

1812-AVT-IR-TS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N.	Variety	Code	H.P.									UTK		
			Bajaura			Shimla			Malan			Almora		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS 652	NHTSZ 1804	54.2	2	1	44.5	4	0	46.2	5	0	35.3	4	1
2	HPW 349 (C)	NHTSZ 1801	47.2	5	0	45.8	2	0	51.0	2	1	32.0	5	0
3	VL 907 (C)	NHTSZ 1802	49.8	3	0	45.3	3	0	49.1	4	0	36.5	2	1
4	HS 507 (C)	NHTSZ 1803	47.6	4	0	43.8	5	0	50.6	3	1	36.4	3	1
5	HS 562 (C)	NHTSZ 1805	54.5	1	1	48.2	1	1	52.4	1	1	37.2	1	1
G.M.			50.7			45.5			49.9			35.5		
S.E.(M)			1.216			0.713			0.943			1.618		
C.D. (10%)			3.0			1.7			2.3			3.9		
C.V.			5.9			3.8			4.6			11.2		
D.O.S.(dd.mm.yy)			13.11.18			14.11.18			07.11.18			14.11.18		

No. of Trials: Proposed and conducted = 4
 Trials not Conducted = 0

1812-AVT-IR-TS-TAS-NHZ, 2018-19
STATE AND ZONAL MEANS (q/ha)

S.N.	Variety	Code	H.P.			UTK			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS 652	NHTSZ 1804	48.3	2	0	35.3	4	1	45.0	3	0
2	HPW 349 (C)	NHTSZ 1801	48.0	4	0	32.0	5	0	44.0	5	0
3	VL 907 (C)	NHTSZ 1802	48.1	3	0	36.5	2	1	45.2	2	0
4	HS 507 (C)	NHTSZ 1803	47.3	5	0	36.4	3	1	44.6	4	0
5	HS 562 (C)	NHTSZ 1805	51.7	1	1	37.2	1	1	48.1	1	1
G.M.			48.7			35.5			45.4		
S.E.(M)			0.566			1.618			0.586		
C.D. (10%)			1.3			3.9			1.4		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: AVT-IR-TS-TAS, 2018-19

SN	Variety	Code	Disease Reactions				Agronomic Characteristics							Grain Characteristics			
			YI	ACI	Br	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HS 652	NHTSZ 1804	10S	5.0	0	3	133-144	139	173-186	179	85-109	95	Ey	A	SH	39-43	41
2	HPW 349 (C)	NHTSZ 1801	5S	3.8	tS	4	128-141	135	172-185	177	89-116	100	Ey	A	SH	35-43	39
3	VL 907 (C)	NHTSZ 1802	5S	3.8	5S	3	132-142	137	172-185	178	94-116	104	Ey	A	SH	38-44	41
4	HS 507 (C)	NHTSZ 1803	5S	3.8	tS	2	134-146	139	173-188	180	93-114	100	Ey	A	SH	40-44	43
5	HS 562 (C)	NHTSZ 1805	5S	2.5	tS	4	133-143	138	172-184	178	90-108	98	Ey	A	SH	39-47	42

1. Ancillary data from Almora, Bajaura, Malan and Shimla.
2. Yellow rust data from Almora, Bajaura, Malan and Shimla.
3. Brown rust data from Almora.
4. Powdery mildew data from Almora and Malan.

Northern Hills Zone Individual Station Rust Data

SN	Variety	Code	Almora	Bajaura	Malan	Shimla
1	HS652	NHTSZ 1804	0	0	10S	10S
2	HPW349 (C)	NHTSZ 1801	0	5S	5S	5S
3	VL907 (C)	NHTSZ 1802	5S	0	5S	5S
4	HS507 (C)	NHTSZ 1803	5S	10MR	tS	5S
5	HS562 (C)	NHTSZ 1805	0	0	5S	5S

1814-AVT-RI-LS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	H.P.														
			Bajaura			Dhaulakuan			Shimla			Malan			Una		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HPW 468	NHLSZ 1803	35.1	7	0	27.3	8	0	29.5	7	0	11.4	10	0	26.3	8	0
2	HS 673	NHLSZ 1804	26.9	10	0	33.1	2	0	27.6	10	0	21.2	6	0	26.0	9	0
3	VL 3020	NHLSZ 1805	40.2	3	1	29.3	6	0	29.1	8	0	27.5	1	1	30.2	5	0
4	UP 3041	NHLSZ 1806	33.7	8	0	22.9	10	0	28.7	9	0	23.7	4	0	32.3	3	1
5	HPW 467	NHLSZ 1807	35.8	6	0	31.1	3	0	32.3	2	0	25.6	3	1	22.7	10	0
6	HS 674	NHLSZ 1808	43.5	1	1	28.6	7	0	30.0	4	0	22.3	5	0	26.3	7	0
7	VL 3019	NHLSZ 1809	40.3	2	1	26.9	9	0	29.6	5	0	16.7	8	0	26.8	6	0
8	VL 3021	NHLSZ 1810	31.2	9	0	30.1	4	0	31.5	3	0	20.9	7	0	32.9	2	1
9	VL 892 (C)	NHLSZ 1801	36.4	5	0	37.9	1	1	29.6	6	0	15.9	9	0	33.0	1	1
10	HS 490 (C)	NHLSZ 1802	39.2	4	0	30.1	5	0	35.6	1	1	26.3	2	1	30.7	4	0
G.M.			36.2			29.7			30.3			21.2			28.7		
S.E.(M)			1.416			0.843			0.986			0.970			0.586		
C.D. (10%)			3.4			2.0			2.3			2.3			1.4		
C.V.			9.6			6.9			8.0			11.2			5.0		
D.O.S.(dd.mm.yy)			05.12.18			01.12.18			04.12.18			03.12.18			06.12.18		

No. of Trials: Proposed = 11

Conducted = 11

Trial not conducted (01) = Gangtok Trials not Reported (01) = Ranichauri (LSM)

1814-AVT-RI-LS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	UTK						MANIPUR			W.B.		
			Almora			Majhera			CAU-Imphal			Kalimpong		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HPW 468	NHLSZ 1803	24.9	8	0	15.1	9	0	22.6	4	0	29.0	9	0
2	HS 673	NHLSZ 1804	32.0	2	1	16.5	5	0	27.8	1	1	34.1	5	1
3	VL 3020	NHLSZ 1805	30.4	5	1	16.0	7	0	20.5	7	0	25.7	10	0
4	UP 3041	NHLSZ 1806	21.9	10	0	17.0	4	0	22.5	5	0	37.8	1	1
5	HPW 467	NHLSZ 1807	30.5	4	1	16.4	6	0	19.6	8	0	36.9	2	1
6	HS 674	NHLSZ 1808	28.5	7	0	20.0	1	1	19.6	9	0	29.2	8	0
7	VL 3019	NHLSZ 1809	30.4	6	1	12.5	10	0	16.6	10	0	35.2	4	1
8	VL 3021	NHLSZ 1810	32.3	1	1	18.2	2	1	20.7	6	0	33.4	7	0
9	VL 892 (C)	NHLSZ 1801	31.5	3	1	15.6	8	0	24.3	3	0	35.3	3	1
10	HS 490 (C)	NHLSZ 1802	24.5	9	0	18.1	3	1	26.3	2	1	34.1	6	1
G.M.			28.7			16.5			22.1			33.1		
S.E.(M)			1.051			1.125			1.248			1.599		
C.D. (10%)			2.5			2.7			3.0			4.1		
C.V.			9.0			16.7			13.9			6.8		
D.O.S.(dd.mm.yy)			10.12.18			10.12.18			07.12.18			10.11.18		

1814-AVT-RI-LS-TAS-NHZ, 2018-19
STATE AND ZONAL MEANS (q/ha)

S.N	Variety	Code	H.P.			UTK			MANIPUR			W.B.			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HPW 468	NHLSZ 1803	25.9	10	0	20.0	9	0	22.6	4	0	29.0	9	0	24.6	10	0
2	HS 673	NHLSZ 1804	26.9	9	0	24.3	2	1	27.8	1	1	34.1	5	1	27.2	7	0
3	VL 3020	NHLSZ 1805	31.3	2	0	23.2	6	0	20.5	7	0	25.7	10	0	27.7	5	0
4	UP 3041	NHLSZ 1806	28.2	7	0	19.5	10	0	22.5	5	0	37.8	1	1	26.7	8	0
5	HPW 467	NHLSZ 1807	29.5	5	0	23.4	5	0	19.6	8	0	36.9	2	1	27.9	4	0
6	HS 674	NHLSZ 1808	30.1	4	0	24.2	3	1	19.6	9	0	29.2	8	0	27.5	6	0
7	VL 3019	NHLSZ 1809	28.1	8	0	21.5	7	0	16.6	10	0	35.2	4	1	26.1	9	0
8	VL 3021	NHLSZ 1810	29.3	6	0	25.3	1	1	20.7	6	0	33.4	7	0	27.9	3	0
9	VL 892 (C)	NHLSZ 1801	30.5	3	0	23.6	4	1	24.3	3	0	35.3	3	1	28.8	2	1
10	HS 490 (C)	NHLSZ 1802	32.3	1	1	21.3	8	0	26.3	2	1	34.1	6	1	29.4	1	1
G.M.			29.2			22.6			22.1			33.1			27.4		
S.E.(M)			0.446			0.770			1.248			1.599			0.376		
C.D. (10%)			1.0			1.8			3.0			4.1			0.9		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: AVT-RI-LS-TAS, 2018-19

SN	Variety	Code	Disease Reactions				Agronomic Characteristics								Grain Characteristics			
			YI	ACI	Br	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Lod.	Col.	Tex.	TGW.R	TGW.M
1	HPW468	NHLSZ 1803	tMR	0.1	0	1	82-125	109	125-178	153	77-115	93	Ey-M	0	A	SH	37-55	43
2	HS673	NHLSZ 1804	tMR	0.1	20S	3	82-126	108	123-176	152	79-101	89	Ey-M	5	A	SH	34-44	39
3	VL3020	NHLSZ 1805	10S	3.3	0	1	88-123	108	127-175	152	78-108	95	Ey-M	0	A	SH	37-55	43
4	UP3041	NHLSZ 1806	0	0.0	0	1	90-125	112	128-180	155	82-122	108	Ey-M	40	A	SH-H	36-51	41
5	HPW467	NHLSZ 1807	tS	0.5	0	1	92-123	110	124-175	153	77-118	93	Ey-M	0	A	SH	32-55	41
6	HS674	NHLSZ 1808	10S	5.0	0	1	82-125	110	125-178	153	77-103	91	Ey-M	0	A	SH-H	31-45	38
7	VL3019	NHLSZ 1809	tMR	0.2	0	1	82-126	110	129-179	154	79-105	93	Ey-M	0	A	SH-H	38-52	42
8	VL3021	NHLSZ 1810	tMR	0.5	tS	3	90-125	110	123-177	152	74-99	87	Ey-M	0	A	SH	36-52	41
9	VL892 (C)	NHLSZ 1801	10MS	2.7	0	1	85-126	108	121-175	148	74-103	87	Ey-M	20	A	SH	33-51	39
10	HS490 (C)	NHLSZ 1802	10MS	2.7	0	1	82-122	110	124-174	153	78-98	90	Ey-M	0	A	SO-SH	36-59	44

1. Ancillary data from Almora, Bajaura, Dhaulakuan, Malan, Majhera, Shimla, Una and Imphal.
2. Yellow rust data from Almora, Bajaura and Una.
3. Brown rust and Powdery mildew data from Almora.
4. Lodging data from Almora and Malan.

Northern Hills Zone Individual Station Rust Data

SN	Variety	Code	Dhaulakuan	Almora		Bajaura	Una
			Br	Br	YI	YI	YI
1	HPW468	NHLSZ 1803	0	0	0	0	tMR
2	HS673	NHLSZ 1804	20S	20S	0	0	tMR
3	VL3020	NHLSZ 1805	0	0	0	10S	0
4	UP3041	NHLSZ 1806	0	0	0	0	0
5	HPW467	NHLSZ 1807	0	0	0	tS	tMR
6	HS674	NHLSZ 1808	0	0	5S	10S	0
7	VL3019	NHLSZ 1809	0	0	0	tR	tMR
8	VL3021	NHLSZ 1810	0	tS	tS	0	tMR
9	VL892 (C)	NHLSZ 1801	0	0	0	10MS	0
10	HS490 (C)	NHLSZ 1802	0	0	0	10MS	0

1813-AVT-RF-TS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	H.P.														
			Bajaura			Shimla			Berthin			Malan			Dhaulakuan		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS 652	NHTSZ 1804	30.0	4	1	41.9	1	1	51.5	1	1	43.3	5	0	41.7	5	0
2	HPW 349 (C)	NHTSZ 1801	31.4	2	1	35.1	3	0	50.3	2	1	43.4	4	0	47.6	1	1
3	VL 907 (C)	NHTSZ 1802	30.8	3	1	38.8	2	0	47.2	4	1	45.4	3	0	43.6	3	0
4	HS 507 (C)	NHTSZ 1803	27.8	5	0	33.6	5	0	45.3	5	1	47.5	2	1	43.5	4	0
5	HS 562 (C)	NHTSZ 1805	31.8	1	1	35.0	4	0	47.9	3	1	48.5	1	1	47.0	2	1
G.M.			30.4			36.9			48.4			45.6			44.7		
S.E.(M)			0.961			0.888			3.242			1.004			1.392		
C.D. (10%)			2.3			2.2			7.9			2.4			3.4		
C.V.			7.8			5.9			16.4			5.4			7.6		
D.O.S.(dd.mm.yy)			25.10.18			20.10.18			13.10.18			27.10.18			28.10.18		

No. of Trials : Proposed = 11 Conducted = 11
 Trials not conducted (0) = Nil
 Trials not reported (01) = Ranichauri (RMT)

1813-AVT-RF-TS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	H.P.			J&K						UTK					
			Akrot			Khudwani			Wadura			Almora			Majhera		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS 652	NHTSZ 1804	36.8	1	1	55.3	3	0	37.3	3	0	20.2	4	0	38.2	5	0
2	HPW 349 (C)	NHTSZ 1801	28.3	4	0	62.0	2	1	39.7	2	1	19.0	5	0	43.8	2	1
3	VL 907 (C)	NHTSZ 1802	30.4	3	0	51.8	4	0	35.0	4	0	21.6	3	0	39.2	4	0
4	HS 507 (C)	NHTSZ 1803	25.2	5	0	49.2	5	0	33.1	5	0	23.0	2	1	42.7	3	1
5	HS 562 (C)	NHTSZ 1805	35.2	2	0	64.5	1	1	41.9	1	1	24.4	1	1	45.5	1	1
G.M.			31.2			56.6			37.4			21.6			41.9		
S.E.(M)			0.306			1.310			1.553			1.117			1.939		
C.D. (10%)			0.7			3.2			3.8			2.7			4.7		
C.V.			2.4			5.7			10.2			12.6			11.3		
D.O.S.(dd.mm.yy)			20.10.18			23.10.18			25.10.18			16.10.18			27.10.18		

1813-AVT-RF-TS-TAS-NHZ, 2018-19
STATE AND ZONAL MEANS (q/ha)

SN	Variety	Code	H.P.			J&K			UTK			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS 652	NHTSZ 1804	40.9	2	1	46.3	3	0	29.2	5	0	39.6	3	0
2	HPW 349 (C)	NHTSZ 1801	39.4	3	0	50.9	2	1	31.4	3	0	40.1	2	0
3	VL 907 (C)	NHTSZ 1802	39.4	4	0	43.4	4	0	30.4	4	0	38.4	4	0
4	HS 507 (C)	NHTSZ 1803	37.1	5	0	41.2	5	0	32.8	2	1	37.1	5	0
5	HS 562 (C)	NHTSZ 1805	40.9	1	1	53.2	1	1	34.9	1	1	42.2	1	1
G.M.			39.5			47.0			31.8			39.5		
S.E.(M)			0.651			1.016			1.119			0.334		
C.D. (10%)			1.5			2.4			2.7			0.8		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: AVT-TS-RF-TAS, 2018-19

SN	Variety	Code	Disease Reactions				Agronomic Characteristics							Grain Characteristics			
			YI	ACI	Br	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HS652	NHTSZ 1804	10S	4.5	-	2	189-189	138	167-237	192	83-106	93	Ey	A	SH	35-46	40
2	HPW349 (C)	NHTSZ 1801	60S	17.5	-	3	187-187	134	162-235	189	81-108	97	Ey	A	SH	35-45	41
3	VL907 (C)	NHTSZ 1802	10MR	1.5	-	4	190-190	134	164-236	189	83-110	97	Ey	A	SH	36-44	41
4	HS507 (C)	NHTSZ 1803	60S	20.2	-	3	187-187	138	165-236	192	76-108	96	Ey	A	SH	34-44	39
5	HS562 (C)	NHTSZ 1805	40MR	6.5	20S	4	187-187	138	166-236	192	82-109	96	Ey	A	SH	31-46	40

1. Ancillary data from Akrot, Almora, Bajaura, Berthin, Dhaulakuan, Khudwani, Malan, Majhera, Shimla and Wadura.
2. Yellow rust data from Akrot, Dhaulakuan, Khudwani and Malan.
3. Brown rust from Bajaura. Powdery mildew data from Almora and Malan.
4. Lodging data from Almora and Malan.

Northern Hills Zone Individual Station Rust Data

SN	Variety	Code	Akrot	Dhaulakuan	Khudwani	Malan
1	HS652	NHLSZ 1804	10MR	0	10MR	10S
2	HPW349 (C)	NHLSZ 1801	0	5S	60S	5S
3	VL907 (C)	NHLSZ 1802	0	tS	10MR	tS
4	HS507 (C)	NHLSZ 1803	0	20S	60S	tS
5	HS562 (C)	NHLSZ 1805	0	5S	40MR	5S

1811-IVT-RF-TS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	H.P.											
			Dhaulakuan			Shimla			Malan			Bajaura		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HPW 462	NHIVT 1801	38.6	13	0	20.7	13	0	33.1	4	1	28.5	12	0
2	HPW 466	NHIVT 1802	47.1	2	1	20.2	15	0	32.3	6	1	37.5	1	1
3	VL 2038	NHIVT 1803	44.6	5	0	45.4	1	1	28.6	13	0	30.3	9	0
4	VL 2037	NHIVT 1804	49.6	1	1	31.6	9	0	23.1	15	0	30.5	8	0
5	UP 3038	NHIVT 1806	44.0	6	0	36.3	5	0	30.4	10	0	31.9	6	0
6	VL 2035	NHIVT 1807	43.3	8	0	33.5	7	0	28.8	12	0	32.6	4	0
7	HS 667	NHIVT 1808	41.1	11	0	38.7	2	0	22.9	16	0	28.6	11	0
8	HS 668	NHIVT 1809	43.1	9	0	33.5	8	0	33.8	3	1	31.3	7	0
9	HS 669	NHIVT 1810	41.1	11	0	37.7	3	0	31.3	8	0	37.2	2	1
10	UP 3039	NHIVT 1811	43.8	7	0	30.3	10	0	32.0	7	1	28.2	13	0
11	VL 2036	NHIVT 1813	46.4	3	1	29.5	11	0	32.6	5	1	35.1	3	1
12	HPW 464	NHIVT 1814	36.2	15	0	20.6	14	0	26.9	14	0	32.1	5	0
13	HPW 463	NHIVT 1815	35.7	16	0	21.3	12	0	35.4	1	1	23.1	16	0
14	HD 3340	NHIVT 1816	37.9	14	0	16.2	16	0	34.5	2	1	27.3	14	0
15	HS 507 (C)	NHIVT 1805	46.0	4	1	34.0	6	0	30.6	9	0	25.5	15	0
16	HS 562 (C)	NHIVT 1812	42.6	10	0	37.6	4	0	30.3	11	0	28.8	10	0
G.M.			42.6			30.4			30.4			30.5		
S.E.(M)			1.743			1.175			1.636			1.123		
C.D. (10%)			4.1			2.8			3.9			2.7		
C.V.			8.2			7.7			10.8			7.4		
D.O.S.(dd.mm.yy)			30.10.18			16.10.18			30.10.18			25.10.18		

No. of Trials: Proposed = 08

Conducted = 08

1811-IVT-RF-TS-TAS-NHZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	J&K						UTK					
			Wadura			Khudwani			Almora			Ranichauri		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HPW 462	NHIVT 1801	30.3	14	0	40.4	1	1	21.1	14	0	26.6	4	0
2	HPW 466	NHIVT 1802	34.4	12	0	33.6	13	0	28.1	5	0	18.3	14	0
3	VL 2038	NHIVT 1803	38.8	9	0	37.9	3	1	21.4	13	0	19.5	13	0
4	VL 2037	NHIVT 1804	40.5	5	0	35.8	6	0	25.1	11	0	29.9	2	0
5	UP 3038	NHIVT 1806	26.4	16	0	37.0	4	0	28.0	6	0	21.9	7	0
6	VL 2035	NHIVT 1807	34.8	11	0	35.0	9	0	30.8	3	0	24.3	6	0
7	HS 667	NHIVT 1808	38.9	8	0	34.9	10	0	17.2	15	0	24.5	5	0
8	HS 668	NHIVT 1809	40.1	6	0	34.2	12	0	27.2	8	0	33.5	1	1
9	HS 669	NHIVT 1810	46.1	2	1	31.0	16	0	26.6	9	0	21.0	10	0
10	UP 3039	NHIVT 1811	42.1	3	0	35.4	7	0	27.9	7	0	19.6	12	0
11	VL 2036	NHIVT 1813	47.3	1	1	36.0	5	0	28.4	4	0	16.9	15	0
12	HPW 464	NHIVT 1814	39.9	7	0	35.1	8	0	15.6	16	0	21.4	9	0
13	HPW 463	NHIVT 1815	38.8	10	0	38.1	2	1	26.1	10	0	28.9	3	0
14	HD 3340	NHIVT 1816	33.6	13	0	31.5	15	0	23.8	12	0	20.6	11	0
15	HS 507 (C)	NHIVT 1805	29.8	15	0	32.8	14	0	33.6	2	1	13.2	16	0
16	HS 562 (C)	NHIVT 1812	41.7	4	0	34.5	11	0	34.0	1	1	21.5	8	0
G.M.			37.7			35.2			25.9			22.6		
S.E.(M)			1.314			1.370			1.066			1.382		
C.D. (10%)			3.1			3.3			2.5			3.3		
C.V.			7.0			7.8			8.2			12.2		
D.O.S.(dd.mm.yy)			25.10.18			29.10.18			17.10.18			27.10.18		

1811-IVT-RF-TS-TAS-NHZ, 2018-19

STATE AND ZONAL MEANS (q/ha)

S.N	Variety	Code	H.P.			J&K			UTK			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HPW 462	NHIVT 1801	30.2	13	0	35.4	11	0	23.9	7	0	29.9	14	0
2	HPW 466	NHIVT 1802	34.3	8	0	34.0	13	0	23.2	11	0	31.4	10	0
3	VL 2038	NHIVT 1803	37.2	1	1	38.3	5	0	20.4	15	0	33.3	5	0
4	VL 2037	NHIVT 1804	33.7	10	0	38.2	6	0	27.5	4	0	33.3	6	0
5	UP 3038	NHIVT 1806	35.6	4	1	31.7	15	0	24.9	6	0	32.0	9	0
6	VL 2035	NHIVT 1807	34.6	7	0	34.9	12	0	27.5	3	0	32.9	7	0
7	HS 667	NHIVT 1808	32.8	12	0	36.9	10	0	20.8	14	0	30.8	12	0
8	HS 668	NHIVT 1809	35.4	5	0	37.1	9	0	30.4	1	1	34.6	1	1
9	HS 669	NHIVT 1810	36.8	2	1	38.6	3	0	23.8	8	0	34.0	3	1
10	UP 3039	NHIVT 1811	33.6	11	0	38.8	2	0	23.7	9	0	32.4	8	0
11	VL 2036	NHIVT 1813	35.9	3	1	41.7	1	1	22.6	12	0	34.0	2	1
12	HPW 464	NHIVT 1814	28.9	15	0	37.5	8	0	18.5	16	0	28.5	15	0
13	HPW 463	NHIVT 1815	28.9	16	0	38.4	4	0	27.5	5	0	30.9	11	0
14	HD 3340	NHIVT 1816	29.0	14	0	32.6	14	0	22.2	13	0	28.2	16	0
15	HS 507 (C)	NHIVT 1805	34.0	9	0	31.3	16	0	23.4	10	0	30.7	13	0
16	HS 562 (C)	NHIVT 1812	34.9	6	0	38.1	7	0	27.7	2	0	33.9	4	1
G.M.			33.5			36.5			24.3			31.9		
S.E.(M)			0.723			0.949			0.873			0.484		
C.D. (10%)			1.7			2.2			2.1			1.1		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: IVT-RF-TS-TAS, 2018-19

SN	Variety	Code	Disease Reactions			Agronomic Characteristics								Grain Characteristics			
			YI	ACI	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HPW462	NHIVT 1801	60MS	9.6	4	95-182	134	162-231	195	91-109	100	30	Ey	A	SH	33-47	42
2	HPW466	NHIVT 1802	40MS	10.4	3	109-181	143	168-228	196	93-112	100	35	Ey	A	SH	38-44	41
3	VL2038	NHIVT 1803	20MR	1.6	2	119-182	147	167-228	198	94-109	104	65	Ey	A	SH	34-40	37
4	VL2037	NHIVT 1804	10MR	1.0	3	118-183	145	170-230	197	95-117	106	25	Ey	A	SH	37-40	38
5	UP3038	NHIVT 1806	20S	8.2	3	110-181	144	169-230	198	91-107	98	15	Ey	A	SH	36-45	40
6	VL2035	NHIVT 1807	20MR	1.6	2	105-182	140	166-229	196	89-104	98	20	Ey	A	SH	36-44	41
7	HS667	NHIVT 1808	10MR	0.4	1	119-183	148	172-231	200	99-130	114	70	Ey	A	SH	30-39	36
8	HS668	NHIVT 1809	60MS	10.6	2	108-181	143	169-230	197	93-116	100	10	Ey	A	SH	37-43	40
9	HS669	NHIVT 1810	5R	0.4	4	118-180	146	173-228	197	96-115	102	35	Ey	A	SH	35-45	40
10	UP3039	NHIVT 1811	40MS	6.4	2	110-183	144	168-230	196	94-106	101	30	Ey	A	SH	38-43	40
11	VL2036	NHIVT 1813	60S	12.2	3	109-182	142	167-231	196	92-109	99	45	Ey	A	SH	40-46	44
12	HPW464	NHIVT 1814	10MR	0.8	2	102-183	135	172-229	196	81-110	97	70	Ey	A	SH	32-40	37
13	HPW463	NHIVT 1815	40MS	6.4	3	93-182	137	166-228	196	93-111	102	15	Ey	A	SH	36-46	42
14	HD3340	NHIVT 1816	5S	2.8	3	92-183	130	160-230	194	86-101	92	0	Ey	A	SH	34-45	41
15	HS507 (C)	NHIVT 1805	20S	5.6	3	120-182	149	172-229	199	93-107	99	0	Ey	A	SH	38-43	40
16	HS562 (C)	NHIVT 1812	5S	1.0	3	118-183	149	172-230	199	91-107	98	10	Ey	A	SH	38-43	41

1. Ancillary data from Almora, Bajaura, Dhaulakuan, Khudwani, Malan and Shimla.
2. Yellow rust data from Almora, Bajaura, Dhaulakuan, Khudwani and Malan.
3. Powdery mildew data from Almora and Malan. Lodging data from Almora.

**Northern Hills Zone
Individual Station Yellow Rust Data**

SN	Variety	Code	Almora	Bajaura	Dhaulakuan	Khudwani	Malan
1	HPW462	NHIVT 1801	0	0	0	60MS	0
2	HPW466	NHIVT 1802	0	0	0	40MS	20S
3	VL2038	NHIVT 1803	0	0	0	20MR	0
4	VL2037	NHIVT 1804	0	0	tS	10MR	0
6	UP3038	NHIVT 1806	0	0	20S	5R	20S
7	VL2035	NHIVT 1807	tR	0	0	20MR	0
8	HS667	NHIVT 1808	0	0	0	10MR	0
9	HS668	NHIVT 1809	0	tR	0	60MS	5S
10	HS669	NHIVT 1810	0	0	tS	5R	0
11	UP3039	NHIVT 1811	0	0	0	40MS	0
13	VL2036	NHIVT 1813	0	0	0	60S	tS
14	HPW464	NHIVT 1814	tR	0	0	10MR	0
15	HPW463	NHIVT 1815	0	0	0	40MS	0
16	HD3340	NHIVT 1816	0	0	5S	10MR	5S
17	HS507 (C)	NHIVT 1805	0	0	20S	20MR	0
18	HS562 (C)	NHIVT 1812	0	0	0	0R	5S