

2321-AVT-IR-TS-TAS-NWPZ, 2023-24  
LOCATIONWISE MEAN YIELD (g/ha)

SN	Variety	Code	Delhi		J & K		Punjab				Haryana				Rajasthan				U.P.				UTK			
			Delhi		Jammu		Ludhiana		Gurdaspur		Hisar		Bawal		Sriganganagar		Durgapura		Bulandshahr		Modipuram		Nagina		Pantnagar	
			Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G	Yield	Rk G
1	HI1668*	NWTS104	76.4	5 1	65.1	1 1	67.5	11 0	68.5	3 0	75.2	1 1	71.8	2 1	78.2	4 0	63.5	7 0	70.5	6 1	53.6	12 0	66.2	1 1	65.5	2 1
2	DBW386*	NWTS109	75.2	9 0	60.3	8 0	67.5	10 0	70.4	2 1	69.9	3 0	76.5	1 1	79.3	3 0	65.1	5 0	73.4	1 1	56.0	2 1	60.5	4 0	66.5	1 1
3	DBW477 <sup>M</sup>	NWTS102	61.9	17 0	61.0	5 1	66.7	12 0	61.5	10 0	67.2	4 0	58.2	9 0	70.7	9 0	59.7	13 0	65.3	14 0	51.7	16 0	60.0	5 0	59.1	13 0
4	PBW957 <sup>M</sup>	NWTS105	75.8	8 1	60.3	7 0	63.2	16 0	64.8	7 0	57.6	13 0	57.7	10 0	53.5	18 0	61.1	12 0	70.3	7 1	53.3	13 0	52.1	14 0	62.0	8 0
5	DBW417	NWTS107	75.9	7 1	57.4	14 0	66.7	13 0	56.5	15 0	50.6	16 0	62.4	5 0	64.2	14 0	57.9	15 0	64.8	16 0	47.7	18 0	58.8	8 0	62.8	5 0
6	HD3471 <sup>M</sup>	NWTS108	66.5	14 0	60.2	9 0	74.6	3 1	63.2	8 0	58.9	11 0	67.7	3 0	63.3	15 0	62.9	8 0	68.4	9 1	53.3	14 0	53.0	13 0	62.1	7 0
7	PBW916	NWTS113	75.2	10 0	55.2	18 0	70.0	7 0	54.9	16 0	59.0	9 0	44.7	18 0	69.9	10 0	54.0	18 0	70.8	5 1	51.1	17 0	49.8	18 0	64.5	3 1
8	PBW958 <sup>M</sup>	NWTS114	67.7	11 0	58.8	12 0	71.9	5 1	65.3	6 0	52.3	15 0	55.6	16 0	68.4	11 0	57.9	16 0	71.7	3 1	54.1	11 0	51.8	15 0	56.5	17 0
9	DBW476 <sup>M</sup>	NWTS117	62.4	16 0	55.9	17 0	69.8	8 0	57.8	13 0	55.5	14 0	55.2	17 0	64.5	13 0	62.0	10 0	62.3	17 0	54.9	8 0	57.7	11 0	61.5	10 0
10	HD3494 <sup>M</sup>	NWTS118	66.2	15 0	57.0	16 0	63.2	17 0	56.5	14 0	48.6	18 0	57.3	11 0	66.1	12 0	61.6	11 0	56.9	18 0	54.3	10 0	50.5	16 0	57.4	16 0
11	PBW725 (C)	NWTS101	79.4	3 1	59.7	11 0	75.6	2 1	61.3	11 0	58.9	10 0	56.3	13 0	72.6	7 0	66.3	4 0	64.8	15 0	52.1	15 0	59.5	6 0	63.2	4 0
12	DBW88 (C)	NWTS103	76.0	6 1	57.9	13 0	65.1	15 0	50.4	17 0	58.6	12 0	56.1	14 0	75.3	5 0	59.3	14 0	65.6	13 0	55.6	3 1	62.2	2 0	61.8	9 0
13	HD2967 (C)	NWTS106	61.0	18 0	62.7	3 1	58.2	18 0	46.4	18 0	49.1	17 0	56.8	12 0	58.9	16 0	67.7	3 0	65.8	12 1	55.0	6 0	50.2	17 0	52.3	18 0
14	HD3086 (C)	NWTS110	67.7	12 0	60.1	10 0	69.3	9 0	67.2	4 0	60.6	8 0	61.5	6 0	53.5	17 0	54.8	17 0	67.9	10 1	56.6	1 1	58.7	9 0	61.4	11 0
15	DBW187 (C)	NWTS111	78.9	4 1	57.1	15 0	66.5	14 0	62.6	9 0	63.8	7 0	59.2	8 0	75.1	6 0	62.8	9 0	67.4	11 1	55.0	5 1	61.8	3 0	58.6	14 0
16	DBW222 (C)	NWTS112	80.1	2 1	60.6	6 1	70.0	6 0	61.3	12 0	66.4	5 0	59.2	7 0	84.0	2 1	68.8	2 0	71.9	2 1	54.9	7 0	53.3	12 0	62.4	6 0
17	PBW826 (C)	NWTS116	67.0	13 0	61.7	4 1	77.1	1 1	73.5	1 1	66.1	6 0	55.7	15 0	71.8	8 0	64.2	6 0	71.4	4 1	55.4	4 1	58.2	10 0	58.4	15 0
18	HD3386(I)(C)	NWTS115	83.0	1 1	63.5	2 1	73.9	4 1	67.0	5 0	72.9	2 1	63.9	4 0	85.0	1 1	75.0	1 1	70.1	8 1	54.7	9 0	59.4	7 0	61.1	12 0
G.M.			72.0		59.7		68.7		61.6		60.6		59.8		69.7		62.5		67.7		53.8		56.9		61.0	
S.E.(M)			3.256		1.928		2.787		1.685		1.678		2.457		1.609		2.274		3.268		0.713		1.039		1.192	
C.D. (10%)			7.7		4.6		6.6		4.0		4.0		5.8		3.8		5.4		7.7		1.7		2.5		2.8	
C.V.			9.0		6.5		8.1		5.5		5.5		8.2		4.6		7.3		9.6		2.6		3.7		3.9	
D.O.S.(dd.mm.yy)			01.11.23		07.11.23		02.11.23		05.11.23		10.11.23		15.11.23		01.11.23		06.11.23		12.11.23		13.11.23		15.11.23		10.11.23	

No. of Trials : Proposed = 13                      Conducted = 13  
 Trial not conducted (00) = Nil  
 Trials not reported (01) = Karnal (LSM)

2321-AVT-IR-TS-TAS-NWPZ, 2023-24

STATE AND ZONAL MEANS (q/ha)

SN	Variety	Code	Delhi			J & K			Punjab			Haryana			Rajasthan			U.P.			UTK			Zonal		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HI1668*	NWTS104	76.4	5	1	65.1	1	1	68.0	8	0	73.5	1	1	70.8	4	0	63.4	1	1	65.5	2	1	68.5	2	1
2	DBW386*	NWTS109	75.2	9	0	60.3	8	0	69.0	3	0	73.2	2	1	72.2	3	0	63.3	2	1	66.5	1	1	68.4	3	1
3	DBW477 <sup>M</sup>	NWTS102	61.9	17	0	61.0	5	1	64.1	11	0	62.7	6	0	65.2	9	0	59.0	10	0	59.1	13	0	61.9	10	0
4	PBW957 <sup>M</sup>	NWTS105	75.8	8	1	60.3	7	0	64.0	12	0	57.7	10	0	57.3	17	0	58.6	12	0	62.0	8	0	61.0	13	0
5	DBW417	NWTS107	75.9	7	1	57.4	14	0	61.6	15	0	56.5	13	0	61.1	16	0	57.1	16	0	62.8	5	0	60.5	14	0
6	HD3471 <sup>M</sup>	NWTS108	66.5	14	0	60.2	9	0	68.9	4	0	63.3	4	0	63.1	14	0	58.2	14	0	62.1	7	0	62.8	8	0
7	PBW916	NWTS113	75.2	10	0	55.2	18	0	62.4	14	0	51.8	18	0	61.9	15	0	57.2	15	0	64.5	3	1	59.9	16	0
8	PBW958 <sup>M</sup>	NWTS114	67.7	11	0	58.8	12	0	68.6	5	0	53.9	15	0	63.2	13	0	59.2	9	0	56.5	17	0	61.0	12	0
9	DBW476 <sup>M</sup>	NWTS117	62.4	16	0	55.9	17	0	63.8	13	0	55.3	14	0	63.3	11	0	58.3	13	0	61.5	10	0	60.0	15	0
10	HD3494 <sup>M</sup>	NWTS118	66.2	15	0	57.0	16	0	59.8	16	0	53.0	16	0	63.9	10	0	53.9	18	0	57.4	16	0	58.0	17	0
11	PBW725 (C)	NWTS101	79.4	3	1	59.7	11	0	68.5	6	0	57.6	11	0	69.4	5	0	58.8	11	0	63.2	4	0	64.1	6	0
12	DBW88 (C)	NWTS103	76.0	6	1	57.9	13	0	57.8	17	0	57.4	12	0	67.3	8	0	61.1	6	1	61.8	9	0	62.0	9	0
13	HD2967 (C)	NWTS106	61.0	18	0	62.7	3	1	52.3	18	0	52.9	17	0	63.3	12	0	57.0	17	0	52.3	18	0	57.0	18	0
14	HD3086 (C)	NWTS110	67.7	12	0	60.1	10	0	68.3	7	0	61.1	8	0	54.2	18	0	61.1	7	1	61.4	11	0	61.6	11	0
15	DBW187 (C)	NWTS111	78.9	4	1	57.1	15	0	64.5	10	0	61.5	7	0	68.9	6	0	61.4	5	1	58.6	14	0	64.1	7	0
16	DBW222 (C)	NWTS112	80.1	2	1	60.6	6	1	65.7	9	0	62.8	5	0	76.4	2	0	60.1	8	0	62.4	6	0	66.1	4	0
17	PBW826 (C)	NWTS116	67.0	13	0	61.7	4	1	75.3	1	1	60.9	9	0	68.0	7	0	61.7	3	1	58.4	15	0	65.1	5	0
18	HD3386(I) (C)	NWTS115	83.0	1	1	63.5	2	1	70.5	2	0	68.4	3	0	80.0	1	1	61.4	4	1	61.1	12	0	69.1	1	1
G.M.			72.0			59.7			65.2			60.2			66.1			59.5			61.0			62.8		
S.E.(M)			3.256			1.928			1.628			1.488			1.393			1.167			1.192			0.619		
C.D. (10%)			7.7			4.6			3.8			3.5			3.3			2.7			2.8			1.4		

## Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: AVT-IR-TS-TAS-NWPZ, 2023-24

SN	Variety	Code	Disease Reaction				Agronomic Characteristics							Grain Characteristics	
			Br	ACI	YI	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M
1	HI1668*	NW-TS-104	10S	3.0	5S	1.3	66-105	94	129-149	142	97-125	112	40	41-63	51
2	DBW386*	NW-TS-109	20S	6.2	5S	3.2	78-105	96	130-152	143	92-118	103	30	40-64	49
3	DBW477 <sup>M</sup>	NW-TS-102	5S	1.2	10S	2.0	76-109	100	134-150	144	90-110	103	40	30-51	40
4	PBW957 <sup>M</sup>	NW-TS-105	10S	2.0	tMS	0.3	67-109	96	130-151	143	82-112	101	40	34-50	41
5	DBW417	NW-TS-107	10S	2.2	20S	9.0	79-109	100	129-157	145	94-117	108	40	37-60	47
6	HD3471 <sup>M</sup>	NW-TS-108	10S	2.0	5S	1.4	72-107	97	130-152	143	94-118	107	40	33-58	45
7	PBW916	NW-TS-113	5S	1.0	tMR	0.1	79-113	103	132-156	145	92-116	105	25	42-65	48
8	PBW958 <sup>M</sup>	NW-TS-114	15S	5.2	tMR	0.1	78-109	100	130-154	144	88-115	105	30	37-57	45
9	DBW476 <sup>M</sup>	NW-TS-117	5S	1.0	10MS	2.4	78-109	100	135-158	145	94-114	105	40	32-50	40
10	HD3494 <sup>M</sup>	NW-TS-118	5S	1.0	0	0.0	81-112	104	132-163	147	99-119	108	35	34-54	42
11	PBW725 (C)	NW-TS-101	10S	4.0	5MR	0.5	79-110	103	134-154	147	92-113	105	35	33-51	40
12	DBW88 (C)	NW-TS-103	10S	2.2	20S	12.6	79-111	100	135-155	146	88-112	104	35	30-45	39
13	HD2967 (C)	NW-TS-106	20S	5.0	60S	26.0	81-111	103	132-162	146	97-116	104	35	33-51	40
14	HD3086 (C)	NW-TS-110	60S	20.2	15S	3.8	75-105	95	130-153	143	94-112	100	15	34-50	42
15	DBW187 (C)	NW-TS-111	10S	2.0	40S	9.2	69-108	97	129-155	144	90-116	106	45	34-55	46
16	DBW222 (C)	NW-TS-112	0	0.0	20S	5.6	76-107	100	130-153	144	93-117	107	30	34-54	44
17	PBW826 (C)	NW-TS-116	60S	16.0	10S	4.2	78-105	95	128-151	143	91-110	100	10	41-58	48
18	HD3386(l) (C)	NW-TS-115	20S	6.2	20S	4.4	78-107	98	130-153	143	94-118	104	30	42-57	50

1. Ancillary data from Bawal, Bulandshahar, Delhi, Durgapura, Gurdaspur, Hisar, Jammu, Karnal, Ludhiana, Nagina, Pantnagar and Sriganganagar.
2. Lodging data from Delhi, Hisar and Karnal.
3. Yellow rust data from Hisar, Jammu, Karnal, Ludhiana and Pantnagar; Brown rust data from Gurdaspur, Hisar, Karnal, Ludhiana and Pantnagar.

**AVT-IR-TS-TAS-NWPZ, 2023-24**  
**Individual Station Rust Data**

SN	Variety	Code	Yellow rust					Brown rust				
			Hisar	Jammu	Karnal	Ludhiana	Pantnagar	Gurdaspur	Hisar	Karnal	Ludhiana	Pantnagar
1	HI1668*	NW-TS-104	0	tS	0	tMR	5S	0	10S	0	0	5S
2	DBW386*	NW-TS-109	0	5S	5S	tMS	5S	0	tS	20S	0	10S
3	DBW477 <sup>M</sup>	NW-TS-102	0	0	10S	0	0	0	tS	5S	0	0
4	PBW957 <sup>M</sup>	NW-TS-105	0	tMS	0	tMS	0	0	0	0	0	10S
5	DBW417	NW-TS-107	0	5S	20S	15S	5S	0	tS	0	0	10S
6	HD3471 <sup>M</sup>	NW-TS-108	0	tS	0	tMS	5S	0	0	0	0	10S
7	PBW916	NW-TS-113	0	0	0	tMR	0	0	0	0	0	5S
8	PBW958 <sup>M</sup>	NW-TS-114	0	0	0	tMR	0	0	0	10S	tS	15S
9	DBW476 <sup>M</sup>	NW-TS-117	0	10MS	0	5MS	0	0	0	0	0	5S
10	HD3494 <sup>M</sup>	NW-TS-118	0	0	0	0	0	0	0	0	0	5S
11	PBW725 (C)	NW-TS-101	0	0	5MR	tMR	0	0	10S	0	0	10S
12	DBW88 (C)	NW-TS-103	10S	5MS	20S	30MS	5S	0	tS	0	0	10S
13	HD2967 (C)	NW-TS-106	10S	10MS	60S	40MS	20S	0	0	5S	0	20S
14	HD3086 (C)	NW-TS-110	0	15S	0	5MS	0	tS	0	60S	0	40S
15	DBW187 (C)	NW-TS-111	0	5MS	40S	5MR	0	0	0	0	0	10S
16	DBW222 (C)	NW-TS-112	0	5MS	20S	5MS	0	0	0	0	0	0
17	PBW826 (C)	NW-TS-116	0	10S	10S	tMS	0	0	0	20S	0	60S
18	HD3386(l) (C)	NW-TS-115	0	tS	20S	tMS	0	0	tS	20S	0	10S