

(Revised on 14-09-2021)

# AICRP on Wheat and Barley

## Crop Improvement

### Work Plan 2021-22 (Yield Trials)

**ICAR – Indian Institute of Wheat & Barley Research,  
Karnal (Haryana)**

**National Initial Varietal Trial**  
**NIVT-1A-IR-TS-TAS, 2021-22**

**Conducting centres**

Zone	No.	Centres
NWPZ	11	Delhi, Jammu, Ludhiana, Gurdaspur, Hisar, Karnal, Bulandshahr, Pantnagar, Modipuram, Gwalior, Sriganaganagar
NEPZ	9	Kanpur, Ayodhya, Varanasi, Sabour, RPCAU-Pusa, Ranchi, Kalyani, Coochbehar, Shillongani
<b>Total</b>	<b>20</b>	

**Details of trial entries**

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3419, HD3420, HD3421, HP1974
2.	IWBR, Karnal	5	DBW379, DBW380, DBW381, DBW382, DBW383
3.	Durgapura	3	RAJ4566, RAJ4567, RAJ4568
4.	Ayodhya	1	NW8046
5.	Hisar	3	WH1301, WH1302, WH1303
6.	Kanpur	1	K2101
7.	Ludhiana	5	PBW882, PBW883, PBW884, PBW885, PBW886
8.	Pantnagar	4	UP3101, UP3102, UP3103, UP3104
9.	Varanasi	1	HUW849
10.	Sabour	1	BRW3921
11.	CSSRI, Karnal	1	KRL2002
12.	Coochbehar	1	UBW16
13.	Gwalior	1	RVW4350
14.	Jammu	1	JAUW695
15.	Bio Seed	1	BW17R6045
	<b>Checks</b>	<b>3</b>	<b>DBW187, DBW222, HD3086</b>
<b>Total entries</b>		<b>36(33+3)</b>	

**Experimental details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 150:60:40 (N:P:K)
Time of sowing	: November 1-15
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director.

**National Initial Varietal Trial**  
**NIVT-1B-IR-TS-TAS, 2021-22**

**Conducting centres**

Zone	No.	Centres
NWPZ	11	Delhi, Jammu, Ludhiana, Gurdaspur, Hisar, Karnal, Bulandshahr, Pantnagar, Gwalior, Modipuram, Sriganaganagar
NEPZ	9	Kanpur, Ayodhya, Varanasi, Sabour, RPCAU-Pusa, Ranchi, Kalyani, Coochbehar, Shillongani
<b>Total</b>	<b>20</b>	

**Details of trial entries**

SN	Contributing centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3422, HD3423, HP1975, HI1668
2.	IIWBR, Karnal	4	DBW379, DBW384, DBW385, DBW386
3.	CSSRI, Karnal	1	KRL2020
4.	Durgapura	2	RAJ4569, RAJ4570
5.	Ayodhya	2	NW8044, NW8049
6.	Hisar	2	WH1304, WH1305
7.	Kanpur	3	K2103, K2104, K2105
8.	Ludhiana	4	PBW887, PBW888, PBW889, PBW890
9.	Pantnagar	2	UP3105, UP3106
10.	Ranchi	1	JKW297
11.	Sabour	2	BRW3926, BRW3910
12.	Varanasi	2	HUW850, HUW851
13.	BARC	1	TAW142
14.	Gwalior	1	RVW4353
15.	Nuziveedu Seeds	1	NWS2214
16.	Prayagraj	1	AAI-W49
	<b>Checks</b>	<b>3</b>	<b>DBW187, DBW222, HD3086</b>
<b>Total entries</b>		<b>36 (33+3)</b>	

**Experimental details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 150:60:40 (N: P: K)
Time of sowing	: November 1-15
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**National Initial Varietal Trial**  
**NIVT-2-IR-TS-TAS, 2021-22**

**Conducting centres**

Zone	No.	Centres
CZ	9	Indore, Powarkheda, Durgapura, Jabalpur, Bilaspur, Junagadh, Vijapur, Kota, Udaipur
PZ	7	Niphad, Pune, Akola, Parbhani, Dharwad, Ugar-Khurd, Nippani
<b>Total</b>	<b>16</b>	

**Details of trial entries**

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3424, HI1669, HI1670, HI1671
2.	IIWBR, Karnal	2	DBW387, DBW388
3.	Bilaspur	1	CG1043
4.	Dharwad	2	UAS3020, UAS3021
5.	Durgapura	1	RAJ4575
6.	Gwalior	2	RVW4355, RVW4358
7.	Hisar	1	WH1306
8.	Jabalpur	2	MP3558, MP3559
9.	Ludhiana	1	PBW891
10.	Niphad	2	NIAW4153, NIAW4183
11.	Powarkheda	2	MP1386, MP1387
12.	Pune	4	MACS6811, MACS6809, MACS6808, MACS6815
13.	Akola	1+1	AKAW5100, AKAW 5314
14.	Vijapur	2	GW536, GW537
15.	Junagadh	2	GW540, GW541
16.	Udaipur	1	PWU15
17.	Nuziveedu Seeds	1	NWS2222
18.	NIF	1	BLK-Balaji
	<b>Checks</b>	<b>3</b>	<b>GW322, HI1544, MACS6222</b>
<b>Total entries</b>		<b>36 (33+3)</b>	

**Experimental Details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N: P: K)
Time of sowing	: November 5-15
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**National Initial Varietal Trial  
NIVT-3A-IR-LS-TAS, 2021-22**

**Conducting centres**

Zone	No.	Centres
NWPZ	10	Delhi, Jammu, Ludhiana, Gurdaspur, Hisar, Karnal, Bulandshahr, Pantnagar, Modipuram, Gwalior
NEPZ	9	Kanpur, Ayodhya, Varanasi, Sabour, RPCAU-Pusa, Ranchi, Kalyani, Coochbehar, Shillongani
<b>Total</b>	<b>19</b>	

**Details of trial entries**

SN	Contributing centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3425, HD3426, HD3427, HD3428
2.	IIWBR, Karnal	5	DBW389, DBW390, DBW391, DBW392, DBW393
3.	Durgapura	3	RAJ4572, RAJ4573, RAJ4574
4.	Ayodhya	2	NW8040, NW8045
5.	Hisar	3	WH1307, WH1308, WH1309
6.	Kanpur	3	K2107, K2108, K2109
7.	Ludhiana	5	PBW892, PBW893, PBW894, PBW895, PBW896
8.	Pantnagar	3	UP3108, UP3109, UP3110
9.	Ranchi	1	JKW298
10.	Varanasi	1	HUW852
11.	Sabour	1	BRW3923
12.	Prayagraj	1	AAI-W42
	<b>Checks</b>	<b>4</b>	<b>HD3059, DBW173, HI1563, DBW107</b>
<b>Total entries</b>		<b>36 (32+4)</b>	

**Experimental Details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N: P: K)
Time of sowing	: December 5-15
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries, etc. will be invalid if not approved by the Director

**National Initial Varietal Trial  
NIVT-3B-IR-LS-TAS, 2021-22**

**Conducting centres**

Zone	No.	Centres
CZ	10	Indore, Powarkheda, Jabalpur, Sagar, Bilaspur, Raipur, Junagadh, Vijapur, Durgapura, Udaipur
PZ	7	Dharwad, Niphad, Pune, Parbhani, Akola, Nippani, Ugar-khurd
<b>Total</b>	<b>17</b>	

**Details of trial entries**

SN	Contributing centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HI1672, HI1673, HI1674, HI1675
2.	IIWBR, Karnal	2	DBW394, DBW395
3.	Akola	1	AKAW5104
4.	Bilaspur	1	CG1042
5.	Dharwad	2	UAS3022, UAS3023
6.	Hisar	1	WH1310
7.	Jabalpur	2	MP3556, MP3557
8.	Junagadh	1	GW542
9.	Lok Bharti	1	LOK79
10.	Gwalior	1	RVW4355
11.	Ludhiana	1	PBW897
12.	Niphad	2	NIAW4114, NIAW4120
13.	Powarkheda	1	MP1388
14.	Pune	2	MACS6814, MACS6805
15.	Vijapur	1	GW538
	<b>Checks</b>	<b>2</b>	<b>HD2864, HD2932</b>
<b>Total entries</b>		<b>25 (23+2)</b>	

**Experimental Details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	: 90:60:40 (N: P: K)
Time of sowing	: December 5-15
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries, etc. will be invalid if not approved by the Director

## National Initial Varietal Trial

NIVT-4-IR-TS-TDM, 2021-22

### Conducting centres

Zone	No.	Centres
CZ	10	Powarkheda, Indore, Sagar, Junagadh, Vijapur, SK Nagar, Jabalpur, Bilaspur, Kota, Udaipur
PZ	7	Dharwad, Ugar-Khurd, Nippani, Niphad, Pune, Akola, Parbhani
<b>Total</b>	<b>17</b>	

### Details of trial entries

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	3	HI8841, HI8842, HI8843
2.	IIWBR, Karnal	2	DDW59, DDW60
3.	Dharwad	2	UAS479, UAS480
4.	Ludhiana	2	PDW362, PDW363
5.	Niphad	1	NIDW1485
6.	Powarkheda	2	MPO1389, MPO1390
7.	Pune	2+1	MACS4120, MACS4121, MACS4122
8.	Vijapur	2+1	GW1360, GW1361, GW1364
9.	Udaipur	1+1	PWU18, PWU19
10.	Junagadh	1	GW1363
	<b>Checks</b>	<b>4</b>	<b>HI8713, HI8737, MACS3949, UAS428</b>
Total entries		<b>25 (21+4)</b>	

### Experimental Details

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N: P: K)
Time of sowing	: November 5-15
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**National Initial Varietal Trial  
NIVT-5A-RI-TS-TAS, 2021-22**

**Conducting centres**

Zone	No.	Centres
NWPZ	10	Delhi, Jammu, Gurdaspur, Ludhiana, Hisar, Karnal, Pantnagar, Modipuram, Bulandshahr, Gwalior
NEPZ	9	Ayodhya, Kanpur, RPCAU-Pusa, Varanasi, Sabour, Ranchi, Kalyani, Coochbehar, Shillongani
<b>Total</b>	<b>19</b>	

**Details of trial entries**

SN	Contributing Centres	No. of Entries	Name of entries
1.	IARI, Delhi	4	HD3429, HD3430, HP1976, HI1676
2.	IIWBR, Karnal	4	DBW396, DBW397, DBW398, DBW399
3.	Ayodhya	1	NW8048
4.	Hisar	2	WH1311, WH1312
5.	Jammu	1	JAUW704
6.	Kanpur	1	K2121
7.	Ludhiana	3	PBW898, PBW899, PBW900
8.	Pantnagar	2	UP3111, UP3112
9.	Ranchi	1	JKW292
10.	Sabour	1	BRW3924
11.	Varanasi	1	HUW853
12.	BARC	1	TAW133
	<b>Checks</b>	<b>3</b>	<b>HI1612, K1317, PBW644</b>
<b>Total entries</b>		<b>25 (22+3)</b>	

**Experimental Details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.20m (6 rows)
Irrigations	: Two (pre-sowing & one irrigation at 45-50 DAS)
Fertilizer dose (kg/ha)	: 90:60:40(N:P:K)
Time of sowing	: Oct. 25 - Nov. 5
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director



**National Initial Varietal Trial**  
**NIVT-5B-RI-TS-TAD, 2021-22**

**Conducting centres**

Zone	No.	Centres
CZ	10	Powarkheda, Indore, Sagar, Jabalpur, Bilaspur, Durgapura, Udaipur, Vijapur, Junagadh, Dhandhuka
PZ	10	Dharwad, Bagalkot, Nippani, Niphad, Pune, Akola, Ugar-Khurd, Parbhani, Savalivihir, Bailhongal
<b>Total</b>	<b>20</b>	

**Details of trial entries**

SN	Contributing Centres	No. of Entries	Name of entries
1.	Delhi	5	HI1677, HI1678, HI1679, HI8844(d), HI8845(d)
2.	IIWBR, Karnal	3	DBW397, DBW400, DDW61(d)
3.	Akola	1	WSM253
4.	Bilaspur	1	CG1041
5.	Dharwad	2	UAS3024, UAS481(d)
6.	Jabalpur	1	MP3562
7.	Niphad	2	NIAW4172, NIAW4178
8.	Powarkheda	2	MP1384, MP1385
9.	Pune	2	MACS6797, MACS6801
10.	Vijapur	2	GW539, GW1362(d)
	<b>Checks</b>	<b>4(2A+2D)</b>	<b>DBW110, HI1605, HI8627(d), UAS446(d)</b>
	<b>Total entries</b>	<b>25 (21+4)</b>	

**Experimental Details**

Design	: Simple Lattice
Replication	: Two
Plot size	: 6 x 1.20m (6 rows)
Irrigations	: Two (1 pre-sowing & one irrigation at 40-45 DAS) (Limit of 3 Irrigations in Gujarat)
Fertilizer dose (kg/ha)	: 90:60:40(N:P:K)
Time of sowing	: Oct. 25 – Nov. 05
Seed requirement	: 7.0 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**National Initial Varietal Trial**  
**NIVT-6A-ES-IR-NWPZ/NEPZ, 2021-22**

**Trial conducting centres**

Zone	No.	Centres
NWPZ	12	Delhi, Ludhiana, Ladowal, Gurdaspur, Hisar, Karnal, Modipuram, Bulandshahr, Pantnagar, Bharatpur, Gwalior, Sriganaganagar
NEPZ	7	Kanpur, Ayodhya, Varanasi, Sabour, BISA-Pusa, Ranchi, Kalyani
<b>Total</b>	<b>19</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	4	HD3431, HD3432, HD3433, HI1682
PAU, Ludhiana	4	PBW877, PBW878, PBW879, PBW880
IIWBR, Karnal/BISA	5+2	DBW296, DBW379, DBW380, DBW382, DBW383, DBW403, DBW404
CCSHAU, Hisar	2	WH1313, WH1314
GBPUAT, Pantnagar	2	UP3115, UP3116
RARI, Durgapura	1	RAJ4571
CSA, Kanpur	1	K2001
BAU, Sabour	1	BRW3922
<b>Checks</b>	<b>3</b>	<b>HD3086, DBW187, DBW303</b>
<b>Total</b>	<b>25 (22+3)</b>	

**Experimental details**

Design	: Simple Lattice (5x5)
Replications	: Two
Plot size	: 6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	: October 25- November 5
Seed rate (kg/ha)	: 100
Seed requirement	: 7 Kg per entry

\* **Note:** Two sprays as tank mix-Chlormequat chloride @ 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400 l/ha of water for spraying.

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**National Initial Varietal Trial**  
**NIVT-6B-ES-IR-CZ/PZ, 2021-22**

**Trial conducting centres**

Zone	No.	Centres
CZ	9	Indore, Powarkheda, BISA-Jabalpur, Jabalpur, Bilaspur, Junagadh, Vijapur, Durgapura, Udaipur
PZ	6	Niphad, Pune, Dharwad, Ugar-Khurd, Nashik, Karad
<b>Total =</b>	<b>15 (9+6)</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	3+1	HD3435, HI1680, HI1681, HP1977
PAU, Ludhiana	1	PBW881
IIWBR, Karnal/BISA	2+2	DBW381, DBW401, DBW405, DBW406
Bilaspur	1	CG1044
Jabalpur	2	MP3564, MP3567
Junagadh	2	GW545, GW546
Vijapur	2	GW543, GW544
Powarkheda	1	MP1391
Pune	2	MACS6802, MACS6803
Dharwad	2	UAS3025, UAS3026
Niphad	2	NIAW4040, NIAW4174
<b>Checks</b>	<b>2</b>	<b>GW322, DBW187</b>
<b>Total</b>	<b>25 (23+2)</b>	

**Experimental details**

Design	: Simple Lattice (5x5)
Replications	: Two
Plot size	: 6 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	: 150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	: 1-10 November
Seed rate (kg/ha)	: 100
Seed requirement	: 7 Kg per entry

\* **Note:** Two sprays as tank mix-Chlormequat chloride 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400 l/ha of water for spraying.

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Northern Hills Zone**  
**Advance Varietal Trial, 2021-22**  
**AVT-RF-TS-TAS**

**Trial conducting centres**

State	Centres	Name of the centres
Himachal Pradesh	3	Malan, Shimla, Bajaura
Uttarakhand	3	Almora, Majhera, Gaja
J&K	2	Khudwani, Wadura
Manipur	1	Imphal
<b>Total</b>	<b>9</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
VPKAS, Almora	3	VL2041 <sup>Q*</sup> , VL2043, VL2044
IARI, New Delhi	1	HD3402
<b>Checks</b>	<b>4</b>	<b>VL907, HS507, HPW349, HS562</b>
<b>Total</b>	<b>8 (4+4)</b>	

**Experimental details**

Design	: R.B.D.
Replications	: Six
Plot size	: 3.5 x 1.20m (6 rows)
Fertilizer dose (kg/ha) (N:P:K)	: (60:30:20)
Time of sowing	: October 15-31
Seed rate (kg/ha)	: 100
Seed requirement	: 6 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Northern Hills Zone  
Initial Varietal Trial, 2021-22  
IVT-RF-TS-TAS**

**Trial conducting centres**

State	Centres	Name of the centres
Himachal Pradesh	3	Malan, Shimla, Bajaura
Uttarakhand	3	Almora, Majhera, Gaja
J&K	2	Khudwani, Wadura
Manipur	1	Imphal
<b>Total</b>	<b>9</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Shimla	4	HS688, HS689, HS690, HS691
CSKHPKV, Malan	4	HPW483, HPW484, HPW485, HPW486
VPKAS, Almora	4	VL2047, VL2048, VL2049, VL2050
GBPUA&T, Pantnagar	1	UP3113
SKUAST-K, Khudwani	1	SKW362
<b>Checks</b>	<b>2</b>	<b>HS507, HS562</b>
<b>Total</b>	<b>16 (14+2)</b>	

**Experimental details**

Design	:	R.B.D.
Replications	:	Four
Plot size	:	3.5 x 1.20m (6 rows)
Fertilizer dose (kg/ha)	:	60:30:20 (N:P:K)
Time of sowing	:	Oct. 15-31
Seed rate (kg/ha)	:	100
Seed requirement	:	6 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Northern Hills Zone  
Initial Varietal Trial, 2021-22  
IVT/AVT-RI-LS-TAS**

**Trial conducting centres**

State	Centres	Name of the centres
Himachal Pradesh	3	Shimla, Malan, Bajaura
Uttarakhand	3	Almora, Majhera, Gaja
Manipur	1	Karnal
<b>Total</b>	<b>7</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
CSKPHKV, Malan	3	HPW481, HPW487, HPW488
IARI, RS, Shimla	3	HS692, HS693, HS694
VPKAS, Almora	3	VL3028, VL3029, VL3030
GBPUA&T, Pantnagar	1	UP3114
<b>Checks</b>	<b>2</b>	<b>VL892, HS490</b>
<b>Total</b>	<b>12 (10+2)</b>	

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 3.5 x 1.08m (6 rows)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: December 1-15
Seed rate (kg/ha)	: 125
Seed requirement	: 7 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**North Western Plains Zone  
Advance Varietal Trial, 2021-22  
AVT-IR-TS-TAS**

**Trial conducting centres**

State	No.	Centres
Punjab	4	Ludhiana, Gurdaspur, Rauni, Faridkot
Haryana	4	Hisar, Karnal, Rohtak, Bawal
Rajasthan	1	Sriganganagar
Uttar Pradesh	4	Nagina, Bulandshahr, Modipuram, Ujhani
Uttarakhand	2	Pantnagar, Kashipur
J & K	1	Jammu
MP	1	Gwalior
Delhi	1	Delhi
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	1	HD3386
PAU, Ludhiana	1	PBW826*
<b>Checks</b>	<b>4</b>	<b>HD2967, HD3086, DBW187, DBW222</b>
<b>Total</b>	<b>6 (2+4)</b>	

\* denotes final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 150:60:40 (N:P:K)
Time of sowing	: November 1-15
Seed rate (kg/ha)	: 100
Seed requirement	: 22 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**North Western Plains Zone  
Advance Varietal Trial, 2021-22  
AVT-IR-LS-TAS**

**Trial conducting centres**

State	No.	Centres
Punjab	4	Ludhiana, Gurdaspur, Rauni, Faridkot
Haryana	4	Hisar, Karnal, Rohtak, Bawal
Rajasthan	1	Sriganganagar
Uttar Pradesh	4	Nagina, Bulandshahr, Modipuram, Ujhani
Uttarakhand	2	Pantnagar, Kashipur
J & K	1	Jammu
MP	1	Gwalior
Delhi	1	Delhi
<b>Total</b>	18	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	1	DBW353
<b>Checks</b>	<b>5</b>	<b>HD3059, DBW173, WH1124, PBW771, JKW261(I)</b>
<b>Total</b>	<b>6 (1+5)</b>	

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.16m (12 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: December 5-15
Seed rate (kg/ha)	: 125
Seed requirement	: 22 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*



**North Western Plains Zone  
Advance Varietal Trial, 2021-22  
AVT-RI-TS-TAS**

**Trial conducting centres**

State	No.	Centres
Punjab	3	Ludhiana, Gurdaspur, Balachaur
Haryana	3	Hisar, Karnal, Bawal
Uttar Pradesh	3	Modipuram, Nagina, Bulandshahr
Rajasthan	1	Sriganganagar
Uttarakhand	1	Pantnagar
J&K	1	Jammu
MP	1	Gwalior
Delhi	1	Delhi
<b>Total</b>	<b>14</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	2	DBW358, DBW359
HAU, Hisar	2	WH1402, WH1403
IARI, Delhi	4	HD3369*, HD3397, HD3400, HD3418
IARI, Indore	2	HI1653*, HI1654*
GBPUAT, Pantnagar	1	UP3090
<b>Checks</b>	<b>6</b>	<b>PBW644, HD3043, NIAW3170, HI1628, DBW296(I), HUW838(I)</b>
<b>Total</b>	<b>17 (11+6)</b>	

\* denotes final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Irrigations	: Two (pre-sowing & one irrigation at 45-50 DAS)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Oct. 25 – Nov. 5
Seed rate (kg/ha)	: 100
Seed requirement	: 18 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**North Eastern Plains Zone  
Advance Varietal Trial, 2021-22  
AVT-IR-TS-TAS**

**Trial conducting centres**

State	No.	Centres
Uttar Pradesh	7	Kanpur, Prayagraj, Araul, Ghaghraghat, Ayodhya, Varanasi, Gorakhpur
Bihar	3	Sabour, Purnea, RPCAU-Pusa
West Bengal	4	Coochbehar, Kalyani, Burdwan, Manikchak
Jharkhand	3	Ranchi, Chianki, Dumka
Assam	1	Shillongani
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
PAU, Ludhiana	2	PBW826 <sup>#*</sup> , PBW852
IARI, Delhi	2	HD3386 <sup>#</sup> , HD3388
<b>Checks</b>	<b>5</b>	<b>HD3249, DBW187, HD3086, HD2967, DBW222(I)</b>
<b>Total</b>	<b>9 (4+5)</b>	

# denotes resistance to wheat blast; \* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 150:60:40 (N:P:K)
Time of sowing	: November 1-15
Seed rate (kg/ha)	: 100
Seed requirement	: 22 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**North Eastern Plains Zone  
Advance Varietal Trial, 2021-22  
AVT-IR-LS-TAS**

**Trial conducting centres**

State	No.	Centres
Uttar Pradesh	7	Kanpur, Prayagraj, Araul, Ghaghraghat, Ayodhya, Varanasi, Gorakhpur
Bihar	3	Sabour, Purnea, RPCAU-Pusa
West Bengal	4	Coochbehar, Kalyani, Burdwan, Manikchak
Jharkhand	3	Ranchi, Chianki, Dumka
Assam	1	Shillongani
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	1	DBW316 <sup>#</sup> *
PAU, Ludhiana	2	PBW833 <sup>*</sup> , PBW835 <sup>Q*</sup>
IARI, Delhi	1	HD3392
<b>Checks</b>	<b>4</b>	<b>HI1563, DBW107, HD3118, HI1621</b>
<b>Total</b>	<b>8 (4+4)</b>	

# denotes resistance to wheat blast; \* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.16m (12 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: December 5-15
Seed rate (kg/ha)	: 125
Seed requirement	: 22 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**North Eastern Plains Zone  
Advance Varietal Trial, 2021-22  
AVT-RI-TS-TAS**

**Trial conducting centres**

State	No.	Centres
Uttar Pradesh	7	Kanpur, Prayagraj, Araul, Ghaghraghat, Ayodhya, Varanasi, Gorakhpur
Bihar	3	Sabour, Purnea, RPCAU-Pusa
West Bengal	4	Coochbehar, Kalyani, Burdwan, Manikchak
Jharkhand	3	Ranchi, Chianki, Dumka
Assam	1	Shillongani
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	1	DBW359
<b>Checks</b>	<b>5</b>	<b>HI1612, K1317, HD3171, HD3293, DBW252</b>
<b>Total</b>	<b>6 (1+5)</b>	

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Irrigation	: Two (pre-sowing & one irrigation at 45-50 DAS)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Oct. 25 – Nov. 5
Seed rate (kg/ha)	: 100
Seed requirement	: 22 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Central Zone**  
**Advance Varietal Trial, 2021-22**  
**AVT-IR-TS-TAD**

**Trial conducting centres**

State	No.	Centres
Gujarat	5	Vijapur, SK Nagar, Anand, Amreli, Junagadh
Madhya Pradesh	5	Jabalpur, Sagar, Powarkheda, Indore, KVK-Ujjain
Chhattisgarh	4	Bilaspur, Raipur, Jagdalpur, Ambikapur
Rajasthan	5	Durgapura, Tabiji, Kota, Udaipur, Mandor
<b>Total</b>	<b>19</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Indore/Delhi	2	HI1650*, HD3441 <sup>B</sup>
IIWBR, Karnal	3	DBW352 <sup>#</sup> , DBW407 <sup>B</sup> , DBW408 <sup>B</sup>
JNKVV, Jabalpur	1	MP3535*
Nuziveedu Seeds	1	NWS2194 <sup>#</sup>
ARI, Pune	1	MACS6768*
SDAU, Vijapur	1	GW547 <sup>B</sup>
<b>Checks</b>	<b>4</b>	<b>GW322, HI1544, GW513(I), HI1636(I)</b>
<b>Total</b>	<b>13 (9+4)</b>	

\* denotes final year entry; # denotes resistance to wheat blast

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: November 5-15
Seed rate (kg/ha)	: 100
Seed requirement	: 18 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Central Zone**  
**Advance Varietal Trial, 2021-22**  
**AVT-RI-TS-TAD**

**Trial conducting centres**

State	No.	Centres
Gujarat	5	Vijapur, Amreli, Dhandhuka, Sanosara, Junagadh
Madhya Pradesh	4	Jabalpur, Powarkheda, Sagar, Indore
Chhattisgarh	4	Bilaspur, Ambikapur, Raipur, Jagdalpur
Rajasthan	3	Durgapura, Udaipur, Mandor
<b>Total</b>	<b>16</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Indore	4	HI8830(d)*, HI1655 <sup>Q</sup> *, HI1665, HI1666
IARI, Delhi	1	HD3401
IWBR, Karnal	3	DBW358, DBW359, DDW55(d) <sup>Q</sup> *
UAS, Dharwad	1	UAS3019
ARI, Pune	1	MACS6795
ARS, Niphad	1	NIAW4028
IGKV, Bilaspur	2	CG1036*, CG1040
SDAU, Vijapur	1	GW532
JNKV, Powarkheda	1	MP1377
<b>Checks</b>	<b>5</b>	<b>HI8627(d), MP3288, DBW110, DDW47(d), HI8823(d)(I)</b>
<b>Total</b>	<b>20 (15+5)</b>	

\* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Irrigations	: Two (pre-sowing & one irrigation at 40-45 DAS (Limit of 3 Irrig. in Gujarat)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Oct. 25 – Nov. 05
Seed rate (kg/ha)	: 100
Seed requirement	: 16 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Peninsular Zone**  
**Advance Varietal Trial, 2021-22**  
**AVT-IR-TS-TAD**

**Trial conducting centres**

State	No.	Centres
Maharashtra	8	Niphad, Pravaranagar, Pune, Akola, Parbhani, Nashik, Dhule, Karad
Karnataka	7	Dharwad, Ugar-Khurd, Arbhavi, Kalloli, Mudhol, Nippani, Mandya
<b>Total</b>	<b>15</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Indore/Delhi	2	HI8826(d)*, HD3442 <sup>B</sup>
UAS, Dharwad	1	UAS3015
ARI, Pune	1	MACS4100(d)*
JNKV, Jabalpur	1	MP3552
JNKV, Powarkheda	1	MP1378
IIWBR-Karnal	1	DBW409 <sup>B</sup>
<b>Checks</b>	<b>5</b>	<b>MACS3949(d), UAS428(d), MACS6222, GW322, DDW48(d)</b>
<b>Total</b>	<b>12 (7+5)</b>	

\* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: November 5-15
Seed rate (kg/ha)	: 100 kg/acre
Seed requirement	: 18 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**Peninsular Zone**  
**Advance Varietal Trial, 2021-22**  
**AVT-IR-LS-TAS**

**Trial conducting centres**

State	No.	Centres
Maharashtra	8	Niphad, Pravaranagar, Pune, Akola, Parbhani, Nashik, Dhule, Karad
Karnataka	7	Dharwad, Ugar-Khurd, Arbhavi, Kalloli, Mudhol, Nippani, Mandya
<b>Total</b>	<b>15</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
JNKV, Powarkheda	1	MP1380 <sup>#</sup>
IIWBR, Karnal	1	DBW320 <sup>#*</sup>
<b>Checks</b>	<b>4</b>	<b>RAJ4083, HD2932, HD3090, HI1633</b>
<b>Total</b>	<b>6 (2+4)</b>	

<sup>#</sup> denotes resistance to wheat blast, <sup>\*</sup> denotes final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6m x 2.16m (12 rows)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Dec. 5-15
Seed rate (kg/ha)	: 125
Seed requirement	: 16 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*



**Peninsular Zone**  
**Advance Varietal Trial, 2021-22**  
**AVT-RI-TS-TAD**

**Trial conducting centres**

State	No.	Centres
Maharashtra	8	Akola, Pune, Niphad, Nashik, Parbhani, Savalivihir, Karad, Dhule
Karnataka	5	Dharwad, Nippani, Bagalkot, Mudhol, Bailhongal
<b>Total</b>	<b>13</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
UAS, Dharwad	1	UAS478(d)
ARS, Niphad	2	NIAW3922, NIAW4028
IARI, Indore	3	HI1665, HI8839(d), HI8840(d)
IIWBR, Karnal	2	DBW358, DBW359
<b>Checks</b>	<b>5</b>	<b>HI1605, NIAW3170, UAS446(d), NIDW1149(d), MP1358(I)</b>
<b>Total</b>	<b>13 (8+5)</b>	

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Irrigations	: Two (pre-sowing & one irrigation at 40-45 DAS)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Oct. 25 – Nov. 5
Seed rate (kg/ha)	: 100
Seed requirement	: 15 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**SPL - HYPT, 2021-22**  
**(IR-ES-TAS-NWPZ/NEPZ)**

**Trial conducting centres**

Zone	No.	Centres
NWPZ	12	Delhi, Ludhiana, Gurdaspur, Ladowal, Hisar, Karnal, Bulandshahr, Pantnagar, Bharatpur, Modipuram, Sriganganagar, Gwalior
NEPZ	07	Kanpur, Ayodhya, Varanasi, Sabour, BISA-Pusa, Ranchi, Kalyani
<b>Total</b>	<b>19</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	5	DBW318 <sup>#</sup> , DBW370 <sup>*</sup> , DBW371 <sup>*</sup> , DBW372 <sup>#*</sup> , DBW373 <sup>#</sup>
PAU, Ludhiana	3	PBW872 <sup>*</sup> , PBW871, PBW868 <sup>#</sup>
<b>Checks</b>	<b>5</b>	<b>HD3086, DBW187, DBW303, DBW327(I), DBW332(I)</b>
<b>Total</b>	<b>13 (8+5)</b>	

# denotes resistance to wheat blast; \* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	: Oct. 25 – Nov. 5
Seed rate (kg/ha)	: 100
Seed requirement	: 16 Kg per entry + Agronomy 22kg

\* **Note:** Two sprays as tank mix-Chlormequat chloride @ 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400L/ha of water for spraying

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**SPL – HYPT, 2021-22**  
**(IR-ES-TAS-CZ/PZ)**

**Trial conducting centres**

Zone	No.	Centres
CZ	9	Indore, Powarkheda, Durgapura, BISA-Jabalpur, Jabalpur, Bilaspur, Junagadh, Vijapur, Udaipur
PZ	6	Niphad, Pune, Dharwad, Ugar-Khurd, Nashik, Karad
<b>Total</b>	<b>15</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IIWBR, Karnal	2	DBW372 <sup>#*</sup> , DBW377
PAU, Ludhiana	1	PBW870
<b>Checks</b>	<b>4</b>	<b>HD3086, DBW187, DBW303, GW322</b>
<b>Total</b>	<b>7 (3+4)</b>	

# denotes resistance to wheat blast; \* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 150% RFD+ FYM15 t/ha+ Growth Regulators*
Time of sowing	: 1-10 November
Seed rate (kg/ha)	: 100
Seed requirement	: 16 Kg per entry + Agronomy 18kg

\* **Note:** Two sprays as tank mix-Chlormequat chloride @ 0.2%+ tebuconazole @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application). Use 400L/ha of water for spraying

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**SPL – AST, 2021-22  
(IR-TS-TAS-NWPZ)**

**Trial conducting centres**

State	No.	Centres
Haryana	3	CSSRI-Karnal, Anjanthali, IIWBR-Hisar
UP	1	Agra
Punjab	2	Muktsar, Bhatinda
<b>Total</b>	<b>6</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of Entries
Durgapura	1	RAJ4565
IARI Delhi	1	HD3415
CSSRI Karnal	2	KRL2006, KRL2021
UAS Dharwad	1	UAS310
IIWBR Karnal	3	DBW365, DBW366, DBW402
Checks	3	<b>Kharchia65, KRL19, KRL210</b>
<b>Total</b>	<b>11 (8+3)</b>	

**Experimental details**

Design	:	R.B.D.
Replications	:	Six
Plot size	:	6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	:	120:60:40 (N:P:K) + 10 Kg Zinc Sulphate
Time of sowing	:	1-15 Nov.
Seed rate (kg/ha)	:	100
Seed requirement	:	8 Kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**SPL-MABB - NWPZ**  
**IR-TS-TAS - 2021-22**

**Trial conducting centres**

State	No.	Centres
Punjab	4	Ludhiana, Gurdaspur, Rauni, Faridkot
Haryana	4	Hisar, Karnal, Rohtak, Bawal
Rajasthan	1	Sriganganagar
Uttar Pradesh	4	Nagina, Bulandshahr, Modipuram, Ujhani
Uttarakhand	2	Pantnagar, Kashipur
J & K	1	Jammu
MP	1	Gwalior
Delhi	1	Delhi
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	3	HD3406*, HD3436, HD3437
PAU, Ludhiana	2	PBW901, PBW902
<b>Checks</b>	<b>5</b>	<b>HD2967, DBW187, DBW222, PBW677, PBW175</b>
<b>Total</b>	<b>10 (5+5)</b>	

\* final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 150:60:40 (N:P:K)
Time of sowing	: November 1-15
Seed rate (kg/ha)	: 100
Seed requirement	: 22 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**SPL-MABB - NEPZ  
IR-TS-TAS - 2021-22**

**Trial conducting centres**

State	No.	Centres
Uttar Pradesh	7	Kanpur, Prayagraj, Araul, Ghaghraghat, Ayodhya, Varanasi, Gorakhpur
Bihar	3	Sabour, Purnea, RPCAU-Pusa
West Bengal	4	Coochbehar, Kalyani, Burdwan, Manikchak
Jharkhand	3	Ranchi, Chianki, Dumka
Assam	1	Shillongani
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	5	HD3406*, HD3411*, HD3436, HD3437, HD3440
<b>Checks</b>	<b>5</b>	<b>HD3249, DBW187, HD3086, HD2967, HD2733</b>
<b>Total</b>	<b>10 (5+5)</b>	

final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 150:60:40 (N:P:K)
Time of sowing	: November 1-15
Seed rate (kg/ha)	: 100
Seed requirement	: 22 kg per entry

**Note:** Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director

**SPL-MABB - CZ**  
**IR-TS-TDM - 2021-22**

**Trial conducting centres**

State	No.	Centres
Gujarat	5	Vijapur, SK Nagar, Anand, Amreli, Junagadh
Madhya Pradesh	5	Jabalpur, Sagar, Powarkheda, Indore, KVK-Ujjain
Chhattisgarh	4	Bilaspur, Raipur, Jagdalpur, Ambikapur
Rajasthan	5	Durgapura, Tabiji, Kota, Udaipur, Mandor
<b>Total</b>	<b>19</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Indore	2	HI8846, HI8847
<b>Checks</b>	<b>4</b>	<b>HI8498, HI8713, HI8737, HI8759</b>
<b>Total</b>	<b>6 (2+4)</b>	

\* denotes final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6 x 2.40m (12 rows)
Fertilizer dose (kg/ha)	: 120:60:40 (N:P:K)
Time of sowing	: November 5-15
Seed rate (kg/ha)	: 100
Seed requirement	: 18 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

**SPL-MABB - CZ**  
**IR-LS-TAS - 2021-22**

**Trial conducting centres**

State	No.	Centres
Gujarat	5	Anand, Junagadh, Vijapur, SK Nagar, Sanosara
Madhya Pradesh	5	Indore, Jabalpur, Sagar, Powarkheda, KVK-Ujjain
Chhattisgarh	4	Bilaspur, Ambikapur, Raipur, Jagdalpur
Rajasthan	4	Durgapura, Tabiji, Udaipur, Mandor
<b>Total</b>	<b>18</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	3	HD3407*, HD3438, HD3439
<b>Checks</b>	<b>5</b>	<b>HD2932, HD2864, MP3336, CG1029, HI1634</b>
<b>Total</b>	<b>8 (3+5)</b>	

\* denotes final year entry

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6m x 2.16m (12 rows)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Dec, 5-15
Seed rate (kg/ha)	: 125
Seed requirement	: 18 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*



**SPL-MABB - PZ**  
**IR-LS-TAS, 2021-22**

**Trial conducting centres**

State	No.	Centres
Maharashtra	8	Niphad, Pravaranagar, Pune, Akola, Parbhani, Nashik, Dhule, Karad
Karnataka	7	Dharwad, Ugar-Khurd, Arbhavi, Kalloli, Mudhol, Nippani, Mandya
<b>Total</b>	<b>15</b>	

**Details of test entries**

Contributing Centres	No. of entries	Name of entries
IARI, Delhi	2	HD3438, HD3439
<b>Checks</b>	<b>4</b>	<b>RAJ4083, HD2932, HD3090, HI1633</b>
<b>Total</b>	<b>6 (2+4)</b>	

**Experimental details**

Design	: R.B.D.
Replications	: Four
Plot size	: 6m x 2.16m (12 rows)
Fertilizer dose (kg/ha)	: 90:60:40 (N:P:K)
Time of sowing	: Dec. 5-15
Seed rate (kg/ha)	: 125
Seed requirement	: 16 kg per entry

*Note: Change in test sites, date of sowing, trial entries etc. will be invalid if not approved by the Director*

## **CI - Final Year Entries and Checks (2021-22)**

Entry	Checks
<b>AVT-RF-TS-TAS - North Hill Zone</b>	
VL2041 <sup>Q*</sup>	VL907, HS507, HPW349, HS562
<b>AVT-IR-TS-TAS - North Western Plains Zone</b>	
PBW826*, HD3406 <sup>M*</sup>	DBW187, DBW222, HD3086, HD2967
<b>AVT-RI-TS-TAS - North Western Plains Zone</b>	
HD3369*, HI1653*, HI1654*	PBW644, HD3043, NIAW3170, HI1628, DBW296(I), HUW838(I)
<b>AVT-IR-TS-TAS - North Eastern Plains Zone</b>	
PBW826#*, HD3406 <sup>M*</sup> , HD3411 <sup>M*</sup>	HD3249, HD3086, HD2967, DBW187, HD2733
<b>AVT-IR-LS-TAS - North Eastern Plains Zone</b>	
DBW316#*, PBW833*, PBW835 <sup>Q*</sup>	HI1563, HI1621, DBW107, HD3118
<b>AVT-IR-TS-TAD – Central Zone</b>	
HI1650*, MP3535*, MACS6768*	GW322, HI1544, GW513(I), HI1636(I)
<b>AVT-IR-LS-TAS – Central Zone</b>	
HD3407 <sup>MQ*</sup>	HD2932, HD2864, MP3336, CG1029, HI1634
<b>AVT-RI-TS-TAD – Central Zone</b>	
HI8830(d)*, CG1036*, HI1655 <sup>Q*</sup> , DDW55(d) <sup>Q*</sup>	HI8627(d), MP3288, DBW110, DDW47(d), HI8823(I)
<b>AVT-IR-TS-TAD – Peninsular Zone</b>	
HI8826(d)*, MACS4100(d)*	MACS3949(d), DDW48(d), GW322
<b>AVT-IR-LS-TAS – Peninsular Zone</b>	
DBW320#*	RAJ4083, HD2932, HD3090, HI1633
<b>SPL-HYPT-IR-ES-TAS-NWPZ/NEPZ</b>	
DBW370*, DBW371*, DBW372#*, PBW872*	DBW187, DBW303, HD3086, DBW327(I), DBW332(I)
<b>SPL-HYPT-IR-ES-TAS-CZ/PZ</b>	
DBW372#*	DBW187, DBW303, GW322

**Note:** Varieties recommended by VIC have been included as identified checks in respective trial(s).

## National Genetic Stock Nursery (NGSN)

### Conducting Centres

Zone	No	Centres
NHZ	3	Almora, Malan, Khudwani
NWPZ	7	IIWBR-Karnal, CSSRI-Karnal, Jammu, Hisar, Pantnagar, Ludhiana, Gwalior
NEPZ	10	Ayodhya, Kanpur, Varanasi, Sabour, RPCAU-Pusa, Ranchi Coochbehar, Kalyani, Burdwan, Shillongani
CZ	8	Indore, Jabalpur, Udaipur, Durgapura, Vijapur, Bilaspur, Junagadh, Lok-Bharti
PZ	5	Pune, Dharwad, Akola, Niphad, Parbhani
<b>Total</b>	<b>33</b>	

### Details of entries & Checks

NGSN consists latest released/identified varieties, genetic stocks, confirmed elite lines from national nurseries, proven elite lines (with 3 years testing and/or published information)	
<b>Contributing Centres</b>	Dharwad, IARI-New Delhi, IIWBR-Karnal, PAU-Ludhiana, CCHAU-Hisar, Vijapur, BARC, Pantnagar, NBPGR, N. Delhi
<b>Checks</b>	<b>Total=04:</b> Sonalika, HD 2967, DBW 187, HI 8713 (d)
<b>Total</b>	<b>100 (96+4)</b>

### Experimental details

Design	: Augmented Block Design
Plot size	: 02 row plot of 2.5m length spaced at 20cm apart (1.0 m <sup>2</sup> )
Fertilizer dose (kg/ha)	: As recommended
Time of sowing	: <b>NWPZ/NEPZ:</b> November 1-15; <b>CZ / PZ:</b> November 5-20
Seed requirement	: 750g seed of each entry; 2.0 kg check varieties

**Observations:** Grain yield/plot (g), days to heading, days to maturity, plant height, tillers/m row, 1000 grains weight, rusts, leaf blight, powdery mildew, loose smut, other diseases (artificial epiphytotic conditions)

**Utilization report:** 1. As donor in hybridization 2. direct selection 3. germplasm enrichment (trait)

## 25<sup>th</sup> Segregating Stock Nursery (SSN)

### Conducting Centres

Zone	No.	Centres
NHZ	2	Khudwani, Wadura
NWPZ	6	Jammu, Hisar, Pantnagar, Gwalior, Sriganaganagar, Modipuram
NEPZ	8	Coochbehar, Ayodhya, Kalyani, Ranchi, Sabour, RPCAU-Pusa, Shillongani, Burdwan
CZ	7	Bilaspur, Jabalpur, Durgapura, Udaipur, Lok-Bharati, Junagadh, Vijapur
PZ	4	Akola, Parbhani, Pune, Dharwad
<b>Total</b>	<b>27</b>	

### Details of cross combinations

Contributing Centres	No. of crosses	Priority trait(s)
IIWBR Karnal	50	Yellow rust, spot blotch, quality, abiotic stress, pre-breeding
IARI, Delhi	50	Yield, adaptation, pre-breeding, quality, leaf rust, stem rust
Ludhiana	30	Yellow rust, quality, adaptation, KB, pre-breeding
Hisar	20	Leaf rust, drought, heat, adaptation
Pantnagar	20	Yellow rust, leaf rust, heat, KB, quality
Almora	10	Winter x spring
Pune	10	Stem rust, quality, heat, drought, pre-breeding
Vijapur	10	Heat, short duration, bold grain, quality
<b>Total</b>	<b>200</b>	

### Experimental details

Design	: Augmented Block Design
Plot size	: 4 row plot of 2.5 m length spaced at 20cm apart
Fertilizer dose (kg/ha)	: As recommended for the centre
Time of sowing	: November 1-15
Seed requirement	: 250g seed for each cross combination

**Utilization Report:** No. of cross combinations / plants selected (Selected / preferred traits).

## Quality Component and Wheat Biofortification Nursery (QCWBN)

### Conducting Centres

Zone	No.	Centres
NWPZ	5	Karnal, Delhi, Ludhiana, Hisar, Pantnagar
NEPZ	5	Kanpur, Sabour, Varanasi, Ranchi, RPCAU-Pusa
CZ	4	Indore, Vijapur, Powarkheda, Jabalpur
PZ	4	Dharwad, Pune, Niphad, Akola
<b>Total</b>	<b>18</b>	

### Details of Entries

SN	Contributing Centers	No. of Entries	Name of Entries
1	Karnal	<b>50</b>	Total 250 genotypes received for QCWBN were analysed for grain Fe and Zn through high through-put XRF facility and 50 better performing entries with high Fe and Zn will be included for multilocation testing across zones.
2	Ludhiana		
3	Dharwad		
4	Pantnagar		
5	Delhi		
6	Jabalpur		
7	Vijapur		
8	Bilaspur		
9	Pune		
10	Akola		
11	Parbhani		
<b>Checks</b>		6	DBW187, DBW222, GW322, WB02, RAJ4083, IC427824 (High Zn)
<b>Total Entries</b>		56 (50+6)	

### Experimental details

Design	: Augmented Block Design
Plot size	: 4 x 1.20m (6 rows); 4.8m <sup>2</sup>
Fertilizer dose (kg/ha)	: 150:60:40 (N:P:K)
Time of sowing	: November 1-15
Seed requirement	: Biofortification: 2.5 kg per entry

**Note:** Change in test sites, trial entries, checks etc. will be invalid if not approved by the Director.

## International Trials & Nurseries (2021-22)

### CIMMYT

Trial /Nursery	Sets	Cooperating centres
42 <sup>nd</sup> ESWYT	14	Ludhiana, Hisar, Indore, Pantnagar, Jabalpur, Powarkheda, Niphad, Dharwad, Karnal, Delhi, Gwalior, Kanpur, RPCAU-Pusa, Vijapur
29 <sup>th</sup> HRWYT	2	Karnal, Shillongani
20 <sup>th</sup> HTWYT	20	Ludhiana, Hisar, Indore, Pune, Jabalpur, Vijapur, Karnal, Powarkheda, Bilaspur, Niphad, Dharwad, Ayodhya, Delhi, Durgapura, Varanasi, Kanpur, Udaipur, RPCAU-Pusa, Junagadh, Wellington
29 <sup>th</sup> SAWYT	18	Ludhiana, Hisar, Indore, Pantnagar, Jabalpur, Vijapur, Powarkheda, Bilaspur, Niphad, Dharwad, Ayodhya, Ranchi, Karnal, Delhi, Durgapura, Varanasi, Kanpur, Parbhani
9 <sup>th</sup> WYCYT	6	Ludhiana, Pantnagar, Dharwad, Karnal, Delhi, Malan
11 <sup>th</sup> SATYN	4	Ludhiana, Dharwad, Karnal, Delhi
3 <sup>rd</sup> CWYT	3	Ludhiana, Delhi, Karnal
54 <sup>th</sup> IBWSN	17	Ludhiana, Hisar, Indore, Pantnagar, Ayodhya, Wellington, Karnal, Delhi, Durgapura, RPCAU-Pusa, Coochbehar, Varanasi, Jammu, Malan, Gwalior, Vijapur, Bilaspur
32 <sup>nd</sup> HRWSN	3	Wellington, Karnal, Shillongani
39 <sup>th</sup> SAWSN	18	Ludhiana, Pune, Hisar, Jabalpur, Powarkheda, Junagadh, Bilaspur, Niphad, Dharwad, Sabour, Ayodhya, Ranchi, Karnal, Delhi, Durgapura, Kanpur, RPCAU-Pusa, Vijapur
16 <sup>th</sup> STEMRSN	4	Karnal, Mahabaleshwar, Wellington, Delhi
13 <sup>th</sup> HLBSN	8	Karnal (2 set), Ayodhya, Varanasi, Sabour, Coochbehar, Delhi, RPCAU-Pusa
23 <sup>rd</sup> KBSN	6	Karnal (2sets), Hisar, Ludhiana (2sets), Pantnagar
2 <sup>nd</sup> IYPTE	5	Karnal, Ludhiana, Indore, Delhi, Vijapur
53 <sup>rd</sup> IDYN	8	Ludhiana, Pune, Niphad, Indore, Vijapur, Dharwad, Karnal, Hisar
53 <sup>rd</sup> IDSN	5	Ludhiana, Pune, Niphad, Indore, Karnal

### ICARDA

SN	Trial /Nursery	Number of sets	Cooperating centres
1	22 <sup>nd</sup> ESBWYT	5	Karnal, Pantnagar, Kalyani, Jabalpur, Kanpur
2	22 <sup>nd</sup> SBWON-HT	5	Karnal, Hisar, Jammu, Dharwad, Pune
3	45 <sup>th</sup> IDYT	2	Karnal, Vijapur
4	45 <sup>th</sup> IDON	2	Karnal, Dharwad
5	24 <sup>th</sup> IWWYT- SA	2	Almora, Srinagar
6	29 <sup>th</sup> FAWWON-SA	2	Almora, Malan