

2221-AVT-IR-TS-TAS-NWPZ, 2022-23
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	Delhi		J & K		Punjab			Haryana			Rajasthan		U.P		UTK							
			Delhi		Jammu		Ludhiana	Gurdaspur	Hisar		Karnal		Sriganganagar	Durgapura	Bulandshahr	Modipuram	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				
1	HD3386*	NWTS113	76.9	1 1	56.0	5 0	64.3	6 1	55.8	7 0	69.8	2 1	59.1	3 0	62.7	5 0	63.4	3 1	56.2	6 0	65.9	6 0	65.3	3 1
2	UP3102 [#]	NWTS102	70.1	7 1	56.3	4 1	59.6	11 0	53.1	9 0	60.3	10 0	55.1	7 0	56.9	8 0	53.5	11 0	54.8	8 0	66.3	5 0	51.8	10 0
3	DBW386 [#]	NWTS109	72.5	5 1	55.6	6 0	65.3	5 1	55.8	8 0	61.6	9 0	58.1	4 0	70.1	2 0	65.5	1 1	56.9	3 0	72.1	1 1	61.8	4 0
4	HD3470 ^M	NWTS101	70.0	8 1	49.1	13 0	61.4	10 0	48.5	13 0	67.5	3 1	54.3	8 0	45.8	13 0	58.0	8 0	46.2	13 0	58.7	11 0	51.5	11 0
5	HD3471 ^M	NWTS112	69.7	9 0	51.5	10 0	57.9	12 0	51.0	11 0	64.6	4 0	50.8	10 0	67.4	4 0	59.0	7 0	53.9	11 0	64.3	8 0	48.8	13 0
6	PBW887	NWTS106	69.1	10 0	49.8	12 0	66.5	4 1	59.8	2 1	63.8	6 0	64.4	1 1	51.6	12 0	65.5	1 1	58.5	1 1	69.7	3 0	65.5	2 1
7	HI1668	NWTS107	68.6	11 0	54.9	7 0	66.7	3 1	61.6	1 1	70.6	1 1	63.5	2 1	68.5	3 0	53.5	12 0	54.1	10 0	71.2	2 1	58.1	5 0
8	PBW889	NWTS111	71.5	6 1	52.8	9 0	68.4	1 1	59.4	3 1	57.5	12 0	57.8	5 0	53.6	11 0	61.5	5 1	55.6	7 0	62.5	10 0	52.5	8 0
9	HD2967(C)	NWTS103	52.1	13 0	61.4	1 1	50.1	13 0	48.5	12 0	57.3	13 0	37.4	13 0	56.6	9 0	53.4	13 0	56.6	4 0	51.3	13 0	52.0	9 0
10	DBW187(C)	NWTS104	58.5	12 0	57.9	2 1	63.8	8 1	57.9	5 0	64.6	4 0	56.8	6 0	75.2	1 1	57.6	10 0	51.2	12 0	64.4	7 0	57.1	7 0
11	HD3086(C)	NWTS105	72.7	4 1	50.2	11 0	62.5	9 1	52.8	10 0	62.9	8 0	48.6	11 0	57.6	7 0	61.8	4 1	54.7	9 0	53.4	12 0	50.1	12 0
12	DBW222(C)	NWTS110	75.5	2 1	57.2	3 1	63.9	7 1	57.7	6 0	63.4	7 0	47.0	12 0	61.7	6 0	58.0	8 0	57.6	2 0	63.9	9 0	66.5	1 1
13	PBW826(I)(C)	NWTS108	74.6	3 1	53.6	8 0	66.9	2 1	58.0	4 0	59.6	11 0	53.4	9 0	55.0	10 0	61.1	6 0	56.5	5 0	67.0	4 0	57.3	6 0
G.M.			69.4		54.3		62.9		55.4		63.3		54.3		60.2		59.4		54.8		63.9		56.8	
S.E.(M)			2.911		2.197		2.691		1.274		1.790		1.668		0.679		1.691		0.281		1.014		0.862	
C.D. (10%)			6.9		5.2		6.4		3.0		4.3		4.0		1.6		4.0		0.7		2.4		2.1	
C.V.			8.4		8.1		8.6		4.6		5.7		6.1		2.3		5.7		1.0		3.2		3.0	
D.O.S.(dd.mm.yy)			04.11.22		08.11.22		01.11.22		09.11.22		05.11.22		04.11.22		05.11.22		11.11.22		14.11.22		12.11.22		02.11.22	

No. of Trials : Proposed = 14 Conducted = 14
Trials not reported (03) = Bawal (RMT), Nagina (LSM), Dehradun (LSM)

2221-AVT-IR-TS-TAS-NWPZ, 2022-23
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	HD3386*	NWTS113	76.9	1	1	56.0	5	0	60.1	8	0	64.4	2	1	63.1	4	0	61.0	5	0	65.3	3	1	63.2	1	1
2	UP3102 [#]	NWTS102	70.1	7	1	56.3	4	1	56.4	10	0	57.7	8	0	55.2	11	0	60.6	7	0	51.8	10	0	58.0	10	0
3	DBW386 [#]	NWTS109	72.5	5	1	55.6	6	0	60.5	7	0	59.8	6	0	67.8	1	1	64.5	1	1	61.8	4	0	63.2	2	1
4	HD3470 ^M	NWTS101	70.0	8	1	49.1	13	0	55.0	11	0	60.9	4	0	51.9	13	0	52.5	13	0	51.5	11	0	55.6	12	0
5	HD3471 ^M	NWTS112	69.7	9	0	51.5	10	0	54.4	12	0	57.7	7	0	63.2	3	0	59.1	8	0	48.8	13	0	58.1	9	0
6	PBW887	NWTS106	69.1	10	0	49.8	12	0	63.1	3	1	64.1	3	0	58.5	8	0	64.1	2	1	65.5	2	1	62.2	4	1
7	HI1668	NWTS107	68.6	11	0	54.9	7	0	64.2	1	1	67.0	1	1	61.0	5	0	62.7	3	0	58.1	5	0	62.8	3	1
8	PBW889	NWTS111	71.5	6	1	52.8	9	0	63.9	2	1	57.7	9	0	57.6	10	0	59.0	9	0	52.5	8	0	59.4	8	0
9	HD2967(C)	NWTS103	52.1	13	0	61.4	1	1	49.3	13	0	47.4	13	0	55.0	12	0	53.9	12	0	52.0	9	0	52.4	13	0
10	DBW187(C)	NWTS104	58.5	12	0	57.9	2	1	60.9	5	1	60.7	5	0	66.4	2	1	57.8	10	0	57.1	7	0	60.5	6	0
11	HD3086(C)	NWTS105	72.7	4	1	50.2	11	0	57.7	9	0	55.7	11	0	59.7	7	0	54.1	11	0	50.1	12	0	57.0	11	0
12	DBW222(C)	NWTS110	75.5	2	1	57.2	3	1	60.8	6	1	55.2	12	0	59.8	6	0	60.7	6	0	66.5	1	1	61.1	5	0
13	PBW826(I)(C)	NWTS108	74.6	3	1	53.6	8	0	62.4	4	1	56.5	10	0	58.1	9	0	61.8	4	0	57.3	6	0	60.3	7	0
G.M.			69.4			54.3			59.1			58.8			59.8			59.4			56.8			59.5		
S.E.(M)			2.911			2.197			1.489			1.223			0.911			0.526			0.862			0.525		
C.D. (10%)			6.9			5.2			3.5			2.9			2.1			1.2			2.1			1.2		

Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: AVT-IR-TS-TAS-NWPZ, 2022-23

S N	Variety	Code	Disease Reaction				Agronomic Characteristics								
			Br	ACI	YI	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M
1	HD3386*	NWTS113	20S	7.5	10S	4.3	84-105	96	129-157	143	88-99	99	12	42-55	47
2	UP3102#	NWTS102	0	0.0	10S	2.9	83-110	100	129-158	144	95-106	106	38	29-45	37
3	DBW386#	NWTS109	10S	2.5	20S	3.5	87-106	97	134-157	144	89-100	100	25	37-54	46
4	HD3470 ^M	NWTS101	30S	8.3	60S	22.1	82-104	92	129-157	142	87-98	98	17	34-44	40
5	HD3471 ^M	NWTS112	20S	5.1	10S	3.1	86-106	96	128-156	143	89-101	101	10	34-50	43
6	PBW887	NWTS106	10MS	2.2	10S	4.4	84-106	97	127-158	143	90-99	99	19	35-48	41
7	HI1668	NWTS107	10S	2.6	20S	5.0	84-104	93	128-157	142	92-105	105	13	33-56	47
8	PBW889	NWTS111	tR	0.0	5S	0.8	85-104	94	127-158	142	86-100	100	10	35-50	43
9	HD2967(C)	NWTS103	20S	3.3	60S	32.6	80-117	104	130-158	147	92-102	102	35	30-53	38
10	DBW187(C)	NWTS104	20S	5.0	10S	2.9	88-106	97	126-157	142	82-100	100	24	30-51	42
11	HD3086(C)	NWTS105	60S	31.7	60S	14.3	78-101	94	126-156	141	88-101	101	21	32-45	39
12	DBW222(C)	NWTS110	10S	1.7	20S	5.7	84-108	97	130-157	144	95-103	103	16	35-48	41
13	PBW826(I)(C)	NWTS108	20S	11.7	20S	7.1	80-104	96	125-157	142	85-98	98	18	36-56	46

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

AVT-IR-TS-TAS-NWPZ, 2022-23

Individual Station Rust Data

SN	Variety	Code	Yellow rust						Brown rust						
			Delhi	Gurdaspur	Hisar	Jammu	Karnal	Ludhiana	Pantnagar	Delhi	Gurdaspur	Jammu	Karnal	Ludhiana	Pantnagar
1	HD3386*	NWTS113	0	10S	0	10S	0	10S	0	0	10S	0	10S	5S	20S
2	UP3102#	NWTS102	0	10S	0	10S	0	0	0	0	0	0	0	0	0
3	DBW386#	NWTS109	0	20S	0	5MS	tMR	0	0	0	0	0	10S	0	5S
4	HD3470 ^M	NWTS101	0	60S	10S	60S	5MS	20S	tS	0	10S	0	30S	10S	0
5	HD3471 ^M	NWTS112	0	10S	0	10S	0	5MR	0	0	5S	5S	20S	0	tMS
6	PBW887	NWTS106	0	10S	0	10S	0	10S	tS	0	0	5S	10MS	0	0
7	HI1668	NWTS107	0	10S	0	20S	0	5S	0	0	0	5S	10S	0	tMS
8	PBW889	NWTS111	0	0	0	5S	tMS	0	0	0	tR	0	0	0	0
9	HD2967(C)	NWTS103	20S	40S	20S	40S	10MS	60S	40S	0	0	0	20S	0	0
10	DBW187(C)	NWTS104	0	10S	0	10S	0	0	0	0	0	0	20S	0	10S
11	HD3086(C)	NWTS105	0	40S	0	60S	0	0	0	10S	40S	20S	40S	20S	60S
12	DBW222(C)	NWTS110	0	10S	0	20S	0	5S	5S	0	0	10S	0	0	0
13	PBW826(I)(C)	NWTS108	0	20S	0	20S	0	10S	0	0	10S	10S	20S	10S	20S

2222-AVT-IR-LS-TAS-NWPZ, 2022-23
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	Delhi		J & K		Punjab				Haryana				Rajasthan		U.P.				UTK	
			Delhi		Jammu		Ludhiana		Gurdaspur		Hisar		Karnal		Durgapura		Bulandshahr		Modipuram		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
1	K2108	NWLS202	38.5	6 0	38.4	5 0	48.3	4 0	44.5	5 0	49.6	6 0	48.5	5 1	41.4	7 0	50.7	3 0	59.7	6 0	44.3	5 0
2	PBW893	NWLS205	42.7	4 0	37.0	7 0	53.3	1 1	45.9	2 1	47.5	7 0	52.5	1 1	50.0	2 1	50.4	5 0	64.5	2 1	46.7	4 0
3	HD3428	NWLS206	39.3	5 0	47.0	1 1	49.4	2 0	45.5	4 0	52.8	3 1	49.9	2 1	47.5	3 0	51.4	1 1	64.3	3 0	55.6	1 1
4	DBW173(C)	NWLS201	44.2	2 0	42.3	3 1	47.7	5 0	42.7	6 0	52.1	5 1	49.6	3 1	43.9	6 0	50.1	6 0	60.3	5 0	47.4	3 0
5	HD3059(C)	NWLS203	38.3	7 0	44.0	2 1	39.6	7 0	48.6	1 1	52.4	4 1	49.4	4 1	45.3	5 0	51.1	2 1	58.1	7 0	50.9	2 0
6	JKW261(C)	NWLS204	44.0	3 0	37.3	6 0	48.6	3 0	41.7	7 0	54.5	2 1	48.4	7 0	51.8	1 1	49.3	7 0	61.3	4 0	40.7	6 0
7	PBW771(C)	NWLS207	52.9	1 1	42.2	4 1	47.6	6 0	45.8	3 1	55.1	1 1	48.4	6 0	46.9	4 0	50.6	4 0	66.7	1 1	40.7	7 0
G.M.			42.8		41.2		47.8		44.9		52.0		49.5		46.7		50.5		62.2		46.6	
S.E.(M)			2.069		2.146		1.381		1.212		1.715		1.674		1.059		0.206		0.941		0.758	
C.D. (10%)			5.1		5.3		3.4		3.0		4.2		4.1		2.6		0.5		2.3		1.9	
C.V.			9.7		10.4		5.8		5.4		6.6		6.8		4.5		0.8		3.0		3.3	
D.O.S.(dd.mm.yy)			15.12.22		08.12.22		05.12.22		05.12.22		06.12.22		08.12.22		08.12.22		06.12.22		14.12.22		14.12.22	

No. of Trials : Proposed = 12 Conducted = 12
Trials not reported (02) = Nagina (LSM), Dehradun (LSM)

2222-AVT-IR-LS-TAS-NWPZ, 2022-23
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	K2108	NWLS202	38.5	6 0	38.4	5 0	46.4	4 0	49.1	7 1	41.4	7 0	55.2	5 0	44.3	5 0	46.4	7 0
2	PBW893	NWLS205	42.7	4 0	37.0	7 0	49.6	1 1	50.0	6 1	50.0	2 1	57.5	3 0	46.7	4 0	49.0	3 0
3	HD3428	NWLS206	39.3	5 0	47.0	1 1	47.4	2 1	51.3	3 1	47.5	3 0	57.8	2 1	55.6	1 1	50.3	1 1
4	DBW173(C)	NWLS201	44.2	2 0	42.3	3 1	45.2	6 0	50.8	5 1	43.9	6 0	55.2	6 0	47.4	3 0	48.0	4 0
5	HD3059(C)	NWLS203	38.3	7 0	44.0	2 1	44.1	7 0	50.9	4 1	45.3	5 0	54.6	7 0	50.9	2 0	47.8	5 0
6	JKW261(C)	NWLS204	44.0	3 0	37.3	6 0	45.2	5 0	51.4	2 1	51.8	1 1	55.3	4 0	40.7	6 0	47.8	6 0
7	PBW771(C)	NWLS207	52.9	1 1	42.2	4 1	46.7	3 0	51.7	1 1	46.9	4 0	58.7	1 1	40.7	7 0	49.7	2 1
G.M.			42.8		41.2		46.4		50.8		46.7		56.3		46.6		48.4	
S.E.(M)			2.069		2.146		0.919		1.198		1.059		0.481		0.758		0.454	
C.D. (10%)			5.1		5.3		2.2		2.9		2.6		1.1		1.9		1.1	

Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: AVT-IR-LS-TAS, 2022-23

SN	Variety	Code	Disease Reaction			Agronomic Characteristics								
			Br	YI	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M
1	K2108	NWLS202	5S	20S	7.6	79-91	86	112-141	126	86-106	96	24	31-43	39
2	PBW893	NWLS205	0	10S	2.1	73-90	84	113-140	125	75-105	88	10	29-45	37
3	HD3428	NWLS206	5S	5S	1.7	77-94	86	112-141	126	82-104	93	23	29-43	39
4	DBW173(C)	NWLS201	0	10S	5.7	77-94	87	115-141	127	88-104	94	16	35-42	39
5	HD3059(C)	NWLS203	0	40S	15.0	76-92	86	112-140	124	79-102	92	21	31-45	40
6	JKW261(C)	NWLS204	0	20S	11.3	75-92	85	115-140	125	85-101	94	28	25-43	37
7	PBW771(C)	NWLS207	5S	40S	11.3	76-92	84	111-139	124	75-94	84	13	28-44	39

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

Individual Station Rust Data

SN	Variety	Code	Yellow rust							Brown rust		
			Delhi	Gurdaspur	Hisar	Jammu	Karnal	Ludhiana	Pantnagar	Karnal	Ludhiana	
1	K2108	NWLS202	5MS	10MR	0	5S	10S	20S	10S		5S	0
2	PBW893	NWLS205	0	10S	5S	0	0	0	0		0	0
3	HD3428	NWLS206	0	5MR	0	5MS	0	5S	tS		0	5S
4	DBW173(C)	NWLS201	5S	10S	0	5S	0	10S	10S		0	0
5	HD3059(C)	NWLS203	5MS	20S	tS	20S	0	40S	20S		0	0
6	JKW261(C)	NWLS204	10MS	20S	0	20S	tS	20S	10S		0	0
7	PBW771(C)	NWLS207	5S	10S	0	5MS	0	20S	40S		0	5S

2223-AVT-RI-TS-TAS-NWPZ, 2022-23

LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	Delhi		J & K		Punjab				Haryana				U.P				Rajasthan		UTK											
			Delhi		Jammu		Ludhiana		Gurdaspur		Hisar		Karnal		Modipuram		Nagina		Durgapura		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						
1	WH1402*	NWRI305	48.3	7	0	47.5	6	0	44.9	9	0	48.3	7	0	62.9	1	1	46.4	12	0	51.1	11	0	38.8	4	0	42.6	6	0	53.5	3	1
2	UP3111	NWRI301	42.8	11	0	36.7	12	0	37.6	12	0	37.9	12	0	38.0	12	0	51.5	7	0	54.0	9	0	34.7	12	0	45.7	3	1	49.2	8	0
3	WH1311	NWRI303	55.2	3	0	45.8	8	0	47.7	7	0	48.5	6	0	62.7	2	1	48.8	10	0	57.4	3	0	35.0	11	0	41.8	9	0	54.1	2	1
4	DBW397	NWRI304	59.8	1	1	60.6	2	1	51.1	6	0	49.6	3	0	61.5	4	1	54.7	4	0	55.8	6	0	35.3	10	0	39.6	12	0	50.3	6	0
5	PBW899	NWRI309	45.5	9	0	42.0	10	0	55.2	2	1	53.6	2	1	54.7	8	0	51.3	8	0	53.6	10	0	38.4	5	0	42.3	8	0	51.8	5	0
6	DBW398	NWRI310	47.4	8	0	42.7	9	0	39.0	11	0	45.9	10	0	58.9	6	0	56.4	2	1	60.6	2	1	40.3	3	0	45.9	2	1	50.2	7	0
7	DBW296(C)	NWRI302	48.7	6	0	46.7	7	0	52.9	3	0	48.2	8	0	54.5	9	0	53.6	6	0	54.2	8	0	36.5	6	0	42.5	7	0	44.2	10	0
8	PBW644(C)	NWRI308	41.9	12	0	61.0	1	1	45.2	8	0	40.9	11	0	42.9	11	0	46.9	11	0	54.4	7	0	36.4	8	0	41.4	11	0	52.5	4	0
9	NIAW3170(C)	NWRI312	50.4	5	0	41.5	11	0	44.7	10	0	48.5	5	0	48.1	10	0	50.2	9	0	49.9	12	0	43.9	1	1	45.1	4	1	44.1	11	0
10	HI1654(I)(C)	NWRI306	43.9	10	0	52.1	3	0	51.3	5	0	49.4	4	0	55.4	7	0	55.6	3	1	61.8	1	1	36.4	7	0	41.8	10	0	45.6	9	0
11	HD3369(I)(C)	NWRI307	58.1	2	1	50.3	5	0	52.3	4	0	47.6	9	0	61.8	3	1	54.2	5	0	56.5	5	0	42.2	2	1	44.5	5	1	43.3	12	0
12	HI1653(I)(C)	NWRI311	53.2	4	0	50.8	4	0	57.1	1	1	56.7	1	1	61.1	5	1	58.0	1	1	56.9	4	0	36.2	9	0	46.4	1	1	56.0	1	1
G.M.			49.6			48.1			48.2			47.9			55.2			52.3			55.5			37.8			43.3			49.6		
S.E.(M)			1.568			2.386			0.806			1.908			1.321			1.173			1.120			0.821			1.165			1.096		
C.D. (10%)			3.8			5.7			1.9			4.6			3.2			2.8			2.7			2.0			2.8			2.6		
C.V.			6.3			9.9			3.3			8.0			4.8			4.5			4.0			4.3			5.4			4.4		
D.O.S.(dd.mm.yy)			02.11.22			01.11.22			01.11.23			28.10.22			0.10.22			27.10.22			04.11.22			05.11.22			03.11.22			01.11.22		

No. of Trials : Proposed = 14

Conducted = 13

Trial not conducted (01) = Dehradun

Trials not reported (03) = Bawal (RMT), Sriganaganagar (RMT), Bulandshahr (RMT)

2223-AVT-RI-TS-TAS-NWPZ, 2022-23

STATE AND ZONAL MEANS (q/ha)

SN	Variety	Code	Delhi	J & K	Punjab	Haryana	U.P.	Rajasthan	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	WH1402*	NWRI305	48.3 7 0	47.5 6 0	46.6 8 0	54.7 7 0	45.0 11 0	42.6 6 0	53.5 3 1	48.4 8 0
2	UP3111	NWRI301	42.8 11 0	36.7 12 0	37.8 12 0	44.8 12 0	44.4 12 0	45.7 3 1	49.2 8 0	42.8 12 0
3	WH1311	NWRI303	55.2 3 0	45.8 8 0	48.1 7 0	55.7 5 0	46.2 6 0	41.8 9 0	54.1 2 1	49.7 4 0
4	DBW397	NWRI304	59.8 1 1	60.6 2 1	50.4 4 0	58.1 2 1	45.6 8 0	39.6 12 0	50.3 6 0	51.8 2 0
5	PBW899	NWRI309	45.5 9 0	42.0 10 0	54.4 2 0	53.0 9 0	46.0 7 0	42.3 8 0	51.8 5 0	48.8 6 0
6	DBW398	NWRI310	47.4 8 0	42.7 9 0	42.5 11 0	57.6 4 1	50.5 1 1	45.9 2 1	50.2 7 0	48.7 7 0
7	DBW296(C)	NWRI302	48.7 6 0	46.7 7 0	50.6 3 0	54.0 8 0	45.4 10 0	42.5 7 0	44.2 10 0	48.2 9 0
8	PBW644(C)	NWRI308	41.9 12 0	61.0 1 1	43.1 10 0	44.9 11 0	45.4 9 0	41.4 11 0	52.5 4 0	46.4 11 0
9	NIAW3170(C)	NWRI312	50.4 5 0	41.5 11 0	46.6 9 0	49.2 10 0	46.9 4 0	45.1 4 1	44.1 11 0	46.6 10 0
10	HI1654(I)(C)	NWRI306	43.9 10 0	52.1 3 0	50.3 5 0	55.5 6 0	49.1 3 1	41.8 10 0	45.6 9 0	49.3 5 0
11	HD3369(I)(C)	NWRI307	58.1 2 1	50.3 5 0	50.0 6 0	58.0 3 1	49.3 2 1	44.5 5 1	43.3 12 0	51.1 3 0
12	HI1653(I)(C)	NWRI311	53.2 4 0	50.8 4 0	56.9 1 1	59.6 1 1	46.6 5 0	46.4 1 1	56.0 1 1	53.2 1 1
G.M.			49.6	48.1	48.1	53.8	46.7	43.3	49.6	48.8
S.E.(M)			1.568	2.386	1.036	0.883	0.694	1.165	1.096	0.498
C.D. (10%)			3.8	5.7	2.4	2.1	1.6	2.8	2.6	1.2

Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: AVT-RI-TS-TAS, 2022-23

SN	Variety	Code	Disease Reaction				Agronomic Characteristics									
			Br	ACI	YI	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M	
1	WH1402*	NWRI305	0	0.0	5S	2.5	82-109	99	126-161	144	83-114	96	0	38-49	43	
2	UP3111	NWRI301	10S	4.2	60S	21.3	81-107	96	126-160	144	91-118	107	20	30-48	42	
3	WH1311	NWRI303	0	0.0	40S	15.3	87-112	102	127-162	144	85-117	102	17	34-43	39	
4	DBW397	NWRI304	20S	8.2	20S	15.0	87-112	102	128-161	148	87-112	102	3	35-48	43	
5	PBW899	NWRI309	0	0.0	5S	3.8	91-110	103	129-162	147	80-124	104	33	32-45	40	
6	DBW398	NWRI310	5S	1.0	60S	18.8	85-110	99	125-162	145	95-112	103	12	31-53	45	
7	DBW296(C)	NWRI302	5S	1.0	40S	13.8	90-112	103	128-162	148	84-116	103	18	38-48	44	
8	PBW644(C)	NWRI308	40S	18.0	40S	17.5	88-112	102	127-160	145	89-122	109	34	28-44	39	
9	NIAW3170(C)	NWRI312	10S	3.0	40S	16.8	78-103	94	125-162	144	95-118	108	14	38-48	43	
10	HI1654(I)(C)	NWRI306	0	0.0	10S	7.5	81-112	102	125-161	146	83-111	100	0	28-48	42	
11	HD3369(I)(C)	NWRI307	10S	4.2	40S	17.5	85-109	100	126-161	146	84-116	103	2	40-57	45	
12	HI1653(I)(C)	NWRI311	10S	4.0	20S	12.5	83-108	95	127-162	144	86-119	108	5	36-56	48	

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

Individual Station Rust Data

SN	Variety	Code	Yellow rust				Brown rust				
			Gurdaspur	Jammu	Ludhiana	Pantnagar	Gurdaspur	Hisar	Karnal	Ludhiana	Pantnagar
1	WH1402*	NWRI305	5S	5S	0	0	0	0	0	0	0
2	UP3111	NWRI301	20S	60S	5S	0	0	0	10S	10S	tMS
3	WH1311	NWRI303	20S	40S	tS	0	0	0	0	0	0
4	DBW397	NWRI304	20S	20S	20S	0	0	0	20S	20S	tMS
5	PBW899	NWRI309	5S	5S	5S	0	0	0	0	0	0
6	DBW398	NWRI310	5S	60S	10S	0	0	0	5S	0	0
7	DBW296(C)	NWRI302	10S	40S	5S	0	0	0	5S	0	0
8	PBW644(C)	NWRI308	40S	20S	10S	0	10S	0	30S	40S	10S
9	NIAW3170(C)	NWRI312	20S	40S	5MR	5S	0	10S	0	0	5S
10	HI1654(I)(C)	NWRI306	10S	10S	10S	0	0	0	0	0	0
11	HD3369(I)(C)	NWRI307	20S	40S	10S	0	10S	0	10S	0	tMS
12	HI1653(I)(C)	NWRI311	20S	20S	10S	0	0	0	10S	0	10S