift toward susceptibility at the ear head stage
Stem borer incidence is comparatively lower and more stable, with a higher proportion of entries retaining moderate resistance
FPS and JOD environments exert maximum pest pressure, making them ideal for rigorous resistance screening. JAM provides a low-pressure environment, useful for identifying baseline resistance.
The evaluated germplasm exhibits greater vulnerability to shoot fly than stem borer, with resistance breaking down at later growth stages, particularly under high-pressure environments like FPS. In contrast, stem borer resistance is more widespread and stable, offering opportunities for rapid genetic improvement. The identification of stable resistant entries such as MH 2754 and MH 2773 provides valuable resources for developing multi-pest resilient cultivars, while the strong environmental influence highlights the importance of multi-location screening for durable resistance.

For *Helicoverpa armigera* (larvae/5 ear heads), a substantial number of entries were free (0.0) (~14–16 entries), including top performers such as MH 2672, MH 2754, MH 2682, MH 2712, MH 2806, AHB 1269, Pratap, and KBH 108. The majority of entries were distributed in the 0.1–1.0 range (~15–18 entries), followed by 1.1–2.0 (~6–8 entries) and 2.1–5.0 (~5–7 entries) classes. A limited number of entries (~5–6) showed high infestation (>5.0), notably MH 2717, MH 2795, MH 2797, 86M01, NBH 4903, and Raj 171, indicating susceptibility under high pest pressure. Environment-wise, FPS recorded the highest larval density (mean ≈4.08), followed by JOD (1.51) and JP (0.58), clearly demonstrating that FPS is a hotspot for Helicoverpa infestation.

For grey weevil, infestation was predominantly low, with most entries falling under 0.1–1.0 (~20–22 entries) and 1.1–2.0 (~15–18 entries) ranges, while very few entries approached 2.1–5.0 (~4–6 entries) and none exceeded >5.0, indicating absence of severe infestation. A few relatively higher scoring entries included MH 2795, MH 2797, NBH 4903,and Raj 171. No entries were completely free (0.0), suggesting low but consistent presence across genotypes. Centre comparison

showed FPS slightly higher (mean ≈1.53) than JOD (≈1.83 for some entries but generally moderate), while overall variation remained narrow, indicating stable and low pest pressure.

For leaf roller, infestation was generally low to moderate, with several entries under free (0.0) (~8–10 entries), including MH 2754, MH 2682, MH 2773, MPMH 35, Pratap, KBH 108, and JBV 2. Most entries were grouped under 0.1–1.0 (~12–15 entries) and 1.1–2.0 (~12–14 entries) categories, followed by 2.1–5.0 (~6–8 entries), while no entries exceeded >5.0, indicating absence of severe leaf roller outbreaks. Slightly higher infestation levels were observed in entries such as PB 1756, MH 2747, and NBH 4903. Across environments, FPS again recorded relatively higher values, followed by JOD, while JP consistently showed the lowest infestation, confirming a gradient of FPS > JOD > JP.

Overall, the results clearly indicate that *Helicoverpa armigera* exhibited the highest variability and severity, with several entries crossing the economic threshold under FPS conditions, whereas grey weevil and leaf roller infestations remained largely within low to moderate ranges with no severe outbreaks. The strong environmental influence, particularly the elevated pest pressure in FPS, highlights its suitability as a screening hotspot, while entries such as MH 2754, Pratap, KBH 108, and MH 2682 demonstrated stable resistance across pests and environments, making them valuable candidates for resistance breeding programs.

3. PMET-2: Monitoring of major insect pests of pearl millet

With a view to study the population fluctuation of different insect pests of pearl millet during crop season *i.e.* on station monitoring, a study was conducted at Jamnagar & Anand in Gujarat, Jaipur, Fatehpur-Shekhawati & Mandor-Jodhpur in Rajasthan, Aurangabad in Maharashtra and Hisar in Haryana. Incidence of different insect pests was recorded at weekly intervals. Moreover, correlation of these pests was worked with different weather parameters. The loss caused by insect-pest complex was also worked out.

Centre: Jamnagar

The weekly incidence of insect-pests was recorded on variety GHB 538 at Pearl Millet Research Station, JAU, Jamnagar (Table- V.3a, b).

Based on the seasonal observations recorded at Jamnagar, the incidence of insect pests, their population dynamics, and associated yield losses revealed distinct temporal patterns under field conditions.

The shoot fly incidence (%) ranged from 0.0 to 10.0%, with initial appearance at 14 DAG (5%) and a peak of 10% at 28 and 56 DAG, followed by a decline to zero at later stages (77–84 DAG). Similarly, stem borer incidence ranged from 0.0 to 10.0%, with peak infestation at 28 DAG (10%), and moderate levels (5%) during mid-crop stages before disappearing towards maturity. The leaf roller damage score ranged from 0 to 3 (0–10 scale), with maximum damage recorded around 42 DAG, while grasshopper damage ranged from 0.0 to 3.0%, appearing mainly between 35–70 DAG. The mean grey weevil damage score varied from 0 to 3, indicating low to moderate infestation, peaking during mid-growth stages (42–49 DAG).

Among the pest populations, hairy caterpillar density ranged from 0 to 5 insects per 20 plants, appearing mainly from 56 to 63 DAG. Blister beetles ranged from 0 to 10 insects per 20 ear heads, with a peak at 63 DAG, while chaffer beetle population ranged from 0 to 5 per 20 ear heads. The *Helicoverpa armigera* larval population remained low, ranging from 0 to 1 larva per 20 ear heads, indicating minor incidence. Among natural enemies, ladybird beetles ranged from 0 to 4 per 20 plants, showing higher abundance during mid-season (56 DAG), whereas Chrysopa population ranged from 0 to 3 per 20 plants, observed mainly during early to mid stages.
The mean values across the season further confirm low to moderate pest pressure, with shoot fly (4.58%), stem borer (3.33%), leaf roller (0.83), grasshopper (1.00%), grey weevil (1.00), hairy caterpillar (0.83/20 plants), blister beetles (1.25/20 ear heads), chaffer beetle (1.58/20 ear heads), Helicoverpa (0.25/20 ear heads), ladybird beetle (1.67/20 plants), and Chrysopa (0.83/20 plants).
The yield loss analysis indicated that insect pest infestation caused a 14.00% reduction in grain yield (2850 to 2400 kg/ha) and 14.42% reduction in fodder yield (5200 to 4450 kg/ha), highlighting the economic significance of the pest complex even under moderate infestation levels.

The results indicate that pest incidence was generally low during early stages and peaked during mid-crop growth (28–63 DAG), coinciding with favourable crop and environmental conditions. Shoot fly and stem borer were the dominant early-stage pests, whereas defoliators and ear head pests (leaf roller, grasshopper, blister beetles) became prominent at later stages. The relatively low population of Helicoverpa suggests limited economic importance under these conditions. The presence of natural enemies such as ladybird beetles and Chrysopa indicates biological regulation, although their population levels were moderate. Despite moderate pest pressure, the yield losses exceeding 14% emphasize the need for timely pest management interventions, particularly during the critical mid-growth stages.

Centre: Anand:

Weekly incidence and population of insect-pests was recorded on pearl millet variety GHB 1129

at Regional Research Station, Anand Agricultural University, Anand (Table-V.3c,d,e,f).

Based on the seasonal observations recorded at Anand, the incidence, population dynamics of insect pests, and their relationship with prevailing weather parameters revealed clear temporal trends and ecological associations .
The incidence (%) of major pests such as shoot fly and stem borer remained nil (0.0%) from 7 to 42 DAG, followed by a gradual increase from 49 DAG onwards, reaching a maximum of 15.0% for shoot fly and 15.0% for stem borer during 63–91 DAG. Other pests such as termite, white grub, and fall armyworm remained absent throughout the crop period, while grasshopper incidence ranged from 0.0 to 10.0%, appearing only after 56 DAG. Thus, the overall incidence range was 0.0–15.0% for shoot fly and stem borer, and 0.0–10.0% for grasshopper, indicating late-season pest build-up.
The number of insects per 20 ear heads showed that *Helicoverpa armigera* larvae appeared from 49 DAG onwards, with population increasing from 1.0 to a peak of 4.0 larvae/20 ear heads (70–77 DAG) and declining thereafter (range: 0.0–4.0). Similarly, Eublema silicula ranged from 0.0 to 3.0 larvae/20 ear heads, peaking around 77 DAG. Other pests such as blister beetles, chaffer beetles, and hairy caterpillars remained absent (0.0) throughout the season.

For number of insects per 20 plants (natural enemies), ladybird beetles showed a gradual increase from 0.0 to 3.0 individuals/20 plants, particularly during later stages (70–91 DAG), while chrysopids remained absent throughout. The grey weevil damage score ranged from 0.0 to 3.0, indicating low to moderate damage levels.

Correlation Analysis with Weather Parameters:

The correlation of pest incidence and population with weather parameters revealed meaningful ecological relationships:

Shoot fly and stem borer incidence (%) showed a positive correlation with maximum temperature ($r \approx +0.60$ to $+0.75$) and bright sunshine hours ($r \approx +0.55$ to $+0.70$), indicating increased infestation under warmer and drier conditions.

A negative correlation with rainfall ($r \approx -0.65$ to -0.80) and rainy days ($r \approx -0.60$ to -0.75) was observed, suggesting suppression of pest incidence during periods of high precipitation.

Relative humidity (morning and evening) showed weak to moderate negative correlation ($r \approx -0.30$ to -0.50) with pest incidence.

For *Helicoverpa armigera* population (ear head basis):

Strong positive correlation with temperature ($r \approx +0.70$) and sunshine ($r \approx +0.65$)

Strong negative correlation with rainfall ($r \approx -0.75$) and evaporation-linked moisture conditions

For natural enemies (ladybird beetles):

Moderate positive correlation with pest population ($r \approx +0.50$ to $+0.65$), indicating density-dependent response

Slight positive association with temperature and negative association with rainfall

The results clearly demonstrate that pest incidence and population build-up are strongly influenced by weather dynamics, particularly temperature, sunshine, and rainfall. Pest activity was negligible during early crop stages due to high rainfall and humidity, while increasing temperature and reduced rainfall during later stages favored pest proliferation. The peak pest period (63–84 DAG) coincided with reduced rainfall, moderate humidity, and higher sunshine hours, creating optimal conditions for infestation. Natural enemies showed a delayed but positive response to pest abundance, indicating ecological regulation potential.

The study indicates that insect pest incidence in pearl millet at Anand is low during early crop stages but increases significantly at later stages, with maximum incidence reaching 15% and larval population up to 4 insects per 20 ear heads. Weather parameters, particularly temperature (+ve) and rainfall (−ve), play a crucial role in regulating pest dynamics. These findings highlight the importance of weather-based pest forecasting and timely management interventions, especially during the reproductive stage of the crop.

Centre: Mandor-Jodhpur:

Incidence: Weekly observations on incidence of various insect pests during *kharif* 2025 on pearl millet crop (variety MPMH 21) was recorded at ARS, Mandor, Jodhpur- Rajasthan (Table V.3 g, h, i).

Monitoring of major insect pests of pearl millet was conducted to study the population fluctuation of different insect pests of pearl millet during crop season. The insect-pests observed were *viz.,*

shoot fly, leaf roller, grass hopper, grey weevil, fall armyworm, leafhopper, chafer beetle, earhead worm and *Eublema silicula* during the study period. Shoot fly infestation was noticed during 31st to 43rd SMW and the maximum infestation of 25.00% was recorded in 34rd SMW with an average of 8.21% during the crop period. Leaf roller damage initiated in 33rd SMW (1.00 damage score) and the maximum was during 35th and 36th SMW (2.00 DS) with an average of 1.0 DS during the crop period. Grass hopper damage initiated during 33rd SMW (5.00%) with maximum of 20.00% during 35th to 37th SMW (20.00%) with an average of 6.79%. Damage of fall army worm was observed only during 36- 37th SMW (2.0 %). Grey weevil damage score ranged from 0.0-1.0 during the season. Leafhopper population was observed during mid stage of the crop ranging from 0.0-22.80/plant with an average of 4.21/plant. *Helicoverpa armigera* larval population was observed during 36-41th SMW, its range was 0.0-51.00 larvae/20 earheads with an average of 11.43 larvae/20 ear heads. The natural enemy lady bird beetle, green lacewing were also observed during the crop period.

Centre: Fatehpur-Shekhawati:

Weekly observations on incidence of various insect pests during *kharif* 2025 on pearl millet crop (Variety RHB 234) was recorded at ARS, Fatehpur-Shekhawati, Sikar, Rajasthan (Table V.3j,k). The survey of major insect pests in pearl millet across 34 farmer fields in the Sikar district (Fatehpur-Shekhawati and Laxmangarh blocks) during Kharif 2025 indicates widespread infestation during the ear head stage across various varieties like Proagro 9444, Balwan, and local Desi. Shoot fly was the most prevalent pest with a mean incidence of 25.59%, reaching as high as 40.00% in certain locations like Garinda, followed by a significant presence of *Helicoverpa* larvae averaging 21.03 per 5 ear heads. Other observed pests included stem borer (8.68% mean), termite damage (3.71% mean), and blister beetles (3.29 per 5 ear heads), while natural enemies like ladybird beetles and chrysopa remained relatively low, averaging 1.12 and 0.34 per 5 plants respectively (Table-V.3j-k).

Centre: Aurangabad:

Weekly incidence and population of insect pests was recorded on pearl millet variety AHB 1200 at National Agriculture Research Project, Aurangabad in Maharashtra (Table V.3 l, m).

The seasonal incidence of insect pests and natural enemies in pearl millet at Aurangabad revealed distinct temporal dynamics and measurable associations with weather parameters. The shoot fly incidence ranged from 0.0 to 15.0%, while stem borer incidence varied from 0.0 to 10.0%, both appearing from early growth stages (14–21 DAG) and stabilizing at higher levels during mid-crop stages (21–63 DAG). The fall armyworm (FAW) incidence ranged from 0.0 to 20.0%, emerging later (28 DAG) and peaking during 49–63 DAG, indicating its importance as a mid- to late-season pest. Among defoliators and ear-head pests, hairy caterpillar population ranged from 0.0 to 2.0 larvae per 20 plants, while chaffer beetle population ranged from 0.0 to 1.0 per 20 ear heads, both remaining relatively low. In contrast, ladybird beetle population ranged from 0.0 to 3.0 per 20 plants, reflecting moderate natural enemy activity, whereas Chrysopa population remained negligible (0.0–0.05 per 20 plants) throughout the season.

The yield loss assessment indicated that insect pest infestation resulted in a 9.09% reduction in grain yield and a relatively higher 15.56% reduction in fodder yield, demonstrating the economic impact of the pest complex even under moderate infestation levels.

Correlation analysis between pest incidence and weather parameters revealed important ecological relationships. Shoot fly incidence showed a positive but non-significant correlation with maximum temperature ($r = 0.376$) and rainfall ($r = 0.371$), while exhibiting negative associations with minimum temperature ($r = -0.462$), morning relative humidity ($r = -0.543$), and evening relative humidity ($r = -0.612$), indicating reduced infestation under high humidity conditions. Similarly, stem borer incidence followed a comparable trend, with positive correlation with maximum temperature ($r = 0.375$) and rainfall ($r = 0.404$), and negative correlation with minimum temperature ($r = -0.447$), morning RH ($r = -0.509$), and evening RH ($r = -0.617$).

In contrast, FAW incidence exhibited a strong and significant negative correlation with minimum temperature ($r = -0.824$), suggesting sensitivity to cooler conditions, while also showing negative relationships with humidity and rainfall, though non-significant. The weak or negligible correlations of FAW with maximum temperature ($r = 0.015$) indicate that its dynamics are influenced more by moisture and thermal thresholds than by daytime temperature alone.

The results indicate that shoot fly and stem borer are early to mid-season pests, whereas FAW becomes dominant at later stages, reaching higher infestation levels (up to 20%). Pest incidence generally increased under higher temperature and lower humidity conditions, while high rainfall and humidity suppressed pest activity, particularly for shoot fly and stem borer. The relatively low abundance of natural enemies, especially Chrysopa, suggests limited biological control pressure, whereas ladybird beetles showed moderate presence and may contribute to pest suppression. Despite moderate pest levels, the observed yield losses (up to 15.56%) highlight the necessity of timely pest management interventions, especially during the critical window of 28–56 DAG when multiple pests overlap.

Centre:Hisar:

Monitoring of different insect-pest in pearl millet variety HB 299 was done at weekly interval at CCS HAU Hisar (Table V.3 n, o).

Incidence: The incidence of shoot fly was observed very low (mean 0.67 %) and it was observed only during 29th (2.00%) and 31st MSW (6.00%). Stem borer incidence was also very low (2.08%) and it was observed during 31st (5.00%) to 33rd MSW (10.00%). Grass hopper damage was observed during the crop period i.e. 30th MSW (1.00%) to 31st (2.00%) MSW with an average of 0.25% during the crop period. Fall army worm damage ranged from 0.0-10.00% with an average of 2.50%. Mean grey weevil damage score was 1.67. Blister beetle population was observed during 36th MSW (2 beetles/20 EH) and 37th MSW (1 beetles/20 EH). Chaffer beetle was moderate (range 0.0-3.00) with an average of 0.58 adults/20 ear heads. Helicoverpa larval population was very low at ear head stage and it was 0.0-1.0 larvae/ 20 ear heads during 36th MSW to 37th MSW with an average of 0.17 larvae/20 ear heads. The natural enemy lady bird beetle (Av.0.17/20 plants) and chrysopa (Av. 0.33/20plants) was observed during mid to stage of the crop.

Losses: The loss in grain was 5.60%, whereas in case of fodder it was 2.92% due to insect- pest complex in pearl millet (Table-V.3o).

Centre: Jaipur:

Weekly observations on incidence of various insect pests during *kharif* 2025 on pearl millet crop

(Variety RHB 228) was recorded at RARI, Durgapura, Jaipur, Rajasthan (Table V.3 p, q, r).

Incidence of various insect pests of pearl millet was recorded on 5 randomly selected plants at weekly intervals on standard weather parameter. The incidence of insect pests during different Standard Weeks of Monitoring (SMW) revealed that shoot fly and stem borer were the major pests affecting the crop. Shoot fly infestation initiated at SMW 31 (5%) and progressively increased, reaching a maximum of 35% incidence by SMW 40, while stem borer incidence commenced at SMW 32 (5%) and steadily increased to 25% during SMW 38-40. White grub and termite activity was confined to earlier crop stages (SMW 30-34), showing 5-15% incidence and subsequently disappearing from the field. Leaf roller damage remained low to moderate (score 1-4) between SMW 31 and SMW 36, after which it declined to zero. Fall armyworm (FAW) appeared transiently at mid-season, recording 5-10% damage during SMW 37-38 before declining. Grasshopper and grey weevil activity was absent throughout the observation period. Occasional occurrences of blister beetles, chaffer beetles, and Helicoverpa larvae were recorded, though their populations remained below damaging levels. Among natural enemies, spiders were the most consistently observed predators (4-10 individuals per 20 plants), while chrysoperla and ladybird beetles were seldom encountered (Table-V.3p).

Losses: The treated plot recorded 2110 kg/ha grain and 3740 kg/ha fodder yield. The losses in grain yield were 32.7% and 20.60% in fodder yield **(**Table- V.3q)

Correlation: Correlation shoot fly, whitegrub and termite and stem borer incidence with all-weather parameters. Stem borer incidence exhibited significant negative correlations with morning ($r = –0.686^*$) and evening relative humidity ($r = –0.721^*$), suggesting that lower humidity favoured its buildup. White grub and termite incidence showed non-significant positive correlations with humidity, rainfall, and rainy days, and negative correlations with maximum temperature and wind velocity. Leaf roller damage showed a highly significant negative correlation with wind speed ($r = –0.803^{**}$), indicating strong suppression under higher wind conditions, while all other

correlations were non-significant. Overall, only stem borer and leaf roller showed meaningful weather-dependent responses, while shoot fly and soil pests remained largely unaffected by climatic variability **(**Table-V.3r).

4. PMET-3: Survey of insect pests of *kharif* Pearl millet crop on farmer's field

With a view to examine the intensity of different insect pests of pearl millet on farmer's fields, a field survey was conducted by Jamnagar & Anand centre in Gujarat, Jaipur & Fatehpur-Shekhawati centre in Rajasthan, Aurangabad centre in Maharashtra and Hisar in Haryana (Table-V.4a-f).

Centre: Jamnagar

A survey of insect pests of pearl millet was conducted across multiple districts including Jamnagar, Morbi, Surendranagar, Patan, Banaskantha and Mehsana covering 27 farmer fields.

a. Shoot fly: Its incidence ranged from 2.0 to 12.0%, with a mean of 5.54%. Higher incidence (10–12%) was recorded in Banaskantha (Nilpur) and fodder bajra fields.

b. Stem borer: Damage ranged from 3.0 to 10.0%, with an average of 5.74%. Maximum incidence (10%) was recorded in Banaskantha and Patan districts.

c. Helicoverpa: Population ranged from 2 to 11 larvae/5 ear heads, with a mean of 5.81 larvae. Higher populations were observed in Mehsana (Jagudan, 11 larvae) and Banaskantha region.

d. Blister beetles: Population ranged from 0 to 3 beetles/5 ear heads, with a mean of 0.96, observed sporadically across locations.

e. Chaffer beetle: Population ranged from 0 to 20 beetles/5 ear heads, with a mean of 1.48. Severe infestation (20 beetles) was observed in Surendranagar district (Aaya).

f. Grasshopper: Damage ranged from 0 to 20%, with a mean of 7.74%, indicating moderate prevalence across districts.

g. Grey weevil: Damage score ranged from 0 to 4, with a mean of 2.35, indicating low to moderate infestation.

h. Leaf binder: Damage score ranged from 1 to 6, with an average of 2.48, showing moderate presence.

i. Natural enemies: Ladybird beetles ranged from 1 to 4/5 plants (mean 1.62) and Chrysopa from 0 to 3/5 plants (mean 1.18), indicating moderate biological control activity.

Centre: Anand

Survey conducted in Anand, Vadodara, and Kheda districts across 38 fields showed comparatively moderate pest pressure.

a. Shoot fly: Incidence ranged from 5.0 to 15.0%, with a mean of 8.2%. Higher incidence (15%) was recorded in Vadodara and Kheda districts.

b. Stem borer: Damage ranged from 2.0 to 20.0%, with a mean of 11.3%, indicating relatively higher pressure than Jamnagar.

c. White grub & termite: Both remained absent (0.0%) across all surveyed fields.

d. Helicoverpa: Population ranged from 0 to 4 larvae/5 ear heads, with a mean of 1.5 larvae, indicating low infestation.

e. Blister beetles & chaffer beetles: Both were absent across all locations.

f. Grasshopper: Damage ranged from 0 to 15%, with a mean of 4.9%, indicating moderate occurrence.
g. Grey weevil: Negligible (0.0 score) across all fields.
h. Leaf binder: Damage ranged from 1 to 3, with a mean of 1.6, indicating mild infestation.
i. FAW: Low incidence observed (0–5%), confined to few locations (Vadodara).
j. Natural enemies: Ladybird beetles (0–2/5 plants, mean 0.4) and Chrysopa (0–1, mean 0.1) were low.

Centre: Jaipur
Survey across Jaipur, Dausa, Karauli, Bharatpur, Alwar, Kotputli-Behror and Dholpur districts indicated diverse pest occurrence.
a. Shoot fly: Damage ranged from 0.0 to 12.0%, generally low to moderate across districts.
b. Stem borer: Range 0.0–25.0%, with highest incidence (25%) recorded in Bharatpur (Panhori).
c. White grub: Damage ranged from 0.0 to 20.0%, with higher incidence in Dausa district.
d. Termite: Damage ranged from 0.0 to 40.0%, with severe infestation in Alwar district (Kotkasim).
e. Helicoverpa: Population ranged from 0 to 17 larvae/5 ear heads, with higher populations in Jaipur (Viratnagar).
f. Blister beetles: Low occurrence (0–6/5 ear heads) at few locations.
g. Chaffer beetle: Range 0–11/5 ear heads, moderate occurrence across districts.
h. Grasshopper: Damage ranged from 0 to 50%, with severe infestation in Alwar (Semla Khurd).
i. Grey weevil: Negligible across all locations.
j. Leaf binder: Damage ranged from 0 to 6, with moderate presence in Dausa.
k. FAW: Not significant across surveyed fields.
l. Natural enemies: Very low abundance (near zero across locations).

Centre: Fatehpur Shekhawati
Survey conducted in Sikar district across multiple locations revealed high pest pressure.
a. Shoot fly: Incidence ranged from 10.0 to 40.0%, with a mean of 25.59%, indicating severe infestation.
b. Stem borer: Damage ranged from 0.0 to 15.0%, mean 8.68%.
c. White grub: Low incidence (0–10%).
d. Termite: Damage ranged from 0 to 19%, moderate occurrence.
e. Helicoverpa: Population ranged from 3 to 32 larvae/5 ear heads, with a mean of 21.03 larvae, indicating very high infestation.
f. Blister beetles: Range 0–9/5 ear heads, mean 3.29.
g. Chaffer beetle: Absent across locations.
h. Grasshopper: Negligible.
i. Grey weevil: Damage score 1–2, low.
j. Leaf binder: Damage score 1–3, moderate.
k. FAW: Negligible.
l. Natural enemies: Low to moderate (ladybird 0–2, Chrysopa 0–2).

Centre: Aurangabad
Survey in Chh. Sambhajinagar, Paithan, and Ambad regions showed moderate pest incidence.
a. Shoot fly: Incidence ranged from 0.0 to 10.0%.

b. Stem borer: Range 0.0–20.0%, with higher incidence in Paithan region.
c. Blister beetles: Low population (0.0–2.0/5 ear heads).
d. Chaffer beetle: Range 0.0–2.0/5 ear heads, low incidence.
e. FAW: Significant incidence ranging from 10.0 to 40.0%, indicating major pest status in this region.
f. Natural enemies: Ladybird beetles ranged from 0.0–1.0/5 plants, indicating low biological control.

Centre: Hissar

A field survey of insect pests of pearl millet was conducted across Haryana region (Hisar, Fatehabad, Sirsa and adjoining districts) covering multiple farmer fields during kharif season. The pest complex at this centre indicated moderate to high early-stage pest pressure with relatively lower ear-head pest incidence.
a. Shoot fly: Its incidence was observed in most of the fields, ranging from 5.0 to 25.0%, with a mean incidence of approximately 12–15%. Higher infestation (≥20%) was recorded in Hisar and Fatehabad districts at vegetative stage, particularly in local hybrids.
b. Stem borer: Damage ranged from 3.0 to 18.0%, with an average of 8–10%. The highest incidence (≈18%) was recorded in Sirsa district during mid-crop stage.
c. Fall armyworm (FAW): Its incidence ranged from 0.0 to 12.0%, with localized outbreaks in Hisar region (≥10%), indicating its emerging importance under Haryana conditions.
d. White grub: Damage was sporadic, ranging from 0.0 to 8.0%, observed mainly in sandy soils of Sirsa district.
e. Termite: Damage ranged from 2.0 to 15.0%, with mean incidence around 6–8%, particularly in moisture-stressed fields.
f. Helicoverpa: Larval population ranged from 0.0 to 6.0 larvae/5 ear heads, with an average of 2.0–3.0 larvae, indicating low to moderate ear-head infestation.
g. Grasshopper: Damage ranged from 0.0 to 12.0%, occurring in scattered patches across districts.
h. Grey weevil: Damage score ranged from 0 to 3, with a mean of 1.2–1.5, indicating low to moderate infestation.
i. Leaf binder: Damage score ranged from 1 to 4, with an average of 2.0, showing moderate presence.
j. Blister beetles: Population ranged from 0.0 to 3.0 beetles/5 ear heads, with low incidence across fields.
k. Chaffer beetle: Population ranged from 0.0 to 5.0 beetles/5 ear heads, observed sporadically.
l. Natural enemies:
Ladybird beetles: ranged from 0.0 to 3.0/5 plants (mean ≈1.2)
Chrysopa: ranged from 0.0 to 2.0/5 plants (mean ≈0.8) indicating moderate biological control activity.

Overall Insect Scenario in Pearl Millet: The inclusion of Hissar centre further strengthens the understanding of north-western agro-ecological pest dynamics in pearl millet.
Shoot fly dominance:
High in Fatehpur Shekhawati (up to 40%); Moderate-high in Hissar (up to 25%)
Moderate in Gujarat centres indicates strong adaptation to semi-arid northern plains
Stem borer pattern:

Moderate across all centres slightly higher in Anand and Hissar, suggests stable, ubiquitous pest presence
FAW scenario:
Highly dominant in Aurangabad (up to 40%); Moderate emergence in Hissar (up to 12%)
Negligible in Rajasthan/Gujarat, confirms geographically expanding pest front
Helicoverpa:
Extremely high in Sikar (>30 larvae/5 EH); Moderate in Jamnagar
Low–moderate in Hissar, strong location-specific outbreak behavior
Soil pests (termite, white grub):
Severe in Jaipur region, moderate in Hissar, linked to soil type and moisture stress
Natural enemies:
Moderate in Gujarat and Hissar; Low in Rajasthan, suggests scope for biological control enhancement
With Hissar included, three distinct pest ecologies emerge:
Arid: Rajasthan zone (Jaipur, Fatehpur)→ Severe shoot fly + Helicoverpa + grasshopper outbreaks
Semi-arid: Haryana zone (Hissar)→ Mixed pest complex (shoot fly + stem borer + emerging FAW + termites)
Western & Central India (Gujarat, Maharashtra)→ Moderate pest pressure with FAW hotspot in Maharashtra

The PMET-3 dataset, confirms that pearl millet pest dynamics are strongly region-specific and climate-driven. Shoot fly remains the primary early-stage pest across all zones. Stem borer shows stable, moderate incidence across environments. FAW is an emerging threat expanding northwards. Helicoverpa outbreaks are highly localized but severe when present. Natural enemy activity is insufficient to regulate pest outbreaks effectively
These findings highlight the need for region-specific IPM modules, hotspot-based resistance screening (Hissar & Sikar included), strengthening biological control systems, monitoring FAW expansion in northern India
The multi-location survey clearly demonstrates regional variability in pest complex structure and intensity.
Shoot fly and stem borer were ubiquitous across all centres but remained low to moderate in Gujarat (Jamnagar, Anand) and moderate in Aurangabad, while becoming severe in Rajasthan (Fatehpur Shekhawati).
Helicoverpa armigera emerged as a major ear-head pest, with extremely high populations in Sikar (>30 larvae/5 EH), whereas it remained low in Anand and moderate in Jamnagar.
Grasshopper outbreaks were localized but severe, particularly in Alwar (up to 50%), indicating sporadic outbreak behavior.
FAW showed region-specific dominance, being high in Aurangabad (up to 40%) but negligible in Rajasthan and Gujarat.
White grub and termite were significant only in Jaipur region, highlighting soil pest dominance in semi-arid zones.
Natural enemies were generally low across centres, suggesting limited biological suppression under field conditions.

Pest pressure was highest in arid and semi-arid regions (Rajasthan) due to favorable dry conditions
Gujarat region showed moderate, stable pest complex

FAW dominance in Maharashtra indicates emerging pest scenario
Helicoverpa severity is location-specific and linked to crop stage (ear head)
Low predator density suggests need for ecological intensification strategies

The PMET-3 survey indicates that pearl millet pest dynamics are highly location-specific, with shoot fly, stem borer, and Helicoverpa forming the core pest complex, supplemented by region-specific pests like FAW, grasshopper, termite, and white grub. The findings emphasize the importance of region-specific integrated pest management (IPM) strategies, multi-location screening, and strengthening biological control components for sustainable pest management.

5. **PMET-4: Management of insect-pest complex of pearl millet through seed treatment and foliar application of bio-pesticides.**

   The objective of this trial was to evaluate different foliar applications of bio-pesticides along with seed treatment against Insect-pest complex infesting pearl millet. Total eight combinations were evaluated, (Table V.5a-j) with control including standard check. This experiment was conducted at Jamnagar, Anand, Mandor-Jodhpur, Fatehpur-Shekhawati Jaipur and Aurangabad during 2025.

Centre: Jamnagar

(a) Shoot fly: Among the treatments, T8 (standard check: imidacloprid spray) recorded the lowest shoot fly incidence at ear head stage (9.56%), followed by T4 (10.99%) and T1 (11.80%), all statistically at par and significantly superior to untreated control (T9: 19.86%). At vegetative stage, minimum incidence was observed in T6 (9.04%) and T1 (9.13%), while T9 recorded highest (14.59%).
(b) Stem borer: The lowest stem borer incidence at ear head stage was recorded in T4 (9.35%), followed by T8 (10.21%), both significantly lower than control (T9: 18.19%). At vegetative stage, T1 and T4 (8.86%) recorded minimum incidence.
(c) Yield: The highest grain yield was recorded in T4 (3260 kg/ha), followed by T1 (3116 kg/ha) and T8 (2963 kg/ha), all significantly superior to T9 (1764 kg/ha). Similarly, fodder yield was highest in T4 (5313 kg/ha).
Inference: T4 (Beauveria-based dual spray) emerged as the best bio-intensive treatment, while T8 remained the best chemical standard.

Centre: Anand

(a) Shoot fly: The lowest shoot fly incidence was recorded in T3 (9.73% at both stages), significantly lower than T9 (30.40% at ear head stage).
(b) Stem borer: T3 again recorded minimum incidence (10.53%), while maximum was in T9 (29.76%).
(c) FAW: Minimum FAW damage was observed in T3 (10.53%), while T9 recorded highest (28.63%), confirming treatment effectiveness.
(d) Yield: The highest grain yield was recorded in T3 (2147 kg/ha) followed by T6 (1799 kg/ha), while T9 recorded lowest (1647 kg/ha).
Inference: Neem oil-based treatment (T3) was most effective under FAW-dominant conditions, outperforming other treatments.

Centre: Jodhpur
(a) Shoot fly: The lowest incidence at ear head stage was observed in T5 (0.50%), followed by T6 (0.67%), while T9 recorded highest (13.90%).
(b) Grasshopper: Minimum damage was recorded in T5 (2.67%), significantly lower than T9 (13.33%).
(c) Helicoverpa: After 7 days of spray, lowest larval population was recorded in T1 (10.67 larvae/20 EH) and T5 (10.67 larvae), while T9 recorded highest (47 larvae).
(d) Yield: The highest grain yield was recorded in T5 (3194 kg/ha) followed by T6 (3056 kg/ha), whereas T9 recorded lowest (2000 kg/ha).
(e) Economics:
Highest net return: T5 (Rs. 33,336/ha)
Highest ICBR: T4 (1:14.06), followed by T2 (1:12.50)
Best overall balance: T5 (high yield + good returns)
Inference: Azadirachtin-based treatment (T5) was most productive, while T4 showed highest cost efficiency.

Centre: Fatehpur-Shekhawati
(a) Shoot fly: The lowest ear head incidence was recorded in T8 (5.00%), followed by T7 (6.67%), compared to T9 (30.00%).
(b) Stem borer: Minimum incidence at ear head stage was recorded in T8 (8.33%), significantly lower than T9 (28.33%).
(c) Helicoverpa: After 7 days of spray, lowest larval population was observed in T4 (2.67 larvae/20 EH), followed by T5 (3.00), whereas T9 recorded highest (17.33 larvae).
(d) Yield & Economics:
Highest grain yield: T8 (2889 kg/ha)
Highest net return: T8 (Rs. 28,136/ha)
Highest ICBR: T8 (1:30.31), followed by T4 (1:16.00)
Inference: T8 (chemical standard) was economically most efficient, while T4 showed strong bio-efficacy.

Centre: Jaipur
(a) Shoot fly: Minimum incidence at ear head stage was recorded in T1 and T3 (15.0%), while T9 recorded highest (35.0%).
(b) Stem borer: Lowest incidence was observed in T3 (5.0%), while T9 recorded highest (25.0%).
(c) FAW: Negligible across treatments (0.0–1.0%).
(d) Helicoverpa: After 7 days of spray, lowest larval population was recorded in T4 (1.67 larvae/5 EH), whereas T9 recorded highest (7.67 larvae).
(e) Economics:
Highest net return: T4 (Rs. 20,477/ha)
Highest ICBR: T4 (1:13.72), followed by T8 (1:8.18)
Inference: T4 (Beauveria-based) was most effective and economical under Rajasthan conditions.

Centre: Aurangabad
(a) Shoot fly: Lowest incidence was recorded in T3 (13.30%), while highest in T9 (31.95%).
(b) Stem borer: Minimum incidence was recorded in T3 (12.60%), compared to T9 (32.40%).

(c) FAW: Lowest incidence was observed in T3 (11.34%), whereas T9 recorded highest (28.05%), confirming strong FAW suppression.
(d) Yield: The highest grain yield was recorded in T3 (2150 kg/ha), followed by T7 (1950 kg/ha), while T9 recorded lowest (1650 kg/ha).
Inference: T3 (Neem oil-based) was most effective under FAW-dominated ecosystem.

Overall Comparative Analysis (Across Centres)
Best Treatments Across Centres
T4 (Beauveria-based): Best bio-intensive treatment (Jamnagar, Jaipur, Fatehpur)
T5 (Azadirachtin-based): Highest yield performer (Jodhpur)
T3 (Neem oil-based): Best under FAW pressure (Anand, Aurangabad)
T8 (Standard check): Highest ICBR and economic efficiency
Yield Comparison
Maximum grain yield:
Jodhpur (T5): 3194 kg/ha
Jamnagar (T4): 3260 kg/ha
Fatehpur (T8): 2889 kg/ha
Untreated control consistently lowest (≈1600–2000 kg/ha)
Yield advantage ranged from 30–80% over control

Economic Analysis
Highest ICBR: T8 (1:30.31)
Highest net return: T5 (Rs. 33,336/ha)
Best bio-treatment: T4 (ICBR up to 1:16.0)

Final Critical Inference
The PMET-4 results clearly demonstrate that:
Integrated treatments (seed treatment + biopesticide spray) significantly reduce pest incidence
Bio-pesticides (Beauveria, Azadirachtin, Neem oil) are highly effective and comparable to chemical standard
T4 provides stable multi-pest suppression, while
T8 offers highest economic returns
Treatment performance is environment-specific, especially under FAW pressure
Overall, integrated pest management combining seed treatment + bio-pesticide sprays provides sustainable, cost-effective pest control in pearl millet, with T4 and T5 emerging as most promising eco-friendly options.

6. PMET-5: Management of ear head worm, *Helicoverpa armigera* in pearl millet through chemical insecticides.

The objective of this trial was to evaluate different chemicals against *Helicoverpa* infesting pearl millet. Total nine chemicals were evaluated, (Table V.6 a, b) with control. This experiment was conducted at Jamnagar, Mandor-Jodhpur and Fatehpur-Shekhawati during 2025.

Centre: Fatehpur-Shekhawati

(a) Ear head worm (*Helicoverpa armigera*) population: The pre-treatment larval population (24 hrs before spray) was found to be non-significant, ranging from 45.33 to 48.00 larvae per 20 ear heads across treatments, indicating uniform pest pressure before application. At 24 hours after spray, a significant reduction in larval population was observed, with T5 (Emamectin benzoate 0.002%) recording the lowest population (16.33 larvae/20 ear heads), which was statistically at par with T3 (Spinosad 0.009%, 18.67 larvae), T4 (Indoxacarb 0.006%, 19.33 larvae), and T6 (Chlorantraniprole 0.006%, 19.33 larvae). In contrast, the highest larval population was recorded in T10 (untreated control: 51.67 larvae/20 ear heads).

At 3 days after spray, the treatments showed a pronounced decline in larval population, with T5 recording the lowest population (1.67 larvae/20 ear heads), followed by T3 (3.67 larvae), T4 (4.00 larvae), and T6 (4.33 larvae), all significantly superior to T10 (54.00 larvae/20 ear heads).

At 7 days after spray, T5 achieved complete control (0.00 larvae/20 ear heads) and was at par with T3 (0.33 larvae) and T4 (0.67 larvae), indicating sustained efficacy. The untreated control (T10) recorded the highest population (61.67 larvae/20 ear heads), confirming severe infestation under no protection.

Overall, T5 (Emamectin benzoate) demonstrated the highest efficacy with rapid and sustained suppression, followed by Spinosad (T3) and Indoxacarb (T4).

(b) Yield: The highest grain yield was recorded in T5 (2667 kg/ha), which was statistically at par with T3 (2500 kg/ha), T4 (2472 kg/ha), and T6 (2417 kg/ha). The untreated control (T10) recorded the lowest yield (2111 kg/ha), indicating a substantial yield advantage due to pest management.

Fodder yield differences were non-significant, although the highest fodder yield was recorded in T5 (5569 kg/ha) followed by T3 (5567 kg/ha) and T1 (5556 kg/ha).

(c) Economics: Economic analysis revealed that T5 (Emamectin benzoate 0.002%) recorded the highest additional income (Rs. 12,696/ha) and maximum net return (Rs. 11,596/ha). It also recorded the highest incremental cost-benefit ratio (ICBR: 1:11.54), indicating superior economic viability.

Among other treatments, T7 (Lambda-cyhalothrin) showed relatively high ICBR (1:9.69), followed by T4 (1:7.59) and T1 (1:7.37). In contrast, T2 and T9 recorded lower economic returns, while untreated control (T10) showed no economic gain.

Overall Inference

The results clearly indicate that Emamectin benzoate (T5) was the most effective treatment against *Helicoverpa armigera*, providing rapid knockdown and sustained control up to 7 days after spray. This translated into maximum grain yield and highest economic returns, making it the most profitable option. Spinosad (T3) and Indoxacarb (T4)also performed well, offering effective control and competitive yields. The untreated control recorded consistently high pest population and lowest yield, emphasizing the necessity of timely intervention.
Overall, the study demonstrates that targeted insecticidal interventions, particularly Emamectin benzoate, are highly effective and economically viable for managing ear head worm in pearl millet under field conditions.

7. PMET 6: Survey of insect- pests of summer pearl millet on farmers' fields.

Centre: Jamnagar
A total of 35 farmer fields were surveyed across Jamnagar and Banaskantha districts during summer 2025 to assess insect pest incidence in pearl millet. The crop was predominantly at ear head stage, and the overall pest incidence was low to moderate.
a. Shoot fly: The shoot fly incidence ranged from 0.0 to 3.0%, with an overall mean of 1.50%. The infestation was generally low across all surveyed locations, with slightly higher incidence (up to 3.0%) observed in fields of Rasangpar, Hadiana, and Chekhla. District-wise, Banaskantha (Kankrej block) recorded relatively higher mean incidence (2.20%) compared to Jamnagar blocks.
b. Stem borer: The stem borer incidence ranged from 0.0 to 3.0%, with a mean of 1.10%. The pest was sporadically distributed, with slightly higher incidence (3.0%) recorded in locations such as Ramun and Bhildi (Deesa block). Overall, infestation remained low and scattered across fields.
c. *Helicoverpa armigera*: The larval population ranged from 0.0 to 4.0 larvae per 5 ear heads, with an average of 1.91 larvae/5 ear heads. Higher infestation levels (3–4 larvae) were observed in Goga deri, Lodpa, Bhildi, and Ramun, indicating localized ear head pest activity.
d. Fall armyworm (FAW): No incidence of FAW was observed across all surveyed fields (0.0%), indicating its absence during the summer season in this region.
e. Grey weevil: The damage score ranged from 0.0 to 2.0, with an average of 0.59, indicating low to moderate infestation. Occasional higher scores (2.0) were recorded in locations such as Modpar, Chavda, and Deesa, but overall damage remained minimal.

Centre: Anand
A total of 32 farmer fields were surveyed across Anand district and surrounding blocks. The crop was at ear head stage, and pest incidence ranged from low to moderate levels.
a. Shoot fly: The shoot fly incidence ranged from 0.0 to 15.0%, with a mean of 7.3%. The highest incidence (15%) was recorded in locations such as Dedarda, Bharoda, and Piplav, particularly in local/desi varieties, indicating moderate pest pressure.
b. Stem borer: The stem borer incidence ranged from 0.0 to 15.0%, with an average of 9.5%. Higher incidence was observed in Borsad and Umreth blocks, indicating moderate infestation across several fields.
c. White grub and termite: Both pests were absent (0.0%) across all surveyed fields, indicating no soil pest pressure during the season.
d. *Helicoverpa armigera*: The larval population ranged from 0.0 to 3.0 larvae per 5 ear heads, with an average of 1.2 larvae, indicating low to moderate infestation.

e. Blister beetles and chaffer beetles: Both were absent (0.0 population) across all locations, suggesting negligible ear head damage from these pests.
f. Grasshopper: The damage ranged from 0.0 to 10.0%, with a mean of 4.4%, indicating moderate presence in some fields, particularly in Borsad and Umreth regions.
g. Grey weevil: No significant damage was observed (0.0 score across all fields), indicating absence of this pest.
h. Leaf binder: The damage score ranged from 0.0 to 3.0, with an average of 1.5, indicating mild to moderate infestation.
i. Fall armyworm (FAW): Very low incidence was observed (0.0–5.0%, mean 0.2%), restricted to a few locations, indicating minimal impact.
j. Natural enemies:
Ladybird beetles: ranged from 0.0 to 2.0 per 5 plants, mean 0.6
Chrysopa: ranged from 0.0 to 1.0 per 5 plants, mean 0.1 indicating low to moderate biological control activity.

Overall Insect Scenario (Critical Analysis)
The PMET-6 survey clearly indicates that summer pearl millet experienced relatively low pest pressure compared to kharif season, with notable regional variation:
Jamnagar region showed very low pest incidence, with all major pests (shoot fly, stem borer, Helicoverpa) remaining within low ranges, and complete absence of FAW.
Anand region exhibited moderate pest pressure, particularly for shoot fly and stem borer (up to 15%), indicating more favorable conditions for pest buildup.
Helicoverpa armigera was present in both centres but remained low to moderate, with localized hotspots in Jamnagar and Anand.
FAW was largely absent, suggesting seasonal limitation of this pest in summer cropping systems.
Soil pests (white grub, termite) were negligible, indicating minimal below-ground pest pressure.
Natural enemies were present but in low densities, suggesting limited biological regulation under summer conditions.
Key Inferences
Pest incidence was generally lower in summer due to high temperature and dry conditions, which are less favorable for pest multiplication.
Localized hotspots of Helicoverpa and stem borer indicate need for targeted monitoring rather than blanket control.
Anand region requires relatively more attention due to higher incidence levels.
The absence of FAW and soil pests suggests that summer pearl millet is comparatively less vulnerable to major pest outbreaks.

Conclusion
The PMET-6 survey demonstrates that summer pearl millet is subjected to low to moderate insect pest pressure, with shoot fly, stem borer, and Helicoverpa as the principal pests, while FAW and soil pests remain negligible. The findings highlight the importance of location-specific monitoring and need-based pest management, rather than intensive pesticide use, under summer cultivation conditions.

8. PMET-8: Relative susceptibility of pearl millet advanced entries to storage insect pests.

Centre: Jamnagar (*Tribolium castaneum*)

A total of 49 advanced pearl millet entries were screened under laboratory conditions against red flour beetle (*Tribolium castaneum*) during kharif 2023–24.

Grain damage: At 3 months storage, grain damage ranged from 0.50 to 2.13%, with relatively lower damage observed in entries such as MH 2746, MH 2748, MH 2709, MH 2795, HHB 67 Imp., PB 1756, and RHB 223 (≈0.50%), indicating higher tolerance. The highest damage (2.13%) was recorded in KBH 108 and MP 7878. At 6 months, grain damage increased substantially, ranging from 1.13 to 18.63%, with minimum damage in MH 2748 and MH 2795 (≈1.13%), while Dhanshakti (18.63%), KBH 108 (16.13%), and Pratap (14.88%) recorded maximum susceptibility.

Adult population: At 3 months, adult population ranged from 5.0 to 48.5 adults/100 g, with lowest population in 86M86 (5.0) and 86M01 (6.0), while MH 2712 (48.5) recorded highest. At 6 months, population increased sharply (35.0 to 240.0 adults/100 g), with minimum in MH 2767 (35.0) and maximum in MH 2712 (240.0).

Weight loss: At 3 months, weight loss ranged from 2.00 to 8.00%, with minimum in 86M01 (2.00%) and MH 2743 (2.25%), while highest was observed in NBH 4903 and Pusa Comp. 383 (8.00%). At 6 months, weight loss ranged from 3.00 to 21.50%, with minimum in MH 2717 (3.00%), while MH 2712 (21.50%) and NBH 4903 (19.50%)recorded highest losses.

Germination: Germination at 6 months ranged from 82.0 to 98.0%, with highest in 86M86 (98.0%), Dhanshakti (98.0%), and 86M84 (97.5%), while lowest was observed in NBH 4903 (82.0%) and Pratap (86.0%).

Conclusion: Based on lower grain damage, reduced adult emergence, lower weight loss, and higher germination, entries such as MH 2748, MH 2795, MH 2746, 86M86, 86M84, and MH 2767 were found relatively tolerant/resistant, while MH 2712, Dhanshakti, KBH 108, and NBH 4903 were identified as highly susceptible.

Centre: Anand (*Rhyzopertha dominica*)

The same set of entries was evaluated against lesser grain borer (*Rhyzopertha dominica*) under storage conditions.

Adult population: At 3 months, adult population ranged from ~2.50 to 8.00 adults/250 g, while at 6 months, it increased markedly to ~4.80 to 18.50 adults/250 g, indicating progressive infestation during storage.

Grain damage: At 3 months, grain damage ranged from 2.70 to 7.40%, increasing to 4.75 to 20.00% at 6 months. Lower damage was recorded in entries such as PET 207, PET 209, and PET 226, whereas higher damage was recorded in PET 240 and PET 242 (≈19–20%).

Weight loss: Weight loss ranged from ~5.90 to 14.50% (3 months) and ~3.90 to 31.60% (6 months). Maximum weight loss was observed in PET 240 (31.60%), followed by PET 224 and PET 230 (>23%).

Germination: Germination ranged from 82.8 to 94.2%, with relatively higher germination maintained in PET 210, PET 227, and PET 246 (~94%), while lower germination (~82–85%) was recorded in highly damaged entries.

Conclusion: Entries such as PET 207, PET 209, PET 210, PET 226, and PET 227 exhibited comparatively lower susceptibility, whereas PET 240, PET 242, and PET 224 were highly susceptible due to higher grain damage and weight loss.

Centre: Jodhpur (*Rhyzopertha dominica*)
The entries were evaluated against *Rhyzopertha dominica* under arid storage conditions.
Grain damage: At 3 months, grain damage ranged from 1.13 to 30.00%, while at 6 months, it increased to 8.40 to 72.50%, indicating severe infestation under prolonged storage. Minimum damage was recorded in MH 2795 (1.13%), whereas AHB 1200 (30.00%) and MH 2796 (28.50%) recorded highest.
Adult population: Adult population ranged from 5.00 to 181.00 adults/100 g (3 months) and increased to 25.00 to 344.50 adults/100 g (6 months), with Pratap and NBH 4903 showing maximum infestation.
Weight loss: Weight loss ranged from 0.75 to 6.75% (3 months) and 3.00 to 52.00% (6 months). The highest loss was recorded in AHB 1200 (52.00%), followed by MH 2675 (43.50%).
Germination: Germination ranged from 48.5 to 98.5%, with highest in MP 637 (98.5%) and MH 2749 (96.5%), while lowest was observed in AHB 1200 (48.5%) and Pratap (61.5%).
Conclusion: Entries such as MH 2795, MH 2749, MP 637, and MH 2797 were relatively resistant, whereas AHB 1200, Pratap, MH 2675, and NBH 4903 were highly susceptible under arid storage conditions.

Centre: Anantapur (*Rhyzopertha dominica*)
Under semi-arid tropical conditions, storage pest damage was relatively severe.
Seed damage: At 3 months, seed damage ranged from 14.5 to 80.0 seeds/100 seeds, increasing to 23.5 to 86.0 seeds at 6 months, indicating substantial deterioration during storage.
Adult population: Adult population ranged from 162 to 425 adults/100 g (3 months) and increased to 280 to 630 adults/100 g (6 months), reflecting rapid multiplication.
Weight loss: Weight loss ranged from 2.8 to 18.5% (3 months) and 9.98 to 28.0% (6 months). Highest loss was observed in entries with high infestation levels.
Germination: Germination declined sharply, ranging from 5.5 to 45.2%, indicating severe seed viability loss under heavy infestation.
Seed damage: Increased from 14.5–80.0 (3M) to 23.5–86.0 (6M). Adult population: Extremely high (280–630 adults/100 g at 6M). Weight loss: 9.98–28.0% at 6M. Germination: Severely reduced (5.5–45.2%).
Best entries (Anantapur): Entries with relatively lower damage and better germination include Entry 25, Entry 29, Entry 35, Entry 46(moderate tolerance group)
Highly susceptible entries: Entries with very high damage and low germination (<15%)
Inference:
Anantapur conditions revealed maximum expression of susceptibility, making it an ideal hotspot for screening storage resistance.

Conclusion: Overall, storage losses were highest in Anantapur, indicating strong pest pressure under tropical conditions. Only a few entries maintained moderate germination (>40%), while most showed severe deterioration.

Centre: Jaipur (*Rhyzopertha dominica*)
The entries were evaluated under north-western dry conditions.
Adult population: Adult population ranged from 27.5 to 89.0 (3 months) and 105.5 to 201.0 (6 months), indicating moderate to high infestation.

Grain damage: Grain damage ranged from 0.50 to 8.00% (3 months) and increased to 2.63 to 26.50% (6 months). Lowest damage was recorded in MH 2795 and 86M84, while highest was in MH 2743 (26.50%) and MH 2796 (25.63%).
Weight loss: Weight loss ranged from 1.40 to 14.30% (3 months) and 3.70 to 36.81% (6 months), with maximum loss in MH 2797 (36.81%) and MH 2777 (35.91%).
Germination: Germination ranged from 53.50 to 92.50%, with highest in MH 2808 (92.50%) and Pratap (90.50%), while lowest in highly damaged entries (MH 2797, MH 2743 ~53–56%).
Conclusion: Entries such as MH 2795, MH 2808, MH 2709, and Pratap showed better tolerance, while MH 2743, MH 2797, and MH 2796 were highly susceptible.

Overall Conclusion (Across Centres)
Storage duration significantly increased grain damage, insect population, and weight loss, while reducing germination.
Rhyzopertha dominica caused more severe damage than Tribolium, particularly in Jodhpur and Anantapur conditions.
Entries such as MH 2795, MH 2748, MH 2746, 86M86, 86M84, and MH 2749 consistently performed better across locations.
Entries such as AHB 1200, MH 2712, NBH 4903, Dhanshakti, and MH 2796 were consistently susceptible.
Overall, the study identifies stable storage-tolerant genotypes, which can be utilized in breeding programs for post-harvest pest resistance in pearl millet.

9. PMET-9: Monitoring of Fall Army worm (*Spodoptera frugiperda*) in *Kharif* pearl millet.

Centres: Jamnagar, Hisar & Aurangabad, Jodhpur.

Centre: Jamnagar
The data presented indicate that FAW moth activity was completely absent throughout the crop period. Adult moth catches recorded from 27th to 38th SMW (7–84 DAG) remained zero (0.0 adults/trap) across all observation dates. Correspondingly, no larval incidence or plant damage was observed (0.0%) during the entire crop season.
Weather conditions during this period were characterized by high rainfall (up to 105 mm), high relative humidity (82–94%), and moderate temperatures (~30–33°C), which likely contributed to suppression of FAW activity.
Inference: Jamnagar recorded complete absence of FAW, indicating either non-establishment of pest population or strong environmental suppression, making this location non-conducive for FAW development during the season.

Centre: Aurangabad
The data indicate continuous and high FAW activity throughout the crop growth period (32nd to 42nd SMW; 35–105 DAG). Adult moth catches ranged from 22 to 90 moths/trap/week, with peak catches (90 moths) recorded during 37th SMW (70 DAG).

The larval population ranged from 0 to 7 larvae per 20 plants, with maximum infestation (7 larvae/20 plants) recorded during 38th SMW (77 DAG).
Correspondingly, plant damage ranged from 10.0 to 22.0%, with highest damage (22.0%) observed at 39th SMW (84 DAG). Damage remained consistently above 10% throughout the crop period, indicating sustained pest pressure.
Inference: Aurangabad represents a high FAW hotspot, with strong synchronization between adult moth activity, larval build-up, and crop damage, particularly during reproductive stages (56–84 DAG).

Centre: Hisar
The data indicate intermittent FAW activity during early crop stages, particularly between 29th to 32nd SMW (14–35 DAG). Adult moth catches ranged from 0.0 to 8.4 moths/trap, with peak catches (8.4 moths) recorded during 31st SMW (28 DAG).
The larval population ranged from 0 to 9 larvae per 20 plants, with maximum infestation (9 larvae/20 plants) observed during 31st SMW, coinciding with peak moth activity.
The plant damage ranged from 0.0 to 10.0%, with highest damage (10.0%) recorded at 32nd SMW (35 DAG). After 42 DAG, both larval population and damage declined to zero, indicating a short infestation window.
Mean values indicate low overall pest pressure (adult catch: ~1.76, larvae: ~2.0, damage: ~1.8%).
Inference: FAW occurrence at Hisar was early-season and transient, with pest population declining rapidly, suggesting partial establishment but poor persistence under prevailing conditions.

Centre: Jodhpur (Mandor)
The data indicate that no adult moth catches were recorded throughout the crop period (0.0 adults/trap). However, larval infestation was observed during mid-crop stage, particularly between 36th and 37th SMW (49–56 DAG).
The larval population ranged from 0 to 8 larvae per 20 plants, with peak infestation (8 larvae/20 plants) recorded during 37th SMW (56 DAG).
Correspondingly, plant damage ranged from 0.0 to 2.0%, indicating low level infestation despite larval presence. After this period, both larval population and damage declined to zero.
Inference: Jodhpur represents a unique case of larval presence without detectable adult catches, possibly due to migration or localized oviposition, with low overall damage and limited pest establishment.

Overall FAW Scenario (Critical Analysis Across Centres)
The PMET-8 data clearly demonstrate strong regional variability in FAW dynamics:
Aurangabad: High and sustained FAW pressure. Adult catches (22–90), larvae (0–7), damage (10–22%). True FAW hotspot
Hisar: Moderate, early-stage infestation. Adult catches (0–8.4), larvae (0–9), damage (0–10%). Transient pest occurrence
Jodhpur: Larval presence without adult detection. Larvae (0–8), damage (0–2%) Localized infestation
Jamnagar: Complete absence of FAW. Adults (0), larvae (0), damage (0%). Non-conducive environment

Key Ecological Insights

FAW incidence is highly environment-dependent, with humid tropical conditions (Aurangabad) favoring pest buildup.
Early crop stage (20–40 DAG) is critical for FAW establishment (Hisar pattern)
Adult moth catches strongly correlate with larval population and damage, except in Jodhpur
Rainfall and humidity may suppress FAW in some regions (Jamnagar)
Pest shows patchy and migratory behavior, leading to regional hotspots

Conclusion

The PMET-8 study highlights that FAW is not uniformly distributed across pearl millet ecosystems, but instead exhibits location-specific outbreak patterns. While Aurangabad emerges as a major FAW hotspot, regions like Jamnagar remain free from infestation, and Hisar and Jodhpur show limited or transient pest activity.
These findings emphasize the need for:
Region-specific FAW monitoring and forecasting systems
Early-stage surveillance (pheromone traps)
Targeted intervention strategies rather than blanket control

Table - V.1a: (PMET-1A) Screening of pearl millet lines against major insect pests (Initial entries/populations).

Sr.No.	Entry no.	Name of Entry	Shoot fly % Incidence At Veg. stage (28 DAG)				Shoot fly % Incidence At Ear head stage				Stem borer % Incidence At Veg. stage (28 DAG)				Stem borer Incidence At Ear head stage			
			JAM	JP	FPS	Mean	JAM	JP	FPS	Mean	JAM	JP	FPS	Mean	JAM	JP	FPS	Mean
1	PIT 101	MH 2811	4.29	9.62	13.75	**9.22**	0.00	19.23	21.25	**13.49**	8.57	3.85	4.46	**5.63**	8.57	11.69	16.25	**12.17**
2	PIT 102	MH 2812	2.86	3.93	11.25	**6.01**	2.50	13.46	18.75	**11.57**	2.86	3.93	4.46	**3.75**	2.86	15.39	8.75	**9.00**
3	PIT 103	MH 2813	1.43	5.77	16.25	**7.82**	5.00	19.23	15.00	**13.08**	4.29	3.85	4.46	**4.20**	4.29	10.12	8.75	**7.72**
4	PIT 104	MH 2814	5.71	7.77	11.25	**8.24**	0.00	14.00	20.00	**11.33**	5.71	4.01	8.93	**6.22**	5.71	11.86	18.75	**12.11**
5	PIT 105	MH 2815	4.29	7.85	6.25	**6.13**	5.00	11.54	17.50	**11.35**	7.14	3.93	4.46	**5.18**	7.14	11.86	15.00	**11.33**
6	PIT 106	MH 2816	5.71	5.77	6.25	**5.91**	0.00	11.54	16.25	**9.26**	5.71	5.77	13.39	**8.29**	5.71	12.02	13.75	**10.49**
7	PIT 107	MH 2817	2.86	3.93	10.00	**5.60**	2.50	13.46	17.50	**11.15**	5.71	4.01	13.39	**7.70**	5.71	13.77	18.75	**12.74**
8	PIT 108	MH 2818	1.43	3.92	13.75	**6.37**	2.50	11.54	17.50	**10.51**	12.86	0.00	13.39	**8.75**	12.86	6.00	7.50	**8.79**
9	PIT 109	MH 2819	4.29	3.85	12.50	**6.88**	0.00	9.62	17.50	**9.04**	8.57	1.93	4.46	**4.99**	8.57	5.77	15.00	**9.78**
10	PIT 110	MH 2820	2.86	5.77	18.75	**9.13**	2.50	19.23	15.00	**12.24**	1.43	0.00	0.00	**0.48**	1.43	1.93	25.00	**9.45**
11	PIT 111	MH 2821	4.29	7.69	13.75	**8.58**	0.00	19.23	18.75	**12.66**	7.14	0.00	0.00	**2.38**	7.14	3.93	18.75	**9.94**
12	PIT 112	MH 2822	2.86	7.85	13.75	**8.15**	2.50	19.23	15.00	**12.24**	5.71	0.00	0.00	**1.90**	5.71	3.93	5.00	**4.88**
13	PIT 113	MH 2823	5.71	2.00	11.25	**6.32**	0.00	11.54	10.00	**7.18**	5.71	1.93	4.46	**4.03**	5.71	3.93	3.75	**4.46**
14	PIT 114	MH 2824	2.86	5.85	8.75	**5.82**	5.00	13.46	12.50	**10.32**	1.43	1.93	0.00	**1.12**	1.43	5.93	10.00	**5.79**
15	PIT 115	MH 2825	4.29	3.92	6.25	**4.82**	0.00	15.38	16.25	**10.54**	8.57	1.93	0.00	**3.50**	8.57	5.77	16.25	**10.20**
16	PIT 116	MH 2826	8.57	8.01	10.00	**8.86**	0.00	13.46	13.75	**9.07**	2.86	1.93	4.46	**3.08**	2.86	8.20	16.25	**9.10**
17	PIT 117	MH 2827	8.57	7.77	16.25	**10.86**	0.00	9.62	18.75	**9.46**	1.43	1.93	0.00	**1.12**	1.43	9.77	22.5	**11.23**
18	PIT 118	MH 2828	2.86	4.08	5.00	**3.98**	5.00	8.33	13.75	**9.03**	5.71	0.00	0.00	**1.90**	5.71	1.93	6.25	**4.63**
19	PIT 119	MH 2829	4.29	5.85	10.00	**6.71**	2.50	8.52	10.00	**7.01**	4.29	1.93	4.46	**3.56**	4.29	7.70	3.75	**5.25**
20	PIT 120	MH 2830	5.71	1.93	1.25	**2.96**	0.00	1.93	11.25	**4.39**	5.71	1.93	0.00	**2.55**	5.71	0.00	7.50	**4.40**
21	PIT 121	MH 2831	2.86	9.62	15.00	**9.16**	0.00	17.31	20.00	**12.44**	2.86	0.00	0.00	**0.95**	2.86	6.08	6.25	**5.06**
22	PIT 122	MH 2832	5.71	3.92	11.25	**6.96**	5.00	15.38	10.00	**10.13**	2.86	1.93	4.46	**3.08**	2.86	9.77	3.75	**5.46**
23	PIT 123	MH 2833	7.14	1.93	1.25	**3.44**	0.00	2.00	12.50	**4.83**	5.71	1.93	0.00	**2.55**	5.71	4.08	2.50	**4.10**
24	PIT 124	MH 2834	2.86	5.77	5.00	**4.54**	0.00	13.46	17.50	**10.32**	7.14	1.93	4.46	**4.51**	7.14	6.35	7.50	**7.00**
25	PIT 125	MH 2835	2.86	0.00	1.25	**1.37**	5.00	1.93	13.75	**6.89**	2.86	0.00	0.00	**0.95**	2.86	0.00	5.00	**2.62**
26	PIT 126	MH 2836	5.71	11.69	6.25	**7.88**	0.00	25.00	13.75	**12.92**	5.71	1.93	4.46	**4.03**	5.71	11.85	12.50	**10.02**
27	PIT 127	MH 2837	7.14	3.92	8.75	**6.60**	0.00	9.77	12.50	**7.42**	4.29	3.93	4.46	**4.23**	4.29	12.17	7.50	**7.99**
28	PIT 128	MH 2838	2.86	11.54	6.25	**6.88**	15.00	15.38	10.00	**13.46**	2.86	3.85	4.46	**3.72**	2.86	8.20	2.50	**4.52**
29	PIT 129	MH 2839	5.71	11.69	6.25	**7.88**	0.00	15.38	15.00	**10.13**	2.86	1.93	4.46	**3.08**	2.86	1.93	5.00	**3.26**
30	PIT 130	MH 2840	4.29	7.85	8.75	**6.96**	5.00	21.15	12.50	**12.88**	7.14	2.00	8.93	**6.02**	7.14	6.08	2.50	**5.24**
31	PIT 131	MH 2841	5.71	7.85	7.50	**7.02**	0.00	13.46	13.75	**9.07**	8.57	0.00	0.00	**2.86**	8.57	1.93	7.50	**6.00**
32	PIT 132	MH 2842	2.86	3.93	11.25	**6.01**	5.00	8.35	15.00	**9.45**	8.57	0.00	0.00	**2.86**	8.57	5.85	7.50	**7.31**
33	PIT 133	MH 2843	5.71	3.92	11.25	**6.96**	0.00	9.62	15.00	**8.21**	8.57	1.93	8.93	**6.48**	8.57	3.93	5.00	**5.83**
34	PIT 134	MH 2844	5.71	5.77	10.00	**7.16**	0.00	11.54	17.50	**9.68**	8.57	3.93	8.93	**7.14**	8.57	3.93	20.00	**10.83**
35	PIT 135	MH 2845	5.71	5.77	13.75	**8.41**	5.00	13.46	13.75	**10.74**	8.57	3.93	8.93	**7.14**	8.57	5.93	11.25	**8.58**
36	PIT 136	MH 2846	5.71	3.85	16.25	**8.60**	0.00	15.38	15.00	**10.13**	8.57	0.00	0.00	**2.86**	8.57	6.00	11.25	**8.61**
37	PIT 137	MH 2847	2.86	9.62	17.50	**9.99**	0.00	11.54	12.50	**8.01**	7.14	0.00	0.00	**2.38**	7.14	6.00	8.75	**7.30**
38	PIT 138	MH 2848	1.43	5.93	21.25	**9.54**	7.50	13.46	16.25	**12.40**	2.86	0.00	0.00	**0.95**	2.86	1.93	10.00	**4.93**
39	PIT 139	MH 2849	0.00	3.85	8.75	**4.20**	0.00	11.54	11.25	**7.60**	2.86	0.00	0.00	**0.95**	2.86	1.93	7.50	**4.10**
40	PIT 140	MH 2850	5.71	5.85	6.25	**5.94**	0.00	11.54	16.25	**9.26**	0.00	0.00	0.00	**0.00**	0.00	1.93	6.25	**2.73**

41	PIT 141	MH 2851	2.86	3.92	7.50	**4.76**	2.50	13.46	9.38	**8.45**	1.43	0.00	0.00	**0.48**	1.43	1.93	6.25	**3.20**
42	PIT 142	MH 2852	0.00	3.92	7.50	**3.81**	2.50	9.62	13.75	**8.62**	0.00	0.00	0.00	**0.00**	0.00	1.93	7.50	**3.14**
43	PIT 143	MH 2853	1.43	3.92	8.75	**4.70**	0.00	9.62	16.25	**8.62**	2.86	1.93	0.00	**1.60**	2.86	4.01	11.25	**6.04**
44	PIT 144	MH 2854	8.57	4.00	11.25	**7.94**	0.00	11.54	13.75	**8.43**	5.71	1.93	4.46	**4.03**	5.71	8.20	11.25	**8.39**
45	PIT 145	MH 2855	7.14	3.85	13.75	**8.25**	5.00	8.20	12.50	**8.57**	7.14	0.00	0.00	**2.38**	7.14	1.93	7.50	**5.52**
46	PIT 146	MH 2856	8.57	5.85	13.75	**9.39**	0.00	15.38	13.75	**9.71**	2.86	0.00	0.00	**0.95**	2.86	1.93	6.25	**3.68**
47	PIT 147	MH 2857	5.71	5.93	13.75	**8.46**	2.50	16.67	16.25	**11.81**	1.43	0.00	0.00	**0.48**	1.43	6.09	6.25	**4.59**
48	PIT 148	MH 2858	2.86	3.92	16.25	**7.68**	2.50	16.67	12.50	**10.56**	2.86	0.00	0.00	**0.95**	2.86	5.93	11.25	**6.68**
49	PIT 149	MH 2859	0.00	4.09	11.25	**5.11**	0.00	21.62	12.50	**11.37**	0.00	2.08	4.46	**2.18**	0.00	5.93	5.00	**3.64**
50	PIT 150	MH 2860	7.14	5.77	13.75	**8.89**	0.00	8.33	10.00	**6.11**	0.00	0.00	0.00	**0.00**	0.00	6.00	3.75	**3.25**
51	PIT 151	MH 2861	8.57	6.00	8.75	**7.77**	5.00	8.70	10.00	**7.90**	0.00	4.10	4.46	**2.85**	0.00	14.00	5.00	**6.33**
52	PIT 152	MH 2862	4.29	1.93	1.25	**2.49**	0.00	3.85	10.00	**4.62**	2.86	0.00	0.00	**0.95**	2.86	0.00	7.50	**3.45**
53	PIT 153	MH 2863	8.57	7.69	16.25	**10.84**	0.00	23.08	18.75	**13.94**	4.29	1.93	8.93	**5.05**	4.29	8.01	8.75	**7.02**
54	PIT 154	MH 2864	5.71	3.92	13.75	**7.79**	5.00	12.50	17.50	**11.67**	5.71	0.00	0.00	**1.90**	5.71	1.93	5.00	**4.21**
55	PIT 155	MH 2865	5.71	3.92	6.25	**5.29**	0.00	8.20	13.75	**7.32**	10.00	0.00	4.46	**4.82**	10.00	1.93	3.75	**5.23**
56	PIT 156	MH 2866	5.71	6.02	8.75	**6.83**	0.00	9.62	16.25	**8.62**	0.00	0.00	0.00	**0.00**	0.00	7.93	8.75	**5.56**
57	PIT 157	MH 2867	2.86	5.77	6.25	**4.96**	0.00	9.62	12.50	**7.37**	2.86	0.00	0.00	**0.95**	2.86	3.93	2.50	**3.10**
58	PIT 158	MH 2868	5.71	7.85	11.25	**8.27**	5.00	15.38	16.25	**12.21**	8.57	1.93	4.46	**4.99**	8.57	8.00	13.75	**10.11**
59	PIT 159	MH 2869	0.00	3.85	6.25	**3.37**	0.00	13.46	11.25	**8.24**	5.71	0.00	0.00	**1.90**	5.71	5.93	5.00	**5.55**
60	PIT 160	MH 2870	2.86	1.92	11.25	**5.34**	2.50	10.71	16.25	**9.82**	5.71	0.00	0.00	**1.90**	5.71	5.93	6.25	**5.96**
61	PIT 161	MH 2871	0.00	3.85	6.25	**3.37**	2.50	17.54	12.50	**10.85**	8.57	1.93	4.46	**4.99**	8.57	10.25	5.00	**7.94**
62	PIT 162	MH 2872	14.29	7.69	8.75	**10.24**	0.00	13.46	10.00	**7.82**	0.00	1.93	4.46	**2.13**	0.00	14.00	2.50	**5.50**
63	PIT 163	MH 2873	2.86	3.92	6.25	**4.34**	0.00	9.62	12.50	**7.37**	2.86	0.00	8.93	**3.93**	2.86	1.93	13.75	**6.18**
64	PIT 164	MH 2874	5.71	3.92	8.75	**6.13**	5.00	15.38	11.25	**10.54**	4.29	0.00	0.00	**1.43**	4.29	3.85	3.75	**3.96**
65	PIT 165	MH 2875	0.00	3.92	8.75	**4.22**	0.00	9.62	15.00	**8.21**	2.86	1.93	4.46	**3.08**	2.86	3.85	3.75	**3.49**
66	PIT 166	MH 2876	2.86	3.85	8.75	**5.15**	0.00	7.69	13.75	**7.15**	0.00	0.00	0.00	**0.00**	0.00	4.01	3.75	**2.59**
67	PIT 167	MH 2877	8.57	6.02	8.75	**7.78**	10.00	13.46	15.00	**12.82**	2.86	0.00	4.46	**2.44**	2.86	6.08	3.75	**4.23**
68	PIT 168	MH 2878	11.43	5.77	10.00	**9.07**	0.00	10.10	8.75	**6.28**	2.86	1.93	4.46	**3.08**	2.86	5.93	2.5	**3.76**
69	PIT 169	MH 2879	2.86	5.85	7.50	**5.40**	0.00	9.62	12.50	**7.37**	5.71	0.00	0.00	**1.90**	5.71	5.93	3.75	**5.13**
70	PIT 170	MH 2880	7.14	4.00	8.75	**6.63**	7.50	9.62	12.50	**9.87**	0.00	1.93	4.46	**2.13**	0.00	3.93	3.75	**2.56**
71	PIT 171	MH 2881	5.71	4.09	13.75	**7.85**	0.00	5.77	12.50	**6.09**	5.71	0.00	4.46	**3.39**	5.71	1.93	1.25	**2.96**
72	PIT 172	MH 2882	0.00	3.92	7.50	**3.81**	0.00	9.62	12.50	**7.37**	1.43	1.93	4.46	**2.61**	1.43	3.85	5.00	**3.43**
73	PIT 173	MH 2883	2.86	3.92	8.75	**5.18**	2.50	5.77	13.75	**7.34**	2.86	0.00	4.46	**2.44**	2.86	1.93	5.00	**3.26**
74	PIT 174	MH 2884	1.43	3.92	8.75	**4.70**	0.00	5.77	8.75	**4.84**	0.00	1.93	8.93	**3.62**	0.00	4.01	0.00	**1.34**
75	PIT 175	MH 2885	5.71	5.85	13.75	**8.44**	5.00	7.69	10.00	**7.56**	0.00	2.00	8.93	**3.64**	0.00	4.01	5.00	**3.00**
76	PIT 176	MH 2886	2.86	4.00	11.25	**6.04**	0.00	5.77	13.75	**6.51**	2.86	1.93	13.39	**6.06**	2.86	4.01	5.00	**3.96**
77	PIT 177	MP 640	0.00	4.08	13.75	**5.94**	0.00	7.85	13.75	**7.20**	4.29	2.17	4.46	**3.64**	4.29	3.85	7.50	**5.21**
78	PIT 178	MP 641	5.71	3.92	16.25	**8.63**	2.50	8.25	13.75	**8.17**	2.86	4.10	13.39	**6.78**	2.86	6.00	8.75	**5.87**
79	PIT 179	MP 642	8.57	6.00	13.75	**9.44**	2.50	11.77	5.00	**6.42**	2.86	3.93	8.93	**5.24**	2.86	5.93	0.00	**2.93**
80	PIT 180	MP 643	2.86	*	16.25	**6.37**	0.00	*	12.50	**4.17**	5.71	*	0.00	**1.90**	5.71	*	6.25	**3.99**
81	PIT 181	MP 644	2.86	3.92	13.75	**6.84**	12.50	5.85	17.50	**11.95**	8.57	3.93	8.93	**7.14**	8.57	5.93	20.00	**11.50**
82	PIT 182	MP 645	0.00	4.00	*	**1.33**	0.00	5.77	*	**1.92**	2.86	0.00	*	**0.95**	2.86	4.00	*	**2.29**
83	PIT 183	MP 646	2.86	5.93	11.25	**6.68**	0.00	7.85	11.25	**6.37**	7.14	0.00	8.93	**5.36**	7.14	3.85	13.75	**8.25**
84	PIT 184	MP 647	5.71	3.92	11.25	**6.96**	12.50	9.62	12.50	**11.54**	2.86	0.00	13.39	**5.42**	2.86	8.00	15.00	**8.62**

85	PIT 185	MP 648	5.71	7.85	8.75	**7.44**	5.00	11.69	10.00	**8.90**	0.00	0.00	4.46	**1.49**	0.00	5.93	3.75	**3.23**
86	PIT 186	MP 649	11.43	3.92	13.75	**9.70**	10.00	5.77	17.50	**11.09**	5.71	0.00	0.00	**1.90**	5.71	5.85	3.75	**5.10**
87	PIT 187	MP 650	7.14	3.92	21.25	**10.77**	0.00	5.85	13.75	**6.53**	5.71	2.08	4.46	**4.08**	5.71	5.93	8.75	**6.80**
88	PIT 188	MP 651	2.86	3.92	18.75	**8.51**	5.00	9.62	10.00	**8.21**	5.71	2.17	4.46	**4.11**	5.71	7.69	3.75	**5.72**
89	PIT 189	PB 1756	0.00	4.09	7.50	**3.86**	0.00	5.77	13.75	**6.51**	2.86	0.00	8.93	**3.93**	2.86	6.52	7.50	**5.63**
90	PIT 190	RHB 223	2.86	4.09	16.25	**7.73**	2.50	9.62	13.75	**8.62**	8.57	0.00	8.93	**5.83**	8.57	6.17	2.50	**5.75**
91	PIT 191	MPMH 35	0.00	7.85	16.25	**8.03**	2.50	12.02	13.75	**9.42**	8.57	0.00	8.93	**5.83**	8.57	8.00	3.75	**6.77**
92	PIT 192	HHB 67 Imp.	8.57	2.00	7.50	**6.02**	0.00	3.92	12.50	**5.47**	2.86	0.00	4.46	**2.44**	2.86	5.77	1.25	**3.29**
93	PIT 193	PB 1852	10.00	4.09	21.25	**11.78**	0.00	9.62	16.25	**8.62**	0.00	0.00	8.93	**2.98**	0.00	3.85	2.50	**2.12**
94	PIT 194	86M94	2.86	5.85	15.00	**7.90**	0.00	7.69	13.75	**7.15**	2.86	3.85	8.93	**5.21**	2.86	5.93	2.50	**3.76**
95	PIT 195	DHBH 1397	0.00	3.92	8.75	**4.22**	0.00	5.77	12.50	**6.09**	0.00	1.93	8.93	**3.62**	0.00	9.85	5.00	**4.95**
96	PIT 196	AHB 1269	0.00	3.85	16.25	**6.70**	0.00	5.77	11.25	**5.67**	5.71	1.93	4.46	**4.03**	5.71	3.85	1.25	**3.60**
97	PIT 197	Pratap	2.86	3.92	16.25	**7.68**	0.00	5.77	11.25	**5.67**	2.86	3.85	8.93	**5.21**	2.86	5.77	6.25	**4.96**
98	PIT 198	86M01	0.00	5.93	10.00	**5.31**	2.50	11.77	13.75	**9.34**	5.71	3.85	4.46	**4.67**	5.71	10.00	10.00	**8.57**
99	PIT 199	86M84	2.86	5.93	13.75	**7.51**	5.00	11.77	13.75	**10.17**	2.86	1.93	4.46	**3.08**	2.86	5.93	5.00	**4.60**
100	PIT 200	KBH 108	1.43	4.92	8.75	**5.03**	2.50	12.31	11.25	**8.69**	2.86	3.57	8.93	**5.12**	2.86	3.85	6.25	**4.32**
101	PIT 201	MP 7878	5.71	4.00	6.25	**5.32**	0.00	7.85	12.50	**6.78**	1.43	1.93	4.46	**2.61**	1.43	5.93	16.25	**7.87**
102	PIT 202	86M86	0.00	3.92	6.25	**3.39**	0.00	11.77	13.75	**8.51**	2.86	0.00	8.93	**3.93**	2.86	3.85	7.50	**4.74**
103	PIT 203	Kaveri S Boss	5.71	5.77	11.25	**7.58**	5.00	9.62	10.00	**8.21**	0.00	0.00	4.46	**1.49**	0.00	7.85	2.50	**3.45**
104	PIT 204	NBH 4903	4.29	3.92	11.25	**6.49**	0.00	11.77	7.50	**6.42**	0.00	0.00	8.93	**2.98**	0.00	3.85	1.25	**1.70**
105	PIT 205	AHB 1200	2.86	9.62	8.75	**7.08**	2.50	17.31	11.25	**10.35**	4.29	0.00	4.46	**2.92**	4.29	5.93	7.50	**5.91**
106	PIT 206	Raj 171	4.29	0.00	1.25	**1.85**	7.50	1.93	13.75	**7.73**	2.86	0.00	0.00	**0.95**	2.86	0.00	8.75	**3.87**
		Mean	**4.27**	**5.10**	**10.61**	**6.66**	**2.15**	**11.08**	**13.51**	**8.91**	**4.19**	**1.38**	**4.25**	**3.28**	**4.19**	**5.70**	**7.61**	**5.83**
			JAM	**JP**	**FPS**	**Mean**	**JAM**	**JP**	**FPS**	**Mean**	**JAM**		**FPS**	**Mean**	**JAM**		**FPS**	**Mean**

N.B.: JAM= Jamnagar, FPS= Fatehpur-Shekhawati, JP=Jaipur.

Table-V.1b: (PMET-1A) Screening of pearl millet lines against major insect pests (Initial entries/populations).

Sr. No.	Entry no.	Name of Entry	*Helicoverpa armigera* larvae/5 Ear heads			GWDS, Ear head stage	LRDS Ear head stage
			JP	FPS	Mean	FPS	JP
1	PIT 101	MH 2811	3.00	4.00	**3.50**	1.50	3.00
2	PIT 102	MH 2812	1.50	2.50	**2.00**	1.00	4.00
3	PIT 103	MH 2813	0.50	1.50	**1.00**	2.00	2.50
4	PIT 104	MH 2814	0.50	0.50	**0.50**	1.00	2.50
5	PIT 105	MH 2815	1.50	1.50	**1.50**	1.50	0.50
6	PIT 106	MH 2816	1.50	1.50	**1.50**	1.50	1.50
7	PIT 107	MH 2817	1.00	1.00	**1.00**	2.00	2.50
8	PIT 108	MH 2818	0.50	1.00	**0.75**	2.00	4.00
9	PIT 109	MH 2819	1.00	1.50	**1.25**	2.50	1.50
10	PIT 110	MH 2820	0.50	2.00	**1.25**	1.50	2.00
11	PIT 111	MH 2821	0.50	1.00	**0.75**	2.00	0.00
12	PIT 112	MH 2822	0.00	1.50	**0.75**	1.50	2.50
13	PIT 113	MH 2823	0.50	0.50	**0.50**	2.00	0.00
14	PIT 114	MH 2824	0.50	0.50	**0.50**	1.00	1.50
15	PIT 115	MH 2825	0.50	0.50	**0.50**	2.00	0.00
16	PIT 116	MH 2826	0.50	0.50	**0.50**	2.50	3.50
17	PIT 117	MH 2827	0.50	1.00	**0.75**	2.00	3.00
18	PIT 118	MH 2828	1.50	0.50	**1.00**	1.50	1.50
19	PIT 119	MH 2829	0.00	0.50	**0.25**	1.50	1.00
20	PIT 120	MH 2830	1.50	0.50	**1.00**	2.00	0.00
21	PIT 121	MH 2831	1.00	1.00	**1.00**	2.50	0.00
22	PIT 122	MH 2832	1.00	4.00	**2.50**	1.50	0.50
23	PIT 123	MH 2833	1.00	0.00	**0.50**	2.50	0.00
24	PIT 124	MH 2834	1.00	1.00	**1.00**	3.00	2.00
25	PIT 125	MH 2835	0.00	0.00	**0.00**	2.00	0.00
26	PIT 126	MH 2836	0.50	0.50	**0.50**	3.00	1.00
27	PIT 127	MH 2837	0.00	0.50	**0.25**	2.00	1.00
28	PIT 128	MH 2838	0.50	0.50	**0.50**	1.50	0.50
29	PIT 129	MH 2839	0.50	0.50	**0.50**	2.50	4.00
30	PIT 130	MH 2840	1.50	0.00	**0.75**	2.50	3.50
31	PIT 131	MH 2841	0.00	0.00	**0.00**	2.00	4.50
32	PIT 132	MH 2842	0.50	0.50	**0.50**	2.00	1.00
33	PIT 133	MH 2843	1.00	1.00	**1.00**	3.00	1.50
34	PIT 134	MH 2844	1.00	1.00	**1.00**	3.00	0.50
35	PIT 135	MH 2845	0.50	0.50	**0.50**	1.50	3.00
36	PIT 136	MH 2846	0.00	0.00	**0.00**	2.00	0.50
37	PIT 137	MH 2847	1.50	1.50	**1.50**	2.00	1.50
38	PIT 138	MH 2848	1.00	1.00	**1.00**	2.00	1.50
39	PIT 139	MH 2849	1.50	0.00	**0.75**	1.00	1.50
40	PIT 140	MH 2850	1.00	1.00	**1.00**	1.50	1.50
41	PIT 141	MH 2851	1.00	1.00	**1.00**	1.50	2.00
42	PIT 142	MH 2852	1.50	1.50	**1.50**	2.50	3.00
43	PIT 143	MH 2853	1.50	1.50	**1.50**	2.00	3.00
44	PIT 144	MH 2854	2.00	2.00	**2.00**	1.00	3.50
45	PIT 145	MH 2855	1.50	1.50	**1.50**	2.50	3.00
46	PIT 146	MH 2856	1.50	1.50	**1.50**	3.00	3.00
47	PIT 147	MH 2857	0.00	5.50	**2.75**	2.50	1.50
48	PIT 148	MH 2858	0.00	0.00	**0.00**	1.50	0.50
49	PIT 149	MH 2859	1.50	1.50	**1.50**	2.00	3.00
50	PIT 150	MH 2860	2.50	0.00	**1.25**	2.50	1.50
51	PIT 151	MH 2861	0.50	0.50	**0.50**	2.50	1.00
52	PIT 152	MH 2862	0.00	0.00	**0.00**	1.00	0.00
53	PIT 153	MH 2863	0.00	0.00	**0.00**	2.00	1.00
54	PIT 154	MH 2864	0.50	0.50	**0.50**	1.50	1.50
55	PIT 155	MH 2865	0.50	0.00	**0.25**	3.00	2.00

56	PIT 156	MH 2866	1.50	0.00	**0.75**	2.50	3.00
57	PIT 157	MH 2867	0.00	0.00	**0.00**	1.00	3.00
58	PIT 158	MH 2868	0.50	0.00	**0.25**	2.50	3.50
59	PIT 159	MH 2869	0.50	0.50	**0.50**	2.50	3.00
60	PIT 160	MH 2870	1.50	1.50	**1.50**	2.50	3.00
61	PIT 161	MH 2871	0.50	0.50	**0.50**	4.00	3.00
62	PIT 162	MH 2872	1.00	1.00	**1.00**	1.50	4.00
63	PIT 163	MH 2873	1.50	1.50	**1.50**	2.50	2.50
64	PIT 164	MH 2874	1.50	1.50	**1.50**	1.50	2.50
65	PIT 165	MH 2875	2.00	2.00	**2.00**	2.50	0.50
66	PIT 166	MH 2876	1.00	1.00	**1.00**	4.00	1.50
67	PIT 167	MH 2877	0.50	0.00	**0.25**	3.50	2.50
68	PIT 168	MH 2878	0.50	0.00	**0.25**	2.50	4.00
69	PIT 169	MH 2879	0.50	5.50	**3.00**	2.50	1.50
70	PIT 170	MH 2880	0.00	0.00	**0.00**	3.50	2.00
71	PIT 171	MH 2881	1.00	0.00	**0.50**	1.00	2.50
72	PIT 172	MH 2882	1.50	1.50	**1.50**	1.50	2.50
73	PIT 173	MH 2883	0.50	0.50	**0.50**	1.50	2.50
74	PIT 174	MH 2884	1.50	1.50	**1.50**	1.00	1.50
75	PIT 175	MH 2885	0.00	0.00	**0.00**	1.00	2.50
76	PIT 176	MH 2886	1.00	0.00	**0.50**	2.00	3.50
77	PIT 177	MP 640	0.50	0.00	**0.25**	4.00	3.00
78	PIT 178	MP 641	0.00	0.00	**0.00**	2.00	4.00
79	PIT 179	MP 642	0.00	0.00	**0.00**	2.00	2.50
80	PIT 180	MP 643	*	0.00	**0.00**	2.00	*
81	PIT 181	MP 644	3.00	3.00	**3.00**	2.00	0.50
82	PIT 182	MP 645	3.50	*	**1.75**	*	2.50
83	PIT 183	MP 646	1.50	0.00	**0.75**	1.50	2.50
84	PIT 184	MP 647	1.50	1.50	**1.50**	1.00	4.00
85	PIT 185	MP 648	2.00	2.00	**2.00**	3.00	1.50
86	PIT 186	MP 649	1.00	1.00	**1.00**	1.50	2.00
87	PIT 187	MP 650	1.00	1.00	**1.00**	2.00	4.00
88	PIT 188	MP 651	0.50	0.50	**0.50**	1.50	2.50
89	PIT 189	PB 1756	1.50	1.50	**1.50**	0.50	3.50
90	PIT 190	RHB 223	0.50	0.50	**0.50**	1.50	1.50
91	PIT 191	MPMH 35	1.00	1.00	**1.00**	1.50	1.50
92	PIT 192	HHB 67 Imp.	1.50	1.50	**1.50**	1.50	3.50
93	PIT 193	PB 1852	3.00	3.00	**3.00**	3.50	4.00
94	PIT 194	86M94	0.00	0.00	**0.00**	3.00	1.50
95	PIT 195	DHBH 1397	1.00	1.00	**1.00**	2.50	1.00
96	PIT 196	AHB 1269	1.00	1.00	**1.00**	1.00	2.50
97	PIT 197	Pratap	0.50	0.50	**0.50**	2.00	2.50
98	PIT 198	86M01	0.00	3.00	**1.50**	1.50	0.50
99	PIT 199	86M84	0.00	0.00	**0.00**	1.50	1.50
100	PIT 200	KBH 108	1.00	0.00	**0.50**	0.50	2.00
101	PIT 201	MP 7878	1.50	1.50	**1.50**	1.50	2.50
102	PIT 202	86M86	1.50	1.50	**1.50**	1.50	1.00
103	PIT 203	Kaveri S Boss	0.50	1.00	**0.75**	0.50	2.00
104	PIT 204	NBH 4903	0.50	1.00	**0.75**	1.50	0.50
105	PIT 205	AHB 1200	1.00	1.00	**1.00**	2.00	3.50
106	PIT 206	Raj 171	0.50	0.00	**0.25**	2.50	0.00
		Mean		**0.91**	**0.96**	**0.94**	**0.91**

N.B.: JAM= Jamnagar, FPS= Fatehpur-Shekhawati, JP= Jaipur.

Table - V.1c: (PMET-1A) Summarized shoot fly & stem borer incidence in pearl millet lines (Initial lines)

Sr. No.	Range of percent infestation	Number of entries showing shoot fly incidence at		Number of entries showing stem borer incidence at	
		Vegetative Stage (28 DAG)	Ear head stage	Vegetative stage (28 DAG)	Ear head stage
1	Free (0.0%)	0	0	31	0
2	0.1 to 5.0% (Moderate resistant)	10	9	39	41
3	5.1 to 10.00% (Tolerant)	38	10	22	30
4	10.1-20.00 (Susceptible)	49	87	6	22
5	Above 20.00% (Highly susceptible)	9	0	8	3
6	Range (Mini. to Maxi.)	1.25-21.25	1.92-23	1.92-13.39	1.25-25
7	Average	10.61	13.63	4.25	7.60
8	Number of entries tested	106			

Table-V.1d: (PMET-1A) *Helicoverpa*, Grey weevil and Leaf roller incidence in pearl millet lines (Initial lines)

Sr. No.	Range of larval population/ 5 ear heads/GWDS/ LRDS	Number of entries showing *Helicoverpa* incidence at ear head stage	Number of entries showing Grey Weevil Damage Score at ear head stage	Number of entries showing Leaf Roller Damage Score at ear head stage
1	Free (0.0)	26	0	0
2	0.1-1.0	43	0	16
3	1.1-2.0	25	61	55
4	2.1-5.0	12	45	35
5	Above 5.0	0	0	0
6	Range Minimum to maximum	0.5-5.5	1.5-3.5	0.5-4.5
7	Average	0.97	2.15	1.96
8	Entries screened	106		

Table-V.2a: (PMET-1B) Screening of millet lines against major insect pests (Advance lines)

Sr. No.	Entry no.	Name of Entry	Shoot fly % Incidence At Veg. stage (28 DAG)					Shoot fly % Incidence At EH stage					Stem borer Incidence At Veg. Stage (28 DAG)				Stem borer Incidence At EH stage			
			JAM	JP	JOD	FPS	Mean	JAM	JP	JOD	FPS	Mean	JAM	JP	FPS	Mean	JAM	JP	FPS	Mean
1	PET 201	MH 2672	1.43	3.85	23.05	7.5	**8.96**	5	7.69	9.9	11.25	**8.46**	2.86	5.77	6.25	**4.96**	5	13.46	7.5	**8.65**
2	PET 202	MH 2673	0	3.85	10.53	15	**7.35**	5	5.77	4.31	13.75	**7.21**	1.43	1.92	5	**2.78**	2.5	9.77	7.5	**6.59**
3	PET 203	MH 2675	2.86	9.62	15	12.5	**10.00**	0	15.38	4.17	8.75	**7.08**	2.86	1.92	8.75	**4.51**	0	7.77	10	**5.92**
4	PET 204	MH 2678	1.43	3.85	10.32	15	**7.65**	2.5	3.93	4.46	18.75	**7.41**	1.43	0	5	**2.14**	2.5	1.93	17.5	**7.31**
5	PET 205	MH 2743	4.29	0	15.52	3.75	**5.89**	0	2.17	3.45	3.75	**2.34**	0	0	3.75	**1.25**	2.5	0	2.5	**1.67**
6	PET 206	MH 2744	0	4.01	11.67	6.25	**5.48**	2.5	9.62	4.5	7.5	**6.03**	2.86	1.92	7.5	**4.09**	0	6.08	10	**5.36**
7	PET 207	MH 2746	1.43	4.01	10.71	13.75	**7.48**	12.5	6.08	5.06	11.25	**8.72**	0	1.92	2.5	**1.47**	5	4.08	2.5	**3.86**
8	PET 208	MH 2747	1.43	3.85	13.81	25	**11.02**	7.5	5.77	4.6	2.5	**5.09**	1.43	9.62	1.25	**4.10**	2.5	11.54	0	**4.68**
9	PET 209	MH 2748	2.86	7.85	11.01	12.5	**8.56**	0	9.62	3.88	6.25	**4.94**	1.43	9.62	5	**5.35**	5	13.46	7.5	**8.65**
10	PET 210	MH 2749	2.86	7.69	8.3	11.25	**7.53**	5	13.46	4.64	5	**7.03**	0	3.93	2.5	**2.14**	0	9.77	5	**4.92**
11	PET 211	MH 2754	0	0	4.95	5	**2.49**	0	2.08	4.2	3.75	**2.51**	0	0	1.25	**0.42**	5	0	2.5	**2.50**
12	PET 212	MH 2758	4.29	9.62	13.6	21.25	**12.19**	0	17.95	3.83	5	**6.70**	2.86	1.93	1.25	**2.01**	2.5	4.08	0	**2.19**
13	PET 213	MH 2682	4.29	0	7.69	5.5	**4.37**	0	1.93	4.3	3.75	**2.50**	5.71	0	1.5	**2.40**	5	1.93	0.5	**2.48**
14	PET 214	MH 2767	1.43	9.62	12.53	15	**9.65**	0	15.38	3.67	2.5	**5.39**	0	1.92	1.25	**1.06**	0	7.69	0	**2.56**
15	PET 215	MH 2773	1.43	0	8.27	6.5	**4.05**	2.5	2	4.94	3	**3.11**	0	0	0	**0.00**	0	1.92	0	**0.64**

16	PET 216	MH 2775	4.29	7.85	29.12	12.5	**13.44**	2.5	15.38	4.14	5	**6.76**	1.43	1.92	10	**4.45**	2.5	9.77	2.5	**4.92**
17	PET 217	MH 2777	2.86	5.85	6.45	12.5	**6.92**	2.5	9.62	4.11	18.75	**8.75**	1.43	3.85	3.75	**3.01**	0	13.46	2.5	**5.32**
18	PET 218	MH 2784	4.29	9.62	16.23	13.75	**10.97**	5	13.46	4.35	6.25	**7.27**	0	7.69	6.25	**4.65**	5	7.85	7.5	**6.78**
19	PET 219	MH 2709	4.29	3.93	13.33	26.25	**11.95**	0	9.62	4.1	2.5	**4.06**	2.86	5.77	1.25	**3.29**	0	9.62	0	**3.21**
20	PET 220	MH 2712	5.71	9.62	12.06	8.75	**9.04**	0	15.38	4.08	2.5	**5.49**	1.43	5.77	2.5	**3.23**	5	9.62	2.5	**5.71**
21	PET 221	MH 2717	2.86	10	9.77	12.5	**8.78**	0	11.54	4.1	2.5	**4.54**	2.86	3.85	6.25	**4.32**	5	6	0	**3.67**
22	PET 222	MH 2795	1.43	7.69	22.62	31.25	**15.75**	0	11.54	5.32	23.75	**10.15**	0	3.85	3.75	**2.53**	0	6	2.5	**2.83**
23	PET 223	MH 2796	1.43	5.92	10.56	10	**6.98**	2.5	11.54	6.39	6.25	**6.67**	0	1.92	3.75	**1.89**	5	6.08	5	**5.36**
24	PET 224	MH 2797	2.86	3.92	27.65	11.25	**11.42**	2.5	8.33	4.49	7.5	**5.71**	2.86	0	5	**2.62**	20	1.93	5	**8.98**
25	PET 225	MH 2798	4.29	7.69	11.36	7.5	**7.71**	0	17.31	4.28	3.75	**6.34**	7.14	1.93	5	**4.69**	0	8.35	5	**4.45**
26	PET 226	MH 2801	1.43	1.92	16.67	13.75	**8.44**	5	10.54	4.39	6.25	**6.55**	2.86	0	6.25	**3.04**	7.5	2	7.5	**5.67**
27	PET 227	MH 2806	2.86	5.93	8.78	11.25	**7.21**	5	17.95	3.54	6.25	**8.19**	0	1.92	6.25	**2.72**	10	5.77	5	**6.92**
28	PET 228	MH 2808	7.14	5.77	1.72	11.25	**6.47**	0	17.31	4.61	13.75	**8.92**	1.43	3.85	11.25	**5.51**	0	9.62	12.5	**7.37**
29	PET 229	MP 637	4.29	*	7.14	15	**6.61**	0	*	4.69	16.25	**5.24**	2.86	*	5	**2.62**	0	*	13.75	**4.58**
30	PET 230	HHB 67 Imp.	1.43	3.85		*	**1.32**	5	12.02		*	**4.26**	0	3.85	*	**1.28**	5	15.38	*	**6.79**
31	PET 231	PB 1756	0	1.92	14.69	15	**7.90**	5	11.69	4.06	15	**8.94**	10	0	12.5	**7.50**	0	8.01	12.5	**6.84**
32	PET 232	MPMH 35	7.14	0	9.68	5	**5.46**	0	3.85	3.85	6.25	**3.49**	2.86	1.93	3.75	**2.85**	2.5	0	5	**2.50**
33	PET 233	RHB 223	2.86	4.08	17.65	26.25	**12.71**	0	5.77	4.21	15	**6.25**	5.71	1.92	11.25	**6.29**	2.5	5.77	12.5	**6.92**

34	PET 234	AHB 1269	4.29	0	11.81	5.5	**5.40**	2.5	2.08	4.39	5	**3.49**	8.57	0	3.75	**4.11**	2.5	0	5	**2.50**
35	PET 235	86M01	2.86	3.93	6.98	13.75	**6.88**	2.5	9.62	6.32	3.75	**5.55**	2.86	1.92	3.75	**2.84**	5	9.77	2.5	**5.76**
36	PET 236	Pratap	0	0	2.17	4.5	**1.67**	5	2	4.45	3.75	**3.80**	1.43	0	3.75	**1.73**	0	0	5	**1.67**
37	PET 237	KBH 108	5.71	0	2.08	11.25	**4.76**	5	1.93	4.75	3.75	**3.86**	2.86	0	3.75	**2.20**	0	1.93	5	**2.31**
38	PET 238	86M86	5.71	3.93	0	11.25	**5.22**	0	5.77	4.38	6.25	**4.10**	0	3.85	5	**2.95**	5	13.46	7.5	**8.65**
39	PET 239	86M84	7.14	0	0	4.25	**2.85**	5	2	4.57	2.5	**3.52**	1.43	0	2.5	**1.31**	0	2	2.5	**1.50**
40	PET 240	MP 7878	1.43	4	3.7	35	**11.03**	2.5	6.28	5.93	28.75	**10.87**	0	3.85	8.75	**4.20**	0	15.38	10	**8.46**
41	PET 241	Kaveri Super Boss	0	3.93	5	13.75	**5.67**	5	5.85	4.72	12.5	**7.02**	2.86	3.85	13.75	**6.82**	5	11.54	13.75	**10.10**
42	PET 242	NBH 4903	2.86	5.93	13.45	6.25	**7.12**	0	7.69	3.73	2.5	**3.48**	0	3.85	2.5	**2.12**	2.5	1.92	2.5	**2.31**
43	PET 243	AHB 1200	1.43	3.85	7.49	7.5	**5.07**	5	9.62	4.23	10	**7.21**	2.86	3.85	11.25	**5.99**	5	5.85	12.5	**7.78**
44	PET 244	Raj 171	2.86	3.93	16.67	33.75	**14.30**	2.5	8.35	6.39	21.25	**9.62**	4.29	1.92	13.75	**6.65**	0	3.85	5	**2.95**
45	PET 245	JBV 2	7.14	0	2.56	5	**3.68**	5	1.93	4.23	3	**3.54**	2.86	0	1	**1.29**	5	2	2	**3.00**
46	PET 246	Dhanshakti	2.86	4.17	0	15.25	**5.57**	2.5	8.33	4.38	10	**6.30**	4.29	5.77	5	**5.02**	2.5	13.46	5	**6.99**
		Mean	2.95	4.28	10.53	12.75	7.63	2.61	8.55	4.50	8.20	5.96	2.24	2.59	5.11	3.31	3.04	6.52	5.49	5.02

N.B.: JAM= Jamnagar, JOD= Mandor-Jodhpur, FPS= Fatehpur-Shekhawati, JP=Jaipur.

Table-V.2b: (PMET-1B) Screening of pearl millet lines against major insect pests complex (Advance lines)

Sr.No.	Entry no.	Name of Entry	*Helicoverpa armigera* larval population per 5 Ear heads				Grey Weevil Damage Score (0-10) At Ear head stage			Leaf Roller Damage Score (0-10) At Ear head stage		
			JP	JOD	FPS	Mean	JOD	FPS	Mean	JP	JOD	FPS
1	PET 201	MH 2672	0.00	0.5	0.50	**0.33**	2	1.00	**1.50**	3.00	1.4	2.47
2	PET 202	MH 2673	0.00	1.0	2.00	**1.00**	2	1.00	**1.50**	4.00	1.2	2.57
3	PET 203	MH 2675	0.50	1.5	3.50	**1.83**	3	1.00	**2.00**	2.50	1.8	2.10
4	PET 204	MH 2678	0.50	2.0	1.00	**1.17**	1.8	1.00	**1.40**	2.50	1.3	1.93
5	PET 205	MH 2743	0.00	2.0	2.50	**1.50**	1.2	1.00	**1.10**	0.50	1.4	0.63
6	PET 206	MH 2744	1.50	1.0	5.50	**2.67**	1.8	1.00	**1.40**	1.50	1.1	1.37
7	PET 207	MH 2746	0.50	2.0	2.00	**1.50**	1.4	1.00	**1.20**	2.50	1.1	1.70
8	PET 208	MH 2747	0.50	1.5	2.00	**1.33**	2.4	1.00	**1.70**	4.00	2.4	2.80
9	PET 209	MH 2748	1.00	0.5	2.50	**1.33**	1.7	1.00	**1.35**	1.50	1.5	1.50
10	PET 210	MH 2749	0.50	1.0	8.00	**3.17**	1.5	1.00	**1.25**	2.00	1	1.67
11	PET 211	MH 2754	0.00	1.5	0.00	**0.50**	1	1.00	**1.00**	0.00	1.2	0.40
12	PET 212	MH 2758	0.00	2.0	0.00	**0.67**	2.2	1.00	**1.60**	2.50	1.9	2.30
13	PET 213	MH 2682	0.00	1.0	0.00	**0.33**	2.2	1.00	**1.60**	0.00	1.3	0.77
14	PET 214	MH 2767	0.50	2.0	4.00	**2.17**	1.7	1.00	**1.35**	1.50	1.3	1.27
15	PET 215	MH 2773	0.50	1.0	3.50	**1.67**	1.2	1.00	**1.10**	0.00	1.3	0.93
16	PET 216	MH 2775	0.50	2.0	4.50	**2.33**	1.2	1.00	**1.10**	3.50	1	2.00
17	PET 217	MH 2777	0.50	2.5	8.50	**3.83**	1.3	1.00	**1.15**	3.00	1.1	1.70
18	PET 218	MH 2784	2.00	1.5	8.00	**3.83**	1.1	1.50	**1.30**	1.50	0.9	1.30
19	PET 219	MH 2709	0.50	1.0	7.50	**3.00**	2.6	1.50	**2.05**	1.00	0.5	1.00
20	PET 220	MH 2712	0.00	1.0	0.00	**0.33**	1.4	1.00	**1.20**	0.50	1	0.83
21	PET 221	MH 2717	1.00	1.5	10.50	**4.33**	1	1.00	**1.00**	0.00	0.8	0.77
22	PET 222	MH 2795	1.00	1.5	9.00	**3.83**	3.1	1.00	**2.05**	0.50	1.8	1.27
23	PET 223	MH 2796	0.50	2.0	6.50	**3.00**	2	1.00	**1.50**	1.50	1.3	1.60
24	PET 224	MH 2797	1.00	2.0	6.50	**3.17**	2.6	1.50	**2.05**	2.00	1.1	1.70
25	PET 225	MH 2798	0.00	2.0	0.00	**0.67**	1.8	1.50	**1.65**	2.50	0.9	1.97
26	PET 226	MH 2801	1.00	2.0	3.00	**2.00**	2.7	1.00	**1.85**	1.00	2	2.17
27	PET 227	MH 2806	0.00	1.0	0.00	**0.33**	1.3	1.50	**1.40**	1.00	0.7	1.23
28	PET 228	MH 2808	1.00	2.5	2.50	**2.00**	1.4	1.00	**1.20**	0.50	0.9	1.47
29	PET 229	MP 637	*	1.5	5.50	**2.33**	1.5	2.00	**1.75**	*	0.7	0.90
30	PET 230	HHB 67 Imp.	0.50		*	**0.17**		*	**0.00**	5.00		1.67
31	PET 231	PB 1756	0.50	1.5	6.50	**2.83**	3.1	2.00	**2.55**	4.50	1.6	2.87

32	PET 232	MPMH 35	0.00	2.0	0.00	**0.67**	1.4	1.50	**1.45**	0.00	1.1	1.20
33	PET 233	RHB 223	1.00	1.5	8.50	**3.67**	1.8	2.00	**1.90**	1.50	0.6	1.37
34	PET 234	AHB 1269	0.00	1.5	0.00	**0.50**	2.4	1.50	**1.95**	0.50	1.7	0.90
35	PET 235	86M01	0.50	2.0	10.00	**4.17**	1.7	1.50	**1.60**	3.00	1.5	2.33
36	PET 236	Pratap	0.00	1.5	0.00	**0.50**	1.5	1.00	**1.25**	0.00	1.3	0.93
37	PET 237	KBH 108	0.00	0.0	0.00	**0.00**	1.6	1.00	**1.30**	0.00	1.2	0.90
38	PET 238	86M86	1.50	1.0	10.00	**4.17**	2	1.00	**1.50**	1.50	1	1.17
39	PET 239	86M84	0.00	1.5	0.00	**0.50**	1.6	1.00	**1.30**	0.00	1	0.33
40	PET 240	MP 7878	1.00	2.0	3.50	**2.17**	2.1	2.50	**2.30**	1.50	0.8	1.43
41	PET 241	Kaveri Super Boss	1.00	2.0	7.50	**3.50**	1.9	1.50	**1.70**	2.00	1	1.67
42	PET 242	NBH 4903	1.50	1.0	11.50	**4.67**	3.2	1.50	**2.35**	3.00	1.2	2.57
43	PET 243	AHB 1200	1.50	2.0	5.50	**3.00**	2.5	1.50	**2.00**	3.00	1.8	2.43
44	PET 244	Raj 171	2.00	1.0	11.00	**4.67**	2.1	3.00	**2.55**	3.50	1.5	2.50
45	PET 245	JBV 2	0.00	2.0	0.00	**0.67**	1.3	1.00	**1.15**	0.00	0.9	0.30
46	PET 246	Dhanshakti	0.50	2.5	4.50	**2.50**	1.8	1.00	**1.40**	3.00	1.4	1.97
		Mean	**0.58**	**1.51**	**4.08**	**2.05**	**1.83**	**1.24**	**1.53**	**1.71**	**1.21**	**1.71**

N.B.: JAM= Jamnagar, FPS= Fatehpur-Shekhawati, JP=Jaipur.

Table-V.2c: (PMET-1B) Summarized shoot fly & stem borer incidence in pearl millet lines (Advance lines)

Sr. No.	Range of percent infestation	Number of entries showing shoot fly incidence at		Number of entries showing stem borer incidence at	
		Vegetative stage	Ear head stage	Vegetative stage	Ear head stage
1	Free (0.0%)	5	4	0	7
2	0.1 to 5.0% (Moderate resistant)	6	20	29	22
3	5.1 to 10.00% (Tolerant)	7	9	11	10
4	10.1-20.00 (Susceptible)	22	10	6	7
5	Above 20.00% (Highly susceptible)	7	3	0	0
6	Range (Mini. to Maxi.)	1.92-35	2.0-28.75	1.0-13.75	0.5-17.5
7	Average	12.75	5.42	5.81	3.05
8	Number of entries tested	46			

Table-V.2d: (PMET-1B) *Helicoverpa*, Grey weevil and Leaf roller incidence in pearl millet lines (Advance lines)

Sr. No.	Range of larval population/ 5 ear heads/GWDS (0-10)/ LRDS (0-10)	Number of entries showing *Helicoverpa* incidence at ear head stage	Number of entries showing Grey Weevil Damage Score at ear head stage	Number of entries showing Leaf Roller Damage Score at ear head stage
1	Free (0.0)	12	0	5
2	0.1-1.0	15	43	38
3	1.1-2.0	13	3	8
4	2.1-5.0	6	0	0
5	Above 5.0	0	0	0
6	Range Minimum to maximum	0.5-11.5	1-3.0	0.5-5.0
7	Average	4.07	1.23	1.70
8	Entries screened	46		

Table-V.3a: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Jamnagar)

No.	S M W	Date of Observation	Days After Germi. nation	Shoot fly % incidence	Stem borer % incidence	leaf roller damage score (0-10)	Grass hopper % damage	Mean Grey weevil damage score (0-10)	Hairy cater pillar /20 pl.	Blister beetles/ 20 EH	Chaffer beetle 20 / EH	Helicovera larvae/ 20 EH	Lady bird beetle/ 20 pl.	Chrysopa/ 20 pl.
1	27	07.07.25	7 DAG	0	0	0	0	0	0	0	0	0	2	0
2	28	14.07.25	14 DAG	5	0	0	0	0	0	0	0	0	1	0
3	29	21.07.25	21 DAG	5	5	1	0	1	0	0	0	0	2	3
4	30	28.07.25	28 DAG	10	10	1	0	1	0	0	0	0	1	2
5	31	04.08.25	35 DAG	5	5	2	2	2	0	0	0	0	3	3
6	32	11.08.25	42 DAG	5	5	3	3	3	0	0	0	0	2	2
7	33	18.08.25	49 DAG	5	5	2	1	3	0	0	1	0	2	0
8	34	25.08.25	56 DAG	10	5	1	2	2	5	0	2	0	4	0
9	35	01.09.25	63 DAG	5	5	0	2	0	5	10	5	1	3	0
10	36	08.09.25	70 DAG	5	0	0	2	0	0	5	4	1	0	0
11	37	15.09.25	77 DAG	0	0	0	0	0	0	0	5	1	0	0
12	38	22.09.25	84 DAG	0	0	0	0	0	0	0	2	0	0	0
			Mean	**4.58**	**3.33**	**0.83**	**1.00**	**1.00**	**0.83**	**1.25**	**1.58**	**0.25**	**1.67**	**0.83**

N.B.: Date of sowing: 02.07.2025, Harvesting: 20.10.2025, Variety: GHB 538 Imp.

Table-V.3b: (PMET-2) Statement showing losses in pearl millet due to insect pest complex (Centre: Jamnagar)

Parameters	Yield kg/ha in treated plot	Yield kg/ha in Un-treated plot	% losses
1. Grain	2850	2400	14.00
2. Fodder	5200	4450	14.42

Table-V.3c: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Anand)

Date of Observation	SSW	Days after germination	Incidence (%)				Damage (%)	
			Shoot fly	Stem borer	Termite	White grub	Grass hopper	FAW
02-08-2025	31	7 DAG	0.00	0.00	0.00	0.00	0.00	0.00
09-08-2025	32	14 DAG	0.00	0.00	0.00	0.00	0.00	0.00
16-08-2025	33	21 DAG	0.00	0.00	0.00	0.00	0.00	0.00
23-08-2025	34	28 DAG	0.00	0.00	0.00	0.00	0.00	0.00
30-08-2025	35	35 DAG	0.00	0.00	0.00	0.00	0.00	0.00
06-09-2025	36	42 DAG	0.00	0.00	0.00	0.00	0.00	0.00
13-09-2025	37	49 DAG	5.00	5.00	0.00	0.00	0.00	0.00
20-09-2025	38	56 DAG	5.00	5.00	0.00	0.00	5.00	0.00
27-09-2025	39	63 DAG	15.00	10.00	0.00	0.00	5.00	0.00
04-10-2025	40	70 DAG	15.00	10.00	0.00	0.00	5.00	0.00
11-10-2025	41	77 DAG	15.00	10.00	0.00	0.00	10.00	0.00
18-10-2025	42	84 DAG	15.00	10.00	0.00	0.00	10.00	0.00
25-10-2025	43	91 DAG	15.00	15.00	0.00	0.00	10.00	0.00

Table-V.3d: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Anand)

Date of Observation	SSW	Days after germination	No. of insect per 20 ear head				No. of insect per 20 plants			Mean Grey weevil damage score (0-10)
			Blister beetles	Chaffer Beetle	*Helicovera larvae*	*Eublema silicula*	Hairy cater pillar	Lady bird beetle	Chrysopids	
02-08-2025	31	7 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09-08-2025	32	14 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16-08-2025	33	21 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23-08-2025	34	28 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-08-2025	35	35 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06-09-2025	36	42 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-09-2025	37	49 DAG	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
20-09-2025	38	56 DAG	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00
27-09-2025	39	63 DAG	0.00	0.00	2.00	2.00	0.00	0.00	0.00	0.00

04-10-2025	40	70 DAG	0.00	0.00	4.00	2.00	0.00	1.00	0.00	0.00
11-10-2025	41	77 DAG	0.00	0.00	4.00	3.00	0.00	2.00	0.00	0.00
18-10-2025	42	84 DAG	0.00	0.00	3.00	2.00	0.00	3.00	0.00	0.00
25-10-2025	43	91 DAG	0.00	0.00	2.00	0.00	0.00	3.00	0.00	0.00

Table-V.3e: (PMET-2) Statement showing losses in pearl millet due to insect pest complex (Centre: Anand)

S. N.	Particular	Grain yield (kg/ ha)	Fodder yield (kg/ ha)
1.	Insecticidal treatment plot (Protected plot)	2885	5680
2.	Without treatment plot	2650	5400
	Difference	**235 kg/ha**	**280 kg/ha**
	Yield reduction	**8.07 %**	**4.91 %**

Table-V.3f: (PMET-2) Different weather parameters (Centre: Anand)

Periods	Week No	Temp. °c		R.H.%		Wind Speed	Bright Sun Shine	Evaporation	Rainfall	Rainy
		Mini.	Maxi.	Morning	Evening	(kmph)	(hrs)	(mm)	(mm)	Days
(30 July- 5 Aug. 25)	31	31.3	26.2	88	67	5.8	2.7	20.7	4.6	1.0
(6 Aug.-12 Aug. 25)	32	33.7	26.7	86	56	5.3	8.1	34.8	0.0	0.0
(13 Aug.-19 Aug. 25)	33	32.9	26.3	91	72	3.8	3.4	24.3	23.8	3.0
(20 Aug.-26 Aug. 25)	34	30.6	25.3	92	86	6.6	2.0	23.4	106.2	5.0
(27 Aug.-2 Sept. 25)	35	30.4	25.7	93	79	4.9	2.0	20.7	80.8	4.0
(3 Sept.-9 Sept. 25)	36	29.7	24.9	93	80	6.6	3.6	23.7	111.8	5.0
(10 Sept.-16 Sept. 25)	37	32.8	25.6	90	59	4.8	8.2	28.4	0.0	0.0
(17 Sept.-23 Sept. 25)	38	33.2	25.9	89	68	3.9	5.5	25.2	37.3	3.0
(24 Sept.-30 Sept. 25)	39	33.0	25.8	86	64	5.3	5.6	26.9	8.6	1.0
(1 Oct.-7 Oct. 25)	40	32.3	24.5	89	57	5.1	8.1	28.2	36.7	2.0
(8 Oct.-14 Oct. 25)	41	32.9	20.7	82	36	2.4	8.7	26.4	0.0	0.0
(15 Oct.-21 Oct. 25)	42	35.4	21.2	82	36	2.0	9.9	26.2	0.0	0.0
(22 Oct.-28 Oct. 25)	43	32.7	24.2	79	66	5.3	6.7	30.4	93.8	2.0

Table-V.3g: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Jodhpur)

No.	S W W	Date of Observation	Days After Germi. nation	Shoot fly % incidence	Stem borer % incidence	Termite % Inci.	White grub % Inci.	leaf roller damage score (0-10)	Grass hopper % damage	FAW % damage
1	30	24.07.25	7 DAG	0.00	0.00	0.00	0.00	0	0.00	0.00
2	31	31.07.25	14 DAG	5.00	0.00	0.00	0.00	0	0.00	0.00
3	32	7.08.25	21 DAG	5.00	0.00	0.00	0.00	0	0.00	0.00
4	33	14.08.25	28 DAG	10.00	0.00	0.00	0.00	1	5.00	0.00
5	34	21.08.25	35 DAG	25.00	0.00	0.00	0.00	1	10.00	0.00
6	35	28.08.25	42 DAG	25.00	0.00	0.00	0.00	2	20.00	0.00
7	36	4.09.25	49 DAG	10.00	0.00	0.00	0.00	2	20.00	2.00
8	37	11.09.25	56 DAG	5.00	0.00	0.00	0.00	1	20.00	2.00
9	38	18.09.25	63 DAG	5.00	0.00	0.00	0.00	1	10.00	0.00
10	39	25.09.25	70 DAG	5.00	0.00	0.00	0.00	1	10.00	0.00
11	40	2.10.25	77 DAG	5.00	0.00	0.00	0.00	1	0.00	0.00
12	41	9.10.25	84 DAG	5.00	0.00	0.00	0.00	1	0.00	0.00
13	42	16.10.25	91 DAG	5.00	0.00	0.00	0.00	1	0.00	0.00
14	43	24.10.25	98 DAG	5.00	0.00	0.00	0.00	1	0.00	0.00

Table-V.3h: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Jodhpur)

No.	S W W	Date of Observation	Days After Germi. nation	Mean Grey weevil damage score (0-10)	Hiary cater pillar /20 pl.	Leafhopper/plants	Blister beetles/ 20 EH	Chaffer beetle/ 20 EH	Helicovera larvae/ 20 EH	*Eublema silicula/ 20* E.H.	Lady bird beetle/ 20 pl.	Chrysopa/ 20 pl.
1	30	24.07.25	7 DAG	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	31	31.07.25	14 DAG	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	32	7.08.25	21 DAG	1	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
4	33	14.08.25	28 DAG	1	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00
5	34	21.08.25	35 DAG	1	0.00	2.40	0.00	0.00	0.00	0.00	4.00	0.00
6	35	28.08.25	42 DAG	1	0.00	5.60	0.00	0.00	0.00	0.00	5.00	0.00
7	36	4.09.25	49 DAG	1	0.00	22.00	0.00	2.00	10.00	0.00	4.00	0.00
8	37	11.09.25	56 DAG	1	0.00	22.80	0.00	9.00	38.00	2.00	4.00	0.00
9	38	18.09.25	63 DAG	1	0.00	4.40	0.00	4.00	44.00	5.00	2.00	0.00
10	39	25.09.25	70 DAG	1	0.00	1.80	0.00	2.00	51.00	10.00	1.00	0.00
11	40	2.10.25	77 DAG	1	0.00	0.00	0.00	0.00	12.00	10.00	0.00	0.00
12	41	9.10.25	84 DAG	1	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
13	42	16.10.25	91 DAG	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	43	24.10.25	98 DAG	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Date of sowing: 15.07.2024, Date of Harvesting: 25.10.24, Variety: MPMH 21, Rainfall=429.7 mm

Table-V.3i: (PMET-2) PMET-2: Statement showing losses in pearl millet due to insect pest complex (Centre: Jodhpur)

Parameters	Treated plot (Kg/ha)	Untreated plot (Kg/ha)	% losses
1. Grain	2480	4464	12.5
2. Fodder	2120	3816	10.7

Table-V.3j: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Fatehpur-Shekhawati)

Sr. No.	SMW	Date of Observation	Days After Germination	Incidence (%)			Damage (score 0-10)		Population /20 Earhead		Population / 20 plants			Temperature (°C)		Relative Humidity (%)		Wind Speed (KMPH)	BSSH	Total Rainfall (mm.)*	No.of Rainy days*
				Shoot fly	Stem borer	Termite	Leaf roller	Grey weevil	Blister beetle	*H. armigera* larvae	Hairy cater pillar	Lady bird beetle	Chrysopa	Maximum	Minimum	Maximum	Minimum				
1	29	19.07.2025	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.09	26.53	92.57	81.14	1.33	3.51	10.80	3.00
2	30	26.07.2025	14	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.64	26.93	94.29	78.43	1.06	5.67	27.80	3.00
3	31	02.08.2025	21	10.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	33.04	24.87	92.71	80.86	1.65	3.00	52.80	3.00
4	32	09.08.2025	28	15.00	0.00	0.00	2.00	1.00	11.00	0.00	0.00	5.00	0.00	35.03	24.90	89.86	84.43	1.18	4.00	1.00	1.00
5	33	16.08.2025	35	25.00	0.00	0.00	2.00	1.00	12.00	0.00	0.00	8.00	1.00	36.10	26.14	92.29	81.29	0.57	6.46	8.40	2.00
6	34	23.08.2025	42	40.00	5.00	0.00	3.00	2.00	8.00	0.00	0.00	6.00	3.00	33.94	24.81	95.29	89.00	0.87	4.59	61.00	4.00
7	35	30.08.2025	49	35.00	10.00	0.00	3.00	2.00	0.00	0.00	0.00	9.00	2.00	33.34	24.74	94.43	83.14	0.50	4.17	108.20	3.00
8	36	06.09.2025	56	30.00	15.00	0.00	2.00	3.00	0.00	0.00	11.00	5.00	0.00	32.21	24.10	93.86	80.00	1.21	6.67	24.40	5.00
9	37	13.09.2025	63	20.00	10.00	5.00	2.00	2.00	0.00	2.00	25.00	7.00	0.00	33.86	23.17	93.71	78.43	1.08	9.43	0.00	0.00
10	38	20.09.2025	70	20.00	5.00	5.00	1.00	1.00	0.00	4.00	39.00	4.00	0.00	36.41	22.96	94.29	81.71	0.83	9.47	0.00	0.00
11	39	27.10.2025	77	15.00	10.00	0.00	0.00	0.00	0.00	8.00	26.00	3.00	0.00	37.13	22.19	94.86	83.29	1.06	8.99	62.00	1.00
12	40	04.10.2025	84	10.00	5.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	33.36	21.46	92.86	80.14	0.59	5.67	55.60	5.00
Average				**18.75**	**5.00**	**0.83**	**1.33**	**1.08**	**2.58**	**1.17**	**8.92**	**3.92**	**0.50**	**34.43**	**24.40**	**93.42**	**81.82**	**0.99**	**5.97**	**34.33**	**2.50**
Correlation coefficient of shoot fly (%) incidence														**0.06**	**0.24**	**-0.37**	**0.43**	**-0.15**	**-0.25**	**-0.02**	**-0.01**
Correlation coefficient of Stem borer (%) incidence														**-0.23**	**-0.57**	**0.53**	**-0.04**	**-0.19**	**0.50**	**0.30**	**0.10**

Table-V.3k: (PMET-2) Statement showing losses in pearl millet due to insect pest complex (Centre: Fatehpur- Shekhawati)

Parameters	Yield kg/ha in treated plot	Yield kg/ha in Un-treated plot	% losses
1. Grain	2618	4013	37.00
2. Fodder	1632	3118	22.00

Date of sowing 07.07.2025; Date of harvesting 10.10.2025 Variety RHB 234

Table-V.3l: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Aurangabad)

No	SWW	Date of Observation	Days After Germi. nation	Shoot fly % incidence	Stem borer % incidence	FAW % damage	Hiary cater pillar /20 pl.	Chaffer beetle 20 / EH	Lady bird beetle/ 20 pl.	Chrysopa/ 20 pl.	Temp. O Maxi.	Temp. O Mini.	R.H. Morn.	R.H. Even.	Rainfall (mm)	Rainy Days
1	31	30/7-05/8	7 DAG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.1	23.4	86	97	18.5	3
2	32	06/8-12/8	14 DAG	5.00	0.00	0.00	0.00	0.00	2.00	0.00	29.3	23.1	79	96	4.5	1
3	33	13/8-19/8	21 DAG	15.00	10.00	0.00	0.00	0.00	3.00	0.00	31.5	23.6	70	88	54.5	4
4	34	20/8-26/8	28 DAG	15.00	10.00	10.00	0.00	0.00	2.00	0.00	30.3	22.8	83	94	85.0	4
5	35	27/8-02/9	35 DAG	15.00	10.00	10.00	2.00	1.00	3.00	0.05	29.6	22.8	71	83	72.0	2
6	36	03/9-09/9	42 DAG	15.00	10.00	15.00	2.00	1.00	3.00	0.05	28.3	22.5	81	96	14.5	3
7	37	10/9-16/9	49 DAG	15.00	10.00	20.00	2.00	0.00	2.00	0.00	29.6	21.4	72	88	4.5	1
8	38	17/9-23/9	56 DAG	15.00	10.00	20.00	1.00	1.00	3.00	0.00	31.3	22.4	59	85	0.0	0
9	39	24/9-30/9	63 DAG	15.00	10.00	20.00	0.00	1.00	2.00	0.00	29.9	22.7	75	91	62.5	3
			Mean	**12.22**	**7.78**	**10.56**	**0.78**	**0.44**	**2.22**	**0.01**	**29.88**	**22.74**	**75.11**	**90.89**	**316.00**	**21.00**
									Shoot fly% incidence		0.376^{NS}	-0.462^{NS}	-0.543^{NS}	-0.612^{NS}	0.371^{NS}	0.052^{NS}
								Correlation	**Stem borer % incidence**		0.375^{NS}	-0.447^{NS}	-0.509^{NS}	-0.617^{NS}	0.404^{NS}	0.134^{NS}
									FAW % incidence		0.015^{NS}	$\underline{\mathbf{-0.824}}^{**}$	-0.448^{NS}	-0.397^{NS}	-0.089^{NS}	-0.367^{NS}

Table-V.3m: (PMET-2) Statement showing losses in pearl millet due to insect pest complex (Centre: Aurangabad)

No.	Treatments	Treated plot	Untreated plot	% losses
1	**Grain yield kg/ha**	2200	2000	9.09
2	**Fodder yield kg/ha**	4500	3800	15.56

Table- V.3n: (PMET-2) Incidence of insect-pests and population) and population of natural enemies in pearl millet (Centre: Hisar)

No.	SMW	Date of Observation	Days After Germi. nation	Shoot fly % incidence	Stem borer % incidence	Grass hopper % damage	FAW % damage	Mean Grey weevil damage score	Hiary cater pillar /20	Blister beetles/ 20 EH	Chaffer beetle 20 / EH	Helicovera larvae/ 20 EH	Lady bird beetle/ 20 nl	Chrysopa/ 20 pl.	Temp. O Maxi.	Temp. O Mini.	R.H. Morn.	R.H. Even.	Wind speed km/hr	BSS (hrs)	Eo (mm)	Rainfall (mm)	Rainy Days
1	28	11.07 .25	7 DAG	0.0 0	0.0 0	0	0	0	0	0	0	0	0	0	32. 1	25. 4	93. 9	77. 9	6.5	3	3. 5	134 .8	5
2	29	18.07 .25	14 DAG	2.0 0	0.0 0	0	0	0	0	0	0	0	0	0	33	26. 9	89. 2	67. 7	6.6	4.1	3. 5	9.1	1
3	30	25.07 .25	21 DAG	6.0 0	0.0 0	1	5	5	0	0	0	0	0	0	35. 4	27. 5	89. 3	68. 7	5.4	6.2	4. 4	30. 8	2
4	31	01.08 .25	28 DAG	0.0 0	5.0 0	2	10	5	1	0	0	0	0	0	31. 8	26	92. 8	75. 6	7.2	2.7	3. 1	128 .1	3
5	32	08.08 .25	35 DAG	0.0 0	10. 00	0	10	10	0	0	0	0	0	1	33. 9	26. 7	83. 7	65. 8	5.4	4.6	3. 5	0.4	0
6	33	14.08 .25	42 DAG	0.0 0	10. 00	0	0	0	0	0	0	0	1	1	33. 1	27. 2	90. 4	71. 5	5.3	3.5	3. 2	7.4	1
7	34	22.08 .25	49 DAG	0.0 0	0.0 0	0	0	0	0	0	0	0	1	2	32. 2	25. 8	93. 8	77. 1	5.2	4.1	2. 6	63. 4	2
8	35	29.08 .25	56 DAG	0.0 0	0.0 0	0	0	0	0	0	0	0	0	0	27. 2	25. 5	97. 4	80. 4	6.2	3.4	2. 3	144 .3	5
9	36	05.09 .25	63 DAG	0.0 0	0.0 0	0	0	0	0	2	3	1	0	0	32. 8	25. 7	89. 7	80. 7	12.1	4.4	3. 6	60. 9	4
10	37	12.09 .25	70 DAG	0.0 0	0.0 0	0	0	0		1	2	1	0	0	34. 2	25. 8	82. 4	57. 4	5	8.3	5. 6	0	0
11	38	19.09 .25	77 DAG	0.0 0	0.0 0	0.0 0	0.0 0	0.00	0.00	0.00	2.00	0.00	0.00	0.0 0	35. 3	25. 4	81. 8	46. 3	3.5	8.1	4. 4	0	0
12	39	26.09 .25	84 DAG	0	0	0	0	0	0	0	0	0	0	0	34. 9	25. 2	88. 4	57. 1	3.7	7.3	4. 1	0	0
Mean				0.6 7	2.0 8	0.2 5	2.5 0	1.67	0.13	0.25	0.58	0.17	0.17	0.3 3	--	--	--	--	--	Total		579 .2	23

N.B.: Date of sowing: 02.07.2025, Date of Harvesting: 07.10.2025, Variety : HB 299, Total rainfall= 657.4 mm, Rainy days= 27

Table- V.3o: (PMET-2) Statement showing losses in pearl millet due to insect pest complex (Centre: Hisar)

Parameters	Yield kg/ha in treated plot	Yield kg/ha in Un-treated plot	% losses
1. Grain	3920	3698	5.60
2. Fodder	11356	11024	2.92

Table-V.3p: (PMET-2) Statement showing incidence of insect-pests and population of natural enemies in pearl millet (Centre: Jaipur)

No	S W M	Date of Observation	DAG	Shoot fly % incidence	Stem borer % incidence	WG. & Termite % Inci	leaf roller damage score (0-10)	Grass hopper % damage	FAW % damage	Mean Grey weevil damage score (0-10)	Hiary caterpillar/20 plant	Blister beetles/ 20 EH	Chaffer beetle/ 20 EH	Helicovera larvae/ 20 EH	*Eublema silicula/ 20* E.H.	Ladybird beetle/ 20 plan	Chrysopa/ 20 pl.	Spider/20 plant
1	30	23.07.25 to 29.07.25	7 DAG	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
2	31	30.07.25 to 05.08.25	14 DAG	5	0	10	1	0	0	0	0	0	0	0	0	0	0	0
3	32	06.08.25 to 12.08.25	21 DAG	10	5	10	3	0	0	0	0	0	0	0	0	0	0	4
4	33	13.08.25 to 19.08.25	28 DAG	20	10	15	3	0	0	0	0	0	0	0	0	0	0	6
5	34	20.08.25 to 26.08.25	35 DAG	10	10	15	4	0	0	0	0	0	0	0	0	0	0	7
6	35	27.08.25 to 02.09.25	42 DAG	10	15	5	4	0	0	0	0	0	0	0	0	0	0	10
7	36	03.09.25 to 09.09.25	49 DAG	5	15	0	4	0	0	0	0	0	0	1	0	0	0	10
8	37	10.9.025 to 16.09.25	56 DAG	10	15	0	4	0	5	0	0	0	4	2	0	0	0	8
9	38	17.09.25 to 23.09.25	63 DAG	20	25	0	2	0	10	0	0	0	6	4	0	0	0	4
10	39	25.09.25 to 30.09.25	70 DAG	25	25	0	0	0	5	0	0	0	7	2	0	0	0	2
11	40	01.10.25 to 07.10.25	77 DAG	35	25	0	0	0	0	0	0	0	2	1	0	0	0	0
			Mean	13.64	13.18	5.45	2.27	0.00	1.82	0.00	0.00	0.00	1.73	0.91	0.00	0.00	0.0	4.64

Date of sowing: 09.7.2025, Date of Harvesting: 08.10.2025, Variety: RHB 234.

Table-V.3q: (PMET-2) PMET-2: Statement showing losses in pearl millet due to insect pest complex (Centre: Jaipur)

Yields (kg/ha)	Protected Plot kg/ha	Unprotected Plot kg/ha	Losses %
Grain Yield	21.10	37.40	32.7
Fodder Yield	14.2	32.7	20.6

Table-V.3r: (PMET-2) Correlation of major insect-pests of pearl millet with different weather parameters (Centre: Jaipur)

No.	S W W	Date of Observation	Days After Germi. nation	Temp. O Maxi.	Temp. O Mini.	R.H. Morn.	R.H. Even.	Wind speed km/hr	Rainfall (mm)	Rainy Days
1	30	23.07.25 to 29.07.25	7 DAG	34.8	23.7	90.0	80.7	5.7	114.0	1.0
2	31	30.07.25 to 05.08.25	14 DAG	31.1	23.2	89.0	84.1	4.0	73.0	4.0
3	32	06.08.25 to 12.08.25	21 DAG	34.3	24.1	87.0	83.9	3.6	0.0	0.0
4	33	13.08.25 to 19.08.25	28 DAG	34.3	24.7	83.4	67.4	3.0	6.0	**1.0**
5	34	20.08.25 to 26.08.25	35 DAG	30.3	22.0	84.6	83.9	3.5	191.0	**6.0**
6	35	27.08.25 to 02.09.25	42 DAG	31.8	22.4	84.3	80.3	3.0	119.0	**4.0**
7	36	03.09.25 to 09.09.25	49 DAG	31.5	21.5	85.3	71.9	3.1	96.0	**2.0**
8	37	10.9.025 to 16.09.25	56 DAG	33.5	24.1	71.6	62.4	3.8	0.0	0.0
9	38	17.09.25 to 23.09.25	63 DAG	35.3	23.6	76.9	68.9	4.3	0.0	0.0
10	39	25.09.25 to 30.09.25	70 DAG	35.3	22.8	74.0	58.4	5.7	0.0	0.0
11	40	01.10.25 to 07.10.25	77 DAG	33.3	21.1	84.7	70.1	4.0	161.0	3.0
								Total	760.0	21.0
Correlation			Shoot fly % incidence	0.372^{NS}	-0.241^{NS}	-0.410^{NS}	-0.579^{NS}	0.072^{NS}	-0.090^{NS}	-0.147^{NS}
			Stem borer % incidence	0.297^{NS}	-0.396^{NS}	**-0.686^{*}**	**-0.721^{*}**	0.061^{NS}	-0.120^{NS}	-0.217^{NS}
			White grub % Inci.&Termite % Inci.	-0.347^{NS}	0.323^{NS}	0.500^{NS}	0.578^{NS}	-0.366^{NS}	0.161^{NS}	0.438^{NS}
			leaf roller damage score (0-10)	-0.479^{NS}	0.067^{NS}	-0.123^{NS}	0.152^{NS}	**-0.803^{**}**	-0.010^{NS}	0.202^{NS}

Table V.4a: (PMET-3) Survey of insect pests of *kharif* pearl millet crop on farmer's fields (Centre: Jamnagar)

No. of farmer	Date of survey	Location	Taluka/ Tehsil	District	Variety	Area (ha.)	Crop stage	Shoot fly %	Stem borer %	*Helicoverpa* larvae/ 5 E.H.	Blister beetles / 5 E.H.	Chaffer beetle/ 5 E.H.	Grass hopper % damage	Grey weevil damage score (0-10)	Leaf binder damage score (0-10)	Lady bird beetle / 5 Pl.	Chryso pa/5 Pl.
1	16.09.25	Singhach	Lalpur	Jamnagar	GHB 1129	0.5	EH	6	4	3	1	1	0	2	2	1	1
2	16.09.25	Shekhpat	Jamnagar	Jamnagar	GHB 1129	0.5	EH	4	7	3	0	0	5	3	2	1	1
3	17.09.25	Maliya	Maliya	Morbi	Remic 1020	0.5	EH	5	5	5	1	1	5	2	2	2	1
4	17.09.25	Juna Devaliya	Halvad	Morbi	Remic 1020	1.5	EH	5	6	4	0	1	10	3	2	3	0
5	17.09.25	Chuli	Dhangadhra	Sur.nagar	Gauri	0.5	EH	4	5	3	1	2	5	3	2	1	1
6	17.09.25	Sinad	Radhanpur	Patan	SAGAR 222	0.5	EH	7	8	5	1	0	5	3	1	1	1
7	17.09.25	Jetalpara	Radhanpur	Patan	Unknown	0.5	EH	6	6	6	1	1	5	3	3	1	1
8	17.09.25	Vada	Kankrej	Banaskantha	Fodder bajra	0.1	EH	10	5	5	0	5	5	3	1	2	0
9	17.09.25	Chekla	Kankrej	Banaskantha	Fodder bajra	0.5	EH	8	4	8	1	1	5	3	2	1	2
10	17.09.25	Sandiya	Deesa	Banaskantha	86M20	0.2	EH	7	8	7	1	5	10	2	1	1	1
11	17.09.25	MRS	Deesa	Banaskantha	Diff. Hybrids	1.0	EH	5	8	6	1	6	5	3	3	2	2
12	17.09.25	Bhakar nani	Dantiwada	Banaskantha	Nandi75	1.0	EH	8	5	4	1	5	5	2	2	1	0
13	17.09.25	Bhakhar moti	Dantiwada	Banaskantha	Nandi75	1.0	EH	5	7	5	1	2	5	4	2	3	1
14	18.09.25	Nilpur	Dantiwada	Banaskantha	86M22	1.0	EH	12	5	5	0	5	5	2	3	2	2
15	18.09.25	Vaghrol	Dantiwada	Banaskantha	Avani 45	0.5	EH	5	6	5	0	1	10	3	4	4	0
16	18.09.25	Lodpa	Dantiwada	Banaskantha	Avani 45	0.5	EH	8	5	4	2	7	5	2	2	2	2
17	18.09.25	Dangiya	Dantiwada	Banaskantha	local	1.0	EH	8	10	6	1	3	5	2	1	1	1
18	18.09.25	Chandisar	Dantiwada	Banaskantha	86M20	0.5	EH	6	8	2	0	4	5	3	3	1	1
19	18.09.25	Devpura	Palanpur	Banaskantha	MP7872	0.2	EH	8	10	5	2	5	5	4	2	2	0
20	18.09.25	Jagana	Palanpur	Banaskantha	US7306	1.0	EH	5	5	6	1	2	10	5	2	1	2
21	18.09.25	Ganeshpura	Palanpur	Banaskantha	Fodder bajra	0.5	EH	10	8	7	3	3	10	2	2	1	1
22	18.09.25	Aithor	Unja	Mehsana	Unknown	0.5	EH	5	6	8	0	2	10	2	1	2	2
23	18.09.25	Jagudan	Mehsana	Mehsana	Avani	0.2	EH	6	5	11	1	1	15	3	5	1	1
24	18.09.25	Aaya	Chotila	Sur.nagar	Sagar 222	1.0	EH	6	5	7	3	2	20	1	6	3	2
25	18.09.25	Dhedhuki	Chotila	Sur.nagar	Sagar 222	1.0	EH	4	4	8	2	1	15	1	5	1	3
26	18.09.25	Magharik hada	Chotila	Sur.nagar	Local	0.5	EH	3	5	8	3	2	5	0	2	3	1
27	18.09.25	Nana kandhasar	Chotila	Sur.nagar	Sagar 222	0.5	EH	2	3	5	1	1	0	2	2	1	2
							Mini.	2	3	2	0	0	0	0	1	1	0
							Maxi.	12	10	11	3	20	15	4	6	4	3
							Mean	5.54	5.74	5.81	0.96	1.48	7.74	2.35	2.48	1.62	1.18

Table V.4b: (PMET-3) Survey of insect pests of *kharif* pearl millet crop on farmer's fields (Centre: Anand)

No. of farmer	Date of	Location	Taluka/ Tehsil	District	Variety	Area (ha.)	Crop stage	Shoot fly %	Stem borer %	White grub damage %	Termite damage %	*Helicoverpa* larvae/ 5 E.H.	Blister beetles/ 5 E.H.	Chaffer beetle/ 5 E.H.	Grass hopper % damage	Grey weevil damage score	Leaf binder damage score	Fall Army Worm %	Lady bird beetle/ 5 Pl.	Chrysopids/5 Pl.	If Any other pest observed
1	20-09-2025	Navli	Anand	Anand	Dhany	0.5	E.H.	5.00	2.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	0.00	1.00	0.00
2	20-09-2025	Navli	Anand	Anand	Sagar 222	0.8	E.H.	5.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
3	20-09-2025	Napad	Anand	Anand	Advanta 555	0.9	E.H.	5.00	15.00	0.00	0.00	2.00	0.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00	0.00
4	20-09-2025	Khadol	Ankl av	Anand	Dhany 555	0.3	E.H.	5.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00	0.00
5	20-09-2025	Khadol	Ankl av	Anand	Advanta	0.2	E.H.	15.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00	0.00
6	20-09-2025	Asodar	Ankl av	Anand	Dhany 555	0.5	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00	0.00
7	20-09-2025	Mujkuva	Ankl av	Anand	Advanta	0.5	E.H.	5.00	15.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00	0.00
8	20-09-2025	Mujkuva	Ankl av	Anand	Pionear	0.5	E.H.	5.00	5.00	0.00	0.00	1.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
9	28-09-2025	Kosindra	Sankheda	Vadodara	Desi	0.3	E.H.	15.00	20.00	0.00	0.00	3.00	0.00	0.00	10.00	0.00	2.00	5.00	2.00	1.00	0.00
10	28-09-2025	Kosindra	Sankheda	Vadodara	Desi	0.6	E.H.	10.00	20.00	0.00	0.00	4.00	0.00	0.00	15.00	0.00	2.00	0.00	1.00	0.00	0.00
11	28-09-	Kosindra	Sankheda	Vadodara	Desi	0.2	E.H.	10.00	5.00	0.00	0.00	4.00	0.00	0.00	10.00	0.00	2.00	0.00	1.00	0.00	0.00

	2025																				
12	28-09-2025	Sundarana	Petlad	Anand	Sagar	0.4	E.H.	5.00	5.00	0.00	0.00	1.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
13	28-09-2025	Sundarana	Petlad	Anand	Sagar	0.6	E.H.	5.00	5.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
14	28-09-2025	Sundarana	Petlad	Anand	Pionear	0.6	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	1.00	0.00	0.00
15	28-09-2025	Shahpur	Petlad	Anand	Advanta 5151	1.2	E.H.	5.00	20.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00	0.00
16	28-09-2025	Shahpur	Petlad	Anand	Pionear	0.8	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
17	28-09-2025	Fangani	Petlad	Anand	Pionear	1.1	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
18	28-09-2025	Fangani	Petlad	Anand	Balram 222	0.6	E.H.	5.00	20.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	0.00	0.00	0.00
19	2-10-2025	Sihol	Petlad	Anand	86M84	0.5	E.H.	5.00	2.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	0.00	1.00	0.00
20	2-10-2025	Sandesar	Anand	Anand	Sagar 222	0.8	E.H.	5.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
21	2-10-2025	Sandesar	Anand	Anand	Desi	0.2	E.H.	15.00	15.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	1.00	0.00
22	2-10-2025	Valasan	Anand	Anand	Advanta	0.2	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
23	2-10-2025	Valasan	Anand	Anand	Balram	0.2	E.H.	10.00	20.00	0.00	0.00	1.00	0.00	0.00	10.00	0.00	3.00	0.00	1.00	0.00	0.00
24	2-10-2025	Bandhani	Petlad	Anand	Desi	0.3	E.H.	5.00	15.00	0.00	0.00	4.00	0.00	0.00	3.00	0.00	1.00	0.00	1.00	0.00	0.00
25	2-10-2025	Mahelav	Petlad	Anand	86M11	0.7	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00	0.00
26	2-10-	Mah		Anan	86M	0.5	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	3.00	0.00	1.00	0.00	0.00

	2025	elav	Petlad	d	11																
27	2-10-2025	Padgol	Petlad	Anand	Desi	0.6	E.H.	10.00	15.00	0.00	0.00	1.00	0.00	0.00	10.00	0.00	2.00	0.00	1.00	1.00	0.00
28	08-10-2025	Akhdol	Nadiad	Kheda	Balram	0.3	E.H.	15.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	1.00	0.00	0.00
29	08-10-2025	Akhdol	Nadiad	Kheda	Pionear	0.5	E.H.	15.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	3.00	0.00	1.00	0.00	0.00
30	08-10-2025	Bamroli	Petlad	Anand	86M84	0.3	E.H.	5.00	15.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00	0.00
31	08-10-2025	Jol	Anand	Anand	86M84	0.5	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
32	08-10-2025	Dalapura	Anand	Anand	Desi	0.5	E.H.	10.00	5.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00	0.00
33	08-10-2025	Tarapur	Tarapur	Anand	Pionear	0.7	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00	0.00
34	08-10-2025	Linga	Umreth	Anand	Pionear	0.1	E.H.	15.00	15.00	0.00	0.00	3.00	0.00	0.00	10.00	0.00	3.00	0.00	1.00	0.00	0.00
35	08-10-2025	Pandvania	Thasra	Kheda	86M84	0.3	E.H.	5.00	5.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
36	08-10-2025	Dhunadara	Thasra	Kheda	86M84	0.4	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00
37	08-10-2025	Khambholaj	Anand	Anand	Desi	0.5	E.H.	15.00	15.00	0.00	0.00	3.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00	0.00
38	08-10-2025	Sarsa	Anand	Anand	Desi	0.4	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00	0.00
	Minimum	**1.2**		**15.0**	**20.0**	**0.0**	**0.0**	**4.0**	**0.0**	**0.0**	**15.0**	**0.0**	**3.0**	**5.0**	**2.0**	**1.0**	**0.0**				
	Maxi	**0.1**		**5.0**	**2.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**				

	mum																
	Mean	**0.5**		**8.2**	**11.3**	**0.0**	**0.0**	**1.5**	**0.0**	**0.0**	**4.9**	**0.0**	**1.6**	**0.1**	**0.4**	**0.1**	**0.0**

Table V.4 c: (PMET-3) Survey of insect pests of *kharif* pearl millet crop on farmer's fields (Centre: Jaipur)

No. of farmer	Date of survey	Location	Taluka/ Tehsil	District	Area (ha.)	Crop stage	Shoot fly damage %	Stem borer damage %	White grub damage %	Termite damage %	Helicoverpa larvae/ 5 E.H.	Blister beetles/ 5 E.H.	Chafer beetle/ 5 E.H.	Grass hopper % damage	Grey weevil damage score (0-10)	Leaf binder damage score (0-10)	Fall Army Worm % damage	Lady bird beetle/ 5 Pl.	Chrysopa/5 Pl.
1	15.09.25	Bassi	Bassi	Jaipur	1.5	Maturity	3	0	0	0	4	0	0	0	0	1	0	0	0
2	15.09.25	Kanota	Bassi	Jaipur	2.5	Maturity	4	0	2	0	2	0	0	11	0	0	0	0	0
3	15.09.25	Jhar	Bassi	Jaipur	1	Maturity	2	0	0	0	1	0	0	0	0	0	0	0	0
4	15.09.25	Dhandholi	Bassi	Jaipur	1	Maturity	1	0	8	0	2	0	0	8	0	0	0	0	0
5	15.09.25	Mdanpura	Bassi	Jaipur	1	Maturity	2	8	3	0	3	0	3	8	0	0	0	0	0
6	15.09.25	Dayalpura	Bassi	Jaipur	0.5	Maturity	1	9	11	5	5	0	4	3	0	1	0	0	0
7	15.09.25	Badwa	Bassi	Jaipur	1.5	Maturity	3	2	0	0	4	0	0	5	0	0	0	0	0
8	15.09.25	Jirota Kalan	Dausa	Dausa	1.2	Maturity	7	3	11	0	6	0	5	11	0	0	0	0	0
9	15.09.25	Dausa	Dausa	Dausa	1	Maturity	6	7	2	0	5	0	2	14	0	2	0	0	0
10	15.09.25	Bairawas	Dausa	Dausa	1	Maturity	3	2	5	3	2	0	0	12	0	0	0	0	0
11	15.09.25	Bhojpura	Dausa	Dausa	1	Maturity	6	10	20	11	3	0	1	8	0	3	0	0	0
12	15.09.25	Sikandra	Sikrai	Dausa	1	Maturity	7	2	7	0	0	0	1	5	0	6	0	0	0

13	15.09.25	Ramgarh	Sikrai	Dausa	2.5	Maturity	4	3	8	1	2	0	3	6	0	3	0	0	0
14	15.09.25	Chandpur	Sikrai	Dausa	1	Maturity	5	2	3	0	0	0	4	9	0	2	0	0	0
15	15.09.25	Geejgarh	Sikrai	Dausa	1	Maturity	4	2	16	9	0	0	2	8	0	0	0	0	0
16	15.09.25	Budhali	Sikandara	Dausa	1.5	Maturity	3	5	1	0	0	0	5	11	0	4	0	0	0
17	15.09.25	Ghzipur	Mahwa	Dausa	1	Maturity	1	5	0	0	1	0	0	8	0	3	0	0	0
18	15.09.25	Gahnoli	Mahwa	Dausa	1	Maturity	0	4	0	0	2	8	0	7	0	0	0	0	0
19	15.09.25	Monchi Ka pura	Nandoti	Karoli	1	Maturity	8	2	1	0	6	0	0	9	0	0	0	0	0
20	15.09.25	Talchinda	Nandoti	Karoli	1.2	Maturity	5	0	0	0	1	0	3	10	0	0	0	0	0
21	15.09.25	Sandera	Nandoti	Karoli	1	Maturity	2	2	0	0	2	0	0	12	0	0	0	0	0
22	15.09.25	Gidani	Nandoti	Karoli	0.6	Maturity	5	1	0	0	1	0	8	14	0	0	0	0	0
23	15.09.25	Ghatoli	Nandoti	Karoli	1	Maturity	5	0	0	0	0	0	0	11	0	0	0	0	0
24	15.09.25	Talchinda	Nandoti	Karoli	1	Maturity	9	0	0	0	0	0	7	5	0	0	0	0	0
25	15.09.25	Timaura	Nandoti	Karoli	1.5	Maturity	5	0	0	0	3	0	0	8	0	1	0	0	0
26	15.09.25	Dholeta	Nandoti	Karoli	2.5	Maturity	12	10	0	0	4	0	0	9	0	1	0	0	0
27	15.09.25	Gudha Chandraji	Nandoti	Karoli	1	Maturity	5	0	0	0	4	0	2	5	0	0	0	0	0
28	15.09.25	Rajoli	Todabhim	Karoli	1	Maturity	4	3	0	0	2	0	0	5	0	0	0	0	0
29	15.09.25	Balghat	Todabhim	Karoli	1	Maturity	5	2	0	0	2	0	1	0	0	0	0	0	0
30	15.09.25	Panchla	Todabhim	Karoli	0.6	Maturity	5	12	0	0	2	2	8	0	0	0	0	0	0
31	15.09.25	Salimpura	Todabhim	Karoli	1	Maturity	2	15	0	0	0	0	0	2	0	0	0	0	0
32	15.09	Lalaram	Todabhi	Karoli	0.5	Matu	3	4	0	0	0	0	8	5	0	2	0	0	0

	.25	ka pura	m			rity													
33	15.09.25	Chak Sikandra pur	Hindaun	Karoli	1.5	Maturity	1	2	0	0	0	0	0	6	0	0	0	0	0
34	15.09.25	Gopipur	Hindaun	Karoli	1.2	Maturity	2	0	0	0	0	0	0	7	0	0	0	0	0
35	15.09.25	Kyarda Khurd	Hindaun	Karoli	1	Maturity	0	3	0	0	0	0	0	0	0	0	0	0	0
36	15.09.25	Ghonsla	Hindaun	Karoli	1.5	Maturity	5	2	0	0	1	0	9	4	0	0	0	0	0
37	15.09.25	Khawda	Hindaun	Karoli	2.5	Maturity	0	8	0	0	3	0	8	6	0	2	0	0	0
38	15.09.25	Mahoo Ibrahimpur	Hindaun	Karoli	1	Maturity	3	0	1	0	12	0	10	0	0	0	0	0	0
39	15.09.25	Sapotra	Sapotra	Karoli	1	Maturity	2	1	0	0	0	0	8	5	0	2	0	0	0
40	15.09.25	Karai	Sapotra	Karoli	0.6	Maturity	0	1	0	0	0	0	11	0	0	1	0	0	0
41	15.09.25	Padampura	Baseri	Dholpur	1.2	Maturity	8	5	0	0	2	0	10	0	0	0	0	0	0
42	15.09.25	Jahan Nagar	Rupbas	Bharatpur	1	Maturity	5	2	0	0	0	0	0	0	0	0	0	0	0
43	16.09.25	Belara Kalan	Kumher	Bharatpur	1	Maturity	1	0	3	1	8	0	6	9	0	0	0	0	0
44	16.09.25	Nagla Baghera	Kumher	Bharatpur	1	Maturity	2	0	5	0	6	2	0	0	0	1	0	0	0
45	16.09.25	Kumher	Kumher	Bharatpur	0.6	Maturity	4	0	4	0	4	1	0	2	0	0	0	0	0
46	16.09.25	Gangar Soli	Kumher	Bharatpur	1	Maturity	5	0	0	0	10	0	2	6	0	0	0	0	0
47	16.09.25	Tamrar	Kumher	Bharatpur	0.5	Maturity	8	1	0	0	0	0	1	8	0	0	0	0	0
48	16.09.25	Deeg	Deeg	Bharatpur	1.2	Maturity	5	4	0	1	7	0	1	0	0	2	0	0	0
49	16.09.25	Panhori	Deeg	Bharatpur	1	Maturity	2	25	0	1	0	2	0	8	0	1	0	0	0
50	16.09.25	Madhera	Nagar	Bharatpur	1.5	Maturity	7	2	0	0	9	0	0	12	0	1	0	0	0

51	16.09.25	Nagar	Nagar	Bharatpur	0.6	Maturity	1	10	0	1	11	4	1	0	0	2	0	0	0
52	16.09.25	Moraka	Nagar	Bharatpur	1	Maturity	1	0	1	2	7	0	0	1	0	0	0	0	0
53	16.09.25	Ranota	Kathumar	Alwar	1	Maturity	7	2	0	7	2	0	1	35	0	2	0	0	0
54	16.09.25	Semla Khurd	Laxmangarh	Alwar	1.5	Maturity	1	0	1	2	0	0	8	50	0	0	0	0	0
55	16.09.25	Dhadholi	Ramgarh	Alwar	1.2	Maturity	0	10	0	0	0	0	1	14	0	0	0	0	0
56	16.09.25	Jatiyana	Kotkasim	Alwar	1	Maturity	0	7	0	40	0	0	0	12	0	0	0	0	0
57	16.09.25	Katooki	Rajgarh	Alwar	1	Maturity	5	0	0	20	0	0	0	2	0	0	0	0	0
58	16.09.25	Tatarpur	Tijara	Alwar	1	Maturity	4	0	0	0	6	6	0	14	0	0	0	0	0
59	16.09.25	Dilwarpur	Alwar	Alwar	1	Maturity	4	0	0	0	4	0	6	0	0	0	0	0	0
60	16.09.25	Alwar	Alwar	Alwar	1	Maturity	4	0	0	2	0	0	0	12	0	0	0	0	0
61	16.09.25	Behrod	Behrod	Kotputli-Behror	0.6	Maturity	1	0	0	0	0	0	0	5	0	0	0	0	0
62	16.09.25	Bahrod	Behrod	Kotputli-Behror	1	Maturity	1	0	0	0	0	2	0	30	0	0	0	0	0
63	16.09.25	Kherki Veerbhan	Kotputli	Kotputli-Behror	1.5	Maturity	1	1	0	0	1	0	8	1	0	1	0	0	0
64	16.09.25	Rughnathpura	Kotputli	Kotputli-Behror	1.2	Maturity	0	1	0	0	1	0	0	9	0	0	0	0	0
65	16.09.25	Paota	Kotputli	Kotputli-Behror	0.6	Maturity	8	2	0	0	1	0	1	8	0	0	0	0	0

66	16.09.25	Pragpura	Viratnagar	Jaipur	1	Maturity	8	2	0	0	1	0	2	25	0	0	0	0	0
67	16.09.25	Bagawas Ahiran	Viratnagar	Jaipur	1	Maturity	7	0	0	0	17	5	10	30	0	0	0	0	0
68	16.09.25	Kairli	Viratnagar	Jaipur	1	Maturity	9	5	0	0	0	0	0	8	0	1	0	0	0
69	16.09.25	Antela Bahdoda	Viratnagar	Jaipur	1.5	Maturity	8	2	0	0	0	0	0	1	0	0	0	0	0
70	16.09.25	Neelka	Viratnagar	Jaipur	1.2	Maturity	2	0	0	4	0	0	0	9	0	0	0	0	0
71	16.09.25	Bhabroo	Viratnagar	Jaipur	0.6	Maturity	1	0	0	0	0	0	0	8	0	0	0	0	0
72	16.09.25	Dhani Gaiskan	Viratnagar	Jaipur	1	Maturity	4	1	0	8	0	0	0	2	0	0	0	0	0

Table V.4 d: (PMET-3) Survey of insect pests of *kharif* pearl millet crop on farmer's fields (Centre: Fatehpur Shekhawati)

No. of farmer	Date of survey	Location	Taluka/ Tehsil/Block	District	Variety	Area (ha.)	Crop stage	Shoot fly %	Stem borer %	White grub damage %	Termite damage %	*Helicoverpa* larvae / 5 E.H.	Blister beetles/ 5 E.H.	Chaffer beetle/ 5 E.H.	Grasshopper damage %	Grey weevil damage score (0-10)	Leaf binder damage score (0-10)	Fall Army Worm damage%	Lady bird beetle/ 5 Pl.	Chrysopa/5 Pl.	If Any other pest observed
1	10.09.2025	Garinda	Fatehpur-Shekhawati	Sikar	Proagro 9444	1.6	Ear Head	35.00	15.00	0.00	0.00	32.00	9.00	0.00	0.00	2.00	2.00	0.00	1.00	1.00	
2	10.09.2025	Garinda	Fatehpur-Shekhawati	Sikar	Proagro 9444	1.0	Ear Head	40.00	10.00	0.00	0.00	30.00	8.00	0.00	0.00	2.00	2.00	0.00	2.00	1.00	
3	10.09.2025	Harsawa	Fatehpur-Shekhawati	Sikar	Proagro 9444	2.0	Ear Head	30.00	5.00	0.00	0.00	26.00	4.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
4	10.09.2025	Harsawa	Fatehpur-Shekhawati	Sikar	Proagro 9444	1.0	Ear Head	35.00	5.00	0.00	5.00	27.00	0.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
5	10.09.	Harsawa	Fatehpur-	Sikar	Balwan	1.0	Ear	30.00	5.00	0.00	5.00	25.00	2.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	

	2025		Shekhawati				Head														
6	10.09.2025	Narsara	Fatehpur-Shekhawati	Sikar	Desi/ local	2.1	Ear Head	35.00	15.00	0.00	0.00	28.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	1.00	
7	10.09.2025	Narsara	Fatehpur-Shekhawati	Sikar	Desi/ local	2.0	Ear Head	35.00	5.00	0.00	0.00	20.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	2.00	
8	10.09.2025	Narsara	Fatehpur-Shekhawati	Sikar	Desi/ local	1.8	Ear Head	35.00	5.00	0.00	0.00	28.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
9	10.09.2025	Narsara	Fatehpur-Shekhawati	Sikar	Balwan	1.0	Ear Head	35.00	5.00	5.00	0.00	31.00	6.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
10	10.09.2025	Bathond	Fatehpur-Shekhawati	Sikar	Balwan	1.0	Ear Head	10.00	5.00	0.00	5.00	27.00	0.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	
11	10.09.2025	Bathond	Fatehpur-Shekhawati	Sikar	Balwan	1.0	Ear Head	15.00	10.00	10.00	5.00	31.00	1.00	0.00	0.00	1.00	2.00	0.00	1.00	2.00	
12	10.09.2025	Bathond	Fatehpur-Shekhawati	Sikar	Desi/ local	1.3	Ear Head	15.00	10.00	0.00	0.00	26.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
13	10.09.2025	Bathond	Fatehpur-Shekhawati	Sikar	Desi/ local	1.0	Ear Head	20.00	10.00	0.00	0.00	27.00	0.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
14	10.09.2025	Bibipur bada	Fatehpur-Shekhawati	Sikar	Desi/ local	1	Ear Head	30.00	10.00	0.00	5.00	31.00	8.00	0.00	0.00	2.00	2.00	0.00	0.00	0.00	
15	10.09.2025	Bibipur bada	Fatehpur-Shekhawati	Sikar	Balwan	1	Ear Head	30.00	5.00	0.00	5.00	25.00	5.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	
16	10.09.2025	Bibipur bada	Fatehpur-Shekhawati	Sikar	Balwan	2	Ear Head	35.00	5.00	0.00	5.00	24.00	1.00	0.00	0.00	2.00	3.00	0.00	1.00	0.00	
17	10.09.2025	Bibipur bada	Fatehpur-Shekhawati	Sikar	Balwan	1	Ear Head	30.00	5.00	0.00	0.00	26.00	4.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
18	10.09.2025	Bibipur bada	Fatehpur-Shekhawati	Sikar	Desi/ local	1	Ear Head	25.00	10.00	0.00	5.00	17.00	8.00	0.00	0.00	1.00	2.00	0.00	2.00	0.00	
19	10.09.2025	Tibba ki dhanii	Laxmangarh	Sikar	Balwan	1	Ear Head	25.00	10.00	0.00	0.00	8.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
20	10.09.2025	Tibba ki dhanii	Laxmangarh	Sikar	Balwan	1	Ear Head	30.00	10.00	0.00	5.00	3.00	2.00	0.00	0.00	1.00	1.00	0.00	2.00	0.00	
21	10.09.2025	Tibba ki dhanii	Laxmangarh	Sikar	Desi	1.0	Ear Head	30.00	5.00	0.00	10.00	19.00	6.00	0.00	0.00	1.00	2.00	0.00	2.00	1.00	
22	10.09.2025	Roru Badi	Laxmangarh	Sikar	Desi	1.5	Ear Head	25.00	10.00	0.00	5.00	17.00	8.00	0.00	0.00	1.00	2.00	0.00	2.00	0.00	
23	10.09.	Roru	Laxmangarh	Sikar	Desi	1.3	Ear	25.00	15.00	0.00	5.00	15.00	6.00	0.00	0.00	1.00	3.00	0.00	2.00	0.00	

	2025	Badi					Head														
24	10.09.2025	Roru Badi	Laxmangarh	Sikar	Balwan	1.1	Ear Head	15.00	5.00	5.00	19.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	1.00		
25	10.09.2025	Rajas	Laxmangarh	Sikar	Balwan	1.0	Ear Head	15.00	0.00	0.00	13.00	2.00	0.00	0.00	1.00	2.00	0.00	2.00	0.00	0.00	
26	10.09.2025	Rajas	Laxmangarh	Sikar	Desi	1.0	Ear Head	35.00	5.00	0.00	0.00	23.00	3.00	0.00	0.00	1.00	2.00	0.00	1.00	0.00	
27	10.09.2025	Rajas	Laxmangarh	Sikar	Proagro 9444	1.4	Ear Head	25.00	15.00	5.00	5.00	19.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	1.00	
28	10.09.2025	Rajas	Laxmangarh	Sikar	Proagro 9444	2.0	Ear Head	20.00	15.00	0.00	0.00	13.00	2.00	0.00	0.00	1.00	2.00	0.00	2.00	0.00	
29	10.09.2025	Rajas	Laxmangarh	Sikar	Proagro 9444	2.0	Ear Head	20.00	15.00	0.00	0.00	13.00	2.00	0.00	0.00	1.00	2.00	0.00	2.00	0.00	
30	10.09.2025	Bagdi	Laxmangarh	Sikar	MPMH 17	1	Ear Head	15.00	5.00	5.00	19.00	5.00	0.00	0.00	2.00	2.00	0.00	1.00	1.00		
31	10.09.2025	Bagdi	Laxmangarh	Sikar	Desi/ local	1.0	Ear Head	15.00	10.00	10.00	5.00	31.00	1.00	0.00	0.00	1.00	2.00	0.00	1.00	2.00	
32	10.09.2025	Bagdi	Laxmangarh	Sikar	Desi/ local	1.3	Ear Head	15.00	10.00	0.00	0.00	26.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
33	10.09.2025	Alakhpura	Laxmangarh	Sikar	JK Super 27	1.0	Ear Head	20.00	10.00	0.00	0.00	27.00	0.00	0.00	0.00	2.00	2.00	0.00	1.00	0.00	
34	10.09.2025	Rinu	Laxmangarh	Sikar	JK Super 27	1.5	Ear Head	20.00	15.00	0.00	0.00	8.00	1.00	0.00	0.00	1.00	1.00	0.00	2.00	0.00	
					Total	**43.9**	**Mean**	**25.59**	**8.68**	**1.18**	**3.71**	**21.03**	**3.29**	**0.00**	**0.15**	**1.56**	**1.76**	**0.12**	**1.12**	**0.34**	

Table V.4 e: (PMET-3) Survey of insect pests of *kharif* pearl millet crop on farmer's fields (Centre: Aurangabad)

Sr. No.	Survey Date	Location	Taluka/ Tehsil	Variety	Area (ha.)	Crop stage	Shoot fly % incidence	Stem borer% damage	Blister beetles/ 5 E.H.	Chaffer beetle/ 5 E.H.	FAW % damage	LBB/ 5 Pl.
1	25.09.25	Ghardon	Chh.Sambhajinagar	Mahyco-2210	1.50	EH	5.00	10.00	0.2	0.8	20	0.0
2	25.09.25	Sindon	Chh.Sambhajinagar	86M38	1.00	EH	0.00	00.0	0.4	1.0	10	0.0
3	25.09.25	Khodegaon	Chh.Sambhajinagar	Nandi-75	0.50	EH	10.00	10.0	1.0	0.6	20	0.5
4	25.09.25	Gadhe Jalgaon	Chh.Sambhajinagar	Mahyco 204	1.00	EH	6.00	10.0	0.0	2.0	30	0.80
5	25.09.25	Adgaon	Paithan	7872	1.50	EH	4.00	20.0	0.8	1.20	10	0.70
6	25.09.25	Georai Marda	Paithan	Kaveri boss	1.00	EH	8.00	0.0	2.0	0.80	40	0.60
7	25.09.25	Jamkhed	Ambad	Nath supper -27	1.00	EH	6.00	0.0	0.0	0.60	20	0.80
8	25.09.25	Kingaon	Ambad	Mahyco-2240	0.50	EH	0.00	0.0	2.0	1.0	10	0.0
9	25.09.25	Khedgaon	Ambad	Nandi-35	2.00	EH	2.00	15.0	1.0	0.0	20	1.0
10	25.09.25	Khedgaon	Ambad	ProAgro-9555	1.00	EH	10.00	5.00	3.0	0.0	30	0.0
11.	25.09.25	Dhavlapuri	Badnapur	86M90	1.00	EH	5.0	10.00	1.0	1.0	20	0.60
12.	25.09.25	Dhavlapuri	Badnapur	NHB-07	1.5	EH	4.00	5.00	2.0	0.5	30	0.20
13.	25.09.25	Bhaigaon	Badnapur	Kaveri boss	1.00	EH	7.00	14.00	3.0	2.0	20	0.30
14.	25.09.25	Bhaigaon	Badnapur	NHB-1717	1.00	EH	5.00	6.00	0.0	0.5	20	0.60
15	25.09.25	Ambadgaon	Badnapur	Mahyco-2240	2.00	EH	5.00	0.00	0.1	0.0	15	0.5
						Minimum	**0.0**	**0.0**	**0.0**	**0.0**	**10.0**	**0.0**
						Maximum	**10.0**	**20.0**	**3.0**	**2.0**	**40.0**	**1.0**
						Mean	**5.10**	**7.00**	**1.10**	**0.80**	**21.0**	**0.44**

Table V.4f: (PMET-3) Survey of insect pests of *kharif* pearl millet crop on farmer's fields (Centre: Hisar)

No. of farmer	Date of survey	Location	Taluka/ Tehsil	District	Variety	Area (ha.)	Crop stage	Shoot fly damage %	Stem borer damage %	White grub damage %	Termite damage %	*Helicoverpa* larvae / 5 E.H.	Blister beetles/ 5 E.H.	Chaffer beetle/ 5 E.H.	Grass hopper % damage	Grey weevil damage score (0-10) / 20 plant	Leaf binder damage score (0-10)	Fall Army Worm % damage	Lady bird beetle/ 5 Pl.	Chrysopa/ 5 Pl.	If Any other pest observed hairy caterpillar/ 20 plants
1	24.06.25	Shekpur	Bawal	Rewari	Pioneer	3.0	VS	1.0	0.0	4.0	2.0	0	0	0	3.0	0	0.0	0.00	0	0	0.0
2	24.06.25	Nagli parsapur	Bawal	Rewari	Pioneer	2.0	VS	3.0	0.0	4.0	2.0	0	0	0	3.0	0.0	0.0	0	0	0	0.0
3	08.07.25	Pali	Mahender garh	M.Garh	Pioneer	2	VS	2.0	5.0	2.0	0	0	0	0	3.0	0	0.0	4	0	0	0.0
4	08.07.25	Palri Panihara	Mahender garh	M.Garh	Hybrid	1	VS	0.0	0.0	3.0	0	0	0	0	0.0	0	0.0	8	0	0	0.0
5	10.07.25	Jhabua	Bawal	Rewari	Pioneer	2.0	VS	1.0	0.0	5.0	3.0	0	0	0	3.0	0.0	0.0	0	0	0	2.0
6	10.07.25	Dulhera kalan	Bawal	Rewari	Advanta	3.0	VS	3.0	0.0	3.0	1.0	0	0	0	2.0	0.0	0.0	0	0	0	3.0
7	16.07.25	Dulana	Mahender garh	M.Garh	Proagro	2	VS	0.0	2.0	2.0	1	0	0	0	0.0	0	0.0	5	0	1	1.0
8	16.07.25	Bawania	Kanina	M.Garh	Proago	2	VS	0.0	1.0	3.0	2	0	0	0	3.0	2	0.0	10	0	0	2.0
9	17.07.25	Bhojawas	Kanina	M.Garh	Pioneer	1	VS	2.0	0.0	3.0	0	0	0	0	2.0	0.0	0.0	10	0	0	3.0
10	17.07.25	Sundrra	Kanina	M.Garh	Pioneer	1	VS	3.0	0.0	4.0	0	0	0	0	0.0	0.0	0.0	5	0	2	2.0
11	24.07.25	Raipur	Bawal	Rewari	Pioneer	1.0	VS	3.0	0.0	5.0	2.0	0	0	0	2.0	2.0	0.0	3	0	0	0.0
12	24.07.25	Khushpura	jatusana	Rewari	JK	1.0	VS	0.0	2.0	4.0	3.0	0	0	0	5.0	0.0	0.0	5	0	0	0.0
13	29.07.25	Chirod	Hisar	Hisar	Shaktvardhak	1.0	VS	0.0	2.0	0.0	0.0	0	0	0	0.0	1	0.0	5.0	0	0	0.0
14	29.07.25	miran	Tosham	Bhiwani	Advanta	0.5	VS	0.0	0.0	0.0	0.0	0	0	0	2.0	0.0	0.0	4.0	0	0	1.0
15	29.07.25	Mandhan	Tosham	Bhiwani	Harihar	1.0	VS	0.0	2.0	0.0	0.0	0	0	0	0.0	0.0	0.0	4.0	0	2	1.0

16	29.07.25	Isharwal	Tosham	Bhiwani	Suparseeds	1.0	VS	0	0	0	0	0	0	0	0.0	1	0.0	5.0	0	1	0.0
17	29.07.25	Isharwal	Tosham	Bhiwani	Pioneer	0.5	VS	0	0	0	0	0	0	0	0.0	0	0.0	0.0	0	0	0.0
18	29.07.25	Rodhan	Tosham	Bhiwani	JK	1.0	VS	0	0	0	0	0	0	0	0.0	0	0.0	5.0	0	0	0.0
19	29.07.25	Rodhan	Tosham	Bhiwani	Bajri	0.4	VS	0	2	0	0	0	0	0	0.0	0	0.0	10.0	0	0	2.0
20	29.07.25	Slempur	Behl	Bhiwani	Pioneer	1.0	VS	0	0	0	2	0	0	0	0.0	0	0.0	5.0	0	0	0.0
21	29.07.25	Sharyar	Behl	Bhiwani	Pioneer	1.0	VS	1	1	0	0	0	0	0	2.0	1	0.0	10.0	0	0	2.0
22	29.07.25	Obra	Behl	Bhiwani	Hybrid	0.4	VS	0.0	2.0	0.0	0.0	0	0	0	3.0	1.0	0.0	20.0	0	0	0.0
23	29.07.25	Obra-2	Behl	Bhiwani	JK	1.0	VS	0.0	1.0	2.0	0.0	0	0	0	0.0	0.0	0.0	0.0	0	0	1.0
24	29.07.25	Bhateda	Loharu	Bhiwani	Pioneer	2.0	Vs	0.0	2.0	4.0	0.0	0	0	0	1.0	0.0	0.0	20.0	0	1	0.0
25	29.07.25	Dhani Kishanlal	Loharu	Bhiwani	Pioneer	1.0	VS	0.0	0.0	2.0	0.0	0	0	0	0.0	0.0	0.0	15.0	0	0	1.0
26	29.07.25	Loharu	Loharu	Bhiwani	Pioneer	1.0	VS	0.0	0.0	0.0	0.0	0	0	0	2.0	0.0	0.0	10.0	0	0	1.0
27	29.07.25	Fertia Bhima	Loharu	Bhiwani	HHB67	1.0	Vs	0.0	2.0	3.0	0.0	0	0	0	0.0	2.0	0.0	5.0	0	0	0.0
28	29.07.25	Sohansara	Loharu	Bhiwani	Jk	1.0	EH	0.0	1.0	3.0	0.0	0	1	0	0.0	0.0	0.0	0.0	0	0	1.0
29	29.07.25	Patharwa	Satnali	M.Garh	Hybrid	0.4	VS	0.0	2.0	2.0	0.0	0	0	0	2.0	0	0.0	0.0	0	0	2.0
30	29.07.25	Barda	Satnali	M.Garh	hybrid	1.0	VS	0.0	0.0	0.0	0.0	0	0	0	0.0	0.0	0.0	5.0	0	0	0.0
31	29.07.25	Dalanwas	Mahender garh	M.Garh	Pioneer	1.0	EH	0.0	0.0	0.0	0.0	0.5	0	2	0.0	1.0	0.0	0.0	0	0	1.0
32	29.07.25	Madhogarh	Mahender garh	M.Garh	Bajri	2	EH	0	2	0.0	0	1	1	2	2.0	0.0	0.0	0.0	0.0	2.0	0.0
33	29.07.25	Balana	M.Garh	M.Garh	Pioneer	1	EH	0	1	3	0	1		0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
34	29.07.25	Khatodra	M.Garh	M.Garh	HHB67	0.5	EH	0	0	0.0	0	0	2	1	0.0	1.0	0.0	0.0	0.0	0.0	0.0
35	29.07.25	Khatod	M.Garh	M.Garh	Hybrid	1.5	EH	0.0	0.0	0.0	0.0	2	0	0	0.0	0.0	0.0	0.0	0	0	2.0
36	29.07.25	Sisoth	M.Garh	M.Garh	HHB67	0.4	EH	0.0	0.0	2.0	0.0	0	0	0	2.0	0.0	0.0	0.0	0	0	0.0
37	29.07.25	Sisoth	M.Garh	M.Garh	Proagro	0.4	EH	0.0	2.0	3.0	0.0	1	0	0	0.0	0.0	0.0	0.0	2	2	0.0

38	29.07.25	Palri Badhawana	M.Garh	M.Garh	proagro	0.4	EH	0.0	3.0	2.0	0.0	2	1	0	2.0	2.0	0.0	0.0	0	0	0.0
39	29.07.25	Pali	M.Garh	M.Garh	Pioneer	0.5	EH	0.0	0.0	0.0	2.0	1	0	2	2.0	0.0	0.0	0.0	1	0	0.0
40	29.07.25	Jant	M.Garh	M.Garh	Piopneer	1.0	EH	0.0	4.0	3.0	0.0	0	0	0	3.0	1.0	0.0	0.0	0	0	0.0
41	29.07.25	Aadalpur	Charkhi Dadri	Charkhi Dadri	Hybrid	1.0	VS	0.0	3.0	0.0	0.0	0	0	0	2.0	0.0	0.0	10.0	0	1	2.0
42	29.07.25	Adampur Dhadi	Charkhi Dadri	Charkhi Dadri	Proagro	0.4	EH	0.0	0.0	5.0	0.0	2	1	0	0.0	0.0	0.0	0.0	0	0	1.0
43	29.07.25	Charkhi Dadri	Charkhi Dadri	Charkhi Dadri	Pioneer	1.0	EH	0.0	0.0	0.0	0.0	1	1	0	0.0	1.0	0.0	0.0	0	0	1.0
44	29.07.25	Kitalana	Charkhi Dadri	Charkhi Dadri	Hybrid	2.0	EH	0.0	0.0	0.0	0.0	0	0	2	0.0	0.0	0.0	0.0	2	0	0.0
45	29.07.25	Parhlad Garh	Bhiwani	Bhiwani	HHB67	1.0	EH	0	0	0.0	0	0	2	2	0.0	1.0	0.0	0.0	0.0	0.0	1.0
46	29.07.25	Govindpura	Bhiwani	Bhiwani	nandi5	1.0	EH	0.0	0.0	0.0	0.0	2	0	0	0.0	0.0	0.0	0.0	0	0	2.0
47	29.07.25	Bapora	Bhiwani	Bhiwani	Pioneer	1.0	EH	0.0	2.0	0.0	0.0	1	1	0	1.0	2.0	0.0	0.0	0	2	0.0
48	29.07.25	Biran	Tosham	Bhiwani	hybrid	1.0	EH	0	0	0	0	2	0	2	0.0	0	0.0	0	0	0	0.0
49	01.08.25	Nanda	Khol	Rewari	Pioneer	5.0	VS	0.0	2.0	4.0	2.0	2	0	0	5.0	2	0.0	5.00	0	0	0.0
50	01.08.25	Dhawana	Khol	Rewari	Pioneer	2.0	VS	0.0	3.0	4.0	2.0	0	0	0	5.0	2.0	0.0	4	0	0	2.0
51	01.08.25	Dhansu	Hisar	Hisar	Pioneer	0.4	EH	0.0	2.0	0.0	0.0	1	2	1	0.0	0	0.0	0.00	0	1	1.0
52	08.08.25	Modi	Kanina	M.Garh	Proagro	1	EH	0	1	5.0	2	1	0	2	0.0	2	0.0	0	1	0	0.0
53	08.08.25	Bhojawas	Kanina	M.Garh	Pioneer	0.4	EH	0	2	4	0.0	3	0	2	0.0	0.0	0.0	0.0	2	0	3.0
54	09.08.25	Silani	Jhajjar	Jhajjar	proagro		EH	0	0	0.0	0	0	2	2	0.0	1.0	0.0	0.0	0.0	0.0	1.0
55	09.08.25	Dadanpur	Jhajjar	Jhajjar	Advanta	0.4	VS	0	1	0	0	0	0	0	0.0	1	0.0	10.0	0	0	2.0
56	09.08.25	Machhroli	Jhajjar	Jhajjar	Pioneer	1.0	VS	0	2	0	0	0	0	0	2.0	1	0.0	10.0	0	0	1.0
57	13.08.25	Dulhera kalan	Bawal	Rewari	Pioneer	4.0	VS	0.0	2.0	5.0	1.0	0	0	0	6.0	2.0	0.0	5	0	1	2.0
58	13.08.25	Shahpur	Dahina	Rewari	JK	5.0	VS	0.0	1.0	5.0	1.0	0	0	1	5.0	4.0	0.0	5	0	1	2.0
59	13.08.25	Kherki	M.Garh	M.Garh	Pioneer	1.0	EH	0	2	4	0.0	2	0	2	0.0	0.0	0.0	0.0	2	0	2.0

60	13.08.25	Bairawas	M.Garh	M.Garh	Proagro	0.4	EH	0	0	0.0	0	1	2	3	0.0	1.0	0.0	0.0	0.0	0.0	0.0
61	26.08.25	Mohmadpur	Bawal	Rewari	Pioneer	2.0	VS	0.0	1.0	3.0	2.0	0	0	1	6.0	5.0	0.0	3	0	1	2.0
62	26.08.25	Bhagthala	Rewari	Rewari	Pioneer	2.0	EH	0.0	3.0	3.0	2.0	0	0	2	5.0	2	0.0	2.00	0	1	3.0
63	14.09.25	Ranoli	Bawal	Rewari	Pioneer	1.0	EH	0.0	2.0	3.0	2.0	5	5	2	3.0	2.0	0.0	0	2	1	0.0
64	14.09.25	Khijuri	Bawal	Rewari	Pioneer	2.0	EH	0.0	2.0	4.0	1.0	6	3	1	2.0	4.0	0.0	0	2	1	0.0
							Min	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
							Max	3.0	5.0	5.0	3.0	6.0	5.0	3.0	6.0	4.0		20.0	2.0	2.0	3.0
							Avg	0.33	1.14	1.89	0.58	0.66	0.45	0.53	1.50	0.79	0.00	3.74	0.24	0.35	0.89

N.B.: V.S.= Vegetative stage, E.H.=Ear head stage

Table-V.5a: (PMET-4) Management of insect-pest complex of pearl millet through seed treatment and foliar application of bio-pesticides (Centre: Jamnagar)

Treatments	Per cent shoot fly incidence		Per cent stem borer incidence		Yield kg/ha.	
	Vegetative stage*	Ear head stage*	Vegetative stage*	Ear head Stage*	Grain	Fodder
T1	9.13	11.80	8.86	11.20	3116	5128
T2	10.75	12.77	11.20	12.08	2969	4844
T3	10.69	13.22	9.64	12.46	2387	3940
T4	10.24	10.99	8.86	9.35	3260	5313
T5	10.24	13.06	9.64	12.16	2552	4161
T6	9.04	13.02	10.09	12.46	2579	4206
T7	9.13	13.34	10.75	11.51	2483	4050
T8	9.64	9.56	9.64	10.21	2963	4933
T9	14.59	19.86	13.80	18.19	1764	2903
SEm ±	0.72	0.70	0.72	0.88	220.30	360.05
C.D. 5%	2.15	2.11	2.14	2.65	660.50	1079.46
CV %	11.96	9.34	12.11	12.57	14.27	14.22

N.B.: (*) arcsine transformed values.

1. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
2. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
3. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
4. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 00.07%, 60g/10 litres of water spray at 30 DAG + *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at ear head stage.
5. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
6. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.

7. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem oil 3.0%, 30 ml/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
8. **Seed treatment of imidacloprid 600 FS @ 8.75 ml/kg** seed + spray of imidacloprid 17.8 SL 0.009% at 35 DAG (Standard Check)
9. **Untreat**

Table-V.5b: (PMET-4) Statement showing the incidence of various insect- pests and yield in pearl millet (Centre: Anand)

Treatments	Shoot fly incidence (%)				Stem borer incidence (%)				FAW damage at 45 DAG (%)		Yield kg/ha.	
	Vegetative stage		Ear head stage		Vegetative stage		Ear head stage				Grain	Fodder
T1	*16.02	(7.67)	*21.40	(13.33)	*16.77	(8.33)	*18.09	(9.67)	*17.12	(8.67)	1816.00	1861.33
T2	14.05	(6.00)	13.51	(5.67)	10.50	(3.33)	16.77	(8.33)	16.77	(8.33)	1822.00	1867.67
T3	9.73	(3.00)	9.73	(3.00)	9.73	(3.00)	10.53	(3.67)	10.53	(3.67)	2147.00	2201.00
T4	21.94	(14.00)	23.47	(16.00)	23.23	(15.67)	23.25	(15.67)	21.80	(14.00)	1682.67	1724.67
T5	17.71	(9.33)	22.20	(14.33)	22.73	(15.00)	22.93	(15.33)	19.96	(11.67)	1699.33	1742.00
T6	16.74	(8.33)	21.38	(13.33)	18.23	(10.00)	18.73	(10.33)	17.64	(9.33)	1799.33	1844.33
T7	17.44	(9.00)	21.59	(13.67)	19.97	(11.67)	18.51	(10.33)	18.51	(10.33)	1766.00	1810.33
T8	17.44	(9.00)	21.76	(14.00)	20.55	(12.67)	23.56	(16.00)	19.37	(11.00)	1722.00	1765.00
T9	27.14	(21.00)	30.40	(25.67)	28.40	(22.67)	29.76	(24.67)	28.63	(23.00)	1647.00	1688.00
SEm ±	1.27		1.62		1.54		1.52		1.59		0.99	1.00
C.D. 5%	3.80		4.85		4.61		4.55		4.77		2.96	3.00
CV %	12.50		13.60		14.10		12.98		14.55		4.05	4.05

N.B.: (*) arcsine transformed values, Figure in parenthesis are original values.

1. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
2. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
3. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
4. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 00.07%, 60g/10 litres of water spray at 30 DAG + *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at ear head stage.
5. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
6. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
7. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem oil 3.0%, 30 ml/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
8. **Seed treatment of imidacloprid 600 FS @ 8.75 ml/kg** seed + spray of imidacloprid 17.8 SL 0.009% at 35 DAG (Standard Check)
9. **Untreated control.**

Table-V.5c: (PMET-4) Statement showing the incidence of various insect- pests and yield in pearl millet (Centre: Jodhpur)

Treatment	Shoot fly incidence (%)		Grasshopper damage at 45 DAG (%)	*Helicoverpa* larval population/20 ear heads					
	At 28 DAG	At ear head stage		Before spray	24 hrs after spray	3 days after spray	7 days after spray	Grain yield (kg/ha)	Fodder yield (kg/ha)
T1	2.23 (8.49)	2.00 (8.08)	11.17 (19.51)	42.33 (6.56)	40.67 (6.41)	27.67 (5.32)	10.67 (3.40)	2917	5250
T2	2.83 (9.63)	2.10 (8.31)	11.67 (19.94)	44.33 (6.73)	41.67 (6.49)	29.33 (5.46)	12.00 (3.58)	2861	5150
T3	2.50 (9.06)	2.23 (8.58)	12.00 (20.22)	41.00 (6.46)	40.00 (6.35)	28.00 (5.36)	11.67 (3.55)	2806	5050
T4	2.57 (9.20)	2.40 (8.91)	12.17 (20.39)	40.00 (6.35)	37.67 (6.19)	28.33 (5.41)	23.67 (4.95)	2722	4900
T5	2.17 (8.41)	0.50 (4.05)	2.67 (9.39)	41.00 (6.45)	40.00 (6.40)	26.00 (5.18)	10.67 (3.40)	3194	6483
T6	2.29 (8.69)	0.67 (4.61)	2.83 (9.58)	43.00 (6.63)	42.33 (6.57)	28.00 (5.38)	11.67 (3.54)	3056	5500
T7	2.50 (9.06)	0.83 (5.18)	3.83 (11.28)	43.67 (6.68)	42.00 (6.55)	28.67 (5.41)	13.00 (3.72)	3000	5400
T8	2.57 (9.20)	0.00 (0.00)	9.00 (17.34)	41.67 (6.49)	43.67 (6.66)	45.67 (6.83)	46.33 (6.87)	2222	4000
T9	13.90 (21.88)	3.33 (10.51)	13.33 (21.40)	43.33 (6.65)	45.00 (6.78)	46.33 (6.86)	47.00 (6.91)	2000	3600
C.D.	1.83	1.24	2.24	NS	NS	1.01	0.80	443.34	814.58
SE m±	0.61	0.71	0.74	0.31	0.38	0.34	0.26	146.62	269.39

N.B.: Figure in parenthesis is transformed values

1. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
2. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
3. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
4. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 00.07%, 60g/10 litres of water spray at 30 DAG + *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at ear head stage.
5. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
6. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
7. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem oil 3.0%, 30 ml/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
8. **Seed treatment of imidacloprid 600 FS @ 8.75 ml/kg** seed + spray of imidacloprid 17.8 SL 0.009% at 35 DAG (Standard Check)
9. **Untreated control**

Table-V.5d: (PMET-4) Economics of various treatments for the management of pest complex in pearl millet (Centre: Jodhpur)

Treatment	Grain yield	Net Grain yield	Gross Return	Fodder yield	Net Fodder yield	Fodder Return	Additional Income	Chemical cost	Labour cost	Total cost	Net return	ICBR
T1	2916.67	917	25438	5250	1650	3300	28738	2260	500	2760	25978	10.41
T2	2861.11	861	23896	5150	1550	3100	26996	1660	500	2160	24836	12.50
T3	2805.56	806	22354	5050	1450	2900	25254	5160	500	5660	19594	4.46
T4	2722.22	722	20042	4900	1300	2600	22642	1110	500	1610	21032	14.06
T5	3194.44	1194	33146	5650	2050	4100	37246	3410	500	3910	33336	9.53
T6	3055.56	1056	29292	5500	1900	3800	33092	2210	500	2710	30382	12.21
T7	3000	1000	27750	5400	1800	3600	31350	9210	500	9710	21640	3.23
T8	2222.22	222	6167	4000	400	800	6967	460	500	960	6007	7.26
T9	2000	0	0	3600	0	0	0	0	0	0	0	0.00

1. Selling price of Bajra per kg, Rs 25/-
2. Selling price of Fodder per kg Rs. 2.0/-
3. ST of Imida 600 FS 35 ml used for 4.0 kg seed, Rs 210/- ha
4. Cost of Beauveria bassiana 1.15% Rs 150/- per 1.0 kg, 3.0 kg used, total cost 450/- ha.
5. Cost of Azadirachtin 1500 ppm Rs 800 per litre, 2.0 lit used, total cost 1600/- ha
6. Cost of neem oil Rs 300 per litre, 15.0 lit used, total cost 4500/- ha
7. Cost of Neem Seed Kernel Rs 20 per kg, total 25.0 kg required per ha, NSKE 25 kg used + Rs 500 labour charge for preparation total 1000/- ha.
8. Cost of Imidachloprid 17.8 SL, Rs 500/- per 500 ml, Imida 17.8 SL Std Check sp, 250 ml used, Rs 250/- ha.
9. Labour cost per spray per hactare, 500/-

Table-V.5d: (PMET-4) Statement showing the incidence of various insect- pests and yield in pearl millet (Centre: Fatehpur-Shekhawati)

Treatments	Shoot fly incidence at 28 DAG (%)	Stem borer incidence at 28 DAG (%)	Shoot fly incidence at earhead	Stem borer incidence at earhead
T_1	8.33 (16.59)	5.00 (12.92)	13.33 (21.33)	10.00 (18.04)
T_2	10.00 (18.43)	5.00 (12.92)	15.00 (22.78)	16.67 (24.04)
T_3	10.00 (18.04)	6.67 (14.75)	15.00 (22.59)	10.00 (18.43)
T_4	8.33 (16.59)	5.00 (12.92)	8.33 (16.59)	11.67 (19.88)
T_5	8.33 (16.59)	5.00 (12.92)	10.00 (18.04)	11.67 (19.49)
T_6	10.00 (18.43)	5.00 (12.92)	10.00 (18.43)	13.33 (21.33)
T_7	8.33 (16.59)	6.67 (14.75)	6.67 (14.75)	15.00 (22.59)
T_8	8.33 (16.59)	5.00 (12.92)	5.00 (12.92)	8.33 (16.59)
T_9	36.67 (37.25)	16.67 (24.04)	30.00 (33.15)	28.33 (32.13)
SEm ±	**1.68**	**1.02**	**1.71**	**1.99**
C.D. at *(P=0.05)*	**5.03**	**3.05**	**5.11**	**5.97**
CV %	**14.94**	**12.12**	**14.72**	**16.13**

N.B.: Figures in parenthesis is arcsine values.

1. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
2. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
3. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
4. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 00.07%, 60g/10 litres of water spray at 30 DAG + *Beauveria bassiana* , 1.15 WP, 0.007%, 60g/10 litres of water spray at ear head stage.
5. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
6. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
7. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem oil 3.0%, 30 ml/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
8. **Seed treatment of imidacloprid 600 FS @ 8.75 ml/kg** seed + spray of imidacloprid 17.8 SL 0.009% at 35 DAG (Standard Check)
9. **Untreated control**

Table-V.5e: (PMET-4) Statement showing the incidence of various insect- pests and yield in pearl millet (Centre: Fatehpur-Shekhawati)

Treatments	*Helicoverpa armigera* larval population per 20 ear heads			
	24 hrs before spray	24 hrs after spray	3 days after spray	7 days after spray
T_1	26.67 (5.20)	17.67 (4.26)	10.00 (3.24)	3.33 (1.95)
T_2	29.33 (5.35)	25.00 (5.05)	11.33 (3.43)	4.33 (2.18)
T_3	27.33 (5.23)	24.33 (4.97)	10.33 (3.28)	4.67 (2.27)
T_4	28.33 (5.31)	27.67 (5.30)	8.67 (3.02)	2.67 (1.77)
T_5	27.67 (5.15)	19.67 (4.48)	9.67 (3.17)	3.00 (1.87)
T_6	28.67 (5.37)	25.67 (5.09)	11.33 (3.44)	4.33 (2.20)
T_7	30.33 (5.54)	19.67 (4.48)	9.67 (3.16)	4.00 (2.11)
T_8	13.67 (3.75)	15.00 (3.93)	16.00 (4.06)	14.33 (3.79)
T_9	28.67 (5.40)	34.67 (5.91)	20.33 (4.53)	17.33 (4.22)
SEm ±	**0.48**	**0.22**	**0.22**	**0.20**
C.D. at *(P=0.05)*	**NS**	**0.67**	**0.66**	**0.59**
CV %	**16.20**	**8.01**	**10.93**	**13.61**

N.B.: Square root √ X+0.5 values, Figure in parenthesis are square root values.

Table-V.5f: (PMET-4) Economics of various treatments for the management of pest complex in pearl millet (Centre: Fatehpur-Shekhawati)

Treatments	Yield kg/ha		Yield increase over control		Additional income (Rs.)	Total Expenditure (Rs.)	Net Returns (Rs.)	I.C.B.R.
	Grain	Fodder	Grain	Fodder				
T_1	2626	4821	724	1758	21618	2760	18858	1:7.83
T_2	2602	4761	700	1699	20886	2160	18726	1:9.67
T_3	2558	4681	656	1618	19625	5660	13965	1:3.47
T_4	2755	5287	852	2224	25756	1610	24146	1:16.00
T_5	2826	5329	924	2267	27635	3910	23725	1:7.07
T_6	2822	5164	919	2101	27188	2710	24478	1:10.03
T_7	2852	5220	950	2157	28064	9710	18354	1:2.89
T_8	2889	5278	987	2216	29096	960	28136	1:30.31
T_9	1902	3063	0	0	0	0	0	0.00
SEm ±	**140.10**	**244.96**	**-**	**-**	**-**	**-**	**-**	**-**
C.D. at *(P=0.05)*	**420.01**	**734.38**	**-**	**-**	**-**	**-**	**-**	**-**
CV %	**9.16**	**8.76**	**-**	**-**	**-**	**-**	**-**	**-**

N.B.:

1. Selling price of Bajra per kg, Rs 25/-
2. Selling price of Fodder per kg Rs. 2.0/-
3. ST of Imida 600 FS 35 ml used for 4.0 kg seed, Rs 210/- ha
4. Cost of Beauveria bassiana 1.15% Rs 150/- per 1.0 kg, 3.0 kg used, total cost 450/- ha.
5. Cost of Azadirachtin 1500 ppm Rs 800 per litre, 2.0 lit used, total cost 1600/- ha
6. Cost of neem oil Rs 300 per litre, 15.0 lit used, total cost 4500/- ha
7. Cost of Neem Seed Kernel Rs 20 per kg, total 25.0 kg required per ha, NSKE 25 kg used + Rs 500 labour charge for preparation total 1000/- ha.
8. Cost of Imidachloprid 17.8 SL, Rs 500/- per 500 ml, Imida 17.8 SL Std Check sp, 250 ml used, Rs 250/- ha.
9. Labour cost per spray per hactare, 500/-

Table-V.5g: (PMET-4) Statement showing the incidence of various insect- pests and yield in pearl millet (Centre: Jaipur)

Treatment No.	Shoot fly incidence at 28 DAG (%)	Stem borer incidence at 28 DAG (%)	Shoot fly incidence at earhead	Stem borer incidence at earhead	Fall Army Worm % incidence at 45 DAG
T1	8.33 (16.77)	6.33 (14.57)	15.00 (22.78)	8.33 (16.77)	0.00 (0.00)
T2	8.33 (16.77)	3.33 (10.52)	20.00 (26.56)	10.00 (18.43)	0.00 (0.00)
T3	8.33 (16.77)	1.67 (7.42)	15.00 (22.78)	5.00 (12.92)	0.00 (0.00)
T4	13.33 (21.41)	3.33 (10.52)	20.00 (56.56)	10.00 (18.43)	0.00 (0.00)
T5	11.67 (19.97)	6.67 (14.96)	18.33 (25.34)	15.00 (22.78)	0.00 (0.00)
T6	11.67 (19.97)	6.67 (14.96)	18.33 (25.34)	8.33 (16.77)	0.00 (0.00)
T7	10.00 (18.43)	8.33 (16.77)	25.00 (29.99)	10.00 (18.43)	0.00 (0.00)
T8	8.67 (17.12)	5.33 (13.35)	18.33 (25.34)	8.33 (16.77)	0.00 (0.00)
T9	15.67 (23.31)	10.67 (19.06)	35.00 (36.26)	25.00 (29.99)	1.00 (5.74)
SEm ±	**1.858**	**1.072**	**1.907**	**1.764**	**0.804**
C.D. 5%	**5.571**	**3.214**	**5.718**	**5.288**	**2.410**
CV %	**17.77**	**14.46**	**12.38**	**16.18**	**271.14**

N.B.: Figure in brackets is original values, whereas outside figures are arcsine transformed values. Yield data was not recorded due to heavy lodging at ear head stage.

Table-V.5h: (PMET-4) Incidence of ear head borer infesting pearl millet during *kharif* 2025 (Centre: Jaipur)

Treatment No.	*Helicoverpa armigera* larval population per 5 ear heads			
	24 hrs before spray	**24 hrs after spray**	**3 days after spray**	**7 days after spray**
T1	5.33 (2.42)	4.00 (2.12)	4.00 (2.12)	2.67 (1.78)
T2	5.33 (2.42)	4.67 (2.27)	4.33 (2.20)	3.33 (1.96)
T3	5.00 (2.35)	4.67 (2.27)	3.33 (1.96)	3.00 (1.87)
T4	5.67 (2.48)	4.00 (2.12)	2.67 (1.78)	1.67 (1.47)
T5	7.00 (2.74)	4.00 (2.12)	3.00 (1.87)	2.00 (1.58)
T6	7.33 (2.80)	5.33 (2.42)	5.00 (2.35)	4.33 (2.20)
T7	5.00 (2.35)	5.00 (2.35)	4.00 (2.12)	3.33 (1.96)
T8	5.33 (2.42)	4.33 (2.20)	4.33 (2.20)	3.67 (2.04)
T9	5.33 (2.42)	6.33 (2.61)	6.67 (2.68)	7.67 (2.86)
Sem ±	**0.230**	**0.165**	**0.099**	**0.126**
C.D. 5%	**0.690**	**0.494**	**0.297**	**0.379**
CV %	**16.17**	**12.61**	**8.04**	**11.18**

N.B.: Square root √ X+0.5 values, Figure in parenthesis are square root values.

Table-V.5i: (PMET-4) Economics of various treatments for the management of *Helicoverpa armigera* in pearl millet (Centre: Jaipur).

Sr. No.	Yield kg/ha		Yield increase over control		Additional income (Rs.)	Total Expenditure (Rs.)	Net Returns (Rs.)	I.C.B.R.
	Grain	Fodder	Grain	Fodder				
T_1	2156.67	3970.00	703	708	19197	2760	16437	6.96
T_2	1986.67	3820.00	533	194	14647	2160	12487	6.78
T_3	2082.00	3903.33	629	324	17197	5660	11537	3.04
T_4	2253.33	4206.67	800	1428	22087	1610	20477	13.72
T_5	2203.33	4093.33	750	600	20611	3910	16701	5.27
T_6	1886.67	3700.00	433	1039	11907	2710	9197	4.39
T_7	1750.00	3600.00	297	539	8291	9710	-1419	0.85
T_8	1730.00	3630.00	277	1542	7851	960	6891	8.18
T_9	1453.33	3163.33	0	0	0	0	1	0.00
SEm ±	**83.89**	**132.01**	-	-	-	-	-	-
C.D. 5%	**115.59**	**181.88**	-	-	-	-	-	-
CV %	**0.00**	**0.00**	-	-	-	-	-	-

Table-V.5j: (PMET-4) Statement showing the incidence of various insect- pests and yield in pearl millet (Centre: Aurangabad)

Treatments	Shoot fly incidence (%)		Stem borer incidence (%)		FAW damage at 45 DAG (%)	Yield kg/ha.	
	Vegetative stage	Ear head stage	Vegetative stage	Ear head stage		Grain	Fodder
T1	18.43 (10.00)	22.02 (14.50)	20.49 (12.30)	24.62 (17.50)	17.46 (9.10)	1850	3650
T2	15.98 (7.60)	20.74 (13.20)	12.92 (5.00)	16.80 (8.40)	15.55 (7.20)	1825	3575
T3	11.78 (4.20)	13.30 (5.30)	10.95 (3.50)	12.60 (4.80)	11.34 (3.80)	2150	3850
T4	21.68 (13.70)	25.84 (19.00)	21.02 (14.20)	22.48 (15.30)	20.15 (12.00)	1725	3650
T5	17.88 (9.60)	22.87 (15.20)	22.48 (15.30)	23.97 (17.00)	17.66 (9.30)	1900	3600
T6	16.34 (8.20)	21.02 (14.20)	16.80 (8.40)	17.88 (9.60)	16.57 (8.50)	1900	3600
T7	17.66 (9.30)	24.28 (17.20)	17.24 (9.00)	16.57 (8.50)	17.05 (8.80)	1950	3650
T8	16.12 (7.90)	21.68 (13.70)	21.46 (14.50)	24.28 (17.20)	16.34 (8.20)	1725	3575
T9	28.23 (22.20)	31.95 (27.80)	28.57 (22.80)	32.40 (28.50)	28.05 (21.90)	1650	3400
SEm ±	**2.18**	**2.12**	**2.16**	**2.20**	**2.35**	**70.25**	**68.10**
C.D. 5%	**6.54**	**6.36**	**6.48**	**6.60**	**7.05**	**210.70**	**204.30**
CV %	**16.75**	**17.40**	**15.70**	**17.10**	**19.50**	**8.10**	**9.80**

N.B.: (*) arcsine transformed values, Figure in parenthesis are original values.

Treatment details:

1. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.07%, 60g/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
2. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.07%, 60g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
3. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.07%, 60g/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
4. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** *Beauveria bassiana* , 1.15 WP, 0.07%, 60g/10 litres of water spray at 30 DAG + *Beauveria bassiana* , 1.15 WP, 0.07%, 60g/10 litres of water spray at ear head stage.
5. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at 30 DAG + Azadirachtin 1500 ppm, 0.0006%, 40 ml/10 litres of water spray at ear head stage.
6. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at 30 DAG + Neem Seed Kernel Extract, 5%, 500 g/10 litres of water spray at ear head stage.
7. **Seed treatment of imidachloprid 600 FS @ 8.75 ml/kg seed +** Neem oil 3.0%, 30 ml/10 litres of water spray at 30 DAG + Neem oil 3.0%, 30 ml/10 litres of water spray at ear head stage.
8. **Seed treatment of imidacloprid 600 FS @ 8.75 ml/kg** seed + spray of imidacloprid 17.8 SL 0.009% at 35 DAG (Standard Check)
9. **Untreated**

(PMET-5) Statement showing the incidence of *Helicoverpa armigera* and yield in pearl millet (Centre: Jamnagar)
Trials were not treated due to absence of the pest population

(PMET-5)Statement showing the incidence of *Helicoverpa armigera* and yield in pearl millet (Centre: Jodhpur) No data available

Table V.6a: (PMET-5) Statement showing the incidence of *Helicoverpa armigera* and yield in pearl millet (Centre: Fatehpur-Shekhawati)

Treatment No.	Treatments	*Helicoverpaarmigera* larval population per 20 ear heads				Yield kg/ha.	
		24 hrs before spray	24 hrs after spray	3 days after spray	7 days after spray	Grain	Fodder
T1	Profenophos 50 EC, 0.05%	45.33 (6.76)	28.33 (5.36)	13.6 (3.74)	3.67 (2.04)	2403	5556
T2	Quinalphos 25 EC, 0.05%	47.00 (6.88)	30.00 (5.51)	18.67 (4.37)	5.33 (2.41)	2367	5528
T3	Spinosad 45% ,0.009%	46.00 (6.81)	18.67 (4.37)	3.67 (2.03)	0.33 (0.88)	2500	5567
T4	Indoxacarb 14.5 SC, 0.006%	48.00 (6.96)	19.33 (4.43)	4.00 (2.11)	0.67 (1.05)	2472	5539
T5	Emamectin benzoate 5 SG, 0.002%	47.00 (6.87)	16.33 (4.10)	1.67 (1.46)	0.00 (0.71)	2667	5569
T6	Chlorantraniprole 18.5 SC,0.006%	48.00 (6.96)	19.33 (4.44)	4.33 (2.20)	1.00 (1.22)	2417	5533
T7	Lambda cyhalothrin 5 EC,0.003%	47.00 (6.89)	21.33 (4.66)	4.67 (2.27)	3.00 (1.87)	2408	5519
T8	Chlorfenapyre 10 SC, 0.015%	46.67 (6.86)	28.67 (5.39)	18.33 (4.34)	5.00 (2.35)	2389	5542
T9	Malathion 50 EC,0.05%	45.33 (6.75)	30.00 (5.52)	20.00 (4.51)	5.67 (2.48)	2361	5564
T10	Un-treated control	46.33 (6.83)	51.67 (7.22)	54.00 (7.38)	61.67 (7.88)	2111	5506
	SEm ±	0.24	0.21	0.18	0.11	98.47	109
	C.D. 5%	0.72	0.63	0.54	0.31	292.56	NS
	CV %	6.10	6.84	9.21	8.01	7.08	-

N.B.: Square root √ X+0.5 values, Figure in parenthesis are original values.

Table V.6b: (PMET-5) Economics of various treatments for the management of *H. armigera* in pearl millet (Centre: Fatehpur-Shekhawati)

Treatments	Yield kg/ha		Yield increase over control		Additional income (Rs.)	Total Expenditure (Rs.)	Net Returns (Rs.)	I.C.B.R.
	Grain	fodder	Grain	fodder				
T_1	2237	3880	320	165	7370	1000	6370	1:7.37
T_2	2089	3723	172	8	3800	1200	2600	1:3.17
T_3	2417	4067	500	352	11704	3000	8704	1:3.90
T_4	2325	3972	408	257	9490	1250	8240	1:7.59
T_5	2467	4013	550	298	12696	1100	11596	1:11.54
T_6	2362	4097	445	382	10554	2450	8104	1:4.31
T_7	2334	3971	417	256	9686	1000	8686	1:9.69
T_8	2214	3841	297	126	6786	1100	5686	1:6.17
T_9	2084	3726	167	11	3696	1050	2646	1:3.52
T_{10}	1917	3715	0	0	0	0	0	0
SEm ±	**84.71**	**183.27**	**-**	**-**	**-**	**-**	**-**	**-**
C.D. at *(P=0.05)*	**251.70**	**NS**	**-**	**-**	**-**	**-**	**-**	**-**
CV %	**6.54**	**8.14**	**-**	**-**	**-**	**-**	**-**	**-**

Table V.6c: (PMET-5) Incidence of ear head borer infesting pearl millet during *kharif* -2025 (Centre: Fatehpur-Shekhawati)

Treatments	*Helicoverpa armigera* larval population per 20 ear heads			
	24 hrs before spray	24 hrs after spray	3 days after spray	7 days after spray
T_1	6.17 (37.67)	4.80 (22.67)	1.68 (2.33)	1.58 (2.00)
T_2	6.30 (39.33)	4.97 (24.33)	2.59 (6.33)	2.41 (5.33)
T_3	6.23 (38.33)	3.67 (13.00)	1.05 (0.67)	0.88 (0.33)
T_4	6.39 (40.33)	3.73 (13.67)	1.34 (1.33)	1.05 (0.67)
T_5	6.28 (39.33)	3.32 (10.67)	0.88 (0.33)	0.88 (0.33)
T_6	6.39 (40.33)	3.76 (13.67)	1.56 (2.00)	1.05 (0.67)
T_7	6.31 (39.33)	3.99 (15.67)	1.44 (1.67)	1.22 (1.00)
T_8	6.28 (39.00)	4.83 (23.00)	2.72 (7.00)	2.19 (4.33)
T_9	6.14 (37.67)	4.98 (24.33)	3.18 (9.67)	2.41 (5.33)
T_{10}	6.36 (40.00)	6.81 (46.00)	6.41 (40.67)	6.42 (40.67)
SEm ±	**0.26**	**0.27**	**0.17**	**0.13**
C.D. at *(P=0.05)*	**NS**	**0.80**	**0.50**	**0.39**
CV %	**7.10**	**10.34**	**12.82**	**11.30**

N.B.: Square root √ X+0.5 values, Figure in parenthesis are original population values.

Table V.6d: (PMET-5) Yield and economics of different treatments for the management of *Helicoverpa* in pearl millet during Kharif-2025 (Centre: Fatehpur-Shekhawati)

Treatments	Yield kg/ha		Yield increase over control		Additional income (Rs.)	Total Expenditure (Rs.)	Net Returns (Rs.)	I.C.B.R.
	Grain	fodder	Grain	fodder				
T_1	2237	3880	320	165	7370	1000	6370	1:7.37
T_2	2089	3723	172	8	3800	1200	2600	1:3.17
T_3	2417	4067	500	352	11704	3000	8704	1:3.90
T_4	2325	3972	408	257	9490	1250	8240	1:7.59
T_5	2467	4013	550	298	12696	1100	11596	1:11.54
T_6	2362	4097	445	382	10554	2450	8104	1:4.31
T_7	2334	3971	417	256	9686	1000	8686	1:9.69
T_8	2214	3841	297	126	6786	1100	5686	1:6.17
T_9	2084	3726	167	11	3696	1050	2646	1:3.52
T_{10}	1917	3715	0	0	0	0	0	0
SEm ±	**84.71**	**183.27**	-	-	-	-	-	-
C.D. at *(P=0.05)*	**251.70**	**NS**	-	-	-	-	-	-
CV %	**6.54**	**8.14**	-	-	-	-	-	-

Table V.7a: (PMET-6) Survey of insect- pests of summer pearl millet on farmers' fields (Centres: Jamnagar).

No.	Date of survey	Location	Taluka	District	Variety	Area (ha.)	Crop stage	SF	SB	Helicoverpa	FAW	GWDS
1	01-05-25	Rangpar	Lalpur	Jamnagar	GHB-1231	0.5	EH	1.0	2.0	2.0	0.0	1.00
2	01-05-25	Nana-lakhia	Lalpur	Jamnagar	GHB-1231	0.5	EH	0.0	1.0	1.0	0.0	0.00
3	01-05-25	Mota lakhia	Lalpur	Jamnagar	GHB-1231	0.5	EH	2.0	2.0	2.0	0.0	0.00
4	01-05-25	Jasapar	Lalpur	Jamnagar	GHB-1231	0.5	EH	1.0	0.0	3.0	0.0	0.00
5	01-05-25	Mithoi	Lalpur	Jamnagar	GHB-1231	0.5	EH	2.0	1.0	1.0	0.0	1.00
6	01-05-25	Arikhina	Lalpur	Jamnagar	GHB-1231	0.5	EH	0.0	0.0	2.0	0.0	0.00
7	01-05-25	Rasangpar	Lalpur	Jamnagar	GHB-1231	0.5	EH	3.0	1.0	2.0	0.0	0.00
8	01-05-25	Modpar	Lalpur	Jamnagar	GHB-1231	0.5	EH	1.0	1.0	2.0	0.0	2.00
9	01-05-25	PiparnaviHaripar	Lalpur	Jamnagar	GHB-1231	0.5	EH	0.0	1.0	2.0	0.0	0.00
10	02-05-25	Hadiana	Jodia	Jamnagar	GHB-1231	0.5	EH	3.0	0.0	2.0	0.0	0.00
11	02-05-25	Beraja	Jodia	Jamnagar	GHB-1231	0.5	EH	0.0	2.0	3.0	0.0	0.00
12	02-05-25	Chavda	Jamnagar	Jamnagar	GHB-1231	0.5	EH	1.0	0.0	0.0	0.0	2.00
13	02-05-25	Khilos	Jamnagar	Jamnagar	GHB-1231	0.5	EH	2.0	1.0	1.0	0.0	0.00
14	02-05-25	Dhuvav	Jamnagar	Jamnagar	GHB-1231	0.5	EH	0.0	0.0	1.0	0.0	2.00
15	02-05-25	Jivapar	Jamnagar	Jamnagar	GHB-1231	0.5	EH	1.0	0.0	0.0	0.0	0.00
16	02-05-25	Hapa	Jamnagar	Jamnagar	GHB-1231	0.5	EH	1.0	1.0	0.0	0.0	2.00
17	09.05.25	Khodla	Kankrej	B.Kantha	86M11	0.5	EH	1.0	2.0	1.0	0.0	1.00
18	09.05.25	Sihori	Kankrej	B.Kantha	Local	1.0	EH	2.0	2.0	2.0	0.0	0.00
19	09.05.25	Umbari	Kankrej	B.Kantha	86M11	0.5	EH	2.0	2.0	1.0	0.0	0.00
20	09.05.25	Chekhla	Kankrej	B.Kantha	86M22	0.5	EH	4.0	0.0	2.0	0.0	0.00
21	09.05.25	Khimana	Kankrej	B.Kantha	US 7306	1.0	EH	2.0	1.0	3.0	0.0	1.00
22	09.05.25	Deesa	Deesa	B.Kantha	Nandi 75	0.5	EH	1.0	0.0	2.0	0.0	2.00
23	09.05.25	Kansari	Deesa	B.Kantha	US 7306	0.5	EH	3.0	1.0	3.0	0.0	0.00

24	09.05.25	Goga deri	Deesa	B.Kantha	86M22	0.5	EH	2.0	0.0	4.0	0.0	0.00
25	09.05.25	Zerda	Deesa	B.Kantha	86M22	0.5	EH	3.0	1.0	2.0	0.0	0.00
26	09.05.25	Pamaru	Deesa	B.Kantha	US 7306	0.5	EH	2.0	0.0	3.0	0.0	1.00
27	09.05.25	Gugal	Deesa	B.Kantha	86M11	1.0	EH	2.0	2.0	2.0	0.0	1.00
28	09.05.25	Ramun	Deesa	B.Kantha	85M36	0.5	EH	0.0	3.0	3.0	0.0	1.00
29	09.05.25	Tetoda	Deesa	B.Kantha	Dhanya 7306	1.0	EH	1.0	2.0	2.0	0.0	1.00
30	09.05.25	Bhildi	Deesa	B.Kantha	Sagar 222	1.0	EH	0.0	3.0	3.0	0.0	0.00
31	10.05.25	Bhkhar Moti	Dantiwada	B.Kantha	86M11	1.0	EH	1.0	2.0	2.0	0.0	2.00
32	10.05.25	Bhakhar Nani	Dantiwada	B.Kantha	86M11	1.0	EH	2.0	2.0	2.0	0.0	1.00
33	10.05.25	Lodpa	Dantiwada	B.Kantha	86M11	1.0	EH	2.0	1.0	4.0	0.0	0.00
34	10.05.25	Nilpur	Dantiwada	B.Kantha	US 7306	1.0	EH	1.0	0.0	2.0	0.0	1.00
35	10.05.25	Dantiwada	Dantiwada	B.Kantha	Nandi 75	1.0	EH	2.0	2.0	1.0	0.0	0.00
							Mini.	0.00	0.00	0.00	0.0	0.00
							Maxi.	3.0	3.0	4.0	0.0	2.0
							Mean	1.50	1.10	1.91	0.00	0.59

Table V.7b: (PMET-6) Summary statement showing the details of survey of major insect-pests in summer2025 pearl millet at farmers fields

No.	Districts	Block	No. of field surveyed	Shoot fly %	Stem borer %	*Helicoverpa*/5 EH	GWDS	FAW%
2	Jamnagar	Jamnagar	5	1.00	0.44	0.40	1.20	00
3	Jamnagar	Lalpur	9	1.11	1.00	1.89	0.44	00
4	Jamnagar	Jodia	2	1.50	1.00	2.50	00	00
5	Banaskatha	Kankrej	5	2.20	1.40	1.80	0.40	00
6	Banaskatha	Deesa	9	1.56	1.33	2.67	0.67	00
7	Banaskatha	Dantiwada	5	1.60	1.40	2.20	0.80	00
	Mean		35	1.50	1.10	1.91	0.59	00

Table V.7c: (PMET-6) Survey of insect- pests of summer pearl millet on farmers' fields (Centres: Anand)

No. of farmer	Date of survey	Location	Taluka/ Tehsil	District	Variety	Area (ha.)	Crop stage	Shoot fly %	Stem borer %	White grub damage %	Termite damage %	*Helicoverpa* larvae/ 5 E.H.	Blister beetles/ 5 E.H.	Chaffer beetle/ 5 E.H.	Grass hopper % damage	Grey weevil damage score (0-10)	Leaf binder damage score (0-10)	Fall Army Worm %	Lady bird beetle/ 5 Pl.	Chrysopids/5 Pl.
1	02-05-2025	Navali	Anand	Anand	Advanta 5151	0.7	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	1.00	0.00
2	02-05-2025	Navali	Anand	Anand	Advanta	0.5	E.H.	10.00	10.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	3.00	0.00	1.00	0.00
3	02-05-2025	Navali	Anand	Anand	Balram 222	0.7	E.H.	5.00	10.00	0.00	0.00	3.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00
4	02-05-2025	Khandhali	Anand	Anand	Advanta 555	0.5	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00
5	02-05-2025	Khandhali	Anand	Anand	Dhany 555	0.5	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00
6	02-05-2025	Napa	Anand	Anand	86M84	0.7	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00
7	02-05-2025	Napa	Anand	Anand	Dhany 555	0.2	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	1.00	0.00
8	02-05-2025	Napa	Anand	Anand	Sagar 555	0.5	E.H.	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
9	08-05-2025	Dedarda	Borsad	Anand	Desi	0.6	E.H.	15.00	15.00	0.00	0.00	3.00	0.00	0.00	10.00	0.00	2.00	5.00	2.00	1.00
10	08-05-2025	Dedarda	Borsad	Anand	86M84	1.3	E.H.	10.00	5.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00
11	08-05-2025	Dedarda	Borsad	Anand	86M84	0.7	E.H.	5.00	5.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	1.00	0.00
12	08-05-2025	Kavitha	Borsad	Anand	Desi	0.6	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	10.00	0.00	2.00	0.00	1.00	1.00
13	08-05-2025	Kavitha	Borsad	Anand	Desi	0.6	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	3.00	0.00	1.00	1.00
14	08-05-2025	Santokpura	Borsad	Anand	Sagar 222	0.8	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	11-05-	Virol	Sojitr	Anan	Sagar	1.2	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	2025		a	d	222															
16	11-05-2025	Virol	Sojitra	Anand	Advanta 5151	0.9	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00
17	11-05-2025	Davalpura	Petlad	Anand	Advanta	1.3	E.H.	10.00	10.00	0.00	0.00	1.00	0.00	0.00	10.00	0.00	3.00	0.00	1.00	0.00
18	11-05-2025	Palaj	Anand	Anand	Pionear	0.2	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
19	11-05-2025	Piplav	Sojitra	Anand	Balram 222	0.2	E.H.	15.00	10.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	1.00	0.00
20	11-05-2025	Bandhani	Petlad	Anand	86M84	0.1	E.H.	5.00	10.00	0.00	0.00	1.00	0.00	0.00	3.00	0.00	1.00	0.00	1.00	0.00
21	15-05-2025	Dalapura	Umreth	Anand	Sagar 222	0.2	E.H.	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
22	15-05-2025	Rahtalav	Anand	Anand	Sagar 222	0.5	E.H.	5.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	15-05-2025	Jakhala	Umreth	Anand	Advanta	0.9	E.H.	10.00	10.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	3.00	0.00	1.00	0.00
24	15-05-2025	Pansora	Umreth	Anand	Balram 222	0.9	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	2.00	0.00	0.00	0.00
25	15-05-2025	Pansora	Umreth	Anand	Desi	0.5	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	10.00	0.00	3.00	0.00	1.00	0.00
26	15-05-2025	Pansora	Umreth	Anand	86M11	0.4	E.H.	5.00	15.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	1.00	0.00	0.00	0.00
27	15-05-2025	Lingada	Umreth	Anand	Desi	0.5	E.H.	10.00	15.00	0.00	0.00	3.00	0.00	0.00	10.00	0.00	3.00	0.00	1.00	0.00
28	15-05-2025	Bharoda	Umreth	Anand	Desi	0.5	E.H.	15.00	15.00	0.00	0.00	3.00	0.00	0.00	5.00	0.00	3.00	0.00	1.00	0.00
29	15-05-2025	bharoda	Umreth	Anand	Balram 222	0.7	E.H.	10.00	15.00	0.00	0.00	2.00	0.00	0.00	5.00	0.00	1.00	0.00	1.00	0.00
30	19-05-2025	Bhandhipur	Umreth	Anand	Advanta 555	0.6	E.H.	5.00	15.00	0.00	0.00	1.00	0.00	0.00	5.00	0.00	2.00	0.00	1.00	0.00
31	19-05-2025	Bandhipur	Umreth	Anand	Dhany 555	0.8	E.H.	5.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00
32	19-05-2025	ode	Anand	Anand	86M84	0.9	E.H.	5.00	10.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	1.00	0.00	1.00	0.00
					Minimum	1.3		15.0	15.0	0.0	0.0	3.0	0.0	0.0	10.0	0.0	3.0	5.0	2.0	1.0
					Maximum	0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					Mean	0.6		7.3	9.5	0.0	0.0	1.2	0.0	0.0	4.4	0.0	1.5	0.2	0.6	0.1

(PMET-6) Survey of insect- pests of summer pearl millet on farmers' fields in Maharashtra (Centre: Aurangabad).

Data not generated

Table V.8a: (PMET-7) Relative susceptibility of pearl millet advanced entries to storage insect pests (*Tribolium castaneum*) at Jamnagar, *Kharif* 2023-24

Entry code	Entry name	Adult *Tribolum* population/100g		Per cent grain damage		Per cent weight loss		Germination %
		At 3 months	At 6 months	At 3 months	At 6 months	At 3 months	At 6 months	At 6 months
PET 201	MH 2672	35.0	210.0	0.88	5.00	6.00	15.50	90.0
PET 202	MH 2673	26.5	65.0	1.00	1.38	5.50	7.50	93.5
PET 203	MH 2675	30.0	140.0	1.13	3.25	3.50	10.00	92.5
PET 204	MH 2678	10.5	90.0	0.75	2.00	2.50	8.00	93.5
PET 205	MH 2743	13.5	132.5	0.63	3.00	2.25	9.50	92.5
PET 206	MH 2744	19.5	210.0	0.75	5.13	4.00	14.00	90.0
PET 207	MH 2746	20.5	57.5	0.50	1.25	3.00	6.00	93.5
PET 208	MH 2747	29.0	100.0	0.88	2.38	4.25	8.50	92.5
PET 209	MH 2748	15.5	52.5	0.63	1.13	2.75	4.00	93.5
PET 210	MH 2749	31.0	170.0	0.75	4.00	4.50	12.00	91.0
PET 211	MH 2754	22.0	105.0	0.75	2.50	4.00	8.50	92.0
PET 212	MH 2758	26.0	95.0	0.63	2.13	4.00	8.00	93.0
PET 213	MH 2682	17.5	102.5	0.75	2.38	4.50	8.50	92.5
PET 214	MH 2767	31.0	35.0	1.00	1.38	4.50	5.50	94.5
PET 215	MH 2773	25.0	197.5	0.50	4.75	4.00	13.00	90.0
PET 216	MH 2775	34.5	215.0	0.50	5.13	5.50	15.50	90.0
PET 217	MH 2777	28.5	135.0	0.50	3.13	4.00	9.50	92.0
PET 218	MH 2784	26.5	140.0	0.50	3.25	4.00	9.50	91.5
PET 219	MH 2709	25.5	60.0	0.50	1.38	4.50	7.00	93.5
PET 220	MH 2712	48.5	240.0	0.50	5.88	7.00	21.50	90.0
PET 221	MH 2717	23.0	22.5	0.50	2.38	3.50	3.00	94.5
PET 222	MH 2795	9.5	56.0	0.50	1.13	2.50	3.50	93.5
PET 223	MH 2796	22.0	70.0	0.50	1.50	3.50	7.50	93.5
PET 224	MH 2797	37.0	140.0	0.50	3.25	4.50	10.00	91.5
PET 225	MH 2798	15.0	115.0	0.50	2.63	3.25	8.50	92.0
PET 226	MH 2801	22.0	120.0	0.50	2.88	3.75	8.50	92.5
PET 227	MH 2806	26.0	160.0	0.50	3.88	4.00	11.00	91.0
PET 228	MH 2808	21.5	152.5	0.50	3.63	3.50	10.00	91.0
PET 229	MP 637	34.5	195.0	0.50	4.63	4.50	12.00	91.5
PET 230	HHB 67 Imp.	14.0	75.0	0.50	1.63	2.75	7.50	93.0
PET 231	PB 1756	23.0	80.0	0.50	1.75	3.75	7.50	93.0
PET 232	MPMH 35	34.5	160.0	0.50	3.75	4.50	11.00	91.0

PET 233	RHB 223	23.0	85.0	0.50	1.88	4.00	7.50	93.0
PET 234	AHB 1269	38.0	125.0	0.50	2.88	5.25	9.00	92.0
PET 235	86M01	6.0	46.0	1.38	9.88	2.00	6.00	97.0
PET 236	Pratap	17.0	156.0	1.63	14.88	5.50	17.00	86.0
PET 237	KBH 108	13.5	123.5	2.13	16.13	2.50	13.50	88.0
PET 238	86M86	5.0	41.5	0.50	2.50	2.25	6.00	98.0
PET 239	86M84	6.0	47.0	0.63	3.13	2.50	6.50	97.5
PET 240	MP 7878	10.0	93.5	2.13	14.88	3.50	10.50	93.0
PET 241	Kaveri Super Boss	15.0	133.5	1.38	10.38	3.00	14.50	88.0
PET 242	NBH 4903	19.5	183.5	0.50	2.63	8.00	19.50	82.0
PET 243	AHB 1200	16.5	156.0	0.50	3.13	4.50	16.00	86.0
PET 244	Raj 171	10.5	93.5	0.50	7.63	3.50	11.00	92.5
PET 245	JBV 2	17.0	161.0	1.75	11.75	6.00	17.50	87.0
PET 246	Dhanshakti	5.5	44.0	2.13	18.63	2.25	6.00	98.0
PET 247	ICMV 221	15.0	141.0	1.75	14.88	3.00	14.50	89.0
PET 248	Pusa Comp. 383	20.0	191.0	0.63	7.63	8.00	19.50	84.0
PET 249	Pusa Comp. 701	17.5	163.5	1.38	13.63	5.00	16.50	86.0

Table V.8b: (PMET-7) Relative susceptibility of pearl millet advanced entries to storage insect pests (*Rhyzopertha dominica*) at Anand, *Kharif* 2023-24

Entry code	Entry name	Adult *Rhizopertha dominica*/250 g		Per cent grain damage		Per cent weight loss		Germination %
		At 3 months	At 6 months	At 3 months	At 6 months	At 3 months	At 6 months	At 6 months
PET 201	1	# 5.65 (31.50)	# 9.75 (75.00)	* 7.40 (1.65)	* 12.00 (4.30)	* 12.60 (4.80)	* 21.40 (13.30)	90.20
PET 202	2	4.25 (17.50)	8.10 (70.00)	4.75 (0.70)	10.50 (3.30)	7.60 (1.90)	15.60 (7.20)	91.20
PET 203	3	5.05 (26.00)	11.90 (14.00)	4.75 (0.70)	13.10 (5.20)	11.40 (4.20)	22.80 (15.80)	89.20
PET 204	4	4.90 (23.00)	5.30 (28.00)	5.90 (1.05)	4.75 (0.70)	10.50 (3.40)	13.10 (5.10)	94.00
PET 205	5	4.00 (15.50)	7.10 (50.00)	5.60 (0.75)	7.40 (1.75)	8.30 (2.10)	12.50 (4.70)	93.00
PET 206	6	4.20 (17.00)	10.00 (100.00)	3.90 (0.45)	8.80 (2.30)	8.40 92.20)	15.60 (7.20)	92.20
PET 207	7	2.50 (5.50)	5.90 (35.00)	2.70 (0.20)	6.60 (0.95)	8.00 (2.00)	10.80 (3.60)	94.10
PET 208	8	3.60 (12.00)	8.30 (70.00)	3.90 (0.45)	7.90 (1.90)	7.10 (1.60)	11.00 (3.60)	92.80
PET 209	9	2.75 (7.00)	5.10 (26.00)	2.70 (0.20)	4.75 (0.70)	7.10 (1.60)	11.90 (4.60)	94.00
PET 210	10	3.30 (10.00)	5.70 (33.00)	2.70 (0.20)	5.60 (0.95)	5.90 (1.10)	3.90 (2.60)	94.20
PET 211	11	5.20 (26.00)	12.00 (150.00)	6.80 (1.40)	11.20 (3.80)	9.30 (2.60)	17.60 (9.20)	90.80
PET 212	12	3.70 (13.00)	5.80 (33.00)	3.50 (0.35)	6.20 (1.20)	7.60 (1.90)	12.40 (6.40)	93.50
PET 213	13	4.05 (15.50)	7.90 (63.00)	3.90 (0.45)	7.90 (1.90)	8.40 (2.20)	16.70 (8.20)	92.80
PET 214	14	4.00 (15.00)	8.50 (73.00)	3.90 (0.45)	10.50 (3.30)	9.20 (2.50)	16.70 (8.20)	91.20
PET 215	15	3.70 (13.50)	13.40 (180.00)	4.75 (0.70)	12.00 (4.30)	9.20 (2.50)	20.00 (11.80)	90.20
PET 216	16	6.00 (36.00)	10.50 (110.00)	3.90 (0.45)	10.50 (3.30)	10.50 (3.40)	17.20 (8.70)	91.20
PET 217	17	5.90 (34.50)	10.70 (115.000	7.40 (1.65)	8.80 (2.30)	11.70 (4.10)	18.60 (10.20)	92.20
PET 218	18	5.65 (31.50)	7.50 (58.00)	3.90 (0.45)	7.90 (1.90)	9.20 (2.50)	13.70 (5.70)	92.80
PET 219	19	4.15 (16.50)	7.60 (58.00)	3.90 (0.450	7.60 (1.90)	7.10 (1.60)	13.80	92.80

							(5.70)	
PET 220	20	4.20 (17.00)	6.90 (48.00)	3.90 (0.45)	6.70 (1.400	9.20 (2.50)	14.40 (6.20)	93.20
PET 221	21	3.30 (10.00)	6.20 (38.00)	3.30 (0.35)	6.70 (1.40)	7.00 (1.60)	9.30 (2.60)	93.20
PET 222	22	3.95 (15.00)	8.20 (68.00)	3.30 (0.35)	8.80 (2.30)	10.00 (3.10)	16.10 (7.70)	92.20
PET 223	23	4.15 (16.50)	8.00 (65.00)	5.10 (0.80)	10.50 (3.30)	9.20 (2.50)	15.60 (7.20)	91.20
PET 224	24	4.30 (18.00)	13.80 (195.00)	4.75 (0.70)	13.20 (5.20)	10.70 (3.60)	24.20 (16.80)	89.20
PET 225	25	4.30 (18.50)	7.60 (58.00)	3.30 (0.35)	6.70 (1.40)	8.80 (2.60)	13.70 (5.70)	93.20
PET 226	26	3.90 (14.50)	4.80 (23.00)	2.70 (0.20)	4.75 (0.70)	10.10 (3.10)	11.00 (3.60)	94.10
PET 227	27	3.10 (9.00)	6.70 (45.00)	3.30 (0.35)	5.60 (0.95)	5.90 (1.10)	11.00 (3.60)	94.20
PET 228	28	4.75 (22.00)	5.70 (33.00)	3.30 (0.35)	5.60 (0.95)	10.70 (3.60)	13.70 (5.70)	94.10
PET 229	29	6.10 (38.00)	9.20 (85.00)	3.90 (0.45)	12.00 (4.30)	11.60 (4.10)	17.70 (9.20)	90.20
PET 230	30	5.30 (29.00)	15.00 (240.00)	3.30 (0.35)	18.00 (9.50)	11.60 (4.10)	23.90 (16.80)	84.80
PET 231	31	7.00 (48.00)	12.00 (155.00)	6.20 (1.20)	17.00 (8.80)	12.40 (4.60)	22.50 (14.80)	85.80
PET 232	32	7.40 (54.00)	11.00 (120.00)	6.50 (1.30)	13.00 (5.20)	13.00 (5.10)	23.50 (15.80)	89.20
PET 233	33	5.10 (26.00)	11.20 (130.00)	6.20 (1.20)	12.50 (5.00)	10.70 (3.60)	21.80 (14.30)	89.80
PET 234	34	5.00 (25.00)	10.70 (115.00)	2.70 (0.20)	11.40 (4.30)	8.00 (2.00)	16.90 (8.70)	90.20
PET 235	35	4.05 (16.00)	10.00 (105.00)	3.90 (0.45)	11.80 (4.30)	8.40 (2.20)	15.00 (6.70)	90.20
PET 236	36	4.20 (17.00)	9.20 (85.00)	4.75 (0.70)	10.50 (3.30)	9.20 (2.50)	16.10 (7.70)	91.20
PET 237	37	5.30 (29.00)	7.20 (53.00)	5.90 (1.05)	7.90 (1.90)	9.20	17.20	92.80

						(2.50)	(8.70)	
PET 238	38	7.00 (48.00)	12.20 (155.00)	5.60 (0.95)	13.50 (5.50)	13.70 (5.70)	23.40 (15.80)	88.80
PET 239	39	6.00 (36.00)	11.00 (120.00)	5.60 (0.95)	13.20 (5.20)	10.70 (3.60)	20.00 (11.80)	89.20
PET 240	40	6.80 (46.00)	17.50 (320.00)	6.50 (1.30)	19.00 (10.50)	14.40 (6.20)	31.60 (27.50)	83.80
PET 241	41	6.60 (45.00)	12.00 (145.000	6.20 (1.20)	10.50 (3.30)	12.40 (4.60)	21.00 (12.80)	91.20
PET 242	42	8.00 (64.00)	18.50 (360.00)	7.40 (1.65)	20.00 (11.50)	14.50 (6.20)	25.30 (18.30)	82.80
PET 243	43	3.70 (13.00)	5.80 (33.00)	3.50 (0.35)	6.20 (1.20)	7.60 (1.90)	12.40 (4.60)	93.50
PET 244	44	4.05 (15.50)	7.90 (63.00)	3.90 (0.45)	7.90 (1.90)	8.40 (2.20)	16.70 (8.20)	92.80
PET 245	45	3.90 (14.50)	4.80 (23.00)	2.70 (0.20)	4.75 (0.70)	10.10 (3.10)	11.00 (3.60)	94.10
PET 246	46	3.10 (9.00)	6.70 (45.00)	3.30 (0.35)	5.60 (0.95)	5.90 (1.10)	11.00 (3.60)	94.20
PET 247	47	4.30 (18.00)	13.80 (195.00)	4.75 (0.700	13.20 (5.20)	10.70 (3.60)	24.20 (16.80)	89.20
PET 248	48	4.30 918.50)	7.60 (58.00)	3.30 (0.35)	6.70 (1.40)	8.80 (2.60)	13.70 (5.70)	93.20
PET 249	49	4.05 (16.00)	10.00 (105.00)	3.90 (0.45)	11.80 (4.30)	8.40 (2.20)	15.00 (6.70)	90.20

N.B.: (#) indicates square root transformed values, (*) indicates arcsine transformed values, figure in brackets are original values.

Table V.8c: (PMET-7) Relative susceptibility of pearl millet advanced entries to storage insect pests (*Rhyzopertha dominica*) at Jodhpur, *Kharif* 2023-24

Sr.No.	Entry no.	Entry name	% grain damage		Adults/100g		% Weight loss		% germination
			At 3 months of storage	At 6 months of storage	At 3 months of storage	At 6 months of storage	At 3 months of storage	At 6 months of storage	At 6 months of storage
1	PET 201	MH 2672	12.00	33.93	49.50	194.00	3.50	19.50	80.5
2	PET 202	MH 2673	3.20	8.40	7.50	47.50	0.75	5.50	94.0
3	PET 203	MH 2675	27.50	62.50	77.50	320.00	7.25	43.50	69.5
4	PET 204	MH 2678	13.50	33.00	86.50	199.00	2.50	21.50	83.0
5	PET 205	MH 2743	27.50	57.30	54.50	319.00	4.75	35.00	74.0
6	PET 206	MH 2744	22.90	44.38	42.50	245.00	5.25	24.50	84.0
7	PET 207	MH 2746	18.30	39.13	53.50	161.00	5.63	27.00	81.5
8	PET 208	MH 2747	16.60	22.50	52.50	122.50	1.75	12.00	83.0
9	PET 209	MH 2748	13.60	28.38	29.50	164.00	3.25	14.00	85.5
10	PET 210	MH 2749	4.93	9.00	7.00	52.50	0.75	5.50	96.5
11	PET 211	MH 2754	21.50	45.00	67.00	220.00	5.75	29.00	84.5
12	PET 212	MH 2758	17.88	36.25	52.50	164.00	5.75	26.50	93.0
13	PET 213	MH 2682	9.25	16.88	8.00	60.00	4.25	18.00	94.0
14	PET 214	MH 2767	25.13	44.68	31.50	210.00	5.75	24.00	81.0
15	PET 215	MH 2773	9.40	28.38	23.50	150.00	3.75	14.25	85.0

16	PET 216	MH 2775	10.20	24.00	18.50	135.00	4.25	16.25	85.5
17	PET 217	MH 2777	18.50	34.10	47.50	151.50	5.00	24.00	86.5
18	PET 218	MH 2784	14.70	29.75	60.00	164.50	3.75	22.50	84.5
19	PET 219	MH 2709	16.40	31.25	38.50	173.50	4.75	25.00	86.5
20	PET 220	MH 2712	4.20	9.00	5.00	25.00	0.75	3.00	94.0
21	PET 221	MH 2717	10.10	13.75	14.00	50.00	2.25	12.00	91.0
22	PET 222	MH 2795	1.13	9.50	5.50	40.50	1.50	5.25	91.5
23	PET 223	MH 2796	28.50	47.80	155.0	257.00	5.75	33.00	77.0
24	PET 224	MH 2797	3.13	8.45	5.50	52.50	1.75	5.25	96.5
25	PET 225	MH 2798	10.00	27.50	28.00	103.50	2.75	17.00	83.5
26	PET 226	MH 2801	14.75	23.70	40.00	135.00	5.25	21.00	85.0
27	PET 227	MH 2806	3.00	8.80	6.50	50.50	1.75	6.50	93.0
28	PET 228	MH 2808	9.63	17.50	17.00	49.50	2.75	11.75	97.5
29	PET 229	MP 637	4.63	9.00	10.00	45.00	0.75	3.00	98.5
30	PET 230	HHB 67 Imp.	4.70	9.38	6.00	47.00	1.00	4.75	96.5
31	PET 231	PB 1756	8.13	12.40	12.00	67.00	2.25	11.00	94.5
32	PET 232	MPMH 35	10.00	23.13	16.50	126.50	1.75	11.75	86.5
33	PET 233	RHB 223	7.70	15.38	9.00	107.00	1.00	7.00	92.5

34	PET 234	AHB 1269	12.00	25.60	77.50	153.00	2.25	12.25	87.0
35	PET 235	86M01	25.50	49.40	97.50	227.50	3.75	29.00	71.0
36	PET 236	Pratap	26.25	60.20	149.00	344.50	5.25	39.00	61.5
37	PET 237	KBH 108	25.50	47.50	63.50	245.00	2.25	31.50	72.5
38	PET 238	86M86	12.00	26.25	53.00	161.00	1.50	16.67	81.0
39	PET 239	86M84	24.75	42.00	72.00	229.00	4.75	30.00	76.5
40	PET 240	MP 7878	17.00	33.70	32.50	151.00	3.00	18.00	83.5
41	PET 241	Kaveri Super Boss	14.80	37.50	38.00	200.00	4.50	18.00	85.0
42	PET 242	NBH 4903	25.50	62.25	173.50	344.50	5.50	40.00	71.5
43	PET 243	AHB 1200	30.00	72.50	181.00	333.00	6.75	52.00	48.5
44	PET 244	Raj 171	18.00	36.80	117.50	158.00	2.50	18.00	82.5
45	PET 245	JBV 2	16.75	37.60	82.50	186.00	2.25	18.25	81.5
46	PET 246	Dhanshakti	15.00	44.00	61.00	210.00	4.75	29.00	74.0
47	PET 247	ICMV 221	9.00	17.25	13.50	55.00	1.25	7.25	93.0
48	PET 248	Pusa Comp. 383	2.13	9.25	5.50	25.00	1.00	5.75	90.5
49	PET 249	Pusa Comp. 701	2.50	8.75	4.50	30.00	1.25	6.50	92.5

Table V.8d: (PMET-7) Relative susceptibility of pearl millet advanced entries to storage insect pests (*Rhyzopertha dominica*) at Anantapur, *Kharif* 2023-24.

S.No	3 months				6 months				
	Seed damage (100 seeds)	Adult population /100gm	Seed wt(100gm)	% Seed weight loss	Seed damage (100 seeds)	Adult population /100gm	Seed wt(100gm)	% Seed weight loss	Germination %
1	80	404	88	12	86	627	72	28	5.5
2	57	353	86	14	84	614	73	27	12.5
3	22	208	93	6.8	63	454	86	14	30.2
4	29	204	97	2.8	53	555	85	15	25.3
5	63	329	86	14	84	581	78	22	11.5
6	31	328	95	5.3	61	549	78	22	19.5
7	40	422	92	8	65	630	77	23	19.3
8	64	350	93	7.2	82	566	77	23	12.6
9	34	316	91	9.4	80	614	78	22	23.2
10	20	287	93	6.9	67	569	80	20	21.8
11	55	257	93	7.5	72	616	82	18	12.5
12	60	331	88	12	63	522	76	24	21.5
13	48	305	92	7.7	63	519	82	18	12
14	46	339	93	7.2	75	519	82	18	15.2
15	51	362	89	11	48	613	74	26	12
16	70.5	425	84.9	15.2	73.5	606	72.7	27.3	7.5
17	41	254	94.4	5.65	74.5	452	85.5	14.5	27.6
18	30.5	177	95.6	4.45	43	454	86.2	13.8	39.2
19	33.5	215	93.6	6.45	35	508	85.2	14.8	26.5
20	14.5	265	97.2	2.8	79	584	84.6	15.4	21.5
21	25	268	92.1	7.95	54.5	506	85	15	24.3
22	36	301	94.8	5.2	47	575	82.6	17.4	14.3

23	34	309	88.8	11.3	75.5	514	77	23	21.6
24	34	300	93.7	6.3	63	428	83.6	16.4	20.4
25	16	162	95.6	4.4	23.5	280	90	9.98	45.2
26	50.5	327	86.3	13.7	47.5	571	77.3	22.7	28.6
27	45.5	282	85.6	14.4	72.5	516	77.8	22.2	8.25
28	45	304	89.4	10.6	62	501	81.2	18.8	16.3
29	27.5	292	92.7	7.35	57	422	89.4	10.7	40.3
30	23	256	93.3	6.75	65	446	86.4	13.6	11.6
31	54.5	301	90.5	9.55	68	431	82.2	17.9	21.3
32	47.5	301	95.1	4.9	68.5	493	84.9	15.2	17.9
33	59.5	356	88	12.1	66.5	484	78.1	21.9	19.5
34	40.5	375	86.5	13.5	69.5	450	78.5	21.5	21.4
35	24.5	218	96.3	3.7	50.5	428	88.1	11.9	39.3
36	56.5	337	92.8	7.25	65.5	553	81.5	18.5	19.3
37	42.5	308	90.2	9.8	66	622	79.1	20.9	29.2
38	32	299	91.6	8.45	67	443	84.7	15.3	18.3
39	42	224	93.5	6.55	46	338	85.6	14.4	18.2
40	36	231	88.6	11.5	63	364	82.7	17.3	25.8
41	29.5	167	95	5	65.5	412	85.3	14.7	22.1
42	22	219	89.2	10.9	63	464	82.2	17.8	15.6
43	37.5	297	90.1	9.9	61	449	82.8	17.2	19.5
44	38.5	356	84.8	15.2	69.5	508	77.9	22.1	16.2
45	67	311	81.6	18.5	73.5	537	74.7	25.3	13
46	23.5	218	94.7	5.35	29	497	86.4	13.6	40.5
47	42.5	245	91.3	8.75	49	431	82.9	17.1	22.5
48	29.5	243	90.8	9.25	62	421	83.4	16.6	23.5
49	45.5	279	90.8	9.25	65	327	80.9	19.1	15.6

C.D.	N/A	N/A	N/A	8.53	N/A	157.20	9.33	9.33	
SE(m)	8.62	55.23	3.37	2.99	10.84	55.14	3.27	3.27	
SE(d)	12.20	78.11	4.77	4.23	15.33	77.99	4.62	4.62	
C.V.	31.10	26.94	5.24	30.81	26.54	15.38	5.69	24.80	

Table V.8e: (PMET-7) Relative susceptibility of pearl millet advanced entries to storage insect pests (*Rhyzopertha dominica*) at Jaipur, *Kharif* 2023-24.

Entry Code	Entry Name	Adult *R. dominica* population/250g		Adult *R. dominica* grain damage %		Adult *R. dominica* weight loss %		Germination %
		At 3 months	6 months	3 months	6 months	3 months	6 months	
PET 201	MH 2672	44.00	113.00	2.25	4.50	4.68	6.86	85.00
PET 202	MH 2673	56.50	121.50	3.38	6.63	7.58	11.06	82.50
PET 203	MH 2675	57.00	128.00	3.50	8.25	8.05	12.58	80.00
PET 204	MH 2678	69.50	132.00	5.63	9.25	12.75	14.11	77.50
PET 205	MH 2743	89.00	201.00	8.00	26.50	14.30	30.72	56.50
PET 206	MH 2744	69.50	179.00	5.63	21.00	12.75	31.64	63.50
PET 207	MH 2746	44.50	117.50	2.38	5.63	5.03	7.63	82.00
PET 208	MH 2747	55.50	121.50	3.13	6.63	7.00	11.06	81.50
PET 209	MH 2748	56.00	132.00	3.25	9.25	7.23	14.11	77.00
PET 210	MH 2749	41.00	115.50	3.75	5.13	8.75	6.86	82.00
PET 211	MH 2754	56.50	128.00	3.38	8.25	7.58	12.58	79.00
PET 212	MH 2758	57.00	123.50	3.50	7.13	7.80	11.82	80.50
PET 213	MH 2682	69.50	187.50	5.13	23.13	11.60	29.91	57.00
PET 214	MH 2767	57.00	141.50	3.50	11.63	7.80	20.97	75.50
PET 215	MH 2773	61.50	139.50	4.63	11.13	10.08	20.21	73.00
PET 216	MH 2775	64.00	181.50	4.25	21.63	9.90	31.80	63.00
PET 217	MH 2777	69.50	188.50	5.13	23.38	11.60	35.91	60.00
PET 218	MH 2784	57.00	133.50	3.50	9.63	7.80	17.44	75.50
PET 219	MH 2709	43.50	117.00	2.13	5.50	4.45	10.46	87.00
PET 220	MH 2712	56.00	121.50	3.25	6.63	7.35	11.24	82.50
PET 221	MH 2717	44.50	121.50	2.38	6.63	5.03	11.24	83.00

PET 222	MH 2795	31.00	111.00	0.63	4.00	1.63	6.20	84.00
PET 223	MH 2796	79.00	197.50	7.50	25.63	13.65	30.56	55.50
PET 224	MH 2797	74.00	193.00	6.25	24.50	13.88	36.81	53.50
PET 225	MH 2798	57.00	131.00	3.50	9.00	8.05	14.73	74.00
PET 226	MH 2801	55.50	129.00	3.13	8.50	7.13	13.18	74.00
PET 227	MH 2806	55.50	117.50	3.13	5.63	7.00	7.75	81.50
PET 228	MH 2808	27.50	106.00	0.63	2.75	1.50	3.70	92.50
PET 229	MP 637	57.50	122.00	3.63	6.75	8.15	8.53	81.00
PET 230	HHB 67 Imp.	43.50	128.00	2.13	8.25	4.45	12.99	78.50
PET 231	PB 1756	43.50	121.50	2.13	6.63	4.45	11.42	83.00
PET 232	MPMH 35	68.00	177.00	5.25	20.50	11.70	32.29	61.50
PET 233	RHB 223	55.50	123.50	3.13	7.13	7.00	12.21	80.50
PET 234	AHB 1269	69.00	180.00	5.00	21.25	11.25	34.26	61.50
PET 235	86M01	57.00	130.50	3.50	8.88	8.05	14.57	73.50
PET 236	Pratap	26.00	105.50	0.88	2.63	2.08	3.94	90.50
PET 237	KBH 108	62.50	124.00	4.38	7.25	9.63	9.45	78.00
PET 238	86M86	45.00	122.00	2.50	6.75	5.25	8.66	81.00
PET 239	86M84	31.00	128.00	0.50	8.25	1.40	12.99	77.00
PET 240	MP 7878	61.00	122.00	4.50	6.75	9.73	8.66	81.00
PET 241	Kaveri Super Boss	44.50	121.50	2.38	6.63	5.03	11.42	83.00
PET 242	NBH 4903	44.50	115.50	2.38	5.13	5.03	7.20	85.50
PET 243	AHB 1200	43.50	121.50	2.13	6.63	4.45	11.60	82.50
PET 244	Raj 171	57.50	128.00	3.63	8.25	8.15	13.20	79.00
PET 245	JBV 2	58.00	123.50	3.75	7.13	8.38	12.40	81.00
PET 246	Dhanshakti	44.50	117.50	2.38	5.63	5.03	8.00	82.50
PET 247	ICMV 221	43.50	111.00	2.13	4.00	4.45	6.40	85.00
PET 248	Pusa Comp. 383	31.00	117.00	0.50	5.50	1.40	10.80	82.00
PET 249	Pusa Comp. 701	31.00	115.50	0.75	5.13	1.98	7.20	84.00

Table V.9a: (PMET-8) Statement showing adult moth catches of FAW along with weather parameters during *kharif*-2023 (Centre: Jamnagar)

No.	S M W	Date of Observation	Days After Germi nation	FAW adult catches/ trap	Fall army worm % damage	Temp. O Maxi.	Temp. O Mini.	R.H. Morn.	R.H. Even.	Wind speed km/hr	BSS (hrs)	Eo (mm)	Rainfall (mm)	Rainy Days
1	27	07.07.25	7 DAG	0	0.00	31.7	26.4	92	79	9.1	1.9	4.2	63.5	4
2	28	14.07.25	14 DAG	0	0.00	31.9	26.1	88	69	10.7	3.6	4.0	16.0	3
3	29	21.07.25	21 DAG	0	0.00	33.1	26.6	88	68	7.9	3.9	4.6	30.5	2
4	30	28.07.25	28 DAG	0	0.00	31.9	26.7	85	73	10.0	1.7	3.6	4.5	1
5	31	04.08.25	35 DAG	0	0.00	32.0	26.3	82	67	10.0	1.1	3.7		
6	32	11.08.25	42 DAG	0	0.00	31.8	25.5	82	67	7.4	2.2	3.7	8.0	1
7	33	18.08.25	49 DAG	0	0.00	33.0	25.7	92	63	5.0	2.6	3.7	63.0	4
8	34	25.08.25	56 DAG	0	0.00	30.4	25.6	94	84	9.8	1.4	3.1	66.5	5
9	35	01.09.25	63 DAG	0	0.00	31.7	26.1	88	69	7.3	1.8	3.7	1.5	
10	36	08.09.25	70 DAG	0	0.00	30.7	24.6	90	73	10.0	2.0	2.5	105.0	4
11	37	15.09.25	77 DAG	0	0.00	32.5	24.6	89	61	6.7	5.5	4.1		
12	38	22.09.25	84 DAG	0	0.0	33.1	25.1	86	57	5.5	5.8	4.8		

N.B.: Date of sowing: 02.07.2025, Harvesting: 20.10.2025, Variety: General pearl millet crop

Table V.9b: (PMET-8)Statement showing adult moth catches of FAW along with weather parameters during *kharif*-2023 (Centre: Aurangabad)

SMW	Period of observations	Days after Germi.	FAW adult catches/trap /Week	FAW larvae/ 20 plants	FAW % damaged plants
32	06/8-12/8	35 DAG	25	03	10.0
33	13/8-19/8	42 DAG	22	02	10.00
34	20/8-26/8	49 DAG	28	03	11.20
35	27/8-02/9	56 DAG	40	04	12.10
36	03/9-09/9	63 DAG	53	03	16.00
37	10/9-16/9	70 DAG	90	06	19.10
38	17/9-23/9	77DAG	87	07	19.25
39	24/9-30/9	84 DAG	78	05	22.00
40	1/10-7/10	91 DAG	80	06	11.00
41	8/10-14/10	98 DAG	86	00	10.00
42	15/10-21/10	105 DAG	69	00	10.10

Table V.9c: (PMET-8) Statement showing adult moth catches of FAW along with weather parameters during *kharif*-2023 (Centre: Hisar)

No.	SMW	Date of Obs.	Days after Germi.	FAW adult catches per trap	FAW larval counts per 20 plants	FAW % damaged Plants	Temp o C Maxi.	Temp oC Mini.	RH Morning	RH Evening	Ranfall mm	Rainy days
1	28	11.07.25	7 DAG	0	0	0	32.1	25.4	93.9	77.9	134.8	5
2	29	18.07.25	14 DAG	0.4	0	0	33	26.9	89.2	67.7	9.1	1
3	30	25.07.25	21 DAG	4.2	4	2	35.4	27.5	89.3	68.7	30.8	2
4	31	31.07.25	28 DAG	8.4	9	6	31.8	26	92.8	75.6	128.1	3
5	32	7.08.25	35 DAG	2.4	7	10	33.9	26.7	83.7	65.8	0.4	0
6	33	14.08.25	42 DAG	0	0	0	33.1	27.2	90.4	71.5	7.4	1
7	34	21.08.25	49 DAG	0	0	0	32.2	25.8	93.8	77.1	63.4	2
8	35	28.08.25	56 DAG	1.4	0	0	27.2	25.5	97.4	80.4	144.3	5
9	36	04.09.25	63 DAG	0.8	0	0	32.8	25.7	89.7	80.7	60.9	4
10	37	11.09.25	70 DAG	0	0	0	34.2	25.8	82.4	57.4	0	0
				1.76	2	1.8	--	--	--	--	--	--

Table V.9d: (PMET-8) Statement showing adult moth catches of FAW along with weather parameters during *kharif*-2023 (Centre: Jodhpur)

No.	SWW	Date of Obs.	Days after Germi.	FAW adult catches per trap	FAW larval counts per 20 plants	FAW % damaged Plants
1	30	24.07.25	7 DAG	0	0	0
2	31	31.07.25	14 DAG	0	0	0
3	32	7.08.25	21 DAG	0	0	0
4	33	14.08.25	28 DAG	0	0	0
5	34	21.08.25	35 DAG	0	0	0
6	35	28.08.25	42 DAG	0	0	0
7	36	4.09.25	49 DAG	0	6	2
8	37	11.09.25	56 DAG	0	8	2
9	38	18.09.25	63 DAG	0	0	0
10	39	25.09.25	70 DAG	0	0	0
11	40	2.10.25	77 DAG	0	0	0
12	41	9.10.25	84 DAG	0	0	0
13	42	16.10.25	91 DAG	0	0	0
14	43	24.10.25	98 DAG	0	0	0

N.B.: Pheromone traps to be installed 7 Days After Germination of the crop. Lure to be replaced after 40 days of installation

CHAPTER VI
FRONT LINE DEMONSTRATIONS

FRONTLINE DEMONSTRATIONS

The front line demonstrations (FLD's) on different production aspects of pearl millet were conducted on 646 ha area against the target plan of 1000 ha in the states of Rajasthan, Haryana, Gujarat, Punjab, Maharashtra, Karnataka, Andhra Pradesh and Tamil Nadu. The area under *kharif* and s*ummer* FLD's is 834.8 and 40 ha, respectively. The summary results are given in Table VI.I:

S. No.	Name of the centre	Area (ha)	No. of Demo.	Grain yield (kg/ha)		% imp. in grain yield	Stover yield (kg/ha)		Type of Demonstration
				IP	FP		IP	FP	
1	Bikaner (Rajasthan)	50	50	1104	866	27.5	2810	2528	Improved practices (Bio-fortified hybrid RHB 234 v/s Farmer's practices
2	Jaipur (Rajasthan)	50	50	2497	2115	18.0	5989	-	Improved practices (Bio-fortified hybrid RHB 234 *v/s* Farmer's practices
3	Hisar (Haryana)	16	39	2606	2209	19.0	-	-	Improved practices (Bio-fortified hybrid HHB 299; Fe-73 ppm & Zn-41 ppm) *v/s* Farmer's practices
4	Jamnagar (Gujarat) (*Summer*)	20	50	4263	3894	9.5	7260	6558	Improved biofortified hybrid (GHB 1231) v/s Farmer's practices
5	Jamnagar (Gujarat) (*Kharif*)	10	25	2846	2612	9.0	7566	6885	Improved biofortified hybrid (GHB 1231) *v/s* Local variety
6	Ananthapuram (Andhra Pradesh)	20	20	1334	1127	18.3	2612	2326	Improved practices (Bio-fortified variety ABV 04; Fe-70 ppm & Zn-63 ppm) *v/s* Farmer's practices
7	Ludhiana (Punjab)	20	20	3935	2991	31.6	7283	7112	Improved practices (Hybrid PCB 167) *v/s* Farmer's practices
8	Dhule (Maharashtra)	20	50	1700	1543	10.2	2985	2728	Improved practices (Aadishakti) *v/s* Farmer's practices
9	Vijayapur (Karnataka)	20	20	2134	1787	19.4	4994	4591	Improved practices (Bio-fortified hybrid VPMH 14) *v/s* Farmer's practices
10	Vizianagaram (Andhra Pradesh) (*Kharif*)	30	30	2340	2076	12.7	7862	7228	Improved practices (Bio-fortified variety ABV 04; Fe-70 ppm & Zn-63ppm) *v/s* Farmer's practices
11	Aurangabad (Maharashtra)	40	100	2040	1717	18.8	4753	4006	Full Package of practices (Bio-fortified hybrid AHB 1200) *v/s* Farmer's practices
12	KVK CAZRI, Jodhpur (Rajasthan)	20	50	1769	1463	20.9	2340	1818	Improved practices (Bio-fortified hybrid HHB 299; Fe-73 ppm & Zn-41 ppm) *v/s* Farmer's practices
13	KVK Chandgothi, Churu (Rajasthan)	100	167	Data not reported					Improved practices (Bio-fortified hybrid HHB 299; Fe-73 ppm & Zn-41 ppm) *v/s* Farmer's practices

S. No.	Name of the centre	Area (ha)	No. of Demo.	Grain yield (kg/ha)		% imp. in grain yield	Stover yield (kg/ha)		Type of Demonstration
				IP	FP		IP	FP	
14	Vizianagaram (Andhra Pradesh) (*Summer*)	30	30	2392	2020	18.4	7639	7275	Improved practices (Bio-fortified variety ABV 04; Fe-70 ppm & Zn-63ppm) *v/s* Farmer's practices
15	KVK Athiyasan, Nagaur (Rajasthan)	50	63	1895	1524	24.3	5846	4672	Improved practices (Bio-fortified hybrid HHB 299; Fe-73 ppm & Zn-41 ppm) *v/s* Farmer's practices
16	KVK Pokaran Jaisalmer-II (Rajasthan)	100	125	Data not reported					Improved practices (Bio-fortified hybrid HHB 299; Fe-73 ppm & Zn-41 ppm) *v/s* Farmer's practices
17	KVK Bamanwara, Jalore-II (Rajasthan)	50	50	1663	1323	25.7	-	-	Improved practices (Bio-fortified hybrid RHB 234; Fe-84 ppm & Zn-41 ppm) *v/s* Farmer's practices
G. Total		**646**	**939**						

Total FLD's allotted (ha.)	1000 ha	FLD's with Biofortified hybrid/variety		646 ha
Total FLD's conducted (ha.)	646 ha	% FLD's with Biofortified hybrid/variety		100%
		Zone	No. of FLD's	Biofortified
FLD's conducted (*Kharif*)	596 ha	Zone A_1	370	370
FLD's conducted (*Summer*)	50 ha	Zone A	96	96
		Zone B	130	130
		Summer(Zone A&B)	50	50

Bikaner: During *Kharif* 2025 season, fifty FLD's on improved practices of pearl millet (Full package of practices and use of improved biofortified hybrid RHB 234) *v/s* farmer's practicesin pearl millet were conducted in 100 ha area. The improved package of practices (Full package of practices and biofortified hybrid RHB 234) recorded 27.5% highergrain yield (1104 kg/ha) compared to the 866kg/ha obtained with farmer's practices.

Jaipur: To demonstrate the production potential of improved hybrid (RHB 234) fifty frontline demonstrations (50 ha area) were conducted in Jaipur, Kothputli Behror and Ajmer districts of Rajasthan. An average grain yield of 2497 kg/ha was recorded with adoption of improved hybrids as compared to the farmer's practices (2115 kg/ha). The average increase in grain yield was to the tune of 18.0% over the farmer's practices.

Hisar: During *Kharif* 2024, thirty-nine FLD's on pearl millet in 16 ha area were conducted on different production aspects *i.e.* Improved practices (Use of improved hybrid HHB 299, Recommended dose of Nitrogen & Phosphorus along with Zn, biomix and herbicide Atrazine +1 HW) *v/s* Farmer's Practices (Use of Pvt. Hybrid, Suboptimal use of N (40-60 kg/ha) only + 1 HW, negligible or no use of P, $ZnSO_4$ fertilizers, biomix biofertilizer and herbicide Atrazine.). The overall average increase of 19.0% in grain yield was recorded with adoption of improved practices (2606 kg/ha) as compared to the farmers practice (2209 kg/ha).

Jamnagar (*Summer*): Fifty FLD's in 20 ha area on improved biofortifiedhybrid*i.e.*GHB 1231were conducted at different locations of Gujarat. An average grain yield of 4263 kg/ha was obtained by adoption of improved hybrid as compared to the local variety (3894 kg/ha) and the average increase in the grain yield was 9.5%.

Jamnagar (*Kharif*): Twenty-five FLD's in 10 ha area on improved biofortifiedhybrid*i.e.* GHB 1231were conducted at different locations of Gujarat. An average grain yield of 2846 kg/ha was obtained by adoption of improved biofortified hybrid (GHB 1231) as compared to the local variety (2612kg/ha) and the average increase in the grain yield was 9.0%.

Ananthapuram: During *Kharif* 2025, twenty FLD's were conducted in 20 ha area on improved practices (varietal aspect of pearl millet *i.e.* comparison ABV 04 v/s farm saved seeds (farmer's practices). The average grain yield of 1334 kg/ha was obtained in case of improved practices compared to the 1127 kg/ha recorded by the farmer's practices. The average increase in the grain yield was 18.3% over the farmer's practices.

Ludhiana: During *Kharif* 2025, twenty FLD's were conducted in 20 ha area on improved practices of pearl millet (Full package of practices and use of improved hybrid PCB 167) *v/s* farmer's practices. The average grain yield of 3935 kg/ha was obtained in case of improved practices compared to the 2991 kg/ha recorded by the farmer's practices. The average increase in the grain yield wasto the tune of31.6% over the farmer's practices.

Dhule: During *Kharif* 2025, fifty FLD's were conducted in 20 ha area on improved practices (varietal aspect of pearl millet *i.e.* comparison of different hybrid Aadishakti v/s local variety) *v/s* farmer's practices. The average grain yield of 1700 kg/ha was obtained in case of improved practices compared to the 1543 kg/ha recorded by the farmer's practices. The average increase in the grain yield was 10.2% over the farmer's practices.

Vijayapur: During *Kharif* 2025, twenty FLD's in 20 ha area were conducted on full package of practices (varietal aspect of pearl millet *i.e.* VPMH 14 *v/s* farmer's practices. The mean grain yield of pearl millet 2134kg/ha was recorded in case of improved practices compared to the 1787 kg/ha obtained with farmer's practices. The average increase in the grain yield was 19.4% over the farmer's practices.

Vizianagaram (*Kharif*): Thirty FLD's were conducted in 30 ha area on improved practices (varietal aspect of pearl millet *i.e.* comparison ABV 04 *v/s* Pittaganti) *v/s* farmer's practices. The average grain yield of 2340kg/ha was obtained in case of improved practices as compared to the farmer's practices (2076kg/ha). The average increase in grain yield was 12.7% over the farmer's practices.

Aurangabad: During *Kharif* 2025, hundred FLD's were conducted in 40 ha area on improved practices (varietal aspect of pearl millet *i.e.* comparison AHB 1200 v/s local variety (MP7333) *v/s* farmer's practices. The average grain yield of 2040 kg/ha was obtained in case of improved practices compared to the 1717 kg/ha recorded by the farmer's practices. The average increase in the grain yield was 18.8% over the farmer's practices.

ICAR-CAZRI-KVK, Jodhpur: Fifty FLD's were conducted in 20 ha area on improved practices of pearl millet (Full package of practices and use of improved biofortified hybrid HHB 299) *v/s* farmer's practices. The average grain yield of 1769 kg/ha was obtained in case of improved practices compared to the 1463 kg/ha recorded by the farmer's practices. The average increase in the grain yield was 20.9% over the farmer's practices.

Vizianagaram (*Summer*): Thirty FLD's were conducted in 30 ha area on improved practices (varietal aspect of pearl millet *i.e.* comparison ABV 04 *v/s* Pittaganti) *v/s* farmer's practices. The average grain yield of 2392 kg/ha was obtained in case of improved practices as compared to the farmer's practices (2020 kg/ha). The average increase in grain yield was 18.4% over the farmer's practices.

KVK Athiyasan, Nagaur-I (Agriculture University, Jodhpur): Sixty-three FLD's were conducted in 50 ha area on improved practices of pearl millet (Full package of practices and use of improved biofortified hybrid HHB 299) *v/s* farmer's practices. The average grain yield of 1895 kg/ha was obtained in case of improved practices as compared to the 1524 kg/ha by the farmer's practices. The average increase in grain yield was 24.3% over the farmer's practices.

KVK Bamanwara, Jalore-II (Agriculture University, Jodhpur): Forty FLD's were conducted in 50 ha area on improved practices of pearl millet (Full package of practices and use of improved biofortified hybrid RHB 234) *v/s* farmer's practices. The average grain yield of 1663 kg/ha was obtained in case of improved practices as compared to the 1323 kg/ha by the farmer's practices. The average increase in grain yield was 25.7% over the farmer's practices.

Table VI.2: Result of FLD's conducted by ARS (SKRAU), Bikaner - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid RHB 234) v/s Farmer's Practice Trials

S. No.	Name of Beneficiary	Address	Type of Demon.	Test Variety	Check Variety	Grain Yield (Kg/ha)		% imp. in Grain yield	Fodder Yield (Kg/ha)		GR (Rs./ha)		NR (Rs./ha)	
						IP	FP		IP	FP	IP	FP	IP	FP
1	Bhagwanaram	Kalyanpura, Churu	Full POP	RHB 234	Local	1400	1000	40.0	3600	3000	46000	35000	31000	21000
2	Mangusingh	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	900	22.2	2500	2300	34500	29500	19500	15500
3	Santosh	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	900	11.1	2700	2300	33500	29500	18500	15500
4	Lalchand	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	800	25.0	2700	2500	33500	28500	18500	14500
5	Kaluram	Kalyanpura, Churu	Full POP	RHB 234	Local	900	800	12.5	2600	2200	31000	27000	16000	13000
6	Dharmaram	Kalyanpura, Churu	Full POP	RHB 234	Local	900	700	28.6	2700	2400	31500	26000	16500	12000
7	Bheemaram	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	800	25.0	2800	3500	34000	33500	19000	19500
8	Jagudan	Kalyanpura, Churu	Full POP	RHB 234	Local	1200	800	50.0	2500	2000	36500	26000	21500	12000
9	Kailash Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	800	37.5	2900	2400	36500	28000	21500	14000
10	Pawan Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	800	600	33.3	2600	2100	29000	22500	14000	8500
11	Tulcha Kanwar	Kalyanpura, Churu	Full POP	RHB 234	Local	900	800	12.5	2600	2300	31000	27500	16000	13500
12	Nand Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1300	1000	30.0	3300	2900	42500	34500	27500	20500
13	Kaluram	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	1000	10.0	3000	2800	37000	34000	22000	20000
14	Shyamsundar	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	800	25.0	3000	2500	35000	28500	20000	14500
15	Khiyaram	Kalyanpura, Churu	Full POP	RHB 234	Local	900	700	28.6	2800	2800	32000	28000	17000	14000
16	Bhanwarlal	Kalyanpura, Churu	Full POP	RHB 234	Local	1200	900	33.3	2600	2300	37000	29500	22000	15500
17	Bhanwri Devi	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	800	37.5	2700	2500	35500	28500	20500	14500
18	Maniram	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	800	37.5	2600	2400	35000	28000	20000	14000
19	Kailash Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1200	1000	20.0	2700	2500	37500	32500	22500	18500
20	Ramu	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	900	11.1	3000	2500	35000	30500	20000	16500
21	Sudhir Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	800	25.0	2800	2700	34000	29500	19000	15500
22	Parbhu Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	900	22.2	2600	2500	35000	30500	20000	16500
23	Roop Kanwar	Kalyanpura, Churu	Full POP	RHB 234	Local	800	600	33.3	2500	2400	28500	24000	13500	10000
24	Santosh Kanwar	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	800	25.0	2500	2200	32500	27000	17500	13000
25	Rekha Kanwar	Kalyanpura, Churu	Full POP	RHB 234	Local	1500	1000	50.0	3500	3000	47500	35000	32500	21000
26	Dharmendra	Kalyanpura, Churu	Full POP	RHB 234	Local	1300	1100	18.2	3000	2700	41000	35500	26000	21500
27	Dayal Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1300	1100	18.2	3000	2600	41000	35000	26000	21000
28	Sishupal Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	1100	700	57.1	2700	2700	35500	27500	20500	13500

Table VI.2: Result of FLD's conducted by ARS (SKRAU), Bikaner - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid RHB 234) v/s Farmer's Practice Trials

S. No.	Name of Beneficiary	Address	Type of Demon.	Test Variety	Check Variety	Grain Yield (Kg/ha)		% imp. in Grain yield	Fodder Yield (Kg/ha)		GR (Rs./ha)		NR (Rs./ha)	
						IP	FP		IP	FP	IP	FP	IP	FP
29	Usha Kanwar	Kalyanpura, Churu	Full POP	RHB 234	Local	1000	700	42.9	2800	2700	34000	27500	19000	13500
30	Om Singh	Kalyanpura, Churu	Full POP	RHB 234	Local	800	600	33.3	3600	2900	34000	26500	19000	12500
31	Purkha Ram	Pemasar, Churu	Full POP	RHB 234	Local	1100	800	37.5	2700	2400	35500	28000	20500	14000
32	Bajrang Ram	Pemasar, Churu	Full POP	RHB 234	Local	800	700	14.3	3000	2800	31000	28000	16000	14000
33	Taru Ram	Pemasar, Churu	Full POP	RHB 234	Local	1200	1100	9.1	2600	2200	37000	33000	22000	19000
34	Panna Ram	Pemasar, Churu	Full POP	RHB 234	Local	1200	1000	20.0	2700	2500	37500	32500	22500	18500
35	Mularam	Pemasar, Churu	Full POP	RHB 234	Local	1300	1000	30.0	3200	2900	42000	34500	27000	20500
36	Maluram	Pemasar, Churu	Full POP	RHB 234	Local	800	600	33.3	2500	2200	28500	23000	13500	9000
37	Ganesharam	Pemasar, Churu	Full POP	RHB 234	Local	1000	700	42.9	2700	2500	33500	26500	18500	12500
38	Chandu Ram Jat	Pemasar, Churu	Full POP	RHB 234	Local	800	600	33.3	2300	2100	27500	22500	12500	8500
39	Rameshwar	Pemasar, Churu	Full POP	RHB 234	Local	1000	900	11.1	3000	2800	35000	32000	20000	18000
40	Kesraram	Pemasar, Churu	Full POP	RHB 234	Local	1200	900	33.3	2400	2400	36000	30000	21000	16000
41	Lachmanram	Pemasar, Churu	Full POP	RHB 234	Local	900	700	28.6	2600	2400	31000	26000	16000	12000
42	Raju Giri	Pemasar, Churu	Full POP	RHB 234	Local	1400	1000	40.0	3000	2400	43000	32000	28000	18000
43	Ram Kishan	Pemasar, Churu	Full POP	RHB 234	Local	1300	1100	18.2	2600	2300	39000	33500	24000	19500
44	Gopiram	Pemasar, Churu	Full POP	RHB 234	Local	1400	1000	40.0	2800	2400	42000	32000	27000	18000
45	Bhagwanaram	Pemasar, Churu	Full POP	RHB 234	Local	1500	1200	25.0	2500	2300	42500	35500	27500	21500
46	Yashpal	Pemasar, Churu	Full POP	RHB 234	Local	1500	1200	25.0	3500	3000	47500	39000	32500	25000
47	Ramkuaram	Pemasar, Churu	Full POP	RHB 234	Local	1200	1000	20.0	2600	2300	37000	31500	22000	17500
48	Ajmalram	Pemasar, Churu	Full POP	RHB 234	Local	1400	1200	16.7	3000	2600	43000	37000	28000	23000
49	Sunil Kukan	Pemasar, Churu	Full POP	RHB 234	Local	1000	700	42.9	2700	2400	33500	26000	18500	12000
50	Ajuram	Pemasar, Churu	Full POP	RHB 234	Local	1100	800	37.5	3200	2900	38000	30500	23000	16500
					Total	**55200**	**43300**		**140500**	**126400**	**1806500**	**1498000**	**1056500**	**798000**
					Mean	**1104**	**866**	**27.5**	**2810**	**2528**	**36130**	**29960**	**21130**	**15960**

Full POP: Use of Improved hybrids, Seed treatmet, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.3: Result of FLD's conducted by RARI (SKNAU, Jobner), Jaipur-*Kharif* 2025

Type of Demonstration: Improved Practices (Varietal trial: Biofortified hybrid RHB 234) *v/s* Farmer's Practices

S. No.	Name & Address of Beneficiary	Address	Variety/ Hybrid	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (IP) (kg/ha)
					IP	FP		
1	Shri Girdhari	Samred Kalan, Jaipur	RHB-234	F_2 seed	2320	2130	8.9	6200
2	Shri Gagan	Samred Kalan, Jaipur	RHB-234	F_2 seed	2430	2240	8.5	6400
3	Shri Jaipal	Samred Kalan, Jaipur	RHB-234	F_2 seed	2290	2000	14.5	6600
4	Shri Sultan	Samred Kalan, Jaipur	RHB-234	F_2 seed	2350	1980	18.7	6200
5	Shri Girdhari	Samred Kalan, Jaipur	RHB-234	F_2 seed	2380	2140	11.2	6100
6	Shri Gyarsilal	Samred Kalan, Jaipur	RHB-234	F_2 seed	2490	2210	12.7	6800
7	Shri Mahesh	Samred Kalan, Jaipur	RHB-234	F_2 seed	2450	2160	13.4	6800
8	Shri Gulab Singh	Samred Kalan, Jaipur	RHB-234	F_2 seed	2380	2240	6.3	6600
9	Shri Mukesh	Samred Kalan, Jaipur	RHB-234	F_2 seed	2470	2050	20.5	6400
10	Shri Haju	Anuppura, Jaipur	RHB-234	F_2 seed	2380	1980	20.2	6600
11	Shri Mohanlal	Samred Kalan, Jaipur	RHB-234	F_2 seed	2300	2260	1.8	6900
12	Shri Giriraj Singh	Bhivansh, Jaipur	RHB-234	F_2 seed	2420	2210	9.5	6000
13	Shri Purshottam	Godiyana, Jaipur	RHB-234	F_2 seed	2420	2150	12.6	5900
14	Shri Kaluram	Samred Kalan, Jaipur	RHB-234	F_2 seed	2390	2060	16.0	6300
15	Shri Gangaram	Samred Kalan, Jaipur	RHB-234	F_2 seed	2460	2210	11.3	6500
16	Shri Vishal Meena	Bagawas- 84, Jaipur	RHB-234	F_2 seed	2680	1990	34.7	6000
17	Smt. Guddi Devi	Bagawas- 84, Jaipur	RHB-234	F_2 seed	2700	2150	25.6	6400
18	Shri Anil Kumar	Bagawas- 84, Jaipur	RHB-234	F_2 seed	2410	2260	6.6	6900
19	Shri Ram Kunwar	Sundarpura, Kothputli	RHB-234	F_2 seed	2650	2360	12.3	6600
20	Shri Sunil Singh	Pathredi, Kothputli Behror	RHB-234	F_2 seed	2730	2270	20.3	6500
21	Shri Raghuveer	Paniyala, Kothputli Behror	RHB-234	F_2 seed	2800	2090	34.0	6300
22	Shri Shiv Kumar	Goneda, Kothputli Behror	RHB-234	F_2 seed	2450	2180	12.4	6400
23	Shri Ankit	Paniyala, Kothputli Behror	RHB-234	F_2 seed	2640	2230	18.4	6700
24	Shri Kailash Chandra	Goneda, Kothputli Behror	RHB-234	F_2 seed	2730	2070	31.9	6900
25	Shri Radhakrishna	Paniyala, Kothputli Behror	RHB-234	F_2 seed	2590	1980	30.8	6400
26	Shri Devkaran	Karwas, Kothputli Behror	RHB-234	F_2 seed	2660	2090	27.3	6300
27	Shri Harsahay	Bagawas, Jaipur	RHB-234	F_2 seed	2740	2150	27.4	6500
28	Shri Bachchu Singh	Thairawar, Bharatpur	RHB-234	F_2 seed	2810	2260	24.3	6200

Table VI.3: Result of FLD's conducted by RARI (SKNAU, Jobner), Jaipur-*Kharif* 2025

Type of Demonstration: Improved Practices (Varietal trial: Biofortified hybrid RHB 234) *v/s* Farmer's Practices

S. No.	Name & Address of Beneficiary	Address	Variety/ Hybrid	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (IP) (kg/ha)
					IP	FP		
29	Shri Bharat Singh	SPM Nagar, Bharatpur	RHB-234	F_2 seed	2760	2340	17.9	6600
30	Shri Sohan Lal	Thairawar, Bharatpur	RHB-234	F_2 seed	2600	2460	5.7	6700
31	Smt. Visan Devi	Thairawar, Bharatpur	RHB-234	F_2 seed	2830	2350	20.4	6200
32	Shri Man Singh	Thairawar, Bharatpur	RHB-234	F_2 seed	2650	2220	19.4	6000
33	Shri Anil Kumar Yadav	Nari Ka Bas, Jaipur	RHB-234	F_2 seed	2570	2210	16.3	6300
34	Shri Kamal Kanth Yadav	Nari Ka Bas, Jaipur	RHB-234	F_2 seed	2760	2280	21.1	6200
35	Shri Mukesh Kumar Yadav	Nari Ka Bas, Jaipur	RHB-234	F_2 seed	2650	2250	17.8	6200
36	Shri Gopal Lal Gurjar	Manoharpur, Jaipur	RHB-234	F_2 seed	2590	2090	23.9	6700
37	Shri Gopal Lal	Dhaka Ki Dhani, Jaipur	RHB-234	F_2 seed	2650	1950	35.9	6000
38	Bhagwan Singh	Nuriyawas, Ajmer	RHB-234	F_2 seed	2427	1905	27.4	5100
39	Surendra Kanwar	Nuriyawas, Ajmer	RHB-234	F_2 seed	2395	1635	46.5	5100
40	Prem Chand	Amba Masena, Ajmer	RHB-234	F_2 seed	2290	1845	24.1	5700
41	Sukhdev	Amba Masena, Ajmer	RHB-234	F_2 seed	2447	2105	16.2	5500
42	Bharat Singh	Bhanwata, Pisangan, Ajmer	RHB-234	F_2 seed	2390	1825	31.0	5400
43	Gajendra Singh	Bhanwata, Pisangan, Ajmer	RHB-234	F_2 seed	2410	2205	9.3	4900
44	Govind Gurjar	Bhanwata, Pisangan, Ajmer	RHB-235	F_2 seed	2410	2005	20.2	4700
45	Kachru Lal	Amba Masena, Ajmer	RHB-236	F_2 seed	2398	2235	7.3	5500
46	Ramesh Kumar	Amba Masena, Ajmer	RHB-237	F_2 seed	2387	2055	16.2	5600
47	Karan Kartar	Chat. Kekri, Ajmer	RHB-238	F_2 seed	2291	1945	17.8	4800
48	Ram Dayal	Saradhna, Ajmer	RHB-239	F_2 seed	2372	2305	2.9	5600
49	Ram Dev	Naharpura, Ajmer	RHB-240	F_2 seed	2432	2125	14.4	4700
50	Ravi	Dumada, Ajmer	RHB-241	F_2 seed	2274	2035	11.7	5300
51	Ramratan	Saradhna, Ajmer	RHB-234	F_2 seed	2410	2215	8.8	4900
52	Sajjan Singh	Ramner ki Dhani, Ajmer	RHB-234	F_2 seed	2425	1955	24.0	5500
53	Kalu Singh Rawat	Naharpura, Ajmer	RHB-234	F_2 seed	2392	2105	13.6	5400
54	Bhagat Singh	Ramner ki Dhani, Ajmer	RHB-234	F_2 seed	2405	1855	29.6	5600
55	Madho Singh	Ramner ki Dhani, Ajmer	RHB-234	F_2 seed	2365	2205	7.3	4800
56	Kamla	Naharpura, Ajmer	RHB-234	F_2 seed	2398	1955	22.7	5200
57	Anu Kanwar	Ramner ki Dhani, Ajmer	RHB-234	F_2 seed	2410	1815	32.8	4800
				Total	**142308**	**120580**		**341400**
				Mean	**2497**	**2115**	**18.0**	**5989**

Improved practices: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.4: Results of FLD's conducted by CCS HAU, Hisar during *Kharif* 2025

Type of Demonstration: Improved Practices (Varietal trial: Biofortified hybrid HHB 299) v/s Farmer's Practices

S. No.	Name of Farmer	Fathers/ Husband Name	Address	Vaiety/ Hybrids	Test Variety	Grain Yield (kg/ha)		% improvement in Grain yield
						IP	FP	
1	Sandeep Kumar	Krishan Kumar	Vill. Rawalwas Kurad, District Hisar	HHB 299	Local	2500	1752	43
2	Krishan Kumar	Puran Chand	Vill. Rawalwas Kurad, District Hisar	HHB 299	Local	2550	1900	34
3	Jaiveer Kumar	Raj Kumar	VPO Ludas, District Hisar	HHB 299	Local	2800	2200	27
4	Rakesh	Santa Ram	Vill. Hindwan, District Hisar	HHB 299	Local	Failed		
5	Samsher Singh	Ram Kumar	VPO. Pattan, District Hisar	HHB 299	Local	2300	1700	35
6	Sarwan Kumar	Narsing	Vill. Bir, VPO. Sanjay Nagar, District H	HHB 299	Local	2000	1600	25
7	Mandeep Kumar	Ramesh Kumar	Vill. Panihaar Chak, District Hisar	HHB 299	Local	1200	1000	20
8	Suresh kumar	Jay Singh	VPO Ludas, District Hisar	HHB 299	Local	1900	1650	15
9	Anoop	Krishan Kumar	Vill. Deva, District Hisar	HHB 299	Local	2750	2300	20
10	Rajesh	Daleep	Vill. Mangali Zara, District Hisar	HHB 299	Local	2600	2150	21
11	Sunder Kumar	Sant Lal	Vill. Dhansu, District Hisar	HHB 299	Local	Failed		
12	Dariya Singh	Hari Ram	VPO. Dobhi, District Hisar	HHB 299	Local	Failed		
13	Bajrang	Prem Singh	VPO. Neoli Kalan, District Hisar	HHB 299	Local	3000	2800	7
14	Rajesh Kumar	Sunder Singh	VPO. Kaimry, District Hisar	HHB 299	Local	Failed		
15	Raghubir Singh	Rohtash	VPO. Pattan Tokas, District Hisar	HHB 299	Local	3500	3000	17
16	Sanjay Kumar	Gopi Ram	VPO. Pattan Tokas, District Hisar	HHB 299	Local	3200	2800	14
17	Mahender	Bhartha	VPO. Rajli, District Hisar	HHB 299	Local	Failed		
18	Bhagwan Das	Chunni Ram	VPO. Dhand, Tehsil and District Fatel	HHB 299	Local	2600	2150	21
19	Rajbir Singh	Om Prakash	VPO. Dayiyad, Tehsil Bhattu and Distr	HHB 299	Local	3800	3200	19
20	Ranbeer Singh	Sultan Singh	VPO. Banawala, Tehsil Kalanwali and	HHB 299	Local	Failed		

Table VI.4: Results of FLD's conducted by CCS HAU, Hisar during *Kharif* 2025

Type of Demonstration: Improved Practices (Varietal trial: Biofortified hybrid HHB 299) v/s Farmer's Practices

S. No.	Name of Farmer	Fathers/ Husband Name	Address	Vaiety/ Hybrids	Test Variety	Grain Yield (kg/ha)		% improvement in Grain yield
						IP	FP	
21	Mansavroop	Sultan Singh	VPO. Banawala, Tehsil Kalanwali and	HHB 299	Local	3000	2600	15
22	Rohtash Kumar	Mansavroop	VPO. Banawala, Tehsil Kalanwali and	HHB 299	Local	2700	2300	17
23	Sanjay Kumar	Atma Ram	VPO. Banawala, Tehsil Kalanwali and	HHB 299	Local	2900	2250	29
24	Shivam Hans	Surender Hans	Ward 4, Bhawani Khera, Distt. Bhiwar	HHB 299	Local	Failed		
25	Munsi Ram	Suraj Bhan	Vill. Dhakora, District Jhajjar	HHB 299	Local	2700	2500	8
26	Rakesh	Suraj Bhan	Vill. Dhakora, District Jhajjar	HHB 299	Local	Failed		
27	Rakesh Yadav	Raj Singh	Vill Khijuri, PO. Dungarwaas, District F	HHB 299	Local	3000	2500	20
28	Inder Pal	Raj Singh	Vill Khijuri, PO. Dungarwaas, District F	HHB 299	Local	3500	2600	35
29	Maha Singh	Banwari Lal	Vill. Brahamanvaas, Teh. and Distt. R	HHB 299	Local	2500	2200	14
30	Ramesh	Balu ram	Vill. Madina, District Rohtak	HHB 299	Local	Failed		
31	Kulveer	Vedpal	Vill. Sundana, District Rohtak	HHB 299	Local	Failed		
32	Bansi Lal	Bhagat singh	Vill. Chiri, District Rohtak	HHB 299	Local	1600	1300	23
33	Rajesh	Hai Kishan	Vill. Chiri, District Rohtak	HHB 299	Local	1150	900	28
34	Ashok	Jage Ram	Vill. Gudhan, District Rohtak	HHB 299	Local	Failed		
35	Lalit	Jeet Pal	Vill. Gudhan, District Rohtak	HHB 299	Local	2050	2800	-27
36	Sandeep Kumar	Sukhbir	Vill. Khairdi, District Rohtak	HHB 299	Local	2850	2600	10
37	Harkesh	Jagdish	Vill. Khairdi, District Rohtak	HHB 299	Local	3100	2700	15
38	Joginder	Mam Chand	Vill. Banyani, District Rohtak	HHB 299	Local	Failed		
39	Sonu	Om Parkash	Vill. Banyani, District Rohtak	HHB 299	Local	2600	2200	18
					Total	**70350**	**59652**	
					Mean	**2606**	**2209**	**19**

Type of FLD: Farmer's Practices (FP) v/s Improved Practices (IP)

T_1:Farmers' Practices : Use of Pvt. Hybrid, Suboptimal use of N (40-60 kg/ha) only + 1 HW, negligible or no use of P, ZnSO4 fertilizers,biomix biofertilizer and herbicide Atrazine.

T_2: Improved Practices: Use of improved hybrid HHB 299, Recommended dose of Nitrogen & Phosphorus along with Zn, biomix and herbicide Atrazine +1 HW).

Table VI.5: Result of FLD's conducted by Junagadh Agricultural University, Jamnagar - *Summer* 2025

Type of Demonstration: Varietal Trial: Biofortified hybrid GHB 1231

S. No.	Name of Beneficiary	Location	Vaiety/Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
1	Ranchhod Lavjibhai Gajera	Pipartoda	GHB 1231	Local	3775	3450	9.4	6945	6250
2	Rajubhai Malabhai Dagra	Rafudad Nani	GHB 1231	Local	4425	3875	14.2	7450	6390
3	Dhirajlal Kanajibhai Akabari	Haripar	GHB 1231	Local	4660	4035	15.5	7340	6785
4	Bhagvanjibhai Narshibhai Nakum	Aamra	GHB 1231	Local	3900	3640	7.1	6780	5820
5	Jamanbhai Narshibhai Nakum	Aamra	GHB 1231	Local	3750	3450	8.7	7140	6650
6	Rajendra Tarashibhai Nakum	Aamra	GHB 1231	Local	5475	4675	17.1	7950	6450
7	Chhagan Bechar Dharviya	Khimrana	GHB 1231	Local	3950	3625	9.0	7300	6770
8	Mohanbhai Becharbhai Dharviya	Khimrana	GHB 1231	Local	4230	3850	9.9	7450	6600
9	Chandulal Narshibhai Nesadiya	Lalpur	GHB 1231	Local	4780	4340	10.1	7530	6635
10	Rameshbhai Devrajbhai Bariya	Lalpur	GHB 1231	Local	5420	4780	13.4	7690	6850
11	Rakesh Rameshchandra Bariya	Pipar navi	GHB 1231	Local	5125	4850	5.7	7550	7025
12	Umedkumar Laljibhai Amrutiya	Lalpur	GHB 1231	Local	3925	3425	14.6	7140	6345
13	Bharat Ishwarbhai Dharviya	Bed	GHB 1231	Local	4250	3575	18.9	7550	6655
14	Govindbhai Ishwarbhai Dharviya	Bed	GHB 1231	Local	4175	3890	7.3	7300	6550
15	Kantilal Ishwarbhai Dharviya	Bed	GHB 1231	Local	3750	3350	11.9	7090	6670
16	Yash Dilipbhai Sanghani	Theba	GHB 1231	Local	3650	3380	8.0	7230	6575
17	Ashokbhai Popatbhai Sanghani	Jamnagar	GHB 1231	Local	3475	3250	6.9	6780	5980
18	Sanjaybhai Hansrajbhai Dudhagra	Moti Bhalsan	GHB 1231	Local	3540	3145	12.6	6950	6540
19	Sardaben Sanjaybhai Dudhagra	Moti Bhalsan	GHB 1231	Local	3650	3235	12.8	7120	6450
20	Chandulal Ramji Kuber	Vav Beraja	GHB 1231	Local	4475	4255	5.2	7250	6570
21	Govubha Takhubha Gohil	Mithoe	GHB 1231	Local	4980	4675	6.5	7525	6650
22	Varvabhai Bhikhabhai Nandaniya	Rasangpar	GHB 1231	Local	4675	4320	8.2	7435	6930
23	Ramsang Jorubha Jadeja	Nana Lakhiya	GHB 1231	Local	3950	3670	7.6	7250	6720
24	Rajendrasinh Balvantsinh Jadeja	Nana Lakhiya	GHB 1231	Local	4450	3950	12.7	7380	6750
25	Khimabhai Arasibhai Vavnotia	Jashapar	GHB 1231	Local	5280	4775	10.6	7825	6500
26	Devashibhai Ramabhai Barai	Jashapar	GHB 1231	Local	4150	3895	6.5	6950	6550

Table VI.5: Result of FLD's conducted by Junagadh Agricultural University, Jamnagar - *Summer* 2025

Type of Demonstration: Varietal Trial: Biofortified hybrid GHB 1231

S. No.	Name of Beneficiary	Location	Vaiety/Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
27	Somatbhai Samatbhai Gagiya	Modpar	GHB 1231	Local	5170	4650	11.2	7780	6470
28	Bhimasi Samat Gagiya	Modpar	GHB 1231	Local	3550	3190	11.3	6725	5795
29	Abbasbhai Mamadbhai Khafi	Nagda	GHB 1231	Local	3675	3280	12.0	6700	5890
30	Abu Nurmamad Khafi	Kanchanpur	GHB 1231	Local	3645	3350	8.8	6950	6550
31	Jumabhai Jusabbhai Khafi	Kanchanpur	GHB 1231	Local	3850	3425	12.4	7140	6750
32	Ranabhai Vakabhai Gojiya	Rangpar	GHB 1231	Local	4625	4370	5.8	7425	6700
33	Ranjit Dhirubha Chudasama	Timbadi	GHB 1231	Local	4200	3875	8.4	7420	6550
34	Virabhai Murubhai Kanara	Modpar	GHB 1231	Local	4350	4260	2.1	7350	6935
35	Rambhai Murubhai Kanara	Modpar	GHB 1231	Local	4260	4150	2.7	7525	7145
36	Dhanabhai Murubhai Kanara	Modpar	GHB 1231	Local	4350	4180	4.1	7050	6800
37	Baldevbhai Somatbhai Nandaniya	Mota Mandha	GHB 1231	Local	5075	4475	13.4	7560	6580
38	Nimuba Dhirubha Gohil	Mota mandha	GHB 1231	Local	4080	3675	11.0	7050	6450
39	Dipika Jaydevbhai Nariya	Pasaya	GHB 1231	Local	4150	3800	9.2	7120	6570
40	Valabhai Naranbhai Gadhavi	Kajurda	GHB 1231	Local	3875	3760	3.1	7030	6450
41	Khodabhai Hajabhai Bharvad	Kanchanpur	GHB 1231	Local	3950	3525	12.1	7150	6635
42	Karabhai Govabhai Nandaniya	Modpar	GHB 1231	Local	4065	3875	4.9	7090	6720
43	Aalabhai Meramanbhai Gagiya	Modpar	GHB 1231	Local	4570	4250	7.5	7425	6750
44	Karsanbhai Nathubhai Gagiya	Modpar	GHB 1231	Local	4895	4590	6.6	7680	7045
45	Karsanbhai Devanandbhai Gagiya	Modpar	GHB 1231	Local	4450	4275	4.1	7450	6820
46	Mobatsang Amarsang Jadeja	Charbara	GHB 1231	Local	4020	3560	12.9	7225	6650
47	Gordhanbhai Ramajibhai Parmar	Singach	GHB 1231	Local	3815	3250	17.4	6950	5840
48	Khetabhai Savajibhai Parmar	Singach	GHB 1231	Local	4125	3950	4.4	7050	6475
49	Devaji Savaji Parmar	Singach	GHB 1231	Local	4385	4025	8.9	7405	6700
50	Rameshbhai Hemrajbhai Sudani	Konza	GHB 1231	Local	4175	3575	16.8	6840	5980
				Total	**213170**	**194675**		**362990**	**327910**
				Mean	**4263**	**3894**	**9.5**	**7260**	**6558**

Table VI.6: Result of FLD's conducted by Junagadh Agricultural University, Jamnagar - *Kharif* 2025

Type of Demonstration: Varietal Trial: Biofortified hybrid GHB 1231

S. No.	Name of Beneficiary	Location		Vaiety/Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
		Village	Taluka			IP	FP		IP	FP
1	Arvindbhai Mohanbhai Sanchaniya	Madhupur	Khambhaliya	GHB 1231	Local	2750	2530	8.7	7550	6850
2	Hemantbhai Bhikhabhai Ram	Madhupur	Khambhaliya	GHB 1231	Local	2620	2450	6.9	7210	6550
3	Rajanikant Velajibhai Nagariya	Mota Aambla	Khambhaliya	GHB 1231	Local	2970	2580	15.1	7800	7200
4	Bhupendra Velajibhai Shah	Mota Aambla	Khambhaliya	GHB 1231	Local	3050	2850	7.0	8050	7180
5	Shantilal Bhagvanjibhai Shah	Mota Aambla	Khambhaliya	GHB 1231	Local	2850	2500	14.0	7150	6580
6	Raghubhai Valabhai Mangha	Parodiya	Khambhaliya	GHB 1231	Local	2630	2480	6.0	6880	6520
7	Khimabhai Keshavbhai Masura	Pipaliya	Khambhaliya	GHB 1231	Local	3040	2730	11.4	7850	7120
8	Vejanandbhai Ranmalbhai Jam	Pipaliya	Khambhaliya	GHB 1231	Local	2780	2570	8.2	6950	6450
9	Jivanbhai Bhikhabhai Asvar	Pipaliya	Khambhaliya	GHB 1231	Local	2650	2400	10.4	6800	6380
10	Murubhai Bhikhabhai Asvar	Pipaliya	Khambhaliya	GHB 1231	Local	2860	2610	9.6	7350	6840
11	Khimabhai Bhojabhai Jam	Pipaliya	Khambhaliya	GHB 1231	Local	2940	2750	6.9	7880	6950
12	Ranabhai Jethabhai Asvar	Pipaliya	Khambhaliya	GHB 1231	Local	3020	2840	6.3	8100	7220
13	Khimayben Khimabhai Masura	Pipaliya	Khambhaliya	GHB 1231	Local	2720	2600	4.6	7650	6720
14	Tarubhai Rameshbhai Rangani	Majoth	Dhrol	GHB 1231	Local	3250	2920	11.3	8340	7450
15	Kamaiben Vejanandbhai Dosani	Dhinchada	Jamnagar Gramya	GHB 1231	Local	2850	2640	8.0	7400	6950
16	Rameshchandra Mohanlal Gudhka	Gagva	Jamnagar Gramya	GHB 1231	Local	3050	2780	9.7	7750	7120
17	Mansukhbhai Devashibhai Malde	Lakha Baval	Jamnagar Gramya	GHB 1231	Local	3080	2850	8.1	8150	7240
18	Mansukhbhai Maganbhai Dharevadiya	Shekhpat	Jamnagar Gramya	GHB 1231	Local	2950	2640	11.7	7980	7050
19	Navin Nemanchad Malde	Modpur	Lalpur	GHB 1231	Local	2800	2600	7.7	7400	6740
20	Sabirbhai Hussenbhai Sumara	Padavala	Upleta	GHB 1231	Local	2500	2250	11.1	7720	6980
21	Bhavnaba Sajansinh Zala	Liyad	Limbadi	GHB 1231	Local	2820	2540	11.0	7780	7120
22	Jayendrasinh Chandubha Zala	Liyad	Limbadi	GHB 1231	Local	2640	2480	6.5	7150	6740
23	Mahendrasinh Chandubha Zala	Liyad	Limbadi	GHB 1231	Local	2940	2650	10.9	7950	7210
24	Dilipsin h Chandubha Zala	Liyad	Limbadi	GHB 1231	Local	2720	2540	7.1	7270	6550
25	Sajansinh Chandubha Zala	Liyad	Limbadi	GHB 1231	Local	2680	2510	6.8	7050	6420
					Total	**71160**	**65290**		**189160**	**172130**
					Mean	**2846**	**2612**	**9.0**	**7566**	**6885**

Table VI.7: Result of FLD's conducted by AICRP on Pearl Millet, ARS, ANGRAU, Ananthapuramu *Kharif* 2025

Type of Demonstration: Improved Practices (Varietal trial: Biofortified variety ABV-04) v/s Farmer's Practices

S. No.	Name of Beneficiary	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
1	O. Lakshmi Devi	Ananthapuramu	ABV-04	Farm saved Seed	1590	1282	24.0	2995	2338
2	B. Lakshmi Devi	Ananthapuramu	ABV-04	Farm saved Seed	1320	1053	25.4	2332	1937
3	O. Yellamma	Ananthapuramu	ABV-04	Farm saved Seed	1114	911	22.3	2243	2005
4	O. Srinivasulu	Ananthapuramu	ABV-04	Farm saved Seed	1419	1134	25.1	2444	2007
5	M. Nagendra	Ananthapuramu	ABV-04	Farm saved Seed	1724	1519	13.5	3090	2945
6	O. Paramesh	Ananthapuramu	ABV-04	Farm saved Seed	1205	1021	18.0	2362	2126
7	R. Peddanagamma	Ananthapuramu	ABV-04	Farm saved Seed	1782	1525	16.9	2945	2712
8	A. Sreeram	Ananthapuramu	ABV-04	Farm saved Seed	1443	1235	16.8	2480	2126
9	G. Nagendra Prasad	Ananthapuramu	ABV-04	Farm saved Seed	1464	1183	23.8	2480	2244
10	J. Narayanamma	Ananthapuramu	ABV-04	Farm saved Seed	1539	1228	25.3	2717	2362
11	V. Rangamma	Ananthapuramu	ABV-04	Farm saved Seed	1347	1185	13.7	2361	2124
12	V. Amaranath Babu	Ananthapuramu	ABV-04	Farm saved Seed	1387	1203	15.3	2834	2480
13	P. Narayana	Ananthapuramu	ABV-04	Farm saved Seed	1523	1405	8.4	2580	2356
14	G. Sanjamma	Ananthapuramu	ABV-04	Farm saved Seed	1190	985	20.8	2805	2690
15	B. Pedda Akka	Ananthapuramu	ABV-04	Farm saved Seed	980	850	15.3	2520	2250
16	P. Kadirimma	Ananthapuramu	ABV-04	Farm saved Seed	1210	1026	17.9	2865	2600
17	D. Lakshmi Devi	Ananthapuramu	ABV-04	Farm saved Seed	1095	943	16.1	2675	2460
18	B. Maruthi	Ananthapuramu	ABV-04	Farm saved Seed	890	787	13.1	2470	2195
19	A. Pedda Akka	Ananthapuramu	ABV-04	Farm saved Seed	1090	930	17.2	2805	2690
20	V. Venkataramana	Ananthapuramu	ABV-04	Farm saved Seed	1367	1142	19.7	2244	1890
				Total	**26679**	**22547**		**52247**	**46537**
				Mean	**1334**	**1127**	**18.3**	**2612**	**2327**

Improved practices: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.8: Result of FLD's conducted by PAU, Ludhiana (Punjab) *Kharif* 2025

Technology Demonstration: Improved practices (Hybrid PCB 167) v/s Farmer's Practice Trials

S. No.	Name of the Beneficiary	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
1	Om Parkash	Rajanwali, Fazilka	PCB 167	Private hybrid	4300	3000	43.3	7000	7100
2	Sanjiv Kumar	Rajanwali, Fazilka	PCB 167	Private hybrid	4200	2850	47.4	7150	7200
3	Mahavir Singh	Gumjal, Fazilka	PCB 167	Private hybrid	3950	3050	29.5	7150	7000
4	Abhinav Setia	Bakainwala, Fazilka	PCB 167	Private hybrid	4050	3100	30.6	7000	6840
5	Kavita Devi	Gumjal, Fazilka	PCB 167	Private hybrid	4250	3350	26.9	7300	7200
6	Ram Singh	Gumjal, Fazilka	PCB 167	Private hybrid	3800	3100	22.6	7150	7000
7	Parvinder Kumar	Jhottian Wali, Fazilka	PCB 167	Private hybrid	3950	3370	17.2	7450	7240
8	Gurdas Singh	Bhav Wala, Fazilka	PCB 167	Private hybrid	4000	3050	31.1	7000	6700
9	Parkash Singh	Bhaw Wala, Fazilka	PCB 167	Private hybrid	3800	3550	7.0	7130	7050
10	Kashmir Chand	Jhottianwali, Fazilka	PCB 167	Private hybrid	4100	3270	25.4	7670	7300
11	Swaran Singh	Bhawalbassi, Fazilka	PCB 167	Private hybrid	3550	3100	14.5	7500	7250
12	Bachan Singh	Seed Farm Kacha, Abohar	PCB 167	Private hybrid	3750	3200	17.2	7100	7050
13	Pala Singh	Bakain Wala, Fazilka	PCB 167	Private hybrid	3900	2650	47.2	7040	6800
14	Gurmeet Singh	Seed Farm, Abohar	PCB 167	Private hybrid	3750	3130	19.8	7350	7100
15	Jaspal Singh	Seed Farm, Abohar	PCB 167	Private hybrid	3950	2700	46.3	7600	7400
16	Gurdev Singh	Dhani Kraka, Abohar	PCB 167	Private hybrid	3800	2750	38.2	7530	7200
17	Varinder Singh	Seed Farm Pakka, Abohar	PCB 167	Private hybrid	4100	2850	43.9	7400	7180
18	Rajinder Singh	Seed Farm Pakka, Abohar	PCB 167	Private hybrid	4050	2700	50.0	7100	7050
19	Sukhdev Singh	Abohar	PCB 167	Private hybrid	3850	2600	48.1	7630	7400
20	Gurpreet Singh	Abohar	PCB 167	Private hybrid	3600	2450	46.9	7400	7170
				Total	**78700**	**59820**		**145650**	**142230**
				Mean	**3935**	**2991**	**31.6**	**7283**	**7112**

Improved practices: Use of Improved hybrids, Seed treatmet, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.9: Result of FLD's conducted by B.R.S., College of Agriculture, Dhule (Maharashtra) - *Kharif* 2025

Technology Demonstration: Full package of practices V/s Farmers practice

S. No.	Name & Address of the Beneficiary	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
				IP	FP		IP	FP
1	Shri. Jahagirdar Yashwant Pardhi, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	2232	1965	13.6	3919	3474
2	Sau. Ratnabaai Lotan Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1556	1352	15.1	2732	2390
3	Shri. Chandrakant Madhavrav Patil, At. Post. Nawra, Tal. Dist-Dhule	Aadishakti	Local	1360	1215	11.9	2388	2148
4	Sau. Mirabaai Ramesh Patil, At. Post. Satarane, Tal. Dist-Dhule	Aadishakti	Local	2102	1850	13.6	3691	3271
5	Shri. Sanjay Nanaji Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	2215	1956	13.2	3890	3458
6	Shri. Ravsaheb Chintaman Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	2160	1923	12.3	3793	3400
7	Shri. Piran Natthu Pinjari, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1325	1196	10.8	2327	2115
8	Sau. Hirakanbaai Dilip Patil, At. Post. Satarane, Tal. Dist-Dhule	Aadishakti	Local	1225	1095	11.9	2151	1936
9	Sau.Sindhubaai Gulab Patil, At. Post. Satarane, Tal. Dist-Dhule	Aadishakti	Local	1356	1257	7.9	2381	2222
10	Sau. Shoba Sukalal Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1420	1321	7.5	2494	2336
11	Shri. Dhanaraj Gopichand Pardhi, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1689	1524	10.8	2966	2694
12	Shri. Nimba Natthu Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1552	1451	7.0	2725	2565
13	Shri. Ashok Gulab Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1456	1325	9.9	2557	2343
14	Shri. Sopan Subhash Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1856	1695	9.5	3259	2997
15	Shri. Dilip Bhatu Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1580	1398	13.0	2774	2472
16	Shri. Umarav Vikram Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1389	1220	13.9	2439	2157
17	Shri. Chindhu Dhudaku Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	2280	2078	9.7	4004	3674
18	Sau. Nilimabai Himmatrav Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1564	1410	10.9	2746	2493
19	Shri. Ravsaheb Damu Patil, At. Post. Vishwanath, Tal. Dist-Dhule	Aadishakti	Local	1555	1420	9.5	2731	2511
20	Shri. Pravin Lotan Patil, At. Post. Nawra, Tal. Dist-Dhule	Aadishakti	Local	1356	1225	10.7	2381	2166
21	Shri. Uttam Sayaji Patil, At. Post- Vaghode, Ta- Shindhkheda, Dist- Dhule	Aadishakti	Local	2112	1954	8.1	3709	3455
22	Shri. Bahadur Chintaman Borase, At-, Post- Aichale, Ta.Sakri Dist- Dhule	Aadishakti	Local	1369	1254	9.2	2404	2217
23	Shri. Suresh Bhimarav Desale, At. Post- Deur Kh., Ta- Sakri, Dist- Dhule	Aadishakti	Local	1451	1321	9.8	2548	2336
24	Shri. Satish Vasant Desale, At. Post- Deur Kh., Ta- Sakri, Dist- Dhule	Aadishakti	Local	1521	1410	7.9	2671	2493
25	Shri. Vasant Rupala Deasale, At. Post- Deur Kh., Ta- Sakri, Dist- Dhule	Aadishakti	Local	2232	2024	10.3	3919	3578
26	Shri. Nimba Aananda shinde, At. Post- Deur Bk., Ta- Sakri, Dist- Dhule	Aadishakti	Local	1689	1458	15.8	2966	2578
27	Shri. Rohidas Pundalik Devare, At.- Post- Mhasadi, Ta- Sakri, Dist- Dhule	Aadishakti	Local	1568	1356	15.6	2753	2397
28	Shri. Ravindra Nanasaheb Devare, At.- Post- Mhasadi, Ta- Sakri, Dist- Dhule	Aadishakti	Local	1682	1545	8.9	2954	2732

Table VI.9: Result of FLD's conducted by B.R.S., College of Agriculture, Dhule (Maharashtra) - *Kharif* 2025

Technology Demonstration: Full package of practices V/s Farmers practice

S. No.	Name & Address of the Beneficiary	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
				IP	FP		IP	FP
29	Shri. Madhusudan Ambadas Deshmukh, At- Post- Morane, Ta- Dist- Dhule	Aadishakti	Local	2081	1928	7.9	3654	3409
30	Sau. Swati Sanjay Deshmukh, At- Post- Morane, Ta- Dist- Dhule	Aadishakti	Local	1995	1812	10.1	3503	3204
31	Shri. Gulab Aamasha Padavi, At-, Post- Tembhurni, Ta. Dhadagaon, Dist- Nandurbar	Aadishakti	Local	1565	1389	12.7	2748	2456
32	Shri. Subhash Bharat Pawara, At-, Post- Kharadi Bk., Ta. Dhadagaon, Dist- Nandurbar	Aadishakti	Local	2165	2012	7.6	3802	3557
33	Shri. Jelama Aarashya Pawara, At-, Post- Kharadi Bk., Ta. Dhadagaon, Dist- Nandurbar	Aadishakti	Local	1569	1455	7.8	2755	2572
34	Shri. Shankar Babalya Valavi, At. Post- Kalibel, Ta. Dhadgaon, Dist- Nandurbar	Aadishakti	Local	1456	1315	10.7	2557	2325
35	Sau. Rita Butya Tadavi, At- Post- Mandamund, Ta- Dhadgaon, Dist- Nandurbar	Aadishakti	Local	1368	1261	8.5	2402	2229
36	Shri. Jahangir Gopya Tadavi, At/Post Tembhala Tal. Dhadgaon, Dist. Nandurbar	Aadishakti	Local	1658	1485	11.6	2911	2625
37	Shri. Dipak Ramaji Vasave, At/Post Mokh khurd, Tal. Dhadgaon, Dist. Nandurbar	Aadishakti	Local	2319	2134	8.7	4072	3773
38	Shri. Chandrasing Bava Vasave, At/Post Mokh khurd, Tal. Dhadgaon, Dist. Nandurbar	Aadishakti	Local	1691	1570	7.7	2969	2776
39	Shri. Sonya Vesata Valavi, At/Post. Gadwani, Tal. Akkalkuva, Dist. Nandurbar	Aadishakti	Local	2198	2059	6.8	3860	3640
40	Shri. Iarama Handya Tadavi, At/Post. Gadwani, Tal. Akkalkuva, Dist. Nandurbar	Aadishakti	Local	1567	1415	10.7	2752	2502
41	Sau. Shital Bahusaheb Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1632	1510	8.1	2866	2670
42	Sau. Vatsalabaai Chaitram Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1824	1669	9.3	3203	2951
43	Shri. Sanjay Nana Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1356	1241	9.3	2381	2194
44	Shri. Nana Chudaman Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1549	1397	10.9	2720	2470
45	Shri. Satish Dhanaraj Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1810	1657	9.2	3178	2930
46	Sau. Sunita Dipak Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon.	Aadishakti	Local	1442	1320	9.2	2532	2334
47	Sau. Surekha Nagaraj Patil, At/Post. Malashewage, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1267	1148	10.4	2225	2030
48	Shri. Balasaheb Uttam Patil, At/Post. Tamagavhan, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1678	1523	10.2	2947	2693
49	Sau. Sharada Bhausaheb Patil, At/Post. Tamagavhan, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	1955	1798	8.7	3433	3179
50	Shri. Pandurang Himmat Patil, At/Post. Bangaon, Tal. Chalisgaon, Dist. Jalgaon	Aadishakti	Local	2011	1857	8.3	3531	3283
			Total	**85008**	**77153**		**149273**	**136410**
			Mean	**1700**	**1543**	**10.2**	**2985**	**2728**

Full POP: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.10: Result of FLD's conducted by RARS (UAS) Vijayapur - *Kharif* 2025

S. No.	Name & Address of Beneficiary	Area (ha)	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)		Gross Returns (Rs./ha)*	
			IP	FP		IP	FP	IP	FP
Type of Demonstration: Improved Practices (Varietal trial: Biofortified hybrid VPMH 14) v/s Farmer's Practices									
1	Shri. Praveen Shivaji Jadhav Tq: Indi, Dist: Vijayapur	1.0	2345	2075	13.0	5304	4982	53935	47725
2	Shri. Vidya Jadhav, At/Po: Deginal Tq: Indi, Dist: Vijayapur	1.0	1180	973	21.3	3987	3542	27140	22379
3	Shri. Gouspeer Walikar At/Po: Hittinhalli, Dist: Vijayapur	1.0	1975	1534	28.7	4532	4183	45425	35282
4	Shri. Vittal Toorath At/Po: Jumnal Hobli: Vijayapur Tq: Vijayapur, Dist: Vijayapur	1.0	2650	2123	24.8	5281	5098	60950	48829
5	Shri. Namdev Shivaji Chavan At/Po: Deginal Hobli: Ballolli, Tq: Indi, Dist: Vijayapur	1.0	1745	1515	15.2	4872	4219	40135	34845
6	Shri. Rafiq Husainsab Walikar At/Po: Hittinhalli Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	2480	1960	26.5	5439	5102	57040	45080
7	Shri. Shankar Toravat At/Po: Jumnal Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	2195	1751	25.4	5247	4827	50485	40273
8	Shri. Kandaray Kapse At/Po: Jumnal Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	1165	1016	14.7	3539	3249	26795	23368
9	Shri. Narayan Jadhav At/Po: Deginal Hobli: Ballolli, Tq: Indi, Dist: Vijayapur	1.0	2870	2395	19.8	5752	5329	66010	55085

10	Shri. Geeta Chavan At/Po: Deginal Hobli: Ballolli, Tq: Indi, Dist: Vijayapur	1.0	2175	1947	11.7	4928	4672	50025	44781
11	Smt. Sumitra Patil At/Po: Honnutagi Hobli: Honnutagi, Tq: Vijayapur, Dist: Vijayapur	1.0	2245	1873	19.9	5439	5018	51635	43079
12	Shri. Madiwalappa Bilagi At/Po: Honnutagi Hobli: Honnutagi, Tq: Vijayapur, Dist: Vijayapur	1.0	1985	1651	20.2	4635	4412	45655	37973
13	Smt. Ratnsbsyi Biradar At/Po: Hittinhalli Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	3190	2975	7.2	5848	5523	73370	68425
14	Shri. Prakash B. Gani At/Po: Hegadihal Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	1298	1025	26.6	4629	4287	29854	23575
15	Shri. Shankreppa U Hadapad At/Po: Hegadihal Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	2887	2542	13.6	5549	5093	66401	58466
16	Smt. Bhimasi N Agasar At/Po: Honnutagi Hobli: Honnutagi, Tq: Vijayapur, Dist: Vijayapur	1.0	950	735	29.3	3984	3438	21850	16905
17	Shri. Sadashivagouda B. Patil At/Po: Kavalagi Hobli: Vijayapur, Tq: Vijayapur, Dist: Vijayapur	1.0	2870	2163	32.7	5932	5381	66010	49749
18	Shri. Rajashekhar R Mannur At/Po: Devur Hobli: Devar Hippargi, Dist: Vijayapur	1.0	1587	1329	19.4	4528	4129	36501	30567
19	Smt. Devakkemma Madar At/Po: Davalagi Hobli: Davalagi, Tq: Muddebihal, Dist: Vijayapur	1.0	2091	1695	23.4	4892	4320	48093	38985
20	Shri. Shashidhar Indi At/Po: Hittinhalli Tq: Vijayapur, Dist: Vijayapur	1.0	2795	2471	13.1	5564	5014	64285	56833
	Total	**20.0**	**42678**	**35748**		**99881**	**91818**	**981594**	**822204**
	Mean		**2134**	**1787**	**19.4**	**4994**	**4591**	**49080**	**41110**

IP = Improved Practice FP=Farmer's Practice *Gross returns includes income of only grain yields Market Prices: Grain: Pear millet @ Rs. 23.00/kg

Table VI.11: Result of FLD's conducted by A.R.S., Vizianagaram, Andhra Pradesh - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid ABV 04) v/s Farmer's Practice Trials

S. No.	Name & Address of the Beneficiary	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
				IP	FP		IP	FP
1	Ch.Chinnamma, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2450	2184	12.2	8191.6	7552
2	Ch. Jagannadham, Kondagangupudi, Vizianagaram	ABV 04	Pittaganti	2350	2036	15.4	7891.6	7108
3	M. Jaggamma, Kondagangupudi, Vizianagaram	ABV 04	Pittaganti	2300	2105	9.3	7741.6	7315
4	R. Demudamma, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2225	1996	11.5	7516.6	6988
5	Ch. Pydithalli, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2375	2080	14.2	7966.6	7240
6	Ch.Mallunaidu, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2175	2065	5.3	7366.6	7195
7	Ch.Naramnaidu, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2400	2102	14.2	8041.6	7306
8	Ch. Simmanna, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2375	2118	12.1	7966.6	7354
9	Ch. Satyam, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2450	2156	13.6	8191.6	7468
10	A. Satyavathi, Kondagangupudi, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2400	2155	11.4	8041.6	7465
11	R. Atchiyyamma, Chattivanipalem, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2200	1985	10.8	7441.6	6955
12	K. Simhachalam, Chattivanipalem, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2275	1976	15.1	7666.6	6928
13	K. Bangarayya, Chattivanipalem, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2325	2065	12.6	7816.6	7195
14	J. Pydithalli, Chattivanipalem, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2375	2058	15.4	7966.6	7174
15	B. Demudu, Chattivanipalem, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2400	2106	14.0	8041.6	7318
16	B. Narayanamma, SKSR Puram, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2225	1985	12.1	7516.6	6955
17	M. Neelakanta, SKSR Puram, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2250	1989	13.1	7591.6	6967
18	M. Pydamma, SKSR Puram, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2300	2015	14.1	7741.6	7045
19	G. Jagannadham, Paturu, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2275	2076	9.6	7666.6	7228
20	G. Ravanna, Paturu, Vepada mandal, Vizianagaram	ABV 04	Pittaganti	2325	2125	9.4	7816.6	7375
21	Kondagorru Prasad, Mettavalasa, Saluru mandal, Vizianagaram	ABV 05	Pittaganti	2400	2075	15.7	8041.6	7225
22	Seedharapu Latchanna, Mettavalasa, Saluru mandal, Vizianagaram	ABV 06	Pittaganti	2375	2086	13.9	7966.6	7258
23	Kondgarru Ramu, Mettavalasa, Saluru mandal, Vizianagaram	ABV 07	Pittaganti	2350	2048	14.7	7891.6	7144
24	Muvvala Laxmana, Mettavalasa, Saluru mandal, Vizianagaram	ABV 08	Pittaganti	2300	2075	10.8	7741.6	7225
25	Kondagorru Nilamma, Mettavalasa, Saluru mandal, Vizianagaram	ABV 09	Pittaganti	2350	2065	13.8	7891.6	7195
26	Kuneti Kamayya, Mettavalasa, Saluru mandal, Vizianagaram	ABV 04	Pittaganti	2375	2102	13.0	7966.6	7306
27	Thothadi Ramakrishna, Gangannadoravalasa, Vizianagaram	ABV 04	Pittaganti	2400	2095	14.6	8041.6	7285
28	Janni Gopala Rao, Gangannadoravalasa, Vizianagaram	ABV 04	Pittaganti	2425	2108	15.0	8116.6	7324
29	Janni Simhachalam, Gangannadoravalasa, Vizianagaram	ABV 04	Pittaganti	2450	2102	16.6	8191.6	7306
30	Yeragada Potamdora, Gangannadoravalasa, Vizianagaram	ABV 04	Pittaganti	2325	2150	8.1	7816.6	7450
			Total	**70200**	**62283**		**235848**	**216849**
			Mean	**2340**	**2076**	**12.7**	**7862**	**7228**

Improved practices: Use of Improved hybrids, Seed treatment, Use of Seed drill, line sowing, recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.12: Result of FLD's conducted by AICRP-PM, NARP, Aurangabad - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid AHB 1200) v/s Farmer's Practices Trials

S. No.	Name & Address of the Beneficiary		Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
Technology Demonstration:Improved practices (IP) v/s Farmer's Practices (FP)									
1	Ankush Sahebrao Vidhate	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1915	1684	13.7	4445	3933
2	Kavita Devidas Divekar	Raghunathpurwadi, Ch.Sambhajinagar	AHB 1200	MP 7333	1838	1653	11.2	4134	3681
3	Sahebrao Mohanrao Autade	Bhaygaon, Tq Vaijapur Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1750	1466	19.4	4049	3387
4	Babasaheb Eknath Shinde	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2105	1779	18.3	5116	4315
5	Santosh Chagan Bhise	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2216	1841	20.4	5157	4275
6	Dattu Chaburao Bhise	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1674	1398	19.7	4064	3247
7	Dinesh Dattu Bhise	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2376	2048	16.0	5742	4916
8	Arjun Rambhau Shinde	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1430	1282	11.5	3890	3350
9	Raghav Arjun Shinde	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2081	1853	12.3	5029	4284
10	Deepak Uttam Bhise	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2930	2009	45.8	6079	4058
11	Bhalchandra Ratan Jadhav	Bhaygaon Tq VaijapurDist Ch.Sambhajinagar	AHB 1200	MP 7333	1897	1724	10.0	4675	4096
12	Walmik Ambadas Palke	Bhaygaon Tq VaijapurDist Ch.Sambhajinagar	AHB 1200	MP 7333	2043	1684	21.3	4822	3962
13	Bhanudas Bandu Nimse	Bhaygaon Tq VaijapurDist Ch.Sambhajinagar	AHB 1200	MP 7333	1485	1236	20.1	3491	2928
14	Vilas Ambadas Walke	Bhaygaon Tq VaijapurDist Ch.Sambhajinagar	AHB 1200	MP 7333	2487	2272	9.5	5584	5322
15	Sonyabapu Ratan Jadhav	Bhaygaon Tq VaijapurDist Ch.Sambhajinagar	AHB 1200	MP 7333	2138	1858	15.1	5170	4490
16	Rajendra Jagannath Sonvane	Sudamwadi Tq Vaijapur Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2680	2162	24.0	6394	5271
17	Sunita Bharat Gayakwad	Bhaygaon Tq VaijapurDist Ch.Sambhajinagar	AHB 1200	MP 7333	1963	1660	18.3	4533	3834
18	Babasaheb Dada Shinde	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2243	1854	21.0	5534	4365
19	Yuvraj Sahebrao Shinde	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1862	1604	16.1	4693	3876
20	Bhagwan Harishchandra Jadhav	Alapurvadi Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2279	1614	41.2	5104	3579
21	Ajinath Nana Gujar	Alapurvadi Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1459	1152	26.6	3584	2843
22	Sudam Tulasiram Havle	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2382	2108	13.0	5549	5187
23	Vikee Sudhir Shreesundar	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1784	1447	23.3	4353	3387
24	Arun Chaburao Bhise	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2293	1774	29.3	5441	4163
25	Sunil Uddhav Mule	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2258	1607	40.5	5414	3904
26	Vitthal Popatrao Ingale	Loni Bk. Tq Vaijapur	AHB 1200	MP 7333	2393	2083	14.9	5612	4978
27	Narayan Govindrao Kunde	Kharaj Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1972	1792	10.0	4736	4273

Table VI.12: Result of FLD's conducted by AICRP-PM, NARP, Aurangabad - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid AHB 1200) v/s Farmer's Practices Trials

S. No.	Name & Address of the Beneficiary		Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
28	Dnyaneshwar Krushnarao Sonvane	Kharaj Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2375	2101	13.0	5329	4849
29	Subhash Shrichand Chavan	Padali Tq Paithan Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1927	1616	19.2	4669	3926
30	Raju Sukhdev Shinde	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1806	1444	25.1	3992	3248
31	Ramesh Bhanudas Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2175	1908	14.0	5306	4623
32	Baburao Aabarao Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2310	2111	9.4	5561	4915
33	Karbhari Ganpat Shinde	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2101	1836	14.4	5063	4114
34	Nanasaheb Sambhaji Ghaywat	Chikatgaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2400	2221	8.1	5580	5055
35	Anna Sanjay Nikam	Chikatgaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1796	1628	10.3	4374	3604
36	Navnath Bhimsen Velajkar	Khandala Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2074	1938	7.0	4788	4300
37	Sonaji Shrimant Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1999	1694	18.0	4800	4095
38	Savlahari Tulshiram Havle	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1852	1641	12.9	4357	3918
39	Sudam Changdev Pawar	Khandala Tq Vaijapur	AHB 1200	MP 7333	2051	1834	11.8	4923	4372
40	Bhimrao Punjajai Thorat	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2525	2310	9.3	5611	5349
41	Gayabai Devidas Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2176	1896	14.8	5198	4517
42	Chandrabhan Suryabhan Gavli	Sindi Tq Vaijapur, Dist.Ch.Sambhajinagar	AHB 1200	MP 7333	2718	2200	23.5	6422	5299
43	Vaijnath Mansing Chavan	Padalitanda tq.Paithan, Dist.Ch.Sambhajinagar	AHB 1200	MP 7333	2001	1698	17.8	4560	3861
44	Raju Karim Shaha	Sindi Tq Vaijapur, Dist.Ch.Sambhajinagar	AHB 1200	MP 7333	2281	1892	20.6	5561	4392
45	Milind Prakash Pawar	Khandala Tq Vaijapur,Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1900	1642	15.7	4721	3904
46	Purushottam Ashok Shinde	Khandala Tq Vaijapur,Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1717	1652	3.9	4132	3606
47	Kadu Baburao Jagtap	Sindi Tq Vaijapur, Dist.Ch.Sambhajinagar	AHB 1200	MP 7333	1487	1190	25.0	3011	2481
48	Sanjay Tejrao Bhise	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2420	2146	12.8	5577	5214
49	Anita Rajendra Sonvane	Sudamwadi Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1822	1485	22.7	4381	3414
50	Fatemabi Abbas Shaha	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1758	1607	9.4	4014	3504
51	Vitthal Vaiginath Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2393	2083	14.9	5612	4978
52	Pandurang Mahadu Suryawanshi	Khandala Tq Vaijapur,Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1972	1792	10.0	4736	4273
53	Subhash Mahadu Suryawanshi	Khandala Tq Vaijapur,Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2375	2101	13.0	5329	4849
54	Laxman Kishan Yanne	Shirasgaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1927	1616	19.2	4669	3926
55	Deepak Narayan Shinde	Shirasgaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1806	1444	25.1	3992	3248

Table VI.12: Result of FLD's conducted by AICRP-PM, NARP, Aurangabad - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid AHB 1200) v/s Farmer's Practices Trials

S. No.	Name & Address of the Beneficiary		Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
56	Balu Nivrutti Game	Shirasgaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2175	1908	14.0	5306	4623
57	Hambu Pandurang Thorat	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2310	2111	9.4	5561	4915
58	Vaiginath Namdev Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2101	1836	14.4	5063	4114
59	Manoj Bansilal Jaiswal	Adgaon Tq Sambhajinagar	AHB 1200	MP 7333	2400	2221	8.1	5580	5055
60	Popat Tanhaji Sable	Sarak Tq Sambhajinagar	AHB 1200	MP 7333	1796	1628	10.3	4374	3604
61	Sangita Prabhakar Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2074	1938	7.0	4788	4300
62	Dastgir Khan Pathan	Khandala Tq Vaijapur,Dist Ch.Sambhajinagar	AHB 1200	MP 7333	1791	1496	19.7	4326	3593
63	Gorakh Naga Magar	Kolhi Tq Vaijapur	AHB 1200	MP 7333	1504	1320	13.9	3363	3014
64	Babasaheb Rangnath Kakde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1418	1326	6.9	3456	3123
65	Pralhad Rangnath Kakde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1358	1256	8.1	2633	2418
66	Baban Govindrao Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2312	1909	21.1	5378	4470
67	Ganesh Rangnath Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1876	1744	7.6	4336	4000
68	Punjaram Ambadas Tople	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2352	1829	28.6	5565	4304
69	Shubham Dnyaneshwar Chaudhary	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1798	1705	5.5	4342	4016
70	Sudam Devidas Aglave	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1852	1435	29.1	4433	3478
71	Gajanan Sominath Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1898	1302	45.8	4445	3055
72	Sominath Barikrao Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2356	1900	24.0	5694	4585
73	Machindra Bhanudas kakde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1376	1198	14.9	2726	2315
74	Chaitanya Babasaheb Kakde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2204	1879	17.3	5172	4573
75	Yogesh Dilip Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1550	1386	11.8	3664	3305
76	Aditya Ashok Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2177	1826	19.2	4956	4372
77	Rajendra Vitthal Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2006	1604	25.1	3980	3634
78	Gajanan Baliram Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2279	1590	43.3	5464	3863
79	Parmeshwar Kundlik Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2118	1855	14.2	4953	4478
80	Krushna Parmeshwar Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1432	1287	11.3	3523	3139
81	Rajendra Badrinath Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1779	1426	24.8	4194	3428
82	Sanjay Anna Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2374	2020	17.5	5255	4521
83	Janardan Ashok Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1979	1611	22.8	4712	3864

Table VI.12: Result of FLD's conducted by AICRP-PM, NARP, Aurangabad - *Kharif* 2025

Technology Demonstration: Improved practices (Biofortified hybrid AHB 1200) v/s Farmer's Practices Trials

S. No.	Name & Address of the Beneficiary		Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
					IP	FP		IP	FP
84	Radhakishan Bhimrao Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1791	1496	19.7	4326	3593
85	Udhav Radhakishan Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1905	1320	44.3	4364	3014
86	Nivrutti Baburao Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1718	1326	29.6	4152	3123
87	Gajanan Nivrutti Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	1735	1458	19.0	3558	3018
88	Eknath Bandu Gavli	Sindi Tq Vaijapur	AHB 1200	MP 7333	2312	1909	21.1	5378	4470
89	Balu Dattu Shelke	Pimpalgaon Tq Vaijapur	AHB 1200	MP 7333	2046	1744	17.3	4336	4000
90	Hirajay Pralhad Jadhav	Chikatgaon Tq Vaijapur	AHB 1200	MP 7333	2352	1829	28.6	5565	4304
91	Harun karim Shaha	Sindi Tq Vaijapur	AHB 1200	MP 7333	2198	1705	28.9	4942	4016
92	Sachin Dnyandev Thorat	Kapus Wadgaon Tq Vaijapur	AHB 1200	MP 7333	1852	1435	29.1	4433	3478
93	Chabu Fakira Pathor	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2299	1654	39.0	5051	3898
94	Satyabhamabai Shahadu Suryawanshi	Khandala Tq Vaijapur Ch.Sambhajinagar	AHB 1200	MP 7333	1800	1601	12.4	4347	3873
95	Sanjay Somilal Bankar	Adhur Tq Vaijapur	AHB 1200	MP 7333	2343	1901	23.3	5211	4277
96	Shahidabai Shankar Yandalkar	Rayakwadi Vasti Tq Vaijapur Ch.Sambhajinagar	AHB 1200	MP 7333	2354	2044	15.2	5498	4865
97	Apparao Bhogal Thorat	Rotegaon Tq Vaijapur, Dist Ch.Sambhajinagar	AHB 1200	MP 7333	2598	1807	43.8	5357	4253
98	Babasaheb Rangnath Galande	Yaralgaon Tq Vaijapur Ch.Sambhajinagar	AHB 1200	MP 7333	1485	1236	20.1	3491	2928
99	Devidas Aabarao Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2252	1627	38.4	4471	3935
100	Vishnu Devidas Shinde	Warudi Tq. Badnapur Dist. Jalna	AHB 1200	MP 7333	2239	1659	35.0	4926	3683
				Total	**204001**	**171667**		**475310**	**400625**
				Mean	**2040**	**1717**	**18.8**	**4753**	**4006**

Improved practices: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.13: Result of FLD's conducted by Krishi Vigyan Kendra, ICAR-CAZRI, Jodhpur (Rajasthan) *Kharif* 2025

Technology Demonstration: Improved practices (Varietal trial: Biofortified hybrid HHB 299) v/s Farmer's Practice

S. No.	Name of the Beneficiary	Fathers/ Husband/ Name	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
						IP	FP		IP	FP
1	Mrs Sangita	Sh. Bhanwar Ram	Sointra, Shergarh	HHB 299	Local	1825	1500	21.7	2525	1800
2	Mrs. Bhanwari	Sh. Hukma Ram	Sointra, Shergarh	HHB 299	Local	1835	1525	20.3	2500	1800
3	Mrs Asha	Sh. Oma Ram	Sointra, Shergarh	HHB 299	Local	1775	1530	16.0	2400	1850
4	Mrs Shobha Kanwar	Sh. Arjun Singh	Sointra, Shergarh	HHB 299	Local	1750	1500	16.7	2350	1850
5	Mrs.Jamna Kanwar	Sh. Gop Singh	Sointra, Shergarh	HHB 299	Local	1800	1450	24.1	2400	1900
6	Mrs Dhanni Devi	Sh.Oma Ram	Sointra, Shergarh	HHB 299	Local	1800	1475	22.0	2450	1850
7	Mrs Dhai	Sh. Bhoma Ram	Sointra, Shergarh	HHB 299	Local	1775	1500	18.3	2350	1800
8	Mrs Padma Devi	Sh. Hukma Ram	Sointra, Shergarh	HHB 299	Local	1725	1500	15.0	2300	1850
9	Mrs Hapu Devi	Sh. Anopa Ram	Sointra, Shergarh	HHB 299	Local	1825	1525	19.7	2350	1800
10	Mrs Jhamuki	Sh. Harman Ram	Sointra, Shergarh	HHB 299	Local	1850	1450	27.6	2400	1800
11	Mrs Imarati	Sh. Mehra Ram	Sointra, Shergarh	HHB 299	Local	1700	1475	15.3	2325	1850
12	Mrs Surma	Sh. Roopa Ram	Sointra, Shergarh	HHB 299	Local	1775	1525	16.4	2350	1825
13	Mrs Chhagan Kanwar	Sh. Narpat Singh	Sointra, Shergarh	HHB 299	Local	1800	1500	20.0	2350	1850
14	Mrs Vasundhara	Sh. Bora Ram	Sointra, Shergarh	HHB 299	Local	1750	1450	20.7	2300	1800
15	Mrs Rasal	Sh.Sumera Ram	Sointra, Shergarh	HHB 299	Local	1775	1425	24.6	2325	1825
16	Mrs Pooja	Sh. Narpat Singh	Sointra, Shergarh	HHB 299	Local	1725	1450	19.0	2350	1800
17	Mrs Geeta Devi	Sh. Bher Das	Sointra, Shergarh	HHB 299	Local	1750	1450	20.7	2300	1800
18	Mrs Panki Devi	Sh. Ranchor Ram	Sointra, Shergarh	HHB 299	Local	1800	1450	24.1	2400	1850
19	Mrs Kaku	Sh. Pappa Ram	Sointra, Shergarh	HHB 299	Local	1825	1475	23.7	2400	1800
20	Sh. Champa Ram	Sh.Simratha Ram	Sointra, Shergarh	HHB 299	Local	1775	1450	22.4	2300	1825
21	Mrs Pramila Devi	Sh. Mohan Lal	Sointra, Shergarh	HHB 299	Local	1825	1450	25.9	2275	1850
22	Mrs Poni Devi	Sh. Likma ram	Sointra, Shergarh	HHB 299	Local	1775	1400	26.8	2300	1800

Table VI.13: Result of FLD's conducted by Krishi Vigyan Kendra, ICAR-CAZRI, Jodhpur (Rajasthan) *Kharif* 2025

Technology Demonstration: Improved practices (Varietal trial: Biofortified hybrid HHB 299) v/s Farmer's Practice

S. No.	Name of the Beneficiary	Fathers/ Husband/ Name	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
						IP	FP		IP	FP
23	Mrs Ugmo Devi	Sh. Bhanwar Lal	Sointra, Shergarh	HHB 299	Local	1825	1475	23.7	2325	1825
24	Mrs Rekha Devi	Sh.Mala Ram	Sointra, Shergarh	HHB 299	Local	1800	1500	20.0	2400	1800
25	Mrs Bhanwar Kanwar	Sh. Mohan Singh	Sointra, Shergarh	HHB 299	Local	1850	1475	25.4	2400	1850
26	Sh. Mohan Ram	Sh. Kharta Ram	Sointra, Shergarh	HHB 299	Local	1825	1400	30.4	2400	1850
27	Sh. Kharta Ram	Sh. Jetha Ram	Sointra, Shergarh	HHB 299	Local	1800	1500	20.0	2350	1800
28	Sh. Mohan Lal	Sh. Harman Ram	Sointra, Shergarh	HHB 299	Local	1750	1475	18.6	2300	1825
29	Mrs. Dhapu Devi	Sh. Heera Ram	Sointra, Shergarh	HHB 299	Local	1775	1450	22.4	2250	1850
30	Mrs Dhalki Devi	Sh. Pabu Ram	Sointra, Shergarh	HHB 299	Local	1725	1450	19.0	2250	1750
31	Mrs. Sita Devi	Sh. Narpat Ram	Sointra, Shergarh	HHB 299	Local	1725	1400	23.2	2300	1700
32	Sh Arvind Vaisanav	Sh Darka Prasad	Sointra, Shergarh	HHB 299	Local	1750	1450	20.7	2300	1775
33	Mrs Layero	Sh. Jagmal Ram	Sointra, Shergarh	HHB 299	Local	1725	1425	21.1	2350	1825
34	Sh. Deva Ram	Sh. Roopa Ram	Sointra, Shergarh	HHB 299	Local	1775	1450	22.4	2400	1800
35	Sh. Papa Ram	Sh. Deva Ram	Sointra, Shergarh	HHB 299	Local	1800	1425	26.3	2400	1850
36	Sh. Akha Ram	Sh. Rana Ram	Sointra, Shergarh	HHB 299	Local	1825	1475	23.7	2400	1775
37	Mrs Leela	Sh. Bhoma Ram	Sointra, Shergarh	HHB 299	Local	1850	1450	27.6	2400	1750
38	Sh. Mohan Lal	Sh. Khushala Ram	Sointra, Shergarh	HHB 299	Local	1800	1450	24.1	2350	1800
39	Mrs Luni	Sh. Purkha Ram	Sointra, Shergarh	HHB 299	Local	1750	1400	25.0	2300	1825
40	Mrs Dhapu	Sh. Sawroopa Ram	Sointra, Shergarh	HHB 299	Local	1725	1400	23.2	2300	1800
41	Sh. Dharma Ram	Sh .Dhana Ram	Sointra, Shergarh	HHB 299	Local	1700	1450	17.2	2300	1850
42	Sh. Bhoma Ram	Sh. Japa Ram	Sointra, Shergarh	HHB 299	Local	1730	1475	17.3	2300	1825
43	Sh. Bhikha Ram	Sh. Amba Ram	Sointra, Shergarh	HHB 299	Local	1725	1500	15.0	2250	1800
44	Sh. Jasa Ram	Sh. Roopa Ram	Sointra, Shergarh	HHB 299	Local	1700	1500	13.3	2300	1825
45	Mrs. Mirgo	Sh. Rewant Ram	Sointra, Shergarh	HHB 299	Local	1730	1475	17.3	2300	1850
46	Sh. Pema Ram	Sh. Labu Ram	Sointra, Shergarh	HHB 299	Local	1700	1475	15.3	2250	1850
47	Sh. Ghewar Ram	Sh. Roopa Ram	Sointra, Shergarh	HHB 299	Local	1700	1400	21.4	2250	1825
48	Mrs Jammu	Sh. Bala Ram	Sointra, Shergarh	HHB 299	Local	1725	1450	19.0	2300	1800
49	Mrs Kamla	Sh Oma Ram	Sointra, Shergarh	HHB 299	Local	1700	1450	17.2	2200	1825
50	Sh Dinesh Kumar	Sh. Thana Ram	Sointra, Shergarh	HHB 299	Local	1725	1450	19.0	2350	1800
					Total	**88445**	**73130**		**116975**	**90875**
					Mean	**1769**	**1463**	**20.9**	**2340**	**1818**

Improved practices: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.11: Result of FLD's conducted by A.R.S., Vizianagaram, Andhra Pradesh - *Summer* 2026

Technology Demonstration: Improved practices (Biofortified hybrid ABV 04) v/s Farmer's Practice Trials

S. No.	Name & Address of the Beneficiary	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
				IP	FP		IP	FP
1	PV Jagannadham,Chanduluru, Lkota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2475	2046	21.0	7845	7645
2	K. Demudu, Chanduluru, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2580	1884	36.9	8123	7828
3	G. Ramana, Chanduluru, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2450	1805	35.7	7824	7534
4	G. YerriNaidu, Chanduluru, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2360	1962	20.3	7431	7236
5	Y.S. Murthy, Chanduluru, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2320	2015	15.1	7560	7018
6	G. Eswar Rao, Chanduluru, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2550	1998	27.6	7430	7125
7	S. Arjuna, Chanduluru, L Kota mandal, Vizianagaram district, 535151	ABV 04	Pittaganti	2380	1925	23.6	7820	7530
8	G. Sriramamurthy, Chanduluru, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2360	2085	13.2	7640	7336
9	S. Venkateswarlu, L.Kota, L Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2520	1980	27.3	8020	7815
10	B. Venkateswar rao, Alamanda, Jami mandal, Vizianagaram district, 535240	ABV 04	Pittaganti	2340	2000	17.0	7830	7520
11	V. Kanakamahalakshmi, Chinnipalem, L.Kota mandal, Vizianagaram district, 5	ABV 04	Pittaganti	2250	2125	5.9	7520	7325
12	K. Mutyalu, Chanduluru, L.Kota mandal, Vizianagaram district, 535161	ABV 04	Pittaganti	2340	1995	17.3	7490	7028
13	K. Sudheer kumar, Kothavalasa, Kothavalasa mandal, Vizianagaram district, 5	ABV 04	Pittaganti	2360	2068	14.1	7630	7136
14	Ravada Venkataramana, L.Kota, L.Kota mandal, Vizianagaram district, 53516	ABV 04	Pittaganti	2280	2025	12.6	7790	7524
15	D. Chinnammalu, Rega, L Kota mandal, Vizianagaram district, 535183	ABV 04	Pittaganti	2310	1925	20.0	7540	7136
16	G. Lakshmi, Kallepalli, L.Kota mandal, Vizianagaram district, 535183	ABV 04	Pittaganti	2450	2075	18.1	7680	7238
17	Ch. Vekateswarlu, Kalagada, Jami mandal, Vizianagaram district, 535160	ABV 04	Pittaganti	2230	1975	12.9	7520	7028
18	Ch. Ramakrishna, Kalagada, Jami mandal, Vizianagaram district, 535240	ABV 04	Pittaganti	2420	2078	16.5	7430	7128
19	K. Venkata Rao, Kalagada, Jami mandal, Vizianagaram district, 535240	ABV 04	Pittaganti	2480	2086	18.9	7520	7136
20	B.V.Satya Rao, Kalagada, Jami mandal, Vizianagaram district, 535240	ABV 04	Pittaganti	2460	2025	21.5	7850	7052
21	B.Bangar Naidu, Kalagada, Jami mandal, Vizianagaram, 535240	ABV 05	Pittaganti	2320	2075	11.8	7680	7135
22	M. Mahesh Babu, Kalagada, Jami mandal, Vizianagaram, 535240	ABV 06	Pittaganti	2350	2105	11.6	7570	7345
23	Janni Satyam, Gangannadoravalasa, Salur mandal, Vizianagaram, 535591	ABV 07	Pittaganti	2440	2025	20.5	7620	7245
24	Kondagorru Latchamma, Mettavalasa, Salur mandal, Vizianagaram, 535559	ABV 08	Pittaganti	2360	2075	13.7	7350	7028
25	Borrayi Dora Tavudu, Madathanavalasa, Salur mandal, Vizianagaram, 535591	ABV 09	Pittaganti	2380	2000	19.0	7460	7130
26	Sukuru Surya Narayana, Mamidivalasa, Salur mandal, Vizianagaram, 535579	ABV 04	Pittaganti	2430	1925	26.2	7580	7125
27	Melika Chinna Narayana, Madathanavalasa, Salur mandal, Vizianagaram, 535	ABV 04	Pittaganti	2240	2028	10.5	7620	7236
28	Janni Adinarayana, Gangannadoravalasa, Salur mandal, Vizianagaram, 5355	ABV 04	Pittaganti	2320	2095	10.7	7820	7350
29	Borrayi Dora Lakshmana Dora, Madathanavalasa, Salur mandal, Vizianagaram	ABV 04	Pittaganti	2450	2125	15.3	7530	7125
30	Nimmala Krishna, Mamidivalasa, Saluru mandal, Vizianagaram, 535591	ABV 04	Pittaganti	2560	2076	23.3	7460	7208
			Total	**71765**	**60606**		**229183**	**218245**
			Mean	**2392**	**2020**	**18.4**	**7639**	**7275**

Improved practices: Use of Improved hybrids, Seed treatment, Use of Seed drill, line sowing, recommended spacing, Use of RDF, Chemical weed control and Use of thresher etc.

Table VI.15: Result of FLD's conducted by Krishi Vigyan Kendra, Athiyasan (Nagaur-I), Agriculture University, Jodhpur (Rajasthan) *Kharif* 2025

Technology Demonstration: Improved practices v/s Farmer's Practice

S. No.	Name of the Beneficiary	Fathers/ Husband/ Name	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
						IP	FP		IP	FP
1	Shankar ram prajapat	Jetaram prajapat	Surpaliya	HHB-299	HHB-67	1867	1538	21	5826	4526
2	Ramniwas	Bhanwar lal	Surpaliya	HHB-299	HHB-67	1896	1504	26	6125	4912
3	Sharwan ram	Jetaram	Surpaliya	HHB-299	HHB-67	1937	1498	29	6333	5345
4	Rajudas	Ramdas	Surpaliya	HHB-299	HHB-67	1915	1505	27	6059	4659
5	Hajariram jakhar	Muknaram jakhar	Surpaliya	HHB-299	HHB-67	1897	1487	28	5426	5130
6	Shankar ram	Hari ram	Surpaliya	HHB-299	HHB-67	1925	1542	25	6059	4931
7	Gangaram siyag	Durgaram siyag	Surpaliya	HHB-299	HHB-67	1897	1509	26	5338	4126
8	Maniram	Bhanwar lal	Surpaliya	HHB-299	HHB-67	1911	1467	30	5671	5239
9	Sharwan ram	Bhanwara ram	Surpaliya	HHB-299	HHB-67	1885	1549	22	5725	5129
10	Hanuman ram	Gopal ram	Surpaliya	HHB-299	HHB-67	1927	1565	23	5926	4329
11	Omprakash	Pratap ram	Surpaliya	HHB-299	HHB-67	1869	1469	27	5327	4123
12	Hanuman ram	Amana ram	Surpaliya	HHB-299	HHB-67	1871	1511	24	4997	3865
13	Shivprasad	Mangi lal	Surpaliya	HHB-299	HHB-67	1902	1539	24	5909	4921
14	Naresh jakhar	Kesha ram jakhar	Surpaliya	HHB-299	HHB-67	1915	1495	28	5423	3967
15	Durga ram	Chuna ram	Surpaliya	HHB-299	HHB-67	1887	1602	18	4856	4311
16	Jagdish prasad siyag	Sita ram	Surpaliya	HHB-299	HHB-67	1864	1553	20	5128	3895
17	Birbal siyag	Chimna ram	Surpaliya	HHB-299	HHB-67	1913	1567	22	6457	3967
18	Kapildev sad	Kishan das	Surpaliya	HHB-299	HHB-67	1866	1508	24	5042	4095
19	Dev karan	Pusa ram	Surpaliya	HHB-299	HHB-67	1888	1489	27	5326	4125
20	Ashok manda	Bhanwar lal	Surpaliya	HHB-299	HHB-67	1881	1523	24	5823	4965
21	Aidan ram	Sharwan ram	Surpaliya	HHB-299	HHB-67	1921	1541	25	6525	5326

Table VI.15: Result of FLD's conducted by Krishi Vigyan Kendra, Athiyasan (Nagaur-I), Agriculture University, Jodhpur (Rajasthan) *Kharif* 2025

Technology Demonstration: Improved practices v/s Farmer's Practice

S. No.	Name of the Beneficiary	Fathers/ Husband/ Name	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
						IP	FP		IP	FP
22	Birma ram	Gopal ram	Surpaliya	HHB-299	HHB-67	1918	1605	20	6654	4788
23	Sahi ram	Ramdev	Surpaliya	HHB-299	HHB-67	1901	1542	23	6310	4623
24	Kheraj	Balaram	Surpaliya	HHB-299	HHB-67	1847	1493	24	5246	5126
25	Kheraj ram	Sukha ram	Surpaliya	HHB-299	HHB-67	1867	1499	25	5426	4728
26	Shankar ram siyag	Dayal ram	Surpaliya	HHB-299	HHB-67	1893	1537	23	5123	4357
27	Naresh	Amar lal	Surpaliya	HHB-299	HHB-67	1931	1522	27	6759	4267
28	Teja ram	Pusa ram	Surpaliya	HHB-299	HHB-67	1869	1493	25	4735	3987
29	Ramdev	Dayal ram	Surpaliya	HHB-299	HHB-67	1901	1501	27	6158	4522
30	Rameshwar lal	Ladu ram	Surpaliya	HHB-299	HHB-67	1917	1494	28	6055	5236
31	Bajrang lal	Lichman ram	Surpaliya	HHB-299	HHB-67	1873	1523	23	4978	4015
32	Chuna ram batan	Ghasi ram	Surpaliya	HHB-299	HHB-67	1894	1534	23	5613	5021
33	Lichman ram	Kla ram	Surpaliya	HHB-299	HHB-67	1918	1542	24	6680	4925
34	Chena ram	Ramdev	Surpaliya	HHB-299	HHB-67	1933	1548	25	6415	5156
35	Gumana ram	Ramu ram	Surpaliya	HHB-299	HHB-67	1892	1534	23	5321	4326
36	Jagram	Chatra ram	Surpaliya	HHB-299	HHB-67	1872	1518	23	5379	4925
37	Muna ram	Kishna ram	Surpaliya	HHB-299	HHB-67	1903	1552	23	6824	5236
38	Ramuram	Kishna ram	Surpaliya	HHB-299	HHB-67	1881	1516	24	4530	4111
39	Gopal ram batan	Pacha ram	Surpaliya	HHB-299	HHB-67	1906	1494	28	6712	4965
40	Ishwar ram	Kla ram	Surpaliya	HHB-299	HHB-67	1888	1489	27	5481	3857
41	Panna ram	Pusa ram	Surpaliya	HHB-299	HHB-67	1905	1551	23	6457	4736
42	Gena ram	Pusa ram	Surpaliya	HHB-299	HHB-67	1883	1514	24	5726	5234
43	Ram kishore	Mohan ram	Surpaliya	HHB-299	HHB-67	1896	1493	27	6135	4736
44	Bhura ram	Birma ram	Khabadiyana	HHB-299	HHB-67	1877	1511	24	6021	5122
45	Om prakash	Sita ram	Khabadiyana	HHB-299	HHB-67	1874	1488	26	5725	4965

Table VI.15: Result of FLD's conducted by Krishi Vigyan Kendra, Athiyasan (Nagaur-I), Agriculture University, Jodhpur (Rajasthan) *Kharif* 2025

Technology Demonstration: Improved practices v/s Farmer's Practice

S. No.	Name of the Beneficiary	Fathers/ Husband/ Name	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield	Fodder Yield (Kg/ha)	
						IP	FP		IP	FP
46	Sarwan ram jandu	Khiya ram	Khabadiyana	HHB-299	HHB-67	1883	1517	24	5836	5234
47	Lina ram	Gopal ram	Khabadiyana	HHB-299	HHB-67	1878	1496	26	5218	4736
48	Prakash	Bhanwara ram	Khabadiyana	HHB-299	HHB-67	1875	1527	23	5120	4280
49	Surjeet singh rajput	Bhagwan singh rajpu	Khabadiyana	HHB-299	HHB-67	1913	1532	25	6928	5237
50	Rakesh jandu	Jai prakash	Khabadiyana	HHB-299	HHB-67	1879	1519	24	5235	3925
51	Om prakash jandu	Shyama ram	Khabadiyana	HHB-299	HHB-67	1884	1497	26	5912	4968
52	Ram kishore	Bhanwar lal	Khabadiyana	HHB-299	HHB-67	1912	1538	24	7023	5122
53	Ramdhan	Chokha ram	Khabadiyana	HHB-299	HHB-67	1867	1523	23	5495	4212
54	Purushotam siyag	Bhanwar lal siyag	Khabadiyana	HHB-299	HHB-67	1881	1516	24	5879	4768
55	Mala ram	Emarta ram	Khabadiyana	HHB-299	HHB-67	1876	1503	25	5621	5128
56	Sharwan siyag	Kana ram	Khabadiyana	HHB-299	HHB-67	1887	1526	24	6159	5326
57	Govind singh	Shivratan singh	Khabadiyana	HHB-299	HHB-67	1923	1490	29	6867	4428
58	Ashok	Raghu nath	Khabadiyana	HHB-299	HHB-67	1878	1534	22	5697	5127
59	Emarta ram	Kana ram	Khabadiyana	HHB-299	HHB-67	1891	1549	22	6123	4425
60	Budha ram jat	Kana ram	Khabadiyana	HHB-299	HHB-67	1926	1552	24	6380	3825
61	Mehram godara	Bhagirath ram	Khabadiyana	HHB-299	HHB-67	1913	1567	22	6415	4726
62	Shankar singh	Ratan singh	Khabadiyana	HHB-299	HHB-67	1907	1611	18	6136	5327
63	Khinya ram	Harji ram	Khabadiyana	HHB-299	HHB-67	1939	1561	24	6483	4669
					Total	**119385**	**96012**		**368291**	**294313**
					Mean	**1895**	**1524**	**24.3**	**5846**	**4672**

Improved practices: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF, Micronutrients, Chemical weed control and Use of thresher etc.

Table VI.17: Result of FLD's conducted by Krishi Vigyan Kendra, Bamanwara (Jalore-II), AU, Jodhpur (Rajasthan) *Kharif* 2025
Technology Demonstration: Improved practices (Biofortified hybrid RHB 234) v/s Farmer's Practice Trials

S. No.	Name of the Beneficiary	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield
					IP	FP	
1	Prakash Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1540	1200	28.3
2	Jitender Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1550	1210	28.1
3	Sarvan Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1560	1220	27.9
4	Arvind Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1570	1230	27.6
5	Pradip Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1580	1240	27.4
6	Naresh Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1590	1250	27.2
7	Laxman Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1600	1260	27.0
8	Ramesh Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1610	1270	26.8
9	Alkesh Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1620	1280	26.6
10	Mehru Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1630	1290	26.4
11	Ramesh Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1640	1300	26.2
12	Lahra Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1650	1310	26.0
13	Devi Lal	Bamanwara, Jalore	RHB 234	F_2 Seed	1660	1320	25.8
14	Rajesh Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1670	1330	25.6
15	Dharsi Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1680	1340	25.4
16	Kala Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1690	1350	25.2
17	Sharwan Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1700	1360	25.0
18	Suresh Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1710	1370	24.8
19	Deepak Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1720	1380	24.6
20	Mafa Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1730	1390	24.5
21	Ramesh Bhai	Bamanwara, Jalore	RHB 234	F_2 Seed	1740	1400	24.3
22	Hemant Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1750	1410	24.1
23	Bhidra Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1760	1420	23.9

Table VI.17: Result of FLD's conducted by Krishi Vigyan Kendra, Bamanwara (Jalore-II), AU, Jodhpur (Rajasthan) *Kharif* 2025
Technology Demonstration: Improved practices (Biofortified hybrid RHB 234) v/s Farmer's Practice Trials

S. No.	Name of the Beneficiary	Address	Vaiety/ Hybrids	Check Variety	Grain Yield (Kg/ha)		% improvement in Grain yield
					IP	FP	
24	Jodha Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1770	1430	23.8
25	Popat Lal	Bamanwara, Jalore	RHB 234	F_2 Seed	1780	1440	23.6
26	Maga Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1545	1205	28.2
27	Hira Devi	Bamanwara, Jalore	RHB 234	F_2 Seed	1555	1215	28.0
28	Sarvan Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1565	1225	27.8
29	Babli	Bamanwara, Jalore	RHB 234	F_2 Seed	1575	1235	27.5
30	Dariya Devi	Bamanwara, Jalore	RHB 234	F_2 Seed	1585	1245	27.3
31	Mukesh	Bamanwara, Jalore	RHB 234	F_2 Seed	1595	1255	27.1
32	Vena Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1605	1265	26.9
33	Asu Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1615	1275	26.7
34	Arjun Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1625	1285	26.5
35	Darja Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1635	1295	26.3
36	Khema Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1645	1305	26.1
37	Dala Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1655	1315	25.9
38	Kanku Devi	Bamanwara, Jalore	RHB 234	F_2 Seed	1665	1325	25.7
39	Masra Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1675	1335	25.5
40	Pravin Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1685	1345	25.3
41	Jamka Devi	Bamanwara, Jalore	RHB 234	F_2 Seed	1695	1355	25.1
42	Badli Devi	Bamanwara, Jalore	RHB 234	F_2 Seed	1705	1365	24.9
43	Chhagna Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1715	1375	24.7
44	Ganesha Ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1725	1385	24.5
45	Rahul Kumar	Bamanwara, Jalore	RHB 234	F_2 Seed	1735	1395	24.4
46	Maghendra Singh	Bamanwara, Jalore	RHB 234	F_2 Seed	1745	1405	24.2
47	Bijla ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1755	1415	24.0
48	Hira Devi	Bamanwara, Jalore	RHB 234	F_2 Seed	1765	1425	23.9
49	Mewa ram	Bamanwara, Jalore	RHB 234	F_2 Seed	1775	1435	23.7
50	Phool Singh	Bamanwara, Jalore	RHB 234	F_2 Seed	1785	1445	23.5
				Total	**83125**	**66125**	
				Mean	**1663**	**1323**	**25.7**

Improved practices: Use of Improved hybrids, Seed treatment, Sowing by Seed drill, line sowing, Maintain recommended spacing, Use of RDF and ZnSO4, Chemical weed control through Atrazine and Use of thresher etc.

CHAPTER VII

PLANT BIOTECHNOLOGY

PLANT BIOTECHNOLOGY

PMPB 1: Molecular characterization and validation of drought tolerance markers in drought/heat tolerant pearl millet genotypes suitable for A_1 zone.

Plant Material

A total of 24 pearl millet drought/heat tolerant lines suitable for A_1 zone were used for morphological and molecular characterization under this experiment (Table 1.1). Development of high yielding, dual purpose disease resistant cultivars for low rainfall areas i.e. A_1 zone is of utmost priority for increasing pearl millet productivity at national level and develop some hybrids for this specific zone. Keeping this in view, this experiment was useful for screening and developing drought/heat tolerant hybrids for A_1 zone.

Genomic DNA isolation and quantification

Good quality genomic DNA having sharp band was successfully isolated from fresh and young leaves of 24 pearl millet lines using the CTAB method (Murray and Thompson, 1980) with slight modifications and it was also observed that good quality DNA was extracted even without using liquid nitrogen for grinding of hard leaf tissues like pearl millet which can reduce cost of isolation.

Table 1.1 List of pearl millet lines used for molecular characterization

S. No.	Name of germplasm	Source
1	IC-102793	ICAR-AICRP on Pearl millet, Jodhpur
2	IC-102797	ICAR-AICRP on Pearl millet, Jodhpur
3	IC-127660	ICAR-AICRP on Pearl millet, Jodhpur
4	IC-139869	ICAR-AICRP on Pearl millet, Jodhpur
5	IC-329041	ICAR-AICRP on Pearl millet, Jodhpur
6	IC-332703	ICAR-AICRP on Pearl millet, Jodhpur
7	IC-332706	ICAR-AICRP on Pearl millet, Jodhpur
8	IC-332707	ICAR-AICRP on Pearl millet, Jodhpur
9	IC-332709	ICAR-AICRP on Pearl millet, Jodhpur
10	IC-332711	ICAR-AICRP on Pearl millet, Jodhpur
11	IC-332715	ICAR-AICRP on Pearl millet, Jodhpur
12	IC-332716	ICAR-AICRP on Pearl millet, Jodhpur
13	IC-332718	ICAR-AICRP on Pearl millet, Jodhpur
14	IC-332721	ICAR-AICRP on Pearl millet, Jodhpur
15	IC-332724	ICAR-AICRP on Pearl millet, Jodhpur
16	IC-332725	ICAR-AICRP on Pearl millet, Jodhpur
17	IC-332726	ICAR-AICRP on Pearl millet, Jodhpur
18	IC-332727	ICAR-AICRP on Pearl millet, Jodhpur
19	IC-332732	ICAR-AICRP on Pearl millet, Jodhpur
20	IC-332733	ICAR-AICRP on Pearl millet, Jodhpur
21	IC-332742	ICAR-AICRP on Pearl millet, Jodhpur
22	IC-332755	ICAR-AICRP on Pearl millet, Jodhpur
23	IC-420309	ICAR-AICRP on Pearl millet, Jodhpur
24	IC-102804	ICAR-AICRP on Pearl millet, Jodhpur

Molecular characterization and SSR analysis

For PCR reaction, DNA was diluted accordingly to make available final concentration of 10 ng/µl and amplification reactions were carried out in a volume of 10 µl containing 10 mM Tris HCl (pH 8.3), 50 mM KCl, 1.5 mM $MgCl_2$, 200 mM each dNTP, 0.4 µM 10-mer primer, 1 unit Taq NA polymerase (GeNei, India) and 10 ng of template DNA. Amplifications were carried out in a 96-well thermal cycler (Agilent Technologies). Thermal cycler was programmed to 1 cycle of 5 min at 94°C for initial strand separation. This was followed by 35 cycles of 30s at 94°C for denaturation, 30 s of 58°C for annealing and 1 min at 72°C for primer extension. Finally, 1 cycle of 10 mins at 72°C was used for final extension, followed by hold at 4°C. A total of 15 SSR primers specifically reported for drought were used for PCR amplification and molecular characterization among 24 pearl millet lines. All the 15 SSRs amplified products of varying sizes ranging between 100-700 bp (Fig. 1.1). A total of 43 alleles were obtained in this study and the number of alleles per locus varied between 2 to 4 with an average of 2.87 alleles. Polymorphic Information Content (PIC) varied from 0.42 to 0.83 with an average of 0.69 PIC value (Table 1.2). Four SSR markers (PSMP2059, PSMP2077, PSMP2078 and PSMP2066) linked to drought-tolerant QTLs on LG2 and LG5, identified by Yadav et al. (2004) were also validated here among these genotypes.

Table 1.2. List of SSR primers showing polymorphism

S. No.	Oligo Name	Product range	No. of alleles amplified	PIC value
1.	CTM3	250-350	3	0.66
2.	PSMP2059	120-150	2	0.73
3.	PSMP2077	140-180	2	0.72
4.	PSMP2078	300-400	3	0.75
5.	PSMP2206	200-350	2	0.68
6.	PSMP2237	230-700	3	0.66
7.	ICMP3056	130-150	2	0.42
8.	ICMP3063	150-600	4	0.83
9.	IPES0117	110-150	2	0.50
10.	IPES0218	180-550	4	0.77
11.	IPES0236	130-350	3	0.82
12.	PSMP2066	150-320	4	0.81
13.	CTM21	170-350	3	0.79
14.	IPES0152	100-130	2	0.48
15.	PSMP2072	140-300	4	0.79

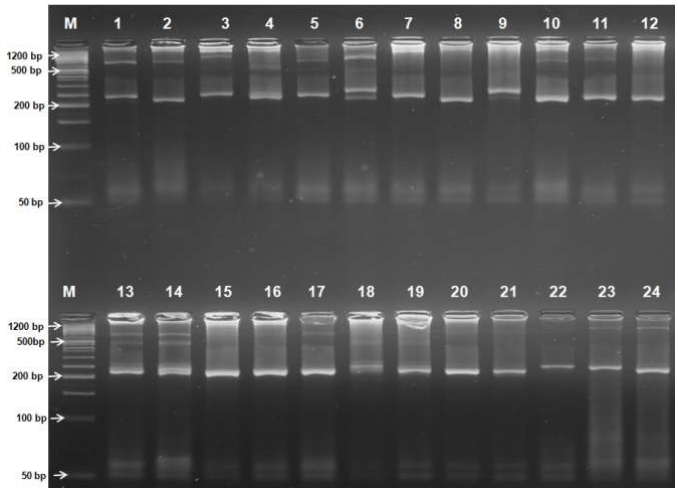


Fig. 1.1 Agarose gel showing amplification profiles of pearl millet lines using the primer PSMP 2237. Lane M-50 bp ladder, Lane 1-24 pearl millet lines

PMPB 2: Screening of disease resistant pearl millet genotypes and molecular analysis.

Plant Material

A total of 47 entries of downy mildew nursery trials and 71 entries of blast nursery trials were used for molecular characterization using markers identified for downy mildew and blast, respectively under this experiment (Table 2.1, 2.2). Downy mildew and blast are two major diseases affecting pearl millet. Hence, screening of pearl millet lines resistant to these diseases will be useful for developing disease resistant pearl millet hybrids/varieties.

Genomic DNA isolation and quantification

Good quality genomic DNA having sharp band was successfully isolated from fresh and young leaves of 47 entries of downy mildew nursery trials and 71 entries of blast nursery trials as described in PMPB 1 and quantified on agarose gel.

Table 2.1 List of entries of downy mildew nursery trials used for molecular characterization

S. No.	Entry Code	S. No.	Entry Code
1	ICPMDML-1	25	ICPMDML-25
2	ICPMDML-2	26	ICPMDML-26
3	ICPMDML-3	27	ICPMDML-27
4	ICPMDML-4	28	ICPMDML-28
5	ICPMDML-5	29	ICPMDML-29
6	ICPMDML-6	30	ICPMDML-30
7	ICPMDML-7	31	ICPMDML-31
8	ICPMDML-8	32	ICPMDML-32
9	ICPMDML-9	33	ICPMDML-33
10	ICPMDML-10	34	ICPMDML-34
11	ICPMDML-11	35	ICPMDML-35
12	ICPMDML-12	36	ICPMDML-36
13	ICPMDML-13	37	ICPMDML-37
14	ICPMDML-14	38	ICPMDML-38
15	ICPMDML-15	39	ICPMDML 39
16	ICPMDML-16	40	ICPMDML-40
17	ICPMDML-17	41	ICPMDML-41
18	ICPMDML-18	42	ICPMDML-42
19	ICPMDML-19	43	ICPMDML-43
20	ICPMDML-20	44	ICPMDML-44
21	ICPMDML-21	45	ICPMDML-45
22	ICPMDML-22	46	ICPMDML-46
23	ICPMDML-23	47	ICPMDML-47
24	ICPMDML-24		

Table 2.2 List of entries of blast nursery trials used for molecular characterization

S. No.	Entry Code	S. No.	Entry Code
1	ICPMBL-1	37	ICPMBL-37
2	ICPMBL-2	38	ICPMBL-38
3	ICPMBL-3	39	ICPMBL-39
4	ICPMBL-4	40	ICPMBL-40
5	ICPMBL-5	41	ICPMBL-41
6	ICPMBL-6	42	ICPMBL-42
7	ICPMBL-7	43	ICPMBL-43
8	ICPMBL-8	44	ICPMBL-44
9	ICPMBL-9	45	ICPMBL-45
10	ICPMBL10	46	ICPMBL-46
11	ICPMBL-11	47	ICPMBL-47
12	ICPMBL-12	48	ICPMBL-48
13	ICPMBL-13	49	ICPMBL-49
14	ICPMBL-14	50	ICPMBL-50
15	ICPMBL-15	51	ICPMBL-51
16	ICPMBL-16	52	ICPMBL-52
17	ICPMBL-17	53	ICPMBL-53
18	ICPMBL-18	54	ICPMBL-54
19	ICPMBL-19	55	ICPMBL-55
20	ICPMBL-20	56	ICPMBL-56
21	ICPMBL-21	57	ICPMBL-57
22	ICPMBL-22	58	ICPMBL-58
23	ICPMBL-23	59	ICPMBL-59
24	ICPMBL-24	60	ICPMBL-60
25	ICPMBL-25	61	ICPMBL-61
26	ICPMBL-26	62	ICPMBL-62
27	ICPMBL-27	63	ICPMBL-63
28	ICPMBL-28	64	ICPMBL-64
29	ICPMBL-29	65	ICPMBL-65
30	ICPMBL-30	66	ICPMBL-66
31	ICPMBL-31	67	ICPMBL-67
32	ICPMBL-32	68	ICPMBL-68
33	ICPMBL-33	69	ICPMBL-69
34	ICPMBL-34	70	ICPMBL-70
35	ICPMBL-35	71	ICPMBL-71
36	ICPMBL-36		

Molecular characterization and SSR analysis

For PCR reaction, DNA was diluted accordingly to make available final concentration of 10 ng/µl and amplification reactions were carried out in a volume of 10 µl as described in PMPB1. A total of 58 SSR primers were used for PCR amplification with 47 entries of downy mildew nursery trials. Out of 58 SSRs, 49 primers amplified products of varying sizes ranging from 110 to 560 bp and 32 (55.2 %) were polymorphic and 17 (29.3 %) were monomorphic (Table 2.3 and Fig. 2.1). A total of 87 alleles were obtained in this study and the number of alleles per locus varied between 2 to 4 with an average of 2.72 alleles**.** Polymorphic Information Content (PIC) varied from 0.32 to 0.79 with an average of 0.52 PIC value.

Table 2.3 Results of SSR primers used for PCR

Markers	Markers for DM	Markers for blast
Number of SSR markers used	58	62
Number of amplified markers	49	54
Number of non- amplified markers	09	08
Number of polymorphic markers	32	35
Number of monomorphic markers	17	19

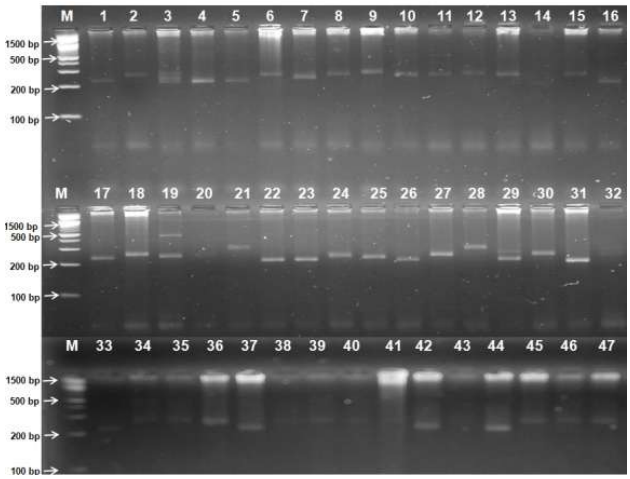


Fig. 2.1 Agarose gel showing amplification profiles of entries of downy mildew nursery trials using the primer PSMP 2084. Lane M-100 bp ladder, Lane 1-47 entries of pearl millet downy mildew nursery trials

A total of 62 SSR primers were used for PCR amplification with 71 entries of blast nursery trials. Out of 62 SSRs, 54 primers amplified products of varying sizes ranging from 110 to 570 bp and 35 (56.5%) were polymorphic and 19 (30.6%) were monomorphic (Table 2.3 and Fig. 2.2). A total of 101 alleles were obtained in this study and the number of alleles per locus varied between 2 to 5 with an average of 2.89 alleles**.** Polymorphic Information Content (PIC) varied from 0.38 to 0.83 with an average of 0.59 PIC value.

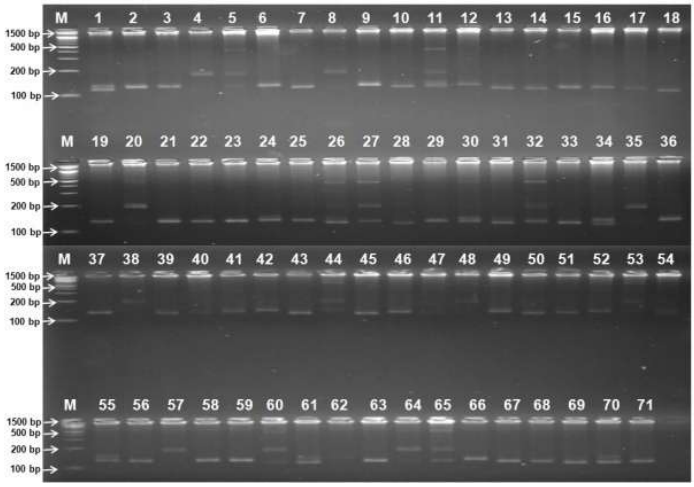


Fig. 2.2 Agarose gel showing amplification profiles of entries of blast nursery trials using the primer PSMP2089. Lane M-100 bp ladder, Lane 1-71entries of pearl millet blast nursery trials

Morphological parameters

A total of 47 entries of downy mildew nursery trials and 71 entries of blast nursery trials were screened in field conditions and data were recorded by counting no. of diseased plants at 60 DAS. Analysis of the downy mildew disease incidence showed one or more typical downy mildew symptoms and revealed significant differences among the different entries. The disease incidence ranged between 0% (ICPMDML-5) to 92.50% (ICPMDML-32) among the entries screened at Mandor. 27 entries with 0-5% infection were found to be resistant, 16 entries with >5-10% disease incidence were found to be moderately resistant and 3 entries with >10-25 % disease incidence were categorized to be moderately susceptible and 1 entry with 92.50 % disease incidence was found to be highly susceptible.

A total of 71 entries of blast nursery trials were screened in field conditions and data were recorded at 60 DAS. Analysis of the blast disease incidence showed one or more blast disease symptoms and revealed significant differences among the different entries. The disease incidence ranged between 0 (ICPMBL-58) to 7.5 (ICPMBL-35) among the entries screened at Mandor. 67 entries with score 0-3.5 were found to be resistant, 3 entries with score 4 were found to be moderately resistant and 1 entry (ICPMBL-35) with 7.5 score was found to be susceptible

PMPB 3: Validation and characterization for high Fe/Zn among pearl millet lines rich in Fe and Zn content.

Plant Material

A total of 38 pearl millet lines rich in Fe/Zn were used for molecular characterization and screening and validation of already reported high Fe/Zn markers under this experiment (Table 3.1). Pearl millet is rich in Fe & Zn content and ICAR-AICRP on Pearl Millet has already included minimum standard for micronutrient (Fe = 42 ppm; Zn = 32 ppm) in the promotion criteria. Hence, screening of pearl millet lines rich in Fe and Zn content using molecular markers and their validation will be helpful for developing high Fe/Zn pearl millet hybrids.

Genomic DNA isolation and quantification

Good quality genomic DNA having sharp band was successfully isolated from fresh and young leaves of 38 genotypes as described in PMPB 1 and quantified on agarose gel.

Table 3.1 List of genotypes used for molecular characterization

S. No.	Name of pearl millet line	Organization
1.	PPMI 1257	IARI, New Delhi
2.	PPMI1339	IARI, New Delhi
3.	PPMI 1340	IARI, New Delhi
4.	PPMI 1341	IARI, New Delhi
5.	PPMI 1342	IARI, New Delhi
6.	RIB 15191	RARI, Jaipur
7.	RIB 15192	RARI, Jaipur
8.	RIB 15193	RARI, Jaipur
9.	RIB 15194	RARI, Jaipur
10.	RIB 15195	RARI, Jaipur
11.	DHLB-CRP-01	MPKV, Dhule
12.	DHLB-CRP-02	MPKV, Dhule
13.	DHLB-CRP-03	MPKV, Dhule
14.	DHLB-CRP-04	MPKV, Dhule
15.	DHLB-CRP-05	MPKV, Dhule
16.	DHLB-CRP-06	MPKV, Dhule
17.	DHLB-CRP-07	MPKV, Dhule
18.	DHLB-CRP-08	MPKV, Dhule
19.	HR 24-9	HAU, Hisar
20.	HR 24-10	HAU, Hisar
21.	HR 24-11	HAU, Hisar
22.	HR 24-12	HAU, Hisar
23.	282-SB-25	JAU, Jamnagar
24.	285-SB-25	JAU, Jamnagar
25.	286-SB-25	JAU, Jamnagar
26.	304-SB-25	JAU, Jamnagar
27.	305-SB-25	JAU, Jamnagar
28.	391-BCS-25	JAU, Jamnagar
29.	394-BCS-25	JAU, Jamnagar
30.	406-BCS-25	JAU, Jamnagar
31.	419-BCS-25	JAU, Jamnagar
32.	426-BCS-25	JAU, Jamnagar
33.	MIR 1410	AICRP-PM,Mandor
34.	MIR 1601	AICRP-PM,Mandor
35.	MIR 1702	AICRP-PM,Mandor
36.	MIR 1704	AICRP-PM,Mandor
37.	MIR 1707	AICRP-PM,Mandor
38.	MIR 1711	AICRP-PM,Mandor

Molecular characterization and SSR analysis

A total of 91 SSR primers were used for PCR amplification and validation among 38 pearl millet genotypes. Out of 91 SSRs, 72 primers amplified products of varying sizes ranging from 90 to 700 bp and 16 (17.6 %) were monomorphic and 56 (61.5%) were polymorphic (Table 3.2 and Fig. 3.1). A total of 157 alleles were obtained in this study and the number of alleles per locus varied between 2 to 5 with an average of 2.80 alleles**.** Polymorphic Information Content (PIC) varied from 0.37 to 0.79 with an average of 0.59 PIC value.

Table 3.2 Results of SSR primers used for PCR

Markers	**No. of markers**
Number of markers used	91
Number of amplified markers	72
Number of non- amplified markers	19
Number of polymorphic markers	56
Number of monomorphic markers	16

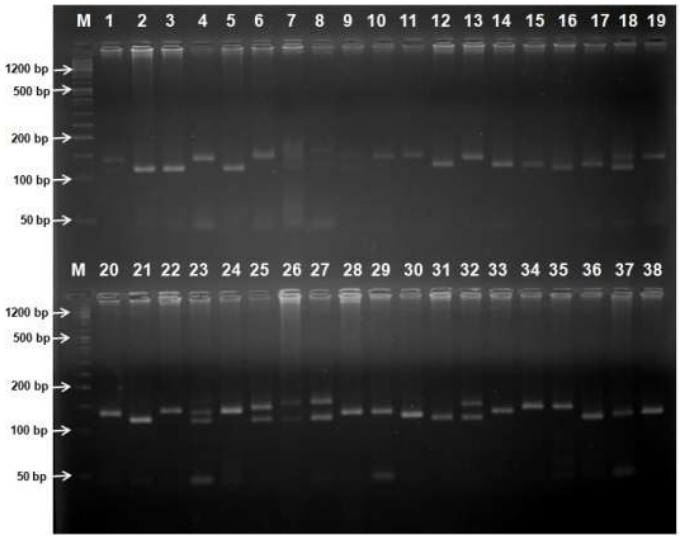


Fig. 3.1 Agarose gel showing amplification profiles of pearl millet lines using the primer IPES 0098. Lane M-50 bp ladder, Lane 1-38 pearl millet lines

Morphological characterization

Observations recorded for days to 50% flowering, effective tillers per plant, plant height, head diameter, head length, seed set (%) etc. Days to 50% flowering ranged from 46 (Dhanshakti) to 61 (406-BCS-25 and MIR 1707). The plant height ranged from 88 cm (HR 24-11) to 211 cm (285 SB 25). Effective tillers per plant ranged from 1.8 (285-SB-25 and 286-SB-25) to 3.3 (MIR 1702). Head length ranged from 14 cm (MIR 1601) to 30 cm (RIB 15195). Head girth ranged from 1.6 cm (MIR 1711) to 3.2 cm (DHLB-CRP-02). The seed set (%) under open pollination condition ranged from 67 (MIR 1707) to 89 (DHLB-CRP-05). Agronomic score ranged from 1.9 (MIR 1601) to 3.8 (DHLB-CRP-05) (Table 3.3).

Table 3.3 Performance of different pearl millet genotypes under field conditions

S. No.	Name of pearl mille line	Days to 50% flowering	Plant Height (cm)	Effective Tiller/plant	Head Leng (cm)	Head Dia Me (cm)	Open Pollination Seed set %	Agronomic Score (1-5), 1=Poor, 5=Excellent
1	PPMI 1257	50	144	2.0	16	2.1	73	2.6
2	PPMI1339	52	137	2.1	26	2.7	72	2.3
3	PPMI 1340	56	165	2.2	16	3.0	84	2.9
4	PPMI 1341	58	162	2.3	17	2.9	75	2.5
5	PPMI 1342	54	161	2.8	23	2.7	84	3.0
6	RIB 15191	48	176	2.5	22	1.9	78	2.6
7	RIB 15192	48	164	2.4	19	2.4	78	2.2
8	RIB 15193	51	172	2.3	22	2.4	86	3.1
9	RIB 15194	55	179	2.8	19	2.2	86	3.4
10	RIB 15195	47	168	2.4	30	1.8	75	2.0
11	DHLB-CRP-01	58	146	2.0	18	2.9	82	2.9
12	DHLB-CRP-02	58	148	2.2	15	3.2	84	3.3
13	DHLB-CRP-03	53	150	2.5	15	3.0	80	2.6
14	DHLB-CRP-04	56	138	2.2	15	2.9	74	2.4
15	DHLB-CRP-05	56	150	2.1	16	2.9	89	3.8
16	DHLB-CRP-06	52	159	2.7	21	3.0	79	3.2
17	DHLB-CRP-07	56	148	2.5	16	3.0	84	3.3
18	DHLB-CRP-08	51	148	2.4	18	2.9	76	2.4
19	HR 24-9	51	150	2.7	17	2.8	78	2.5
20	HR 24-10	50	123	2.8	21	2.0	74	2.3
21	HR 24-11	55	88	2.2	16	2.8	69	2.1
22	HR 24-12	51	133	2.0	16	3.0	79	2.2
23	282-SB-25	56	168	2.0	22	2.6	81	3.0
24	285-SB-25	58	211	1.8	25	2.8	87	3.2
25	286-SB-25	60	190	1.8	22	3.1	83	2.9
26	304-SB-25	59	187	2.0	20	2.6	83	3.1
27	305-SB-25	60	149	2.0	17	2.5	74	2.2
28	391-BCS-25	59	111	2.5	21	2.9	74	2.4
29	394-BCS-25	54	110	2.1	20	2.8	74	2.2
30	406-BCS-25	61	115	2.2	21	2.8	77	3.1
31	419-BCS-25	55	133	2.1	17	3.1	72	2.4
32	426-BCS-25	52	151	2.2	22	3.0	75	2.7
33	MIR 1410	53	146	2.8	19	1.8	78	2.5
34	MIR 1601	48	143	2.6	14	1.7	70	1.9
35	MIR 1702	52	160	3.3	17	1.9	81	2.9
36	MIR 1704	57	109	2.7	15	1.8	71	2.3
37	MIR 1707	61	186	3.1	21	1.7	67	2.1
38	MIR 1711	58	174	3.1	21	1.6	69	2.0

PMPB 4: DNA profiling of identified/advanced hybrid entries of third year testing.

Plant Material

The four advanced hybrid entries (MH 2743, MH 2744, MH 2747 and MH 2758) of third year testing from AHPT I (E) A to AHPT II (E) trial of A_1 zone along with checks (MPMH35, HHB67 Improved, PB1756) and five advanced hybrid entries (MH 2796, MH 2797, MH 2798, MH 2806 and MH 2808) of third year testing from AHT I (L) A to AHT II (L) trial along with two checks (KBH108, MP7878) were used for DNA profiling under this experiment. The entries promoted for third year testing will be later identified for release and hence need DNA profile for submission of proposal. Thus, this experiment is useful for authenticity of identification proposal and can meet the basic requirements of proposal submission.

Genomic DNA isolation and quantification

Good quality genomic DNA having sharp band was successfully isolated from fresh and young leaves of nine advanced hybrid entries, A, B and R lines and five checks as described in PMPB1 and quantified on agarose gel.

DNA profiling using SSRs

For PCR reaction, DNA was diluted accordingly to make available final concentration of 10 ng/µl and amplification reactions were carried out in a volume of 10 µl as described in PMPB 1. A total of 24 SSR primers were used for PCR amplification and DNA fingerprinting of two advanced hybrid entries (MH 2743, MH 2744) of pearl millet. Analysis of MH 2743 along with its parents ICMA 97111, ICMB 97111, MIR2001 and check hybrid MPMH35 using 24 primers displayed a unique profile for these genotypes (Fig. 4.1). Out of the 24 primers used, 17 SSR primers (70.8%) were found to be polymorphic and the amplified products varied in size ranging from 120 to 300 bp. Similarly, analysis of MH 2744, its parents ICMA 92777, ICMB 92777, MIR 525 and check hybrid MPMH35 using 24 primers displayed a unique profile for these genotypes (Fig. 4.2). Out of the 24 primers used, 14 SSR primers (58.3%) were found to be polymorphic and the amplified products varied in size ranging from 120 to 500 bp.

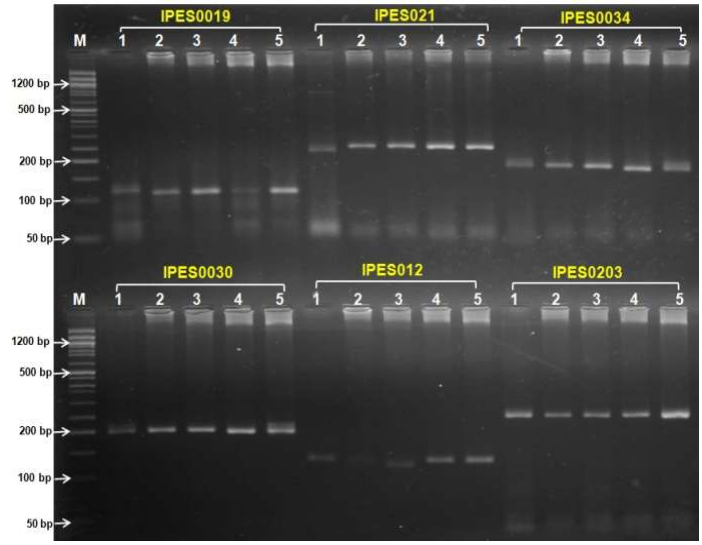


Fig. 4.1 DNA fingerprinting profile of 5 pearl millet genotypes i.e. ICMA 97111 (A-line), ICMB 97111 (B-line), MIR2001 (R-line), hybrid MH 2743 along with check hybrid MPMH35. M-50 bp DNA ladder; Lane 1-ICMA 97111 (A-line); Lane 2- ICMB 97111 (B-line); Lane 3- MIR2001 (R-line); Lane 4- MH 2743 and Lane 5- MPMH35

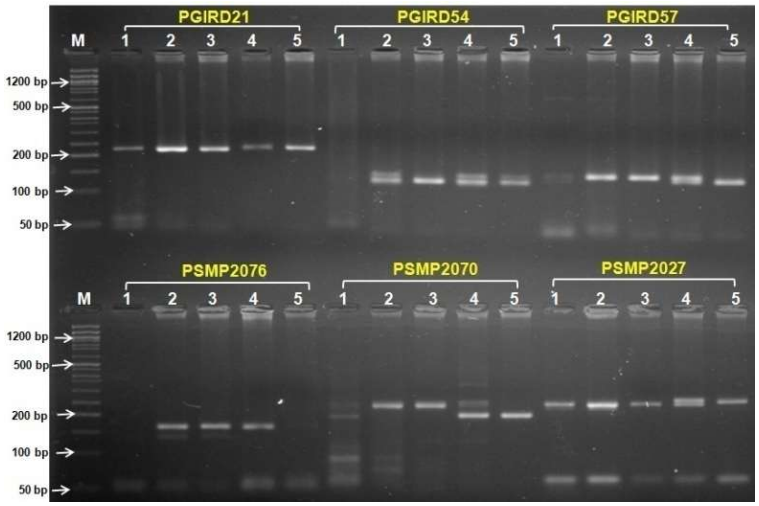


Fig. 4.2. DNA fingerprinting profile of 5 pearl millet genotypes i.e. ICMA 92777 (A-line), ICMB 92777 (B-line), MIR525 (R-line), hybrid MH 2744 along with check hybrid MPMH35. M-50 bp DNA ladder; Lane 1-ICMA 92777 (A-line); Lane 2- ICMB 92777 (B-line); Lane 3- MIR525 (R-line); Lane 4- MH 2744 and Lane 5- MPMH35

A total of 36 SSR primers were used for PCR amplification and DNA profiling of two advanced hybrid pearl millet entries (MH 2747, MH 2758) of third year testing from AHPT I (E) A to AHPT II (E) trial. Analysis of MH 2747 using 36 primers displayed a unique profile for this genotype (Fig. 4.3). Out of the 36 primers used, 17 SSR primers (47.2%) were found polymorphic between the three genotypes and the amplified products varied in size ranging from 120 to 500 bp. Similarly, analysis of MH2758 using the same 36 primers displayed a unique profile for this genotype (Fig.

4.4). Out of the 36 primers used, 25 SSR primers (69.4%) were found polymorphic between the three genotypes and the amplified products varied in size ranging from 110 to 600 bp.

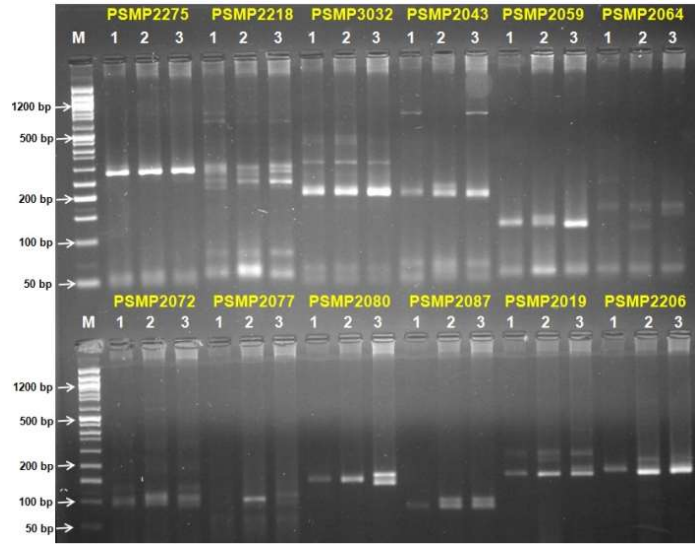


Fig. 4.3. Gel photograph showing SSR allelic profile of MH2747 with 12 SSRs. M-50 bp DNA ladder; Lane 1- HHB67 Improved (Check), 2- PB1756 (Check), 3- MH2747

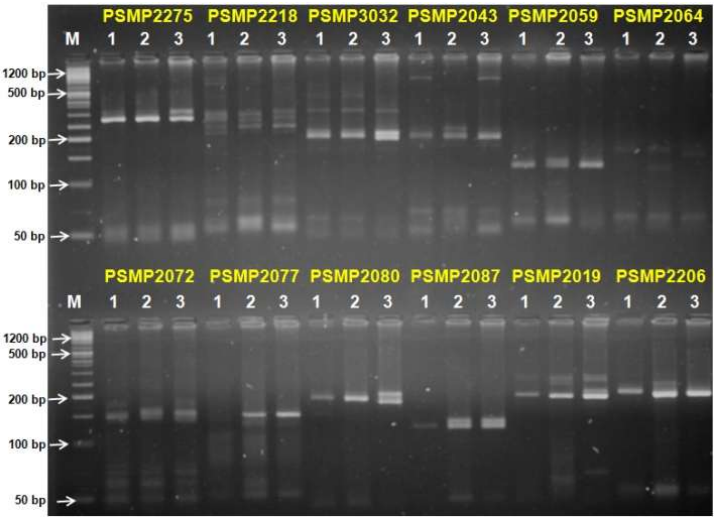


Fig. 4.4. Gel photograph showing SSR allelic profile of MH2758 with 12 SSRs. M-50 bp DNA ladder; Lane 1- HHB67 Improved (Check), 2- PB1756 (Check), 3- MH2758

DNA profiling of 5 advanced hybrid entries (MH 2796, MH 2797, MH 2798, MH 2806 and MH 2808) of third year testing from AHT I (L) A to AHT II (L) was carried out using 36 primers. Analysis of MH2796 using these 36 primers displayed a unique profile for this genotype (Fig. 4.5). Out of the 36 primers used, 25 SSR primers (69.4%) were found polymorphic between the three genotypes and the amplified products varied in size ranging from 100 to 550 bp. Analysis of MH2797 using the same 36 primers displayed a unique profile for this genotype (Fig. 4.6). Out of the 36

primers used, 12 SSR primers (33.3%) were found polymorphic between the three genotypes and the amplified products varied in size ranging from 100 to 550 bp.

Similarly, analysis of MH 2798 using 36 primers displayed a unique profile for this genotype (Fig. 4.7). Out of the 36 primers used, 17 SSR primers (47.2%) namely were found polymorphic between the three genotypes and the amplified products varied in size ranging from 110 to 500 bp. Analysis of MH 2806 using the same 36 primers displayed a unique profile for this genotype (Fig. 4.8). Out of the 36 primers used, 18 SSR primers (50.0 %) namely were found polymorphic between the three genotypes and the amplified products varied in size ranging from 90 to 600 bp. Analysis of MH 2808 using the same 36 primers displayed a unique profile for this genotype (Fig. 9 a, b, c). Out of the 36 primers used, 16 SSR primers (44.4 %) namely were found polymorphic between the three genotypes and the amplified products varied in size ranging from 100 to 500 bp.

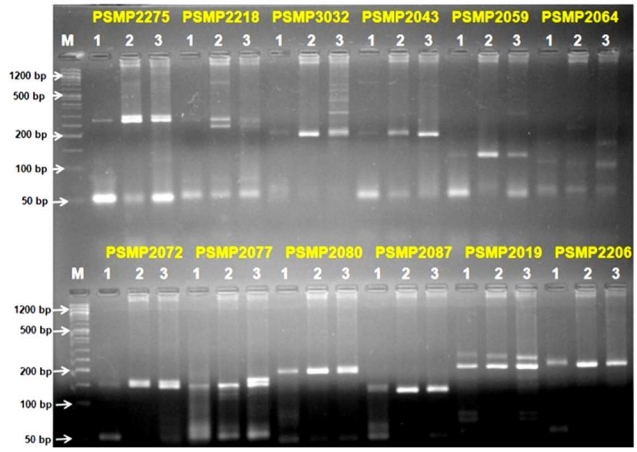


Fig 4.5 Gel photograph showing SSR allelic profile of MH2796 with 12 SSRs. M-50 bp DNA ladder; Lane 1- KBH108 (Check), 2- MP7878 (Check), 3- MH2796

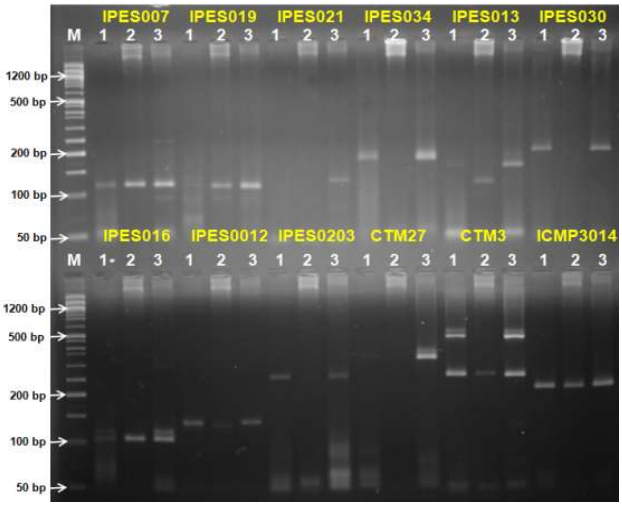


Fig. 4.6 Gel photograph showing SSR allelic profile of MH2797 with 12 SSRs. M-50 bp DNA ladder; Lane 1- KBH108 (Check), 2- MP7878 (Check), 3- MH2797

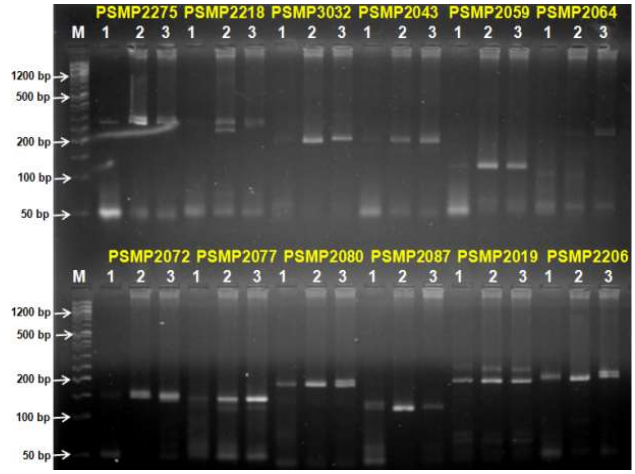


Fig. 4.7 Gel photograph showing SSR allelic profile of MH2798 with 12 SSRs. M-50 bp DNA ladder; Lane 1- KBH108 (Check), 2- MP7878 (Check), 3- MH2798

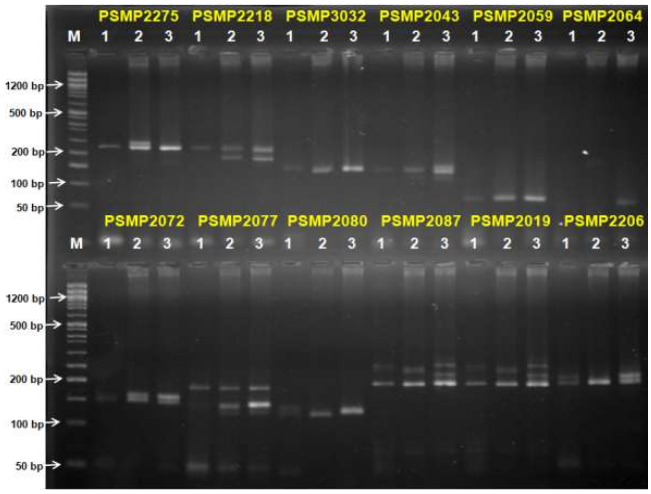


Fig. 4.8 Gel photograph showing SSR allelic profile of MH2806 with 12 SSRs. M-50 bp DNA ladder; Lane 1- KBH108 (Check), 2- MP7878 (Check), 3- MH2806

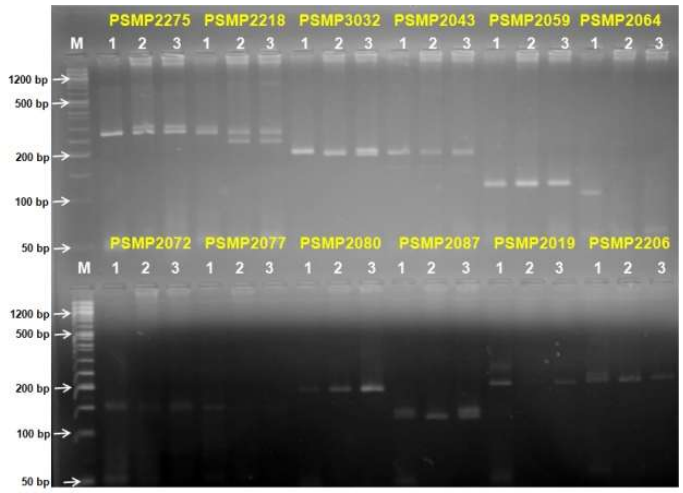


Fig. 4.9 Gel photograph showing SSR allelic profile of MH2808 with 12 SSRs. M-50 bp DNA ladder; Lane 1- KBH108 (Check), 2- MP7878 (Check), 3- MH2808

PMPB 5: Collection, evaluation and molecular characterization of germplasm/landraces in pearl millet.

Plant material: Young leaf samples of 2-3 leaf stage of high/low rancidity genotypes. Young leaf samples of 2-3 leaf stage of high/low rancidity genotypes. A total of 24 pearl millet genotypes collected from NBPGR, Regional Station, Jodhpur were used for molecular characterization under this experiment (Table 5.1). Pearl millet has poor shelf life and rancidity is a major issue. To enhance its keeping quality there is a high need to address the issue of rancidity. Hence, screening of pearl millet landraces having low and high rancidity will be useful for developing superior genotypes.

Genomic DNA isolation and quantification

Good quality genomic DNA having sharp band was successfully isolated from fresh and young leaves of 24 genotypes of pearl millet as described in PMPB1 and quantified on agarose gel.

Table 5.1 List of genotypes used for molecular characterization

S. No.	Name of Genotype	Source
1	IC449443	NBPGR, Regional Station, Jodhpur
2	IC449452	NBPGR, Regional Station, Jodhpur
3	IC449456	NBPGR, Regional Station, Jodhpur
4	IC449462	NBPGR, Regional Station, Jodhpur
5	IC449466	NBPGR, Regional Station, Jodhpur
6	IC449474	NBPGR, Regional Station, Jodhpur
7	IC538001	NBPGR, Regional Station, Jodhpur
8	IC329031	NBPGR, Regional Station, Jodhpur
9	IC329053	NBPGR, Regional Station, Jodhpur
10	IC516582	NBPGR, Regional Station, Jodhpur
11	IC449439	NBPGR, Regional Station, Jodhpur
12	IC537999	NBPGR, Regional Station, Jodhpur
13	IC449442	NBPGR, Regional Station, Jodhpur
14	IC329035	NBPGR, Regional Station, Jodhpur
15	IC537985	NBPGR, Regional Station, Jodhpur
16	IC449469	NBPGR, Regional Station, Jodhpur
17	IC449431	NBPGR, Regional Station, Jodhpur
18	IC537973	NBPGR, Regional Station, Jodhpur
19	IC537983	NBPGR, Regional Station, Jodhpur
20	IC420352	NBPGR, Regional Station, Jodhpur
21	IC420330	NBPGR, Regional Station, Jodhpur
22	IC541019	NBPGR, Regional Station, Jodhpur
23	IC420336	NBPGR, Regional Station, Jodhpur
24	IC449467	NBPGR, Regional Station, Jodhpur

Table 5.2 Results of SSR primers used for PCR

Markers	No. of markers
Number of SSR markers used	123
Number of amplified markers	112
Number of non-amplified markers	11
Number of polymorphic markers	97
Number of monomorphic markers	15

Molecular characterization and SSR analysis

For PCR reaction, DNA was diluted accordingly to make available final concentration of 10 ng/µl and amplification reactions were carried out in a volume of 10 µl as described in PMPB 1. A total of 123 SSR primers were used for PCR amplification and characterization among 24 pearl millet genotypes. Out of 123 SSRs, 112 primers amplified products of varying sizes ranging from 100 to 700 bp and 15 (12.2%) were monomorphic and 97 (78.9%) were polymorphic (Table 5.2, Fig. 5.1). A total of 280 alleles were obtained in this study and the number of alleles per locus varied between 2 to 5 with an average of 2.89 alleles**.** Polymorphic Information Content (PIC) varied from 0.39 to 0.81 with an average of 0.61 PIC value.

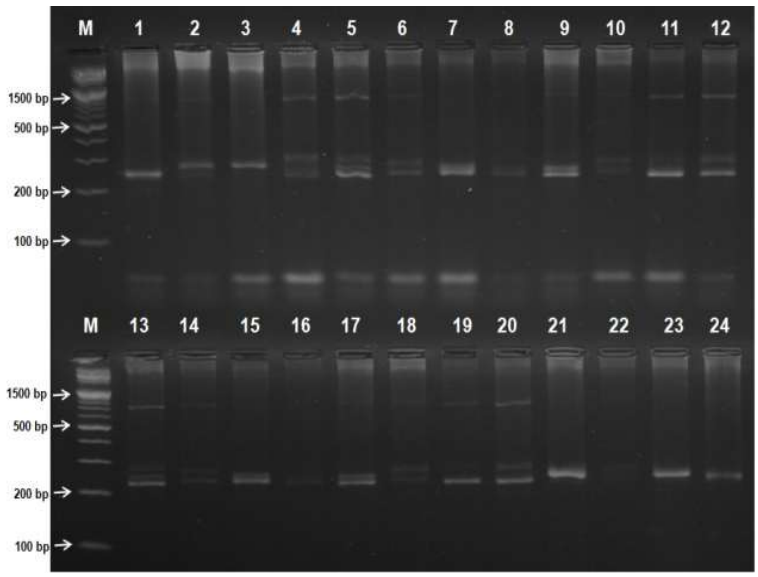


Fig. 5.1 Agarose gel showing amplification profiles of pearl millet genotypes using the primer PSMP 2027. Lane M-100 bp ladder, Lane 1-24 pearl millet lines

Diversity analysis and dendrogram construction

Differences in the DNA banding patterns were qualitatively scored from gel photographs for presence (1) and absence (0) of bands assuming that each band represents a unique genetic locus. Scoring was done for clear, unambiguous amplicons and their sizes were determined by comparing with 50 bp DNA ladder. Based on the presence or absence of amplicons, a binary 1-0 data matrix was created and used to calculate Jaccard's similarity coefficient (Jaccard, 1908). Cluster analysis was carried out among the genotypes based on Jaccard's similarity coefficients using UPGMA (Sneath and Sokal, 1973) and SAHN-clustering algorithm in NTSYS-pc, version 2.02e (Applied Biostatistics) software.

The genetic relationships among the genotypes were consistent and in complete agreement with the available data. The cluster analysis based on SSR markers discriminated well between the genotypes and gave 4major clusters viz., I, II, III and IV with similarity coefficient ranging between 0.37 to 0.68 (Fig. 5.2). Cluster I contained three genotypes viz. IC449443, IC516582 and IC449431 which grouped together at similarity index of 0.37. These genotypes have more than 45 days of 50% days of flowering as well as shown poor germination in A_1 zone indicating that these are not suitable

for A_1 zone. Here, both genotypes IC516582 and IC449431 have 49 days of 50% days of flowering and exhibited closer relationship with each other at a genetic distance of 0.42. Cluster II was obtained at a similarity index of 0.55 containing nine genotypes namely IC449466, IC420330, IC449456, IC329035, IC537983, IC449462, IC541019, IC538001 and IC329053. These are also having more than 45 days of 50% days of flowering and thus are not suitable for A_1 zone. In this cluster, IC449466 and IC420330 were grouped together at genetic distance of 0.62. Similarly, IC449456 and IC329035 exhibited more close similarity and are grouped together at a genetic distance of 0.74. Both genotypes IC538001 and IC329053 having more than 45 days of 50% days of flowering were found to be grouped together at a genetic distance of 0.55.

In cluster III, seven genotypes IC449467, IC537985, IC420336, IC329031, IC449452, IC449439 and IC420352 clustered together at a similarity index of 0.48 where all these germplasms had less than 45 days of 50% days of flowering and thus suitable for A_1 zone. Here, IC449467and IC537985 showed a closer similarity at a genetic distance of 0.68 while IC449439 and IC420352 exhibited similarity at a genetic distance of 059. Cluster IV included five genotypes viz. IC537973, IC537999, IC449474, IC449469 and IC449442 which grouped together at a similarity index of 0.42. These genotypes are having less than 45 days of 50% days of flowering and thus suitable for A_1 zone. Further, in this cluster, IC537973 and IC537999 showed a closer relationship with each other at minimal genetic distances of 0.51 whereas IC449474 and IC449469 grouped closer to each other at a genetic distance of 0.49. It has been proved that SSRs can be suitable and efficient tool for molecular characterization of many plant species including pearl millet. The pearl millet genotypes have been successfully characterized and the information revealed through this study is very useful and can be further used in breeding programmes.

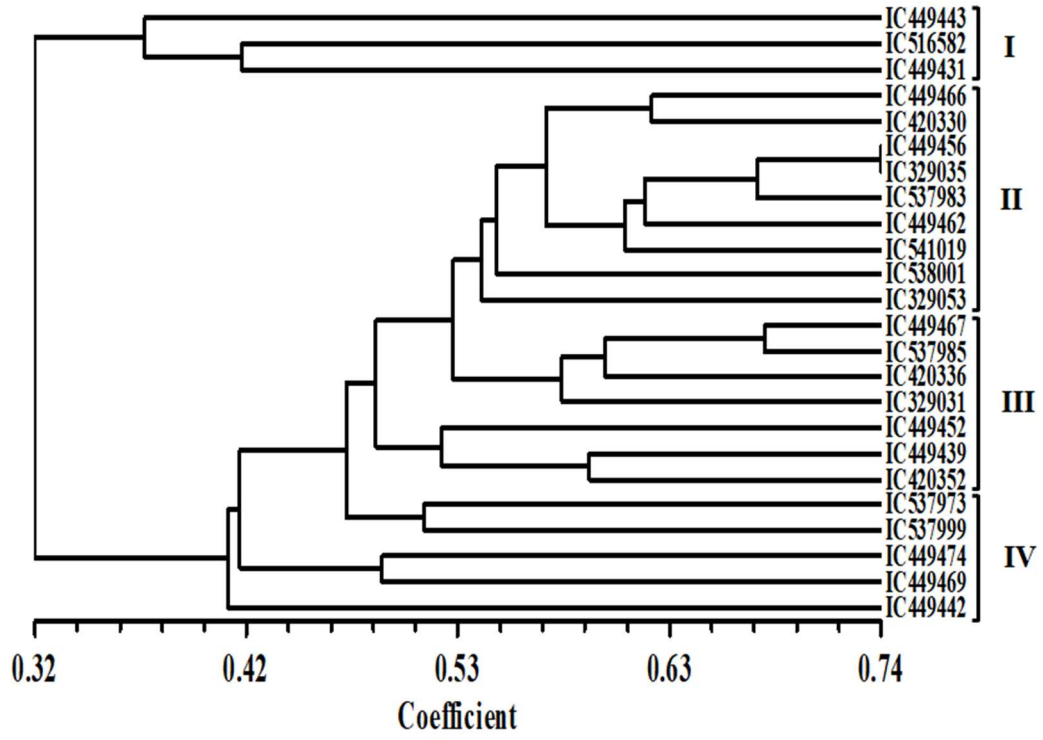


Fig. 5.2. UPGMA dendrogram showing genetic relationship among pearl millet genotypes based on Jaccard's similarity coefficients using SSR markers.

Morphological characterization

Observations recorded for days to 50% flowering, plant height, total tillers per plant, panicle length, panicle girth, grain yield/ plot, fodder yield/ plot, plant stand, effective tillers per plant and test weight. Days to 50% flowering ranged from 41 (IC449452 and IC420336) to 49 (IC516582 and IC449431). Plant height ranged from 137 cm (IC449431) to 232 cm (IC537999). Total tillers per plant varied from 1.4 (IC420336) to 4.2 (IC449467 and IC449474). Panicle length ranged from 21 cm (IC449469 and IC538001) to 37.5 cm (IC449466). Panicle girth ranged from 1.0 cm (IC449462) to 2.5 cm (IC449443). Grain yield/ plot ranged from 34g (IC449443) to 379 g (IC516582). Fodder yield/ plot ranged from 135g (IC449443) to 995 g (IC420336). Plant stand varied from 2 (IC449443 and IC329053) to 23 (IC420336). Effective tillers/plant ranged from 1.1 (IC537983 and IC420336) to 3.2 (IC538001). Test weight varied between 6.9 (IC420336) to 11.3 (IC449443) (Table 5.3).

Table 5.3 Performance of different pearl millet lines under field conditions

S. No.	Name of Germplasm	Days to 50% flowering	Plant height (cm)	Total tillers/ plant	Panicle length (cm)	Panicle girth (cm)	Grain yield/ plot (g)	Fodder yield/ plot (g)	Plant stand	Effective tillers/ plant	Test weight (g)
1	IC449443	46	163	2.0	30.0	2.5	34	135	2	2.1	11.3
2	IC449452	41	207	3.2	30.5	1.6	362	590	11	3.0	10.3
3	IC449456	46	157	3.1	23.5	2.5	261	570	10	2.0	9.2
4	IC449462	46	178	3.0	30.0	1.0	260	280	5	2.2	9.8
5	IC449466	46	190	3.2	37.5	1.1	167	235	6	2.2	9.0
6	IC449474	43	217	4.2	26.0	1.8	176	300	5	2.2	7.9
7	IC538001	45	184	2.2	21.0	1.8	365	770	12	3.2	8.8
8	IC329031	44	203	3.3	29.5	1.4	276	620	11	2.0	8.8
9	IC329053	45	207	4.1	27.5	1.6	148	300	2	1.2	8.9
10	IC516582	49	163	3.0	28.5	1.7	379	695	9	2.0	9.5
11	IC449439	44	193	3.1	31.5	2.2	191	255	6	2.1	8.4
12	IC537999	42	232	2.8	35.0	2.3	297	810	15	2.1	8.5
13	IC449442	43	178	2.4	29.0	1.9	351	490	11	2.0	8.5
14	IC329035	47	183	4.1	29.0	1.8	341	710	12	3.1	9.4
15	IC537985	42	188	2.0	25.0	2.3	193	300	5	3.0	8.6
16	IC449469	44	179	3.2	21.0	1.3	273	350	6	1.5	8.6
17	IC449431	49	137	3.2	30.0	1.1	134	240	6	1.2	9.4
18	IC537973	43	194	2.2	22.0	1.6	357	910	13	1.2	9.3
19	IC537983	46	195	2.3	30.5	1.2	265	590	11	1.1	9.2
20	IC420352	42	163	3.1	28.5	1.7	229	810	21	1.2	8.7
21	IC420330	46	196	2.0	33.0	1.6	299	910	14	1.6	7.4
22	IC541019	47	156	3.0	23.0	1.9	310	810	9	1.8	9.8
23	IC420336	41	211	1.4	26.0	2.1	299	995	23	1.1	6.9
24	IC449467	45	164	4.2	23.0	1.9	220	685	13	2.1	8.4

APPENDICES

Appendix I: Rainfall pattern at pearl millet trial locations during crop growth period kharif - 2025

Met. Weeks	Date	RAJ						HAR						GUJ				MP		PUN		DEL	
		MDR		JPR		BKR		FTR		HSR		BWL		JMR		AND		GLR		LDA		NDL	
		RF	RD	RF	RD	RF	RD	RF	RD	RF	RD	RF	RD	RF	RD	RF	RD	RF	RD	RF	RD	RF	RD
6	5 Feb - 11 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	-	-	-	-	-
7	12 Feb - 18 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127	-	-	-	-	-
8	19 Feb - 25 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132	-	-	-	-	-
9	26 Feb - 4 Mar.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	239	-	-	-	-	-
10	5 Mar - 11 Mar.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	91	-	-	-	-	-
11	12 Mar - 18 Mar.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-
12	19 Mar - 25 Mar.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	39	-	-	-	-	-
13	26 Mar - 1 Apr.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	28	-	0	-	-	-
14	2 Apr - 8 Apr.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	32	-	0	-	-	-
15	9 Apr - 15 Apr.	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	82	-	0	-	-	-
16	16 Apr - 22 Apr.	-	-	0	0			-	-	-	-			-	-	-	-	0	-	2	-	-	-
17	23 Apr - 29 Apr.	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	37	-	0	-	-	-
18	30 Apr - 6 May	-	-	7	2	-	-	-	-	-	-	-	-	4	1	-	-	30	-	2	-	-	-
19	7 May - 13 May	-	-	5	3	-	-	-	-	37	1	-	-	11	1	-	-	47	-	11	-	-	-
20	14 May - 20 May	-	-	7	1	-	-	-	-	0	0	-	-	-	-	-	-	3	-	0	-	-	-
21	21 May - 27 May	-	-	12	5	-	-	-	-	16	1	-	-	-	-	0	0	0	-	12	-	-	-
22	28 May - 3 June	-	-	6	2	-	-	14	2	2	0	-	-	-	-	110	2	57	-	30	-	-	-
23	4 June - 10 June	-	-	10	2	-	-	12	1	1	0	-	-	-	-	0	0	13	-	1	-	15	1
24	11 June -17 June	-	-	12	0	-	-	16	2	36	2	-	-	24	1	95	3	-	-	47	-	35	1
25	18 June - 24 June	-	-	160	4	-	-	4	4	11	1	-	-	69	2	197	5	-	-	3	-	61	2
26	25 June - 1 July	26	-	34	3	1	0	32	3	22	2	-	-	49	4	104	7	-	-	128	-	0	1
27	2 July - 8 July	30	-	42	5	13	2	34	4	48	2	37	-	64	4	86	5	-	-	75	-	27	4
28	9 July - 15 July	74	-	70	2	140	5	91	7	135	5	234	-	16	3	78	2	-	-	8	-	113	5
29	16 July - 22 July	86	-	62	4	67	2	11	3	9	1	43	-	31	2	6	1	-	-	93	-	54	5
30	23 July - 29 July	18	-	114	1	11	1	28	3	31	2	70	-	5	1	89	3	-	-	32	-	27	2
31	30 July - 5 Aug.	1	-	73	4	12	1	53	3	128	3	61	-			5	1	-	-	50	-	150	6
32	6 Aug - 12 Aug.	0	-	0	0	0	0	1	1	0	0	34	-	8	1	0	0	-	-	47	-	109	2
33	13 Aug - 19 Aug.	6	-	6	1	0	0	8	2	7	1	17	-	63	4	24	3	-	-	41	-	124	6
34	10 Aug - 26 Aug.	52	-	191	6	55	2	61	4	63	2	192	-	67	5	106	5	-	-	116	-	57	5
35	27 Aug - 2 Sept.	88	-	119	4	22	1	108	3	144	5	181	-	2		81	4	-	-	195	-	65	7
36	3 Sept - 9 Sept.	32	-	96	2	4	0	24	5	61	4	173	-	105	4	112	5	-	-	49	-	77	6
37	10 Sept - 16 Sept.	0	-	0	0	0	0	0	0	0	0	-	-	-	-	0	0	-	-	0	-	0	0
38	17 Sept - 23 Sept.	0	-	0	0	0	0	0	0	0	0	3	-	-	-	37	3	-	-	0	-	0	1
39	24 Sept - 30 Sept.	3	-	0	0	0	0	62	1	0	0	-	-	123	2	9	1	-	-	1	-	0	0
40	1 Oct - 7 Oct.	18	-	-	-	39	2	56	5	78	4	39	-	40	4	37	2	-	-	52	-	47	2
41	8 Oct - 14 Oct.	0	-	-	-	0	0	0	0	0	0	37	-	-	-	0	0	-	-	0	-	44	3
42	15 Oct - 21 Oct.	0	-	-	-	0	0	0	0	0	0	-	-	-	-	0	0	-	-	0	-	0	0
43	22 Oct - 28 Oct.	4	-	-	-	0	0	0	0	0	0	-	-	10	1	94	2	-	-	0	-	0	0
44	29 Oct - 4 Nov.	1	-	-	-	0	0	0	0	3	1	-	-	20	1	29	3	-	-	-	-	0	0

Contd…

Appendix I: Rainfall pattern at pearl millet trial locations during crop growth period kharif - 2025

Met. Weeks	Date	MS				KS		AP		TN	
		ABD1		DHL		VYP		APR		CBE	
		RF	RD	RF	RD	RF	RD	RF	RD	RF	RD
6	5 Feb - 11 Feb.	0	0	-	-	0	0	-	-	0	0
7	12 Feb - 18 Feb.	0	0	-	-	0	0	-	-	0	0
8	19 Feb - 25 Feb.	0	0	-	-	0	0	-	-	0	0
9	26 Feb - 4 Mar.	0	0	-	-	0	0	-	-	0	0
10	5 Mar - 11 Mar.	0	0	-	-	0	0	-	-	0	0
11	12 Mar - 18 Mar.	0	0	-	-	0	0	-	-	28	2
12	19 Mar - 25 Mar.	0	0	-	-	0	0	-	-	0	0
13	26 Mar - 1 Apr.	0	0	-	-	1	0	-	-	0	0
14	2 Apr - 8 Apr.	8	1	-	-	1	0	-	-	74	2
15	9 Apr - 15 Apr.	0	0	-	-	14	1	-	-	2	0
16	16 Apr - 22 Apr.	0	0	-	-	0	0	-	-	0	0
17	23 Apr - 29 Apr.	0	0	-	-	7	1	-	-	0	0
18	30 Apr - 6 May	3	1	-	-	0	0	-	-	38	2
19	7 May - 13 May	0	0	-	-	0	0	-	-	4	1
20	14 May - 20 May	26	3	-	-	101	5	-	-	60	2
21	21 May - 27 May	70	4	-	-	40	3	-	-	77	4
22	28 May - 3 June	0	0	-	-	45	3	17	1	15	3
23	4 June - 10 June	1	0	5	1	54	2	9	1	1	0
24	11 June -17 June	46	4	33	2	40	2	41	3	24	3
25	18 June - 24 June	12	1	19	2	3	0	0	0	11	1
26	25 June - 1 July	30	4	67	2	7	1	2	0	6	1
27	2 July - 8 July	28	5	22	3	2	0	1	0	1	0
28	9 July - 15 July	15	2	25	2	13	2	1	0	0	0
29	16 July - 22 July	9	1	0	0	127	5	22	2	6	0
30	23 July - 29 July	92	3	35	2	7	0	2	0	8	1
31	30 July - 5 Aug.	0	0	4	1	1	0	22	2	67	2
32	6 Aug - 12 Aug.	61	5	5	1	244	4	109	5	0	0
33	13 Aug - 19 Aug.	110	4	150	4	31	4	18	4	4	0
34	20 Aug - 26 Aug.	3	0	10	2	6	1	2	0	0	0
35	27 Aug - 2 Sept.	49	1	116	4	22	2	7	1	8	1
36	3 Sept - 9 Sept.	18	1	41	3	18	2	3	1	2	0
37	10 Sept - 16 Sept.	62	2	30	2	46	4	80	2	18	1
38	17 Sept - 23 Sept.	122	6	87	3	55	5	28	2	29	2
39	24 Sept - 30 Sept.	133	2	67	4	69	5	1	0	0	0
40	1 Oct - 7 Oct.	0	0	3	1	20	2	0	0	7	2
41	8 Oct - 14 Oct.	0	0	25	1	0	0	50	2	16	1
42	15 Oct - 21 Oct.	15	1	0	0	0	0	9	1	96	6
43	22 Oct - 28 Oct.	40	3	76	3	21	1	72	4	8	2
44	29 Oct - 4 Nov.	26	3	105	4	5	1	2	0	1	0

Appendix II: Temperature (°C) at pearl millet trial locations during crop growth period kharif - 2025

Met. Weeks	Date	RAJ						HAR						GUJ				MP		PUN		DEL	
		MDR		JPR		BKR		FTR		HSR		BWL		JMR		AND		GLR		LDA		NDL	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
6	5 Feb - 11 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	14	29	-	-	26	35	-	-	-	-
7	12 Feb - 18 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	17	31	-	-	26	34	-	-	-	-
8	19 Feb - 25 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	18	33	-	-	26	34	-	-	-	-
9	26 Feb - 4 Mar.	-	-	15	29	-	-	-	-	-	-	-	-	20	33	-	-	26	35	-	-	-	-
10	5 Mar - 11 Mar.	-	-	12	31	-	-	-	-	-	-	-	-	18	35	-	-	26	32	-	-	-	-
11	12 Mar - 18 Mar.	-	-	16	34	-	-	-	-	-	-	-	-	20	35	-	-	27	35	-	-	-	-
12	19 Mar - 25 Mar.	-	-	14	33	-	-	-	-	-	-	-	-	20	36	-	-	27	35	-	-	-	-
13	26 Mar - 1 Apr.	-	-	18	37	-	-	-	-	-	-	-	-	19	34	-	-	26	33	14	27	-	-
14	2 Apr - 8 Apr.	-	-	23	38	-	-	-	-	-	-	-	-	22	39	-	-	26	35	17	36	-	-
15	9 Apr - 15 Apr.	-	-	22	39	-	-	-	-	-	-	-	-	24	36	-	-	25	34	22	37	-	-
16	16 Apr - 22 Apr.	-	-	23	40	-	-	-	-	-	-	-	-	24	36	-	-	26	37	24	39	-	-
17	23 Apr - 29 Apr.	-	-	22	40	-	-	-	-	-	-	-	-	24	38	-	-	25	37	21	40	-	-
18	30 Apr - 6 May	-	-	23	37	-	-	-	-	-	-	-	-	26	38	-	-	25	37	24	36	-	-
19	7 May - 13 May	-	-	23	38	-	-	-	-	23	38	-	-	26	35	-	-	24	34	24	37	-	-
20	14 May - 20 May	-	-	26	42	-	-	-	-	27	43	-	-	27	36	-	-	18	32	28	42	-	-
21	21 May - 27 May	-	-	26	42	-	-	-	-	26	38	-	-	28	36	28	33	17	34	28	38	-	-
22	28 May - 3 June	-	-	25	41	-	-	27	39	25	38	-	-	29	38	27	31	19	32	25	39	-	-
23	4 June - 10 June	-	-	23	37	-	-	25	40	26	41	-	-	28	36	27	32	18	27	26	40	25	37
24	11 June -17 June	-	-	30	43	-	-	27	42	28	40	-	-	28	36	27	33	-	-	30	41	28	43
25	18 June - 24 June	-	-	24	32	-	-	27	36	28	36	-	-	28	33	26	28	-	-	29	36	27	35
26	25 June - 1 July	26	38	24	34	27	39	26	36	28	35	-	-	27	32	26	29	-	-	28	38	28	36
27	2 July - 8 July	26	38	24	33	26	39	26	36	28	36	23	35	26	32	26	28	-	-	28	34	28	35
28	9 July - 15 July	26	38	23	31	25	35	25	34	25	32	21	31	26	32	27	33	-	-	27	33	26	35
29	16 July - 22 July	25	35	24	30	25	34	27	33	27	33	22	33	27	33	27	33	-	-	28	32	25	33
30	23 July - 29 July	25	36	24	35	27	37	27	36	28	35	22	34	27	32	27	32	-	-	28	34	28	35
31	30 July - 5 Aug.	25	35	23	31	26	35	25	33	26	32	22	32	26	32	26	31	-	-	27	32	28	33
32	6 Aug - 12 Aug.	24	35	24	34	26	37	25	35	27	34	22	34	26	32	27	34	-	-	27	34	28	34
33	13 Aug - 19 Aug.	25	37	25	34	27	37	26	36	27	33	23	34	26	33	26	33	-	-	27	32	26	33
34	10 Aug - 26 Aug.	25	37	22	30	25	34	25	34	26	32	22	33	26	30	25	31	-	-	26	31	27	34
35	27 Aug - 2 Sept.	24	34	22	32	24	34	25	33	26	27	21	32	26	32	26	30	-	-	25	30	26	32
36	3 Sept - 9 Sept.	23	33	21	31	24	33	24	32	26	33	20	23	25	31	25	30	-	-	24	31	25	31
37	10 Sept - 16 Sept.	22	34	24	33	24	35	23	34	26	34	21	36	25	32	26	33	-	-	27	34	27	35
38	17 Sept - 23 Sept.	22	36	24	35	23	37	23	36	25	35	20	37	25	33	26	33	-	-	26	35	27	35
39	24 Sept - 30 Sept.	22	38	23	35	22	36	22	37	25	35	21	36	25	33	26	33	-	-	25	36	26	36
40	1 Oct - 7 Oct.	18	34	-	-	21	34	22	33	22	31	19	32	25	31	25	32	-	-	22	30	25	33
41	8 Oct - 14 Oct.	18	34	-	-	16	32	16	31	18	30	14	30	22	32	21	33	-	-	18	30	20	30
42	15 Oct - 21 Oct.	17	34	-	-	16	35	15	34	19	32	13	33	21	34	21	35	-	-	18	32	18	32
43	22 Oct - 28 Oct.	17	34	-	-	15	34	14	32	17	31	12	31	23	33	24	33	-	-	17	32	19	31
44	29 Oct - 4 Nov.	18	32	-	-	14	33	15	32	16	30	13	31	22	30	24	30	-	-	-	-	19	29

Contd…

Appendix II: Temperature (°C) at pearl millet trial locations during crop growth period kharif - 2025

Met. Weeks	Date	MS				KS		AP		TN	
		ABD1		DHL		VYP		APR		CBE	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
6	5 Feb - 11 Feb.	17	34	-	-	17	34	-	-	18	32
7	12 Feb - 18 Feb.	15	35	-	-	16	34	-	-	18	33
8	19 Feb - 25 Feb.	17	35	-	-	18	35	-	-	20	34
9	26 Feb - 4 Mar.	20	36	-	-	18	35	-	-	22	33
10	5 Mar - 11 Mar.	16	37	-	-	17	36	-	-	21	35
11	12 Mar - 18 Mar.	21	39	-	-	19	37	-	-	22	33
12	19 Mar - 25 Mar.	19	38	-	-	22	37	-	-	23	35
13	26 Mar - 1 Apr.	21	39	-	-	23	38	-	-	22	36
14	2 Apr - 8 Apr.	22	39	-	-	22	37	-	-	22	34
15	9 Apr - 15 Apr.	24	41	-	-	22	38	-	-	22	34
16	16 Apr - 22 Apr.	25	42	-	-	24	40	-	-	23	35
17	23 Apr - 29 Apr.	25	42	-	-	23	38	-	-	22	35
18	30 Apr - 6 May	24	40	-	-	24	40	-	-	22	35
19	7 May - 13 May	23	37	-	-	-	37	-	-	23	35
20	14 May - 20 May	24	37	-	-	-	34	-	-	24	34
21	21 May - 27 May	22	32	-	-	-	29	-	-	23	29
22	28 May - 3 June	23	35	-	-	-	32	25	35	24	30
23	4 June - 10 June	23	37	22	38	-	32	25	36	23	33
24	11 June - 17 June	23	34	22	37	-	30	24	33	23	30
25	18 June - 24 June	22	31	22	33	-	31	25	35	22	31
26	25 June - 1 July	22	30	21	31	-	30	25	35	23	31
27	2 July - 8 July	21	28	21	31	-	30	24	34	24	31
28	9 July - 15 July	21	32	21	32	-	31	24	35	23	33
29	16 July - 22 July	22	33	21	34	22	31	24	33	22	30
30	23 July - 29 July	21	27	21	31	22	28	24	32	22	30
31	30 July - 5 Aug.	22	32	20	31	22	30	24	34	22	32
32	6 Aug - 12 Aug.	21	31	20	34	22	30	22	32	22	30
33	13 Aug - 19 Aug.	21	28	20	31	21	27	22	30	23	29
34	10 Aug - 26 Aug.	21	29	20	31	21	28	22	32	21	32
35	27 Aug - 2 Sept.	21	30	20	30	21	28	23	33	22	31
36	3 Sept - 9 Sept.	21	29	19	29	21	30	22	33	23	32
37	10 Sept - 16 Sept.	21	28	20	31	22	28	23	32	22	32
38	17 Sept - 23 Sept.	21	30	20	32	21	30	23	31	22	31
39	24 Sept - 30 Sept.	20	29	19	31	20	27	22	31	22	31
40	1 Oct - 7 Oct.	20	32	15	32	20	30	23	33	22	32
41	8 Oct - 14 Oct.	18	33	15	32	20	31	22	33	23	33
42	15 Oct - 21 Oct.	20	33	17	33	21	31	22	31	22	30
43	22 Oct - 28 Oct.	21	31	19	32	21	30	22	31	22	29
44	29 Oct - 4 Nov.	19	30	19	30	21	30	21	32	20	32

Appendix III: Humidity (%) at pearl millet trial locations during crop growth period kharif - 2025

Met. Weeks	Date	RAJ								HAR				GUJ				MP		PUN		DEL	
		MDR		JPR		BKR		FTR		HSR		BWL		JMR		AND		GLR		LDA		NDL	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
6	5 Feb - 11 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	28	68	-	-	48	87	-	-	-	-
7	12 Feb - 18 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	31	87	-	-	62	87	-	-	-	-
8	19 Feb - 25 Feb.	-	-	-	-	-	-	-	-	-	-	-	-	27	75	-	-	53	87	-	-	-	-
9	26 Feb - 4 Mar.	-	-	70	77	-	-	-	-	-	-	-	-	35	80	-	-	58	90	-	-	-	-
10	5 Mar - 11 Mar.	-	-	58	71	-	-	-	-	-	-	-	-	15	65	-	-	62	89	-	-	-	-
11	12 Mar - 18 Mar.	-	-	69	78	-	-	-	-	-	-	-	-	24	70	-	-	51	84	-	-	-	-
12	19 Mar - 25 Mar.	-	-	54	71	-	-	-	-	-	-	-	-	23	75	-	-	50	87	-	-	-	-
13	26 Mar - 1 Apr.	-	-	48	61	-	-	-	-	-	-	-	-	15	69	-	-	58	88	22	68	-	-
14	2 Apr - 8 Apr.	-	-	37	63	-	-	-	-	-	-	-	-	17	81	-	-	53	86	20	66	-	-
15	9 Apr - 15 Apr.	-	-	43	67	-	-	-	-	-	-	-	-	38	81	-	-	42	78	27	54	-	-
16	16 Apr - 22 Apr.	-	-	37	71	-	-	-	-	-	-	-	-	34	79	-	-	42	78	24	51	-	-
17	23 Apr - 29 Apr.	-	-	47	68	-	-	-	-	-	-	-	-	29	78	-	-	45	81	11	43	-	-
18	30 Apr - 6 May	-	-	55	76	-	-	-	-	-	-	-	-	37	73	-	-	48	83	30	55	-	-
19	7 May - 13 May	-	-	72	77	-	-	-	-	33	67	-	-	44	73	-	-	59	89	35	62	-	-
20	14 May - 20 May	-	-	56	67	-	-	-	-	21	52	-	-	46	72	-	-	62	87	23	46	-	-
21	21 May - 27 May	-	-	57	75	-	-	-	-	44	72	-	-	47	73	75	48	53	86	32	57	-	-
22	28 May - 3 June	-	-	64	81	-	-	83	93	45	69	-	-	39	72	83	54	66	91	25	53	-	-
23	4 June - 10 June	-	-	65	76	-	-	74	88	24	54	-	-	52	72	78	48	69	88	26	50	53	71
24	11 June - 17 June	-	-	72	75	-	-	82	86	48	67	-	-	56	78	83	57	-	-	35	59	40	65
25	18 June - 24 June	-	-	76	91	-	-	87	93	67	86	-	-	68	85	93	80	-	-	58	77	69	83
26	25 June - 1 July	-	72	86	92	48	77	84	93	64	86	-	-	81	93	94	77	-	-	44	64	66	80
27	2 July - 8 July	-	77	80	91	48	76	77	95	63	87	67	93	79	92	94	80	-	-	67	81	70	85
28	9 July - 15 July	-	80	81	86	62	83	87	92	78	94	71	93	69	88	71	91	-	-	67	79	73	87
29	16 July - 22 July	-	85	88	92	69	86	81	93	68	89	73	93	68	88	63	89	-	-	71	80	73	82
30	23 July - 29 July	-	77	81	90	54	78	78	94	69	89	70	92	73	85	78	93	-	-	69	83	74	86
31	30 July - 5 Aug.	-	81	84	89	58	83	81	93	76	93	76	91	67	82	67	88	-	-	72	87	81	91
32	6 Aug - 12 Aug.	-	71	84	87	43	69	84	90	66	84	59	85	67	82	56	86	-	-	68	82	75	85
33	13 Aug - 19 Aug.	-	78	67	83	50	75	81	92	72	90	69	91	63	92	72	91	-	-	71	85	84	91
34	10 Aug - 26 Aug.	-	88	84	85	64	86	89	95	77	94	71	92	84	94	86	92	-	-	80	85	80	90
35	27 Aug - 2 Sept.	-	91	80	84	63	88	83	94	80	97	79	97	69	88	79	93	-	-	83	89	84	94
36	3 Sept - 9 Sept.	-	86	72	85	63	89	80	94	81	90	70	92	73	90	80	93	-	-	79	91	82	88
37	10 Sept - 16 Sept.	-	78	62	72	48	88	78	94	57	82	50	81	61	89	59	90	-	-	57	83	66	82
38	17 Sept - 23 Sept.	-	74	69	77	47	89	82	94	46	82	47	81	57	86	68	89	-	-	52	85	68	82
39	24 Sept - 30 Sept.	-	81	58	74	46	81	83	95	57	88	57	80	64	87	64	86	-	-	49	85	61	77
40	1 Oct - 7 Oct.	-	80	-	-	49	88	80	93	67	92	62	90	67	89	57	89	-	-	59	83	70	88
41	8 Oct - 14 Oct.	-	61	-	-	40	80	81	93	44	90	47	89	43	83	36	82	-	-	46	89	70	93
42	15 Oct - 21 Oct.	-	58	-	-	28	66	87	90	42	90	34	83	32	69	36	82	-	-	40	89	47	90
43	22 Oct - 28 Oct.	-	78	-	-	30	80	89	93	40	90	44	89	38	73	66	79	-	-	35	89	43	92
44	29 Oct - 4 Nov.	-	78	-	-	37	74	79	95	42	90	59	89	46	90	64	92	-	-	-	-	64	93

Contd…

Appendix III: Humidity (%) at pearl millet trial locations during crop growth period kharif - 2025

Met. Weeks	Date	MS				KS		AP		TN	
		ABD1		DHL		VYP		APR		CBE	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
6	5 Feb - 11 Feb.	38	59	-	-	28	68	-	-	28	82
7	12 Feb - 18 Feb.	35	63	-	-	23	59	-	-	30	82
8	19 Feb - 25 Feb.	31	60	-	-	25	59	-	-	41	90
9	26 Feb - 4 Mar.	25	53	-	-	23	59	-	-	41	81
10	5 Mar - 11 Mar.	27	57	-	-	17	49	-	-	40	88
11	12 Mar - 18 Mar.	32	55	-	-	19	59	-	-	44	86
12	19 Mar - 25 Mar.	34	42	-	-	25	54	-	-	40	82
13	26 Mar - 1 Apr.	38	43	-	-	23	64	-	-	31	78
14	2 Apr - 8 Apr.	31	49	-	-	24	70	-	-	50	87
15	9 Apr - 15 Apr.	25	45	-	-	20	72	-	-	41	85
16	16 Apr - 22 Apr.	23	42	-	-	23	78	-	-	49	85
17	23 Apr - 29 Apr.	22	44	-	-	31	75	-	-	42	84
18	30 Apr - 6 May	28	50	-	-	18	72	-	-	47	84
19	7 May - 13 May	37	65	-	-	31	69	-	-	39	82
20	14 May - 20 May	46	81	-	-	59	90	-	-	58	88
21	21 May - 27 May	68	85	-	-	69	90	-	-	70	81
22	28 May - 3 June	56	77	-	-	52	90	47	75	64	82
23	4 June - 10 June	44	84	37	89	57	87	37	76	47	86
24	11 June - 17 June	61	90	37	91	67	90	40	81	74	86
25	18 June - 24 June	66	83	34	91	62	87	41	78	57	84
26	25 June - 1 July	69	84	33	92	68	89	47	76	58	83
27	2 July - 8 July	85	85	32	91	65	86	47	76	56	72
28	9 July - 15 July	85	69	33	89	56	88	41	77	47	79
29	16 July - 22 July	86	60	35	89	64	92	54	82	60	90
30	23 July - 29 July	89	81	32	89	74	88	52	79	65	81
31	30 July - 5 Aug.	83	48	34	92	63	87	48	81	68	95
32	6 Aug - 12 Aug.	89	78	34	89	67	96	62	83	62	93
33	13 Aug - 19 Aug.	92	84	32	92	80	91	66	86	67	82
34	10 Aug - 26 Aug.	85	73	31	91	67	90	51	83	52	90
35	27 Aug - 2 Sept.	89	54	32	91	73	92	53	80	55	88
36	3 Sept - 9 Sept.	86	65	30	91	55	90	49	82	56	86
37	10 Sept - 16 Sept.	91	58	34	91	74	92	59	84	57	91
38	17 Sept - 23 Sept.	91	78	31	91	73	93	68	84	65	88
39	24 Sept - 30 Sept.	85	73	32	91	70	92	57	84	51	76
40	1 Oct - 7 Oct.	78	66	34	90	62	90	46	80	59	89
41	8 Oct - 14 Oct.	70	50	34	90	49	86	57	87	58	91
42	15 Oct - 21 Oct.	75	59	35	90	47	87	65	91	69	93
43	22 Oct - 28 Oct.	84	66	31	91	59	91	69	92	67	82
44	29 Oct - 4 Nov.	74	64	30	91	54	89	40	87	51	87