

1861-SPL-AST-IR-TS-TAS-ALL ZONES, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N.	Variety	Code	Punjab			Haryana						Rajasthan								
			Yield	Rk	G	Hisar Yield Rk G	IIWBR-Hisar Yield Rk G	CSSRI-Karnal Yield Rk G	Nain (Panipat) Yield Rk G	Vallabh Nagar Yield Rk G										
1	WH 1223	AST-101	41.6	1	1	35.7	4	0	27.7	5	0	34.6	3	1	18.2	6	0	34.9	7	0
2	WH 1228	AST-106	38.8	3	0	39.2	2	1	30.8	2	1	29.6	5	0	27.0	3	1	41.8	3	1
3	NW 7062	AST-107	37.5	4	0	28.0	5	0	27.4	6	0	22.9	7	0	17.2	7	0	42.9	1	1
4	NW 7060	AST-104	26.1	7	0	38.4	3	1	33.0	1	1	37.4	2	1	28.7	1	1	36.3	6	0
5	KRL 19 (C)	AST-102	31.3	6	0	25.7	6	0	29.4	4	0	33.4	4	0	25.8	4	1	38.6	5	1
6	KRL 210 (C)	AST-105	41.0	2	1	39.2	1	1	30.5	3	1	39.1	1	1	28.0	2	1	41.3	4	1
7	Kharchia 65(C)	AST-103	35.7	5	0	4.7	7	0	20.4	7	0	28.1	6	0	25.1	5	1	42.9	2	1
G.M.			36.0			30.1			28.4			32.2			24.3			39.8		
S.E.(M)			1.126			1.046			1.163			2.312			2.170			1.820		
C.D. (10%)			2.7			2.5			2.8			5.5			5.2			4.4		
C.V.			7.7			8.5			10.0			17.6			21.9			11.2		
D.O.S.(dd.mm.yy)			14.11.18			13.11.18			14.11.18			10.11.18			14.11.18			22.11.18		

No. of Trials: Proposed = 22 Conducted = 19 Trials not conducted (03) = Bawal, RRS-Bhuj, KVK-Chaswad
Trials not reported (08) = Faizabad (RMT), RRS-Pali (HCV), KVK-Devataj (LS), KVK-Kaushambi (DNR),
Vanasthali (DNR), KVK-Kheda (DNR), KVK-Jamnagar (DNR), KVK-Sanosara (DNR)

1861-SPL-AST-IR-TS-TAS-ALL ZONES, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N.	Variety	Code	Gujarat						U.P.								
			Bharuch			Mangrol			Dalipnagar		Lucknow		KVK-Pratapgarh				
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	WH 1223	AST-101	26.7	2	1	35.4	2	1	34.3	4	0	26.1	2	0	42.1	1	1
2	WH 1228	AST-106	24.5	4	1	30.1	3	0	38.0	2	0	22.1	4	0	24.7	7	0
3	NW 7062	AST-107	19.2	6	0	21.6	7	0	28.9	6	0	19.6	6	0	37.1	3	0
4	NW 7060	AST-104	28.5	1	1	35.7	1	1	35.5	3	0	23.8	3	0	27.7	5	0
5	KRL 19 (C)	AST-102	22.1	5	0	22.4	6	0	31.2	5	0	15.3	7	0	27.8	4	0
6	KRL 210 (C)	AST-105	25.7	3	1	25.6	5	0	40.7	1	1	28.9	1	1	26.8	6	0
7	Kharchia 65 (C)	AST-103	14.4	7	0	28.5	4	0	26.6	7	0	22.0	5	0	40.1	2	0
G.M.			23.0			28.5			33.6			22.6			32.3		
S.E.(M)			1.775			1.583			0.733			0.531			0.714		
C.D. (10%)			4.3			3.8			1.8			1.3			1.8		
C.V.			18.9			13.6			5.3			4.7			4.4		
D.O.S.(dd.mm.yy)			16.11.18			15.11.18			17.11.18			20.11.18			20.11.18		

1861-SPL-AST-IR-TS-TAS-ALL ZONES, 2018-19
STATE AND ZONAL MEANS (q/ha)

S.N.	Variety	Code	Haryana			Gujarat			U.P.			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	WH 1223	AST-101	29.1	4	0	31.1	2	1	34.2	1	1	32.5	2	1
2	WH 1228	AST-106	31.6	3	0	27.3	3	0	28.3	6	0	31.5	4	0
3	NW 7062	AST-107	23.9	6	0	20.4	7	0	28.5	5	0	27.5	6	0
4	NW 7060	AST-104	34.4	1	1	32.1	1	1	29.0	4	0	31.9	3	0
5	KRL 19 (C)	AST-102	28.6	5	0	22.3	5	0	24.8	7	0	27.5	5	0
6	KRL 210 (C)	AST-105	34.2	2	1	25.6	4	0	32.1	2	0	33.3	1	1
7	Kharchia 65 (C)	AST-103	19.6	7	0	21.5	6	0	29.5	3	0	26.2	7	0
G.M.			28.8			25.8			29.5			30.1		
S.E.(M)			0.884			1.189			0.384			0.446		
C.D. (10%)			2.1			2.8			0.9			1.0		

Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: SPL-AST-IR-TS-TAS, 2018-19

SN	Variety	Code	Disease Reactions		Agronomic Characteristics							Grain Characteristics				
			Br	YI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	WH1223	SPL-AST-101	-	tS	97-107	102	137-149	143	64-119	91	10	E	A	SH	35-43	38
2	WH 1228	SPL-AST-106	tS	tS	92-103	97	134-148	139	60-114	87	20	E	A	SH	35-42	39
3	NW 7062	SPL-AST-107	30S	10S	99-110	103	138-149	143	84-119	98	15	E	A	H	38-46	43
4	NW 7060	SPL-AST-104	tS	-	93-104	98	135-149	141	58-105	87	20	E	A	SH	32-49	43
5	KRL19 (C)	SPL-AST-102	60S	10S	92-105	96	134-148	140	64-104	85	10	E	A	H	34-45	38
6	KRL210 (C)	SPL-AST-105	tS	5S	92-103	98	134-150	140	61-120	90	10	E	A	H	39-45	42
7	Kharchia65 (C)	SPL-AST-103	80S	60S	92-102	98	134-148	139	68-137	112	45	E	R	H	33-40	37

1. Ancillary data from Nain, CSSRI, Karnal, CCSHAU, Hisar, Muktsar and IIWBR, Hisar

2. Brown and yellow rust data from CSSRI, Karnal and CCSHAU, Hisar.

SPL-AST-IR-TS-TAS, 2018-19 North Western Plains Zone Individual Station Disease Data

SN	Variety	Code	CSSRI, Karnal		CCSHAU, Hisar	
			Br	YI	Br	YI
1	WH1223	SPL-AST-101	0	0	0	tS
2	WH 1228	SPL-AST-106	0	0	tS	tS
3	NW 7062	SPL-AST-107	0	0	30S	10S
4	NW 7060	SPL-AST-104	0	0	tS	0
5	KRL19 (C)	SPL-AST-102	40S	0	60S	10S
6	KRL210 (C)	SPL-AST-105	0	0	tS	5S
7	Kharchia65 (C)	SPL-AST-103	80S	60S	80S	20S

Summary of Disease Data and Agronomic Characteristics

North Eastern Plains Zone

Trial: SPL-AST-IR-TS-TAS, 2018-19

SN	Variety	Code	Disease Reactions	Agronomic Characteristics						Grain Characteristics			
			Leaf Blight	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	WH1223	SPL-AST-101	12	99.7	117-140	132	86 -111	95	Ey	A	SO-SH	32 -38	36
2	WH 1228	SPL-AST-106	24	93.7	124-140	133	73-94	82	Ey	A	SH-H	22-42	35
3	NW 7062	SPL-AST-107	12	98.4	127-140	134	85-99	93	Ey-M	A	SH	31-43	38
4	NW 7060	SPL-AST-104	12	95.1	116-141	132	82-114	91	Ey	A	H	27-44	37
5	KRL19 (C)	SPL-AST-102	24	91.4	119-138	131	71 -109	89	Ey	A	SH-H	28-41	35
6	KRL210 (C)	SPL-AST-105	35	97.5	122-139	133	80-118	90	M	A	H	25-43	36
7	Kharchia65 (C)	SPL-AST-103	46	93.7	123-140	133	93-109	103	Ey-M	A	SO-SH	35-41	38

1. Ancillary data from Partapgarh, Lucknow, Dalipnagar and Faizabad.
2. Leaf blight data from Faizabad.

Summary of Disease Data and Agronomic Characteristics

Central Zone

Trial: SPL-AST-IR-TS-TAS, 2018-19

SN	Variety	Code	Agronomic Characteristics							Grain Characteristics			
			Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	WH1223	SPL-AST-101	60-77	69	77-129	105	90-95	92	Ey	A	SH	36 -40	38
2	WH 1228	SPL-AST-106	43-76	63	76-127	101	83-91	85	Ey	A	SH-H	41-42	41
3	NW 7062	SPL-AST-107	45-76	64	76-129	102	84-95	91	Ey	A	SH-H	41 -42	41
4	NW 7060	SPL-AST-104	42-76	61	77-122	100	79-89	83	Ey	A	SH	43 -44	43
5	KRL19 (C)	SPL-AST-102	42-71	59	71 -123	98	64-85	72	Ey	A	SH-H	36-37	37
6	KRL210 (C)	SPL-AST-105	48-78	64	78-124	101	77-90	82	Ey	A	SH-H	42 -45	43
7	Kharchia65 (C)	SPL-AST-103	56-79	71	80-133	108	96-102	100	Ey	R	SH-H	35-39	37

1. Ancillary data from Bharuch, Pali, Mangrol and Vallabhnagar.
2. No disease data reported from any centre.

1862-SPL-IR-TS-DIC-ALL-ZONE, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N.	Variety	Code	Maharashtra									Karnataka														
			Pune			Karad			Kolhapur			K-Digraj			Arbhavi			Ugar-Khurd			Kalloi			Mandya		
			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	MACS 5052	DIC-102	39.3	7	0	46.2	6	0	55.6	1	1	42.5	6	0	56.3	1	1	51.0	5	0	54.5	1	1	53.8	1	1
2	MACS 5053	DIC-106	43.8	5	0	49.3	5	0	44.6	6	0	48.1	4	0	51.4	3	1	55.8	2	1	48.6	4	0	46.3	3	0
3	DDK 1056	DIC-104	40.1	6	0	39.1	7	0	52.8	3	1	38.8	7	0	47.3	4	0	54.2	4	0	54.0	2	1	47.8	2	0
4	DDK 1057	DIC-107	44.3	4	0	51.7	4	1	51.7	4	1	61.9	1	1	44.2	6	0	48.7	6	0	47.0	6	0	39.7	7	0
5	DDK 1029 (C)	DIC-101	54.3	2	0	55.2	1	1	54.2	2	1	50.2	2	0	52.9	2	1	61.3	1	1	49.0	3	1	45.5	4	0
6	HW 1098 (C)	DIC-105	53.9	3	0	53.7	3	1	51.1	5	1	45.8	5	0	47.0	5	0	55.4	3	1	47.3	5	0	44.1	6	0
7	MACS 6222 (aest.)(C)	DIC-103	62.3	1	1	54.0	2	1	32.8	7	0	48.2	3	0	33.4	7	0	46.2	7	0	44.3	7	0	45.4	5	0
G.M.			48.3			49.9			49.0			47.9			47.5			53.2			49.2			46.1		
S.E.(M)			1.488			1.683			3.113			2.414			3.305			2.808			2.392			1.722		
C.D. (10%)			3.6			4.1			7.6			5.9			8.1			6.9			5.9			4.2		
C.V.			6.2			6.7			12.7			10.1			13.9			10.6			9.7			7.5		
D.O.S.(dd.mm.yy)			08.11.18			14.11.18			14.11.18			18.11.18			12.11.18			15.11.18			12.11.18			19.11.18		

No. of Trials: Proposed = 12 Conducted = 12

Trials not reported (03) = Mahabaleshwar (RMT), Mudhol (RMT), Wellington (LS)

1862-SPL-IR-TS-DIC-ALL-ZONE, 2018-19

STATE AND ZONAL MEANS (q/ha)

S.N.	Variety	Code	Maharashtra			Karnataka			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	MACS 5052	DIC-102	45.9	6	0	50.5	1	1	48.4	2	0
2	MACS 5053	DIC-106	46.5	5	0	46.7	4	0	46.6	5	0
3	DDK 1056	DIC-104	42.7	7	0	47.7	3	0	45.5	6	0
4	DDK 1057	DIC-107	52.4	2	1	42.4	6	0	46.8	4	0
5	DDK 1029 (C)	DIC-101	53.5	1	1	49.1	2	1	51.0	1	1
6	HW 1098 (C)	DIC-105	51.1	3	1	45.4	5	0	47.9	3	0
7	MACS 6222 (aest.)(C)	DIC-103	49.3	4	0	42.2	7	0	45.4	7	0
G.M.			48.8			46.3			47.4		
S.E.(M)			1.134			1.117			0.799		
C.D. (10%)			2.7			2.6			1.9		

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: SPL-IR-TS-DIC-All- Zone, 2018-19

SN	Variety	Code	Agronomic Characteristics						Grain Characteristics				
			Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	MACS5052	DIC 102	53-76	71	109-119	113	76-100	94	H	A	SO-SH	37-103	53
2	MACS5053	DIC 106	59-79	71	100-118	111	76-93	89	M-H	R	SO-SH	40-97	54
3	DDK1056	DIC104	55-75	68	107-117	111	74-100	86	H	R	SO-SH	36-96	54
4	DDK1057	DIC 107	47-79	71	108-120	113	76-107	89	H	A	SO-SH	40-101	54
5	DDK1029 (C)	DIC 101	53-78	70	108-119	113	66-97	82	H	R	SO-SH	41-97	53
6	HW1098 (C)	DIC 105	47-80	68	91-115	110	76-98	84	H	R	SO-SH	39-97	56
7	MACS6222 (<i>aest.</i>) (C)	DIC 103	48-78	61	103-116	108	72-97	83	Ey-M	A	SO-SH	42-49	46

1. Ancillary data from Wellington, Pune, Arbhavi, ARS Digraj, Kalloli, Dharwad, Ugar Khurd, Kolhapur, Karad and Mandya.
2. No disease incidence reported from any centre.

1863-SPL-VLS-TAS-NWPZ/NEPZ-ZONE, 2018-19

LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	Delhi			Haryana						Punjab			Uttarakhand			U.P.		
			Delhi			Hisar			Karnal			Ludhiana			Pantnagar			Bulandshahr		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HD 3298	VLS-103	39.4	1	1	40.9	2	1	40.8	3	1	37.9	4	0	35.1	5	0	41.7	1	1
2	HD 3271	VLS-104	31.1	6	0	41.2	1	1	45.5	1	1	36.3	7	0	36.6	2	1	38.2	5	0
3	HI 1621	VLS-107	36.8	4	1	36.6	4	0	40.0	4	1	41.9	1	1	33.6	6	0	39.9	4	0
4	PBW 797	VLS-108	35.4	5	0	33.3	7	0	44.6	2	1	39.2	2	1	32.7	7	0	41.0	2	0
5	PBW 757 (i)(C)	VLS-101	37.4	2	1	34.3	6	0	32.9	6	0	38.2	3	0	35.4	3	0	36.8	6	0
6	WR 544 (C)	VLS-102	23.2	8	0	33.1	8	0	17.7	8	0	36.3	6	0	28.6	8	0	34.1	8	0
7	DBW 14 (C)	VLS-105	27.3	7	0	36.8	3	0	32.4	7	0	31.2	8	0	38.1	1	1	40.4	3	0
8	DBW 71 (C)	VLS-106	37.1	3	1	35.6	5	0	39.1	5	0	37.5	5	0	35.1	4	0	36.0	7	0
G.M.			33.5			36.5			36.6			37.3			34.4			38.5		
S.E.(M)			1.462			1.543			2.349			1.520			0.812			0.244		
C.D. (10%)			3.6			3.8			5.7			3.7			2.0			0.6		
C.V.			8.7			8.5			12.8			8.1			4.7			1.3		
D.O.S.(dd.mm.yy)			05.01.19			09.01.19			01.01.19			01.01.19			15.01.19			04.01.19		

No. of Trials : Proposed = 15 Conducted = 15
Trials not reported (03) = Rampur (RMT), Chandauli (RMT), RPCAU-Pusa (LSM)

LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	U.P.												Bihar			W.B.		
			Nagina			Kanpur			Faizaba l			Varanasi			Sabour			Coochbehar		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HD 3298	VLS-103	43.9	1	1	27.5	3	0	20.7	5	0	33.1	4	0	22.3	6	0	25.4	6	0
2	HD 3271	VLS-104	43.5	2	1	29.7	2	0	19.6	8	0	35.8	1	1	30.2	2	1	26.1	5	0
3	HI 1621	VLS-107	38.9	7	0	21.9	7	0	24.0	2	1	27.9	8	0	31.1	1	1	28.2	3	0
4	PBW 797	VLS-108	38.4	8	0	21.4	8	0	20.4	6	0	32.7	5	0	26.6	3	0	33.6	1	1
5	PBW 757 (i)(C)	VLS-101	42.5	3	1	25.9	5	0	21.6	4	0	32.2	6	0	18.7	8	0	29.7	2	0
6	WR 544 (C)	VLS-102	41.0	5	0	24.2	6	0	22.9	3	1	29.0	7	0	22.1	7	0	23.9	7	0
7	DBW 14 (C)	VLS-105	39.3	6	0	26.4	4	0	25.3	1	1	35.5	2	1	25.6	4	0	23.7	8	0
8	DBW 71 (C)	VLS-106	41.6	4	0	32.2	1	1	20.4	6	0	34.9	3	1	25.4	5	0	28.0	4	0
G.M.			41.2			26.2			21.9			32.6			25.3			27.3		
S.E.(M)			0.630			0.565			1.056			0.838			0.696			0.944		
C.D. (10%)			1.5			1.4			2.6			2.0			1.7			2.3		
C.V.			3.1			4.3			9.7			5.1			5.5			6.9		
D.O.S.(dd.mm.yy)			03.01.19			10.01.19			14.01.19			01.01.19			02.01.19			02.01.19		

ZONAL AND NATIONAL MEANS (q/ha)

S.N	Variety	Code	NWPZ			NEPZ			NATIONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HD 3298	VLS-103	40.0	1	1	28.8	5	0	34.1	2	1
2	HD 3271	VLS-104	38.9	2	1	30.8	1	1	34.5	1	1
3	HI 1621	VLS-107	38.3	3	0	28.7	6	0	33.4	4	0
4	PBW 797	VLS-108	37.8	4	0	28.8	4	0	33.3	5	0
5	PBW 757 (i)(C)	VLS-101	36.8	6	0	28.5	7	0	32.1	6	0
6	WR 544 (C)	VLS-102	30.6	8	0	27.2	8	0	28.0	8	0
7	DBW 14 (C)	VLS-105	35.1	7	0	29.3	3	0	31.8	7	0
8	DBW 71 (C)	VLS-106	37.5	5	0	30.4	2	1	33.6	3	0
G.M.			36.9			29.1			32.6		
S.E.(M)			0.524			0.395			0.343		
C.D. (10%)			1.2			0.9			0.8		

Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: SPL-VLS -TAS-NWPZ/NEPZ, 2018-19

SN	Variety	Code	Disease Reactions			Agronomic Characteristics						Grain Characteristics				
			Br	YI	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HD3298	VLS-103	0	5S	1.2	68-75	73	99-113	104	90-103	96	Ey	A	H	28-38	33
2	HD3271	VLS-104	5S	10S	3.0	71-86	76	101-113	105	93-99	97	Ey	A	SH-H	27-38	33
3	HI1621	VLS-107	5S	5S	1.2	66-78	72	95-109	102	88-103	96	Ey	A	SH-H	28-37	33
4	PBW 797	VLS-108	tS	5S	2.0	69-77	74	99-116	106	80-94	89	Ey	A	H	25-36	32
5	PBW757 (C)	VLS-101	30S	5S	2.2	65-74	70	94-109	102	81-86	83	Ey	A	H	30-39	35
6	WR544 (C)	VLS-102	tS	40S	18.0	59-70	63	91-107	98	84-100	91	Ey	A	SH	26-40	34
7	DBW14 (C)	VLS-105	5S	10S	3.2	66-74	71	95-109	102	77-100	86	Ey	A	SH	31-40	35
8	DBW71 (C)	VLS-106	0	15S	4.0	69-75	72	94-109	101	84-92	88	Ey	A	H	29-35	32

1. Ancillary data from Ludhiana, Hisar, Delhi, Pantnagar, Nagina, Karnal and Bulandshahr.
2. Brown rust data from Hisar and Pantnagar centres.
3. Yellow rust data from Ludhiana, Hisar, Delhi, Pantnagar and Karnal centres.

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North Western Plains Zone

Individual Station Rust Data

SN	Variety	Code	Brown rust		Yellow rust				
			Hisar	Pantnagar	Ludhiana	Hisar	Delhi	Pantnagar	Karnal
1	HD3298	VLS-103	0	0	0	0	5S	0	tMS
2	HD3271	VLS-104	5S	0	0	5S	10S	0	0
3	HI1621	VLS-107	0	5S	0	0	5S	0	tMS
4	PBW 797	VLS-108	tS	0	5MS	0	5S	0	tMS
5	PBW757 (C)	VLS-101	30S	0	0	0	5S	5S	tMS
6	WR544 (C)	VLS-102	tS	0	20S	0	20S	10S	40S
7	DBW14 (C)	VLS-105	0	5S	5S	0	10S	0	5MR
8	DBW71 (C)	VLS-106	0	0	0	0	5S	0	15S

Summary of Disease Data and Agronomic Characteristics

North Eastern Plains Zone

Trial: SPL-VLS -TAS-NWPZ/NEPZ, 2018-19

SN	Variety	Code	Disease Reactions		Agronomic Characteristics						Grain Characteristics				
			Br	Leaf Blight HS(Avg.)	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HD3298	VLS-103	40S	36(24)	62-68	65	92-107	99	66-96	83	M	A	So-SH	26-36	30
2	HD3271	VLS-104	-	36(24)	60-69	65	91-105	98	74-98	83	Ey	A	So-SH	27-39	33
3	HI1621	VLS-107	40S	45(23)	62-67	63	88-103	96	69-94	81	Ey	A	SH	27-35	30
4	PBW 797	VLS-108	-	35(13)	64-73	68	93-109	101	64-88	77	Ey	A	SH	23-36	32
5	PBW757 (C)	VLS-101	-	25(13)	57-66	61	87-105	97	63-87	77	Ey	A	SH	27-35	31
6	WR544 (C)	VLS-102	40S	35(13)	53-57	55	84-100	93	68-92	80	Ey	A	SH	32-39	36
7	DBW14 (C)	VLS-105	-	36(24)	57-64	61	88-105	97	67-82	74	Ey	A	SH	29-39	34
8	DBW71 (C)	VLS-106	60S	35(13)	62-67	64	91-105	98	68-91	79	M	A	SH	24-41	32

1. Ancillary data from Coochbehar, Sabour, Kanpur, Faizabad, Varanasi and RPCAU, Pusa centres.
2. Brown rust data from Kanpur centre.
3. Leaf blight data from Coochbehar, Sabour, Kanpur, Faizabad centres.

SPL-VLS -TAS-NWPZ/NEPZ, 2018-19

North Eastern Plains Zone

Individual Station Leaf blight data

SN	Variety	Code	Coochbehar	Sabour	Kanpur	Faizabad
1	HD3298	VLS-103	35	36	00	35
2	HD3271	VLS-104	34	25	13	36
3	HI1621	VLS-107	45	13	00	24
4	PBW 797	VLS-108	35	14	00	23
5	PBW757 (C)	VLS-101	23	25	00	24
6	WR544 (C)	VLS-102	35	13	00	25
7	DBW14 (C)	VLS-105	34	36	24	12
8	DBW71 (C)	VLS-106	23	13	00	35

1864-SPL-HYPT-IR-TS-TAS-NWPZ, 2018-19
LOCATIONWISE AND ZONAL MEAN YIELD (q/ha)

S.N.	Variety	Code	Delhi			Haryana			Punjab						Uttrakhand			ZONAL					
			Delhi			Karnal			Ludhiana			Gurdaspur			Ladowal (BISA)			Pantnagar			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HD 3317	HYPT-101	73.0	5	1	84.5	12	0	82.1	6	0	63.4	11	0	65.3	12	0	74.0	5	0	73.7	10	0
2	WH 1254	HYPT-102	66.0	13	0	80.4	14	0	75.4	14	0	60.1	14	0	69.9	5	1	72.4	7	0	70.7	13	0
3	DBW 301	HYPT-103	71.4	6	1	78.0	15	0	79.1	10	0	66.7	8	0	68.4	7	0	66.6	15	0	71.7	11	0
4	WH 1270	HYPT-104	77.2	1	1	91.5	6	0	84.6	4	1	78.3	1	1	67.5	11	0	71.8	10	0	78.5	3	1
5	PBW 824	HYPT-106	68.4	11	0	98.8	1	1	87.2	2	1	66.5	9	0	68.0	8	0	71.1	11	0	76.7	5	0
6	UP 3043	HYPT-107	77.0	2	1	92.9	5	0	74.8	15	0	67.2	7	0	70.1	4	1	77.7	3	0	76.6	6	0
7	DBW 187	HYPT-108	70.9	7	1	96.6	3	1	77.4	12	0	75.6	2	1	74.6	1	1	76.5	4	0	78.6	2	1
8	DBW 303	HYPT-110	69.7	10	0	97.4	2	1	91.9	1	1	73.0	3	0	70.9	2	1	79.2	2	1	80.4	1	1
9	DBW 304	HYPT-111	62.2	14	0	87.8	9	0	77.4	12	0	66.3	10	0	49.5	15	0	71.0	12	0	69.0	14	0
10	UP 3042	HYPT-112	73.2	4	1	96.4	4	1	86.7	3	1	68.3	6	0	64.7	13	0	72.3	8	0	76.9	4	0
11	DBW 302	HYPT-113	70.4	8	1	89.2	7	0	79.2	9	0	60.1	13	0	69.4	6	0	79.3	1	1	74.6	9	0
12	PBW 825	HYPT-114	75.1	3	1	86.2	10	0	82.4	5	0	69.1	5	0	67.7	10	0	68.4	13	0	74.8	8	0
13	HD 3347	HYPT-115	67.0	12	0	85.2	11	0	81.9	7	0	62.6	12	0	63.5	14	0	67.3	14	0	71.2	12	0
14	HD 2967(C)	HYPT-105	57.5	15	0	81.6	13	0	78.4	11	0	38.1	15	0	67.8	9	0	72.0	9	0	65.9	15	0
15	HD 3086(C)	HYPT-109	70.3	9	1	88.3	8	0	80.5	8	0	69.9	4	0	70.4	3	1	73.9	6	0	75.6	7	0
G.M.			70.0			89.0			81.3			65.7			67.2			72.9			74.3		
S.E.(M)			3.108			1.915			3.233			1.941			2.091			0.471			0.945		
C.D. (10%)			7.4			4.6			7.7			4.6			5.0			1.1			2.2		
C.V.			8.9			4.3			8.0			5.9			6.2			1.3					
D.O.S.(dd.mm.yy)			25.10.18			25.10.18			22.10.18			30.10.18			19.10.18			02.11.18					

No. of Trials: Proposed = 07; Conducted = 07

Trials not reported (01) = Hisar (LSM)

Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: SPL-HYPT-IR-TS, 2018-19

SN	Variety		Disease Reactions				Agronomic Characteristics								Grain Characteristics			
			YI	ACI	Br	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Lod.M	Col.	Tex.	TGW.R	TGW.M
1	HD 3317	HYPT-1	10S	3.0	0	0	101-119	110	153-173	161	91-117	107	Ey-M	20	A	M-H	44-57	50
2	WH 1254	HYPT-2	5S	1.0	0	0	96-119	108	150-171	157	97-109	101	Ey-M	5	A	M-H	39-44	41
3	DBW 301	HYPT-3	tMS	0.1	0	0	102-130	116	150-174	159	82-104	92	Ey-M	10	A	M-H	35-43	40
4	WH 1270	HYPT-4	5MS	0.6	0	0	94-115	103	143-172	156	88-104	96	Ey-M	0	A	M-H	45-53	48
5	PBW 824	HYPT-6	5S	4.9	0	0	95-111	103	149-171	155	91-114	101	Ey-M	0	A	M-H	41-47	44
6	UP 3043	HYPT-7	5MS	1.0	5S	1.0	95-115	103	147-172	156	95-119	106	Ey-M	10	A	M-H	42-53	48
7	DBW 187	HYPT-8	5S	1.0	tS	0.2	96-115	103	148-172	157	96-125	106	Ey-M	10	A	M-H	42-61	49
8	DBW 303	HYPT-10	10S	3.4	tS	0.6	92-110	99	143-172	154	92-118	102	Ey-M	5	A	M-H	40-48	43
9	DBW 304	HYPT-11	5S	1.1	0	0	94-113	103	144-170	155	89-101	100	Ey-M	10	A	M-H	42-50	46
10	UP 3042	HYPT-12	10S	3.4	0	0	99-113	107	148-172	158	97-116	105	Ey-M	10	A	M-H	44-53	49
11	DBW 302	HYPT-13	10S	2.3	tS	0.2	104-125	115	156-174	161	94-118	107	Ey-M	15	A	M-H	35-48	42
12	PBW 825	HYPT-14	20S	7.4	0	0	96-112	105	149-171	157	89-110	102	Ey-M	10	A	M-H	40-50	44
13	HD 3347	HYPT-15	20S	6.0	40S	12.0	95-113	105	148-170	155	97-110	101	Ey-M	0	A	M-H	44-49	45
14	HD 2967 (C)	HYPT-5	60S	19.3	10S	2.0	100-119	111	153-171	159	94-112	103	Ey-M	5	A	M-H	23-47	41
15.	HD 3086 (C)	HYPT-9	5S	1.5	10S	5.0	91-110	100	141-172	154	92-112	100	Ey-M	5	A	M-H	40-51	45

1. Ancillary data from PAU- Ludhiana, Hisar, Karnal, Delhi, Gurdaspur, Pantnagar and BISA, Ludhiana centres.
2. Yellow rust data from PAU, Ludhiana, Hisar, Karnal, Delhi, Gurdaspur, Pantnagar and BISA, Ludhiana centres.
3. Brown rust data from Hisar, Delhi, Gurdaspur, Pantnagar and Karnal centres.
4. Lodging data from Hisar, Delhi, Gurdaspur, Ludhiana, Pantnagar and BISA, Ludhiana.

Individual Station Rust Data
Trial: SPL-HYPT-IR-TS, 2018-19

SN	Variety	Code	Hisar		Pantnagar		Karnal		Gurdaspur		Delhi	BISA	PAU
			YI	Br	YI	Br	YI	YI	YI	Br	YI	YI	YI
1	HD 3317	HYPT-1	tMS	0	0	0	10S	0	10S	0	0	0	0
2	WH 1254	HYPT-2	0	0	0	0	tMS	0	5S	0	0	0	0
3	DBW 301	HYPT-3	0	0	0	0	0	0	tMS	0	0	0	0
4	WH 1270	HYPT-4	0	0	0	0	0	0	5MS	0	0	0	0
5	PBW 824	HYPT-6	5S	0	0	0	tMR	0	5S	0	0	30MS	0
6	UP 3043	HYPT-7	tMS	0	0	5S	tMR	0	5MS	0	0	5MR	0
7	DBW 187	HYPT-8	tMS	0	0	0	tMS	0	5S	0	0	5R	0
8	DBW 303	HYPT-10	0	0	0	0	tS	0	10S	0	5S	10MS	0
9	DBW 304	HYPT-11	tMS	0	0	0	0	0	5S	0	0	5MR	0
10	UP 3042	HYPT-12	0	0	0	0	tMS	0	10S	0	5S	10MS	0
11	DBW 302	HYPT-13	tMS	0	0	ts	10S	tMR	5MS	0	0	0	tMR
12	PBW 825	HYPT-14	5MS	0	0	0	5S	5S	20S	0	10S	10MS	5S
13	HD 3347	HYPT-15	0	0	0	40S	10S	20S	10S	10S	0	5MR	20S
14	HD 2967 (C)	HYPT-5	15S	0	0	10S	20S	10S	60S	0	0	30S	10S
15	HD 3086 (C)	HYPT-9	tMS	5S	0	5S	tMS	0	5S	5S	0	5MS	0