

1911-IVT-RF-TS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	H.P.												J&K		
			Dhaulakuan			Shimla			Malan			Bajaura			Wadura		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	SKW356	NHIVT 1902	26.1	15	0	22.8	15	0	22.3	8	0	19.0	13	0	35.8	3	0
2	VL2042	NHIVT 1903	41.1	1	1	35.0	3	0	24.3	4	0	19.6	11	0	29.3	11	0
3	HPW471	NHIVT 1904	39.7	2	1	42.6	1	1	22.1	9	0	20.4	9	0	27.9	13	0
4	HS675	NHIVT 1905	36.6	3	0	33.4	4	0	32.2	2	0	22.0	5	0	33.0	6	0
5	HPW472	NHIVT 1906	33.0	5	0	25.5	12	0	22.8	7	0	21.0	7	0	25.8	16	0
6	VL2039	NHIVT 1907	25.2	16	0	19.9	16	0	16.2	16	0	22.6	4	1	31.8	9	0
7	HS677	NHIVT 1908	27.2	13	0	25.2	14	0	16.9	15	0	21.7	6	0	29.2	12	0
8	HS676	NHIVT 1909	27.2	12	0	28.8	9	0	23.2	6	0	20.4	9	0	32.3	8	0
9	UP3064	NHIVT 1910	29.5	9	0	28.8	8	0	18.7	12	0	19.6	11	0	32.9	7	0
10	HS678	NHIVT 1911	29.0	11	0	25.5	12	0	17.8	13	0	22.8	3	1	38.8	1	1
11	HPW470	NHIVT 1913	31.3	6	0	41.4	2	1	23.6	5	0	23.4	2	1	34.6	4	0
12	HPW469	NHIVT 1914	29.9	8	0	31.8	7	0	21.9	10	0	18.9	14	0	26.5	15	0
13	VL2041	NHIVT 1915	29.9	7	0	33.2	6	0	27.3	3	0	24.8	1	1	27.1	14	0
14	VL2040	NHIVT 1916	29.5	9	0	28.5	10	0	17.6	14	0	17.3	15	0	30.8	10	0
15	HS507 (C)	NHIVT 1901	26.3	14	0	25.9	11	0	38.3	1	1	17.2	16	0	36.0	2	0
16	HS562 (C)	NHIVT 1912	35.3	4	0	33.3	5	0	19.0	11	0	20.8	8	0	34.6	5	0
G.M.			31.1			30.1			22.8			20.7			31.7		
S.E.(M)			1.307			1.186			1.479			1.149			1.159		
C.D. (10%)			3.1			2.8			3.5			2.7			2.8		
C.V.			8.4			7.9			13.0			11.1			7.3		
D.O.S.(dd.mm.yy)			30.10.19			15.10.19			25.10.19			23.10.19			22.10.19		

No. of Trials : Proposed = 09 Conducted = 09

1911-IVT-RF-TS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	J&K			UTK						Meghalaya		
			Khudwani			Almora		Ranichauri		Umiam				
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	SKW356	NHIVT 1902	39.7	3	1	30.4	10	0	10.6	16	0	33.0	5	0
2	VL2042	NHIVT 1903	32.7	11	0	16.3	15	0	17.0	10	0	26.6	12	0
3	HPW471	NHIVT 1904	30.6	15	0	31.3	8	0	20.9	5	0	32.4	6	0
4	HS675	NHIVT 1905	37.3	8	0	23.5	13	0	23.0	2	1	30.5	9	0
5	HPW472	NHIVT 1906	37.8	6	0	16.7	14	0	15.1	13	0	26.0	13	0
6	VL2039	NHIVT 1907	38.5	5	1	15.2	16	0	11.1	15	0	22.2	16	0
7	HS677	NHIVT 1908	35.6	9	0	25.1	12	0	15.4	12	0	36.8	2	1
8	HS676	NHIVT 1909	32.3	12	0	30.3	11	0	17.9	9	0	29.2	10	0
9	UP3064	NHIVT 1910	29.9	16	0	31.7	7	0	19.0	7	0	31.1	7	0
10	HS678	NHIVT 1911	39.0	4	1	30.7	9	0	20.7	6	0	23.5	15	0
11	HPW470	NHIVT 1913	31.2	14	0	35.4	5	0	21.5	4	0	24.7	14	0
12	HPW469	NHIVT 1914	31.3	13	0	32.4	6	0	16.7	11	0	39.3	1	1
13	VL2041	NHIVT 1915	40.1	2	1	40.4	1	1	22.8	3	1	35.5	3	1
14	VL2040	NHIVT 1916	37.7	7	0	36.6	2	0	18.0	8	0	31.1	7	0
15	HS507 (C)	NHIVT 1901	42.7	1	1	35.4	4	0	14.6	14	0	34.3	4	0
16	HS562 (C)	NHIVT 1912	34.5	10	0	35.5	3	0	25.0	1	1	27.3	11	0
G.M.			35.7			29.2			18.1			30.2		
S.E.(M)			1.927			1.309			1.166			1.814		
C.D. (10%)			4.6			3.1			2.8			4.3		
C.V.			10.8			9.0			12.9			12.0		
D.O.S.(dd.mm.yy)			30.10.19			17.10.19			31.10.19			30.10.19		

1911-IVT-RF-TS-TAS-NHZ, 2019-20
STATE AND ZONAL MEANS (q/ha)

SN	Variety	Code	H.P.			J&K			UTK			Meghalaya			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	SKW356	NHIVT 1902	22.5	15	0	37.8	3	1	20.5	12	0	33.0	5	0	26.6	13	0
2	VL2042	NHIVT 1903	30.0	3	1	31.0	14	0	16.6	14	0	26.6	12	0	26.9	10	0
3	HPW471	NHIVT 1904	31.2	1	1	29.2	15	0	26.1	5	0	32.4	6	0	29.8	4	0
4	HS675	NHIVT 1905	31.1	2	1	35.2	4	0	23.3	11	0	30.5	9	0	30.2	2	1
5	HPW472	NHIVT 1906	25.6	9	0	31.8	12	0	15.9	15	0	26.0	13	0	24.8	15	0
6	VL2039	NHIVT 1907	21.0	16	0	35.2	5	0	13.2	16	0	22.2	16	0	22.5	16	0
7	HS677	NHIVT 1908	22.8	14	0	32.4	10	0	20.2	13	0	36.8	2	1	25.9	14	0
8	HS676	NHIVT 1909	24.9	10	0	32.3	11	0	24.1	10	0	29.2	10	0	26.8	11	0
9	UP3064	NHIVT 1910	24.1	11	0	31.4	13	0	25.3	7	0	31.1	7	0	26.8	12	0
10	HS678	NHIVT 1911	23.8	12	0	38.9	2	1	25.7	6	0	23.5	15	0	27.5	8	0
11	HPW470	NHIVT 1913	29.9	4	1	32.9	9	0	28.4	3	0	24.7	14	0	29.7	5	0
12	HPW469	NHIVT 1914	25.6	8	0	28.9	16	0	24.6	9	0	39.3	1	1	27.6	7	0
13	VL2041	NHIVT 1915	28.8	5	0	33.6	8	0	31.6	1	1	35.5	3	1	31.2	1	1
14	VL2040	NHIVT 1916	23.2	13	0	34.3	7	0	27.3	4	0	31.1	7	0	27.5	9	0
15	HS507 (C)	NHIVT 1901	26.9	7	0	39.4	1	1	25.0	8	0	34.3	4	0	30.1	3	0
16	HS562 (C)	NHIVT 1912	27.1	6	0	34.5	6	0	30.2	2	1	27.3	11	0	29.5	6	0
G.M.			26.2			33.7			23.6			30.2			27.7		
S.E.(M)			0.643			1.125			0.876			1.814			0.472		
C.D. (10%)			1.5			2.6			2.1			4.3			1.1		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: IVT-RF-TS-TAS-NHZ, 2019-20

SN	Variety	Code	Disease Reaction			Agronomic Characteristics								Grain Characteristics			
			YI	ACI	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.	Thr.	Col.	Tex.	TGW.R	TGW.M
1	SKW356	NHIVT-1902	60S	25.7	3	91-134	113	148-202	182	80-100	95	15	M	A	SH	34-55	43
2	VL2042	NHIVT-1903	80S	27.14	3	76-154	119	142-207	181	73-108	97	60	M	A	SH	30-61	39
3	HPW471	NHIVT-1904	80S	28.14	3	66-154	118	144-208	182	71-111	98	40	M	A	SH	35-53	43
4	HS675	NHIVT-1905	5S	2.03	5	100-156	133	150-205	186	85-124	105	40	M	A	SH	30-50	36
5	HPW472	NHIVT-1906	40S	10.0	5	66-138	109	140-198	180	71-104	91	60	M	A	H	33-56	42
6	VL2039	NHIVT-1907	100S	27.71	3	90-134	100	146-201	178	83-101	91	40	M	A	SH	34-49	38
7	HS677	NHIVT-1908	10S	3.86	3	94-152	129	148-207	185	83-109	97	50	M	A	SH	34-57	45
8	HS676	NHIVT-1909	60S	15.0	5	78-151	119	149-205	182	79-111	98	5	M	A	SH	35-60	44
9	UP3064	NHIVT-1910	100S	33.4	5	85-151	124	148-205	182	71-96	87	10	M	A	SH	32-61	42
10	HS678	NHIVT-1911	10S	4.42	5	65-150	114	139-204	181	72-104	92	0	M	A	SH	31-45	37
11	HPW470	NHIVT-1913	80S	25.3	3	88-154	127	148-208	184	76-114	95	15	M	A	SH	33-52	40
12	HPW469	NHIVT-1914	80S	37.85	3	79-151	120	144-206	183	79-117	100	50	M	A	SH	33-66	44
13	VL2041	NHIVT-1915	10S	4.86	3	103-159	132	149-216	187	88-124	104	20	M	A	SH	33-56	43
14	VL2040	NHIVT-1916	80S	39.28	3	79-140	114	147-200	179	71-124	96	20	M	A	SH	31-57	41
15	HS507 (C)	NHIVT-1901	100S	7.57	3	95-154	129	153-207	186	83-110	97	30	M	A	SH	33-55	44
16	HS562 (C)	NHIVT-1912	80S	31.42	1	86-154	125	150-207	185	82-111	93	10	M	A	SH	30-53	41

1. Ancillary data from Almora, Bajaura, Dhaulakuan, Khudwani, Malan, Shimla, Umiam and Wadura.
2. Yellow rust data from Almora, Bajaura, Dhaulakuan, Khudwani, Malan, Shimla and Wadura.
3. Powdery mildew data from Almora and Malan; 4. Lodging data from Almora only

IVT-RF-TS-TAS-NHZ, 2019-20
Individual Station Yellow rust data

SN	Variety	Code	Almora	Bajaura	Dhaulakuan	Khudwani	Malan	Shimla	Wadura
1	SKW356	NHIVT-1902	tS	15S	20S	40S	40S	5S	60S
2	VL2042	NHIVT-1903	tS	20S	5S	80S	80S	0	10MR
3	HPW471	NHIVT-1904	0	20S	20S	80S	40S	5S	40MS
4	HS675	NHIVT-1905	0	0	5S	R	5S	0	10 MR
5	HPW472	NHIVT-1906	0	0	5S	5R	40S	0	30MS
6	VL2039	NHIVT-1907	0	20S	10S	100S	60S	0	10MR
7	HS677	NHIVT-1908	0	0	5S	10MR	10S	0	20MR
8	HS676	NHIVT-1909	0	15S	5S	60S	20S	5MS	10MR
9	UP3064	NHIVT-1910	0	15S	5S	100S	40S	5MS	70S
10	HS678	NHIVT-1911	0	5MS	5S	20MR	10S	0	10MR
11	HPW470	NHIVT-1913	0	15S	10S	40MS	40S	0	80S
12	HPW469	NHIVT-1914	0	40S	20S	80S	60S	5S	60S
13	VL2041	NHIVT-1915	0	10S	10S	5R	5S	5MS	10MR
14	VL2040	NHIVT-1916	0	30S	5S	80S	80S	0	80S
15	HS507 (C)	NHIVT-1901	0	10S	5S	10MR	5S	5S	30MS
16	HS562 (C)	NHIVT-1912	0	15S	5S	80S	80S	10MS	40MS

1912-AVT-IR-TS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	H.P.			H.P.			H.P.			UTK		
			Bajaura			Shimla			Malan			Almora		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS668	NHTSZ 1904	21.6	6	0	48.8	2	1	39.2	6	0	51.4	3	1
2	VL2036	NHTSZ 1906	35.0	1	1	47.0	3	1	48.9	2	1	53.9	1	1
3	HS507 (C)	NHTSZ 1901	32.4	3	1	40.2	6	0	51.9	1	1	51.8	2	1
4	HS562 (C)	NHTSZ 1902	31.0	4	0	44.8	4	0	48.5	3	1	51.4	3	1
5	HPW349 (C)	NHTSZ 1903	27.7	5	0	49.1	1	1	45.8	5	0	49.0	5	0
6	VL907 (C)	NHTSZ 1905	34.5	2	1	42.6	5	0	47.5	4	0	42.3	6	0
G.M.			30.4			45.4			47.0			50.0		
S.E.(M)			1.225			1.199			1.737			1.657		
C.D. (10%)			3.0			2.9			4.2			4.0		
C.V.			9.9			6.5			9.1			8.1		
D.O.S.(dd.mm.yy)			09.11.19			09.11.19			10.11.19			16.11.19		

No. of Trials: Proposed = 4 Conducted = 4

1912-AVT-IR-TS-TAS-NHZ, 2019-20
STATE AND ZONAL MEANS (q/ha)

SN	Variety	Code	H.P.			UTK			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS668	NHTSZ 1904	36.6	6	0	51.4	3	1	40.3	6	0
2	VL2036	NHTSZ 1906	43.6	1	1	53.9	1	1	46.2	1	1
3	HS507 (C)	NHTSZ 1901	41.5	3	0	51.8	2	1	44.1	2	0
4	HS562 (C)	NHTSZ 1902	41.4	4	0	51.4	3	1	43.9	3	0
5	HPW349 (C)	NHTSZ 1903	40.9	5	0	49.0	5	0	42.9	4	0
6	VL907 (C)	NHTSZ 1905	41.6	2	0	42.3	6	0	41.7	5	0
G.M.			40.9			50.0			43.2		
S.E.(M)			0.814			1.657			0.738		
C.D. (10%)			1.9			4.0			1.7		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: AVT-IR-TS-TAS-NHZ, 2019-20

SN	Variety	Code	Disease Reaction				Agronomic Characteristics						Grain Characteristics					
			Br	YI	ACI	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod	Thr	Col	Tex	TGW	RTGW
1	HS668	NHTSZ-1904	0	60S	51.0	3	127-154	138	169-202	186	90-113	102	0	Ey	A	SH	38-43	41
2	VL2036	NHTSZ-1906	0	40S	22.5	3	123-154	136	171-202	186	101-117	107	10	Ey	A	SH	45-50	48
3	HS507(C)	NHTSZ-1901	0	30S	21.5	3	127-155	138	172-206	188	92-112	101	30	Ey	A	SH	36-43	39
4	HS562(C)	NHTSZ-1902	10S	40S	32.5	3	129-154	139	174-204	188	98-108	103	0	Ey	A	SH	39-45	42
5	HPW349(C)	NHTSZ-1903	tR	40S	26.3	1	124-154	136	171-200	186	94-112	102	40	Ey	A	SH	38-42	40
6	VL907(C)	NHTSZ-1905	0	40S	30.0	5	126-154	137	170-202	187	100-114	105	0	Ey	A	SH	39-45	41

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 and Malan; 4. Lodging and PM data from Almora.

Individual Station Rust Data

SN	Variety	Code	Yellow rust				Brown rust	
			Almora	Bajaura	Malan	Shimla	Almora	Malan
1	HS668	NHTSZ-1904	60S	60S	60S	30MS	0	0
2	VL2036	NHTSZ-1906	10S	30S	40S	10S	0	0
3	HS507(C)	NHTSZ-1901	20S	30S	20S	20MS	0	0
4	HS562(C)	NHTSZ-1902	40S	40S	40S	10S	0	10S
5	HPW349(C)	NHTSZ-1903	20S	40S	40S	5S	tR	0
6	VL907(C)	NHTSZ-1905	40S	30S	40S	10S	0	0

1913-AVT-RF-TS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	H.P.																	
			Bajaura			Shimla			Berthin			Malan			Dhaulakuan			Akrot		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS668	NHTSZ 1904	14.1	6	0	38.3	4	0	21.3	6	0	19.1	5	0	35.7	4	0	32.9	4	0
2	VL2036	NHTSZ 1906	24.2	1	1	38.1	5	0	40.1	2	1	24.2	3	0	37.1	2	1	28.6	6	0
3	HS507 (C)	NHTSZ 1901	21.5	2	0	26.5	6	0	40.9	1	1	29.9	1	1	35.7	4	0	33.3	2	1
4	HS562 (C)	NHTSZ 1902	18.3	4	0	45.6	1	1	39.0	3	1	17.6	6	0	36.3	3	1	34.8	1	1
5	HPW349(C)	NHTSZ 1903	17.6	5	0	38.8	3	0	33.3	5	0	22.1	4	0	39.0	1	1	32.9	3	1
6	VL907 (C)	NHTSZ 1905	18.9	3	0	42.5	2	0	35.5	4	0	24.7	2	0	33.0	6	0	32.6	5	0
G.M.			19.1			38.3			35.0			22.9			36.1			32.5		
S.E.(M)			0.709			1.175			1.865			1.064			1.154			0.772		
C.D. (10%)			1.7			2.8			4.5			2.6			2.8			1.9		
C.V.			9.1			7.5			13.0			11.4			7.8			5.8		
D.O.S.(dd.mm.yy)			23.10.19			15.10.19			26.10.19			26.10.19			30.10.19			24.10.19		

No. of Trials : Proposed = 11 Conducted = 11

1913-AVT-RF-TS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	J&K						UTK								
			Khudwani			Wadura			Almora			Majhera			Ranichauri		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS668	NHTSZ 1904	31.1	6	0	30.1	6	0	35.8	6	0	52.4	4	1	17.2	6	0
2	VL2036	NHTSZ 1906	42.0	2	1	37.8	1	1	46.2	1	1	46.8	5	0	21.0	5	0
3	HS507 (C)	NHTSZ 1901	37.8	3	0	33.9	3	0	40.9	3	0	52.6	3	1	29.5	3	0
4	HS562 (C)	NHTSZ 1902	35.8	4	0	31.4	5	0	41.8	2	0	56.0	1	1	30.1	2	0
5	HPW349 (C)	NHTSZ 1903	45.0	1	1	37.0	2	1	38.5	5	0	52.8	2	1	34.1	1	1
6	VL907 (C)	NHTSZ 1905	34.2	5	0	31.6	4	0	40.4	4	0	39.7	6	0	28.7	4	0
G.M.			37.6			33.6			40.6			50.0			26.8		
S.E.(M)			1.496			1.098			1.510			2.701			1.361		
C.D. (10%)			3.6			2.7			3.6			6.5			3.3		
C.V.			9.7			8.0			9.1			13.2			12.4		
D.O.S.(dd.mm.yy)			16.10.19			22.10.19			16.10.19			23.10.19			30.10.19		

1913-AVT-RF-TS-TAS-NHZ, 2019-20
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	HS668	NHTSZ 1904	26.9	6	0	30.6	6	0	35.1	6	0	29.8	6	0
2	VL2036	NHTSZ 1906	32.0	1	1	39.9	2	1	38.0	4	0	35.1	3	1
3	HS507 (C)	NHTSZ 1901	31.3	3	1	35.9	3	0	41.0	3	1	34.8	4	1
4	HS562 (C)	NHTSZ 1902	31.9	2	1	33.6	4	0	42.6	1	1	35.1	2	1
5	HPW349 (C)	NHTSZ 1903	30.6	5	0	41.0	1	1	41.8	2	1	35.6	1	1
6	VL907 (C)	NHTSZ 1905	31.2	4	1	32.9	5	0	36.3	5	0	32.9	5	0
G.M.			30.7			35.6			39.1			33.9		
S.E.(M)			0.484			0.928			1.127			0.439		
C.D. (10%)			1.1			2.2			2.7			1.0		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: AVT-RF-TS-TAS-NHZ, 2019-20

SN	Variety	Code	Disease Reaction					Agronomic Characteristics								Grain Characteristics			
			Br	YI	ACI	LB	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HS668	NHTSZ-1904	60S	80S	37.1	12	3	88-198	132	161-239	195	89-108	98	20	Ey	A	SH	35-49	40
2	VL2036	NHTSZ-1906	20MR	80S	23.3	11	5	88-198	130	165-241	196	81-115	98	10	Ey	A	SH	38-57	45
3	HS507 (C)	NHTSZ-1901	10S	40S	11.1	01	5	93-199	138	169-239	200	88-114	99	10	Ey	A	SH	37-50	42
4	HS562 (C)	NHTSZ-1902	60S	60S	31.0	01	3	90-199	137	166-242	198	85-113	98	10	Ey	A	SH	35-51	42
5	HPW349 (C)	NHTSZ-1903	10MR	60S	23.4	22	3	92-198	133	164-239	195	83-111	96	20	Ey	A	SH	37-50	42
6	VL907 (C)	NHTSZ-1905	10MR	50S	19.0	11	5	90-198	133	170-242	198	91-115	101	10	Ey	A	SH	40-51	44

1. Ancillary data from Almora, Bajaura, Berthin, Dhaulakuan, Khudwani, Majhera, Malan, Ranichauri, Shimla, Akrot and Wadura.
2. Yellow rust data from Almora, Bajaura, Dhaulakuan, Khudwani, Malan, Shimla and Wadura; 3. Brown rust data reported from Wadura and Bajaura; 4. Lodging data from Almora, Khudwani, Berthin; 5. LB and PM data from Almora only.

Individual Station Yellow Rust Data

SN	Variety	Code	Yellow rust					Brown Rust	
			Hawalbagh	Bajaura	Dhaulakuan	Khudwan	Malan	Wadura	Bajaura
1	HS668	NHTSZ-1904	0	30S	20S	80S	60S	10S	60S
2	VL2036	NHTSZ-1906	0	30S	0	80S	40S	5S	20MR
3	HS507 (C)	NHTSZ-1901	10S	40S	0	10MR	10S	10S	10MR
4	HS562 (C)	NHTSZ-1902	0	60S	20S	40MS	40S	5S	60S
5	HPW349 (C)	NHTSZ-1903	0	40S	20S	60S	40S	0	10MR
6	VL907 (C)	NHTSZ-1905	0	30S	5S	50S	40S	5MS	10MR

1914-AVT-RI-LS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	H.P.								UTK												
			Bajaura			Dhaulakuan			Shimla		Malan		Almora		Majhera		Ranichauri						
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G			
1	HS681	NHLSZ 1901	41.5	6	0	33.3	5	0	22.6	11	0	31.5	5	0	37.7	8	0	25.8	2	1	16.6	10	0
2	VL3022	NHLSZ 1902	42.4	5	0	29.8	7	0	27.7	6	0	36.3	2	1	39.2	4	1	20.7	4	0	17.5	9	0
3	HS680	NHLSZ 1903	44.2	4	1	34.5	3	0	30.5	2	1	38.8	1	1	43.3	1	1	27.3	1	1	18.4	8	0
4	VL3023	NHLSZ 1904	46.4	3	1	33.2	6	0	27.7	5	0	27.2	9	0	40.1	3	1	19.0	10	0	21.0	3	0
5	HPW474	NHLSZ 1905	30.6	11	0	26.0	10	0	26.1	8	0	24.3	11	0	37.8	7	0	19.6	8	0	27.5	1	1
6	UP3069	NHLSZ 1906	37.5	8	0	25.9	11	0	25.3	10	0	28.3	8	0	35.1	10	0	20.1	7	0	19.1	5	0
7	HPW473	NHLSZ 1907	37.5	9	0	34.5	3	0	28.7	3	0	33.8	4	0	37.9	5	0	20.5	5	0	14.2	11	0
8	VL3024	NHLSZ 1909	46.5	2	1	28.0	9	0	25.5	9	0	29.0	7	0	37.9	5	0	17.2	11	0	21.4	2	0
9	HS679	NHLSZ 1911	41.1	7	0	28.3	8	0	27.5	7	0	27.2	10	0	35.6	9	0	19.6	8	0	19.0	6	0
10	VL892(C)	NHLSZ 1908	34.6	10	0	37.2	1	1	28.6	4	0	29.7	6	0	41.5	2	1	24.3	3	1	19.4	4	0
11	HS490(C)	NHLSZ 1910	47.9	1	1	34.8	2	0	33.0	1	1	35.5	3	1	33.6	11	0	20.3	6	0	18.7	7	0
G.M.			40.9			31.4			27.6			31.1			38.2			21.3			19.3		
S.E.(M)			2.087			0.953			1.049			1.604			1.757			1.432			1.445		
C.D. (10%)			4.9			2.3			2.5			3.8			4.2			3.4			3.4		
C.V.			9.9			5.1			7.4			10.6			9.0			13.1			13.4		
D.O.S.(dd.mm.yy)			06.12.19			05.12.19			05.12.19			06.12.19			12.12.19			10.12.19			05.12.19		

No. of Trials : Proposed = 12 Conducted = 12
Trials not Reported (01) = Una (LSM)

1914-AVT-RI-LS-TAS-NHZ, 2019-20
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	Sikkim			Manipur			Meghalaya			W.B.		
			Gangtok			CAU-Imphal			Umiam			Kalimpong		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS681	NHLSZ 1901	20.3	7	0	45.2	3	1	18.2	7	1	24.6	7	0
2	VL3022	NHLSZ 1902	21.4	4	1	45.0	4	1	19.9	2	1	25.0	6	0
3	HS680	NHLSZ 1903	17.2	10	0	34.4	10	0	16.9	9	1	20.6	10	0
4	VL3023	NHLSZ 1904	25.1	1	1	43.1	6	1	19.5	4	1	24.5	8	0
5	HPW474	NHLSZ 1905	20.9	5	1	46.0	2	1	14.4	10	0	20.3	11	0
6	UP3069	NHLSZ 1906	25.1	1	1	42.1	7	0	19.5	4	1	25.9	3	0
7	HPW473	NHLSZ 1907	15.4	11	0	39.4	8	0	13.5	11	0	27.0	1	1
8	VL3024	NHLSZ 1909	19.4	8	0	36.8	9	0	21.2	1	1	25.6	5	0
9	HS679	NHLSZ 1911	18.5	9	0	43.5	5	1	17.8	8	1	26.4	2	0
10	VL892(C)	NHLSZ 1908	24.7	3	1	29.2	11	0	19.9	2	1	24.1	9	0
11	HS490(C)	NHLSZ 1910	20.7	6	0	50.4	1	1	18.6	6	1	25.7	4	0
G.M.			20.8			41.4			18.1			24.5		
S.E.(M)			1.847			3.469			2.071			0.210		
C.D. (10%)			4.4			8.2			4.9			0.5		
C.V.			17.3			18.4			22.7			1.9		
D.O.S.(dd.mm.yy)			12.12.19			21.11.19			03.12.19			15.12.19		

1914-AVT-RI-LS-TAS-NHZ, 2019-20
STATE AND ZONAL MEANS (q/ha)

SN	Variety	Code	H.P.			UTK			Sikkim			Manipur			Meghalaya			W.B.			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HS681	NHLSZ 1901	32.2	8	0	26.7	4	0	20.3	7	0	45.2	3	1	18.2	7	1	24.6	7	0	28.8	5	0
2	VL3022	NHLSZ 1902	34.1	3	0	25.8	6	0	21.4	4	1	45.0	4	1	19.9	2	1	25.0	6	0	29.5	4	0
3	HS680	NHLSZ 1903	37.0	2	1	29.7	1	1	17.2	10	0	34.4	10	0	16.9	9	1	20.6	10	0	29.6	3	1
4	VL3023	NHLSZ 1904	33.6	4	0	26.7	5	0	25.1	1	1	43.1	6	1	19.5	4	1	24.5	8	0	29.7	2	1
5	HPW474	NHLSZ 1905	26.8	11	0	28.3	3	1	20.9	5	1	46.0	2	1	14.4	10	0	20.3	11	0	26.7	11	0
6	UP3069	NHLSZ 1906	29.2	10	0	24.7	9	0	25.1	1	1	42.1	7	0	19.5	4	1	25.9	3	0	27.6	9	0
7	HPW473	NHLSZ 1907	33.6	5	0	24.2	10	0	15.4	11	0	39.4	8	0	13.5	11	0	27.0	1	1	27.5	10	0
8	VL3024	NHLSZ 1909	32.3	7	0	25.5	7	0	19.4	8	0	36.8	9	0	21.2	1	1	25.6	5	0	28.0	7	0
9	HS679	NHLSZ 1911	31.0	9	0	24.8	8	0	18.5	9	0	43.5	5	1	17.8	8	1	26.4	2	0	27.7	8	0
10	VL892(C)	NHLSZ 1908	32.5	6	0	28.4	2	1	24.7	3	1	29.2	11	0	19.9	2	1	24.1	9	0	28.5	6	0
11	HS490(C)	NHLSZ 1910	37.8	1	1	24.2	11	0	20.7	6	0	50.4	1	1	18.6	6	1	25.7	4	0	30.8	1	1
G.M.			32.7			26.3			20.8			41.4			18.1			24.5			28.6		
S.E.(M)			0.747			0.896			1.847			3.469			2.071			0.210			0.545		
C.D. (10%)			1.7			2.1			4.4			8.2			4.9			0.5			1.3		

Summary of Disease Data and Agronomic Characteristics

Northern Hills Zone

Trial: AVT-RI-LS-TAS-NHZ, 2019-20

SN	Variety	Code	Disease Reaction				Agronomic Characteristics						Grain Characteristics					
			Br	YI	ACI	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.	Thr.	Col.	Tex.	TGW.R	TGW.M
1	HS681	NHLSZ-1901	0	30S	9.8	3	95-142	112	125-187	151	65-99	88	10	M	A	H	43-51	49
2	VL3022	NHLSZ-1902	0	15S	9.0	1	87-137	107	126-182	151	72-110	94	5	Ey	A	SH	39-51	45
3	HS680	NHLSZ-1903	0	30S	9.0	3	87-139	109	124-185	149	74-105	93	10	M	A	SH	36-50	47
4	VL3023	NHLSZ-1904	20S	40S	15.0	3	82-141	106	125-185	150	77-109	90	5	Ey	A	SH	37-47	47
5	HPW474	NHLSZ-1905	0	60S	23.0	1	87-141	109	126-183	149	70-114	88	15	M	A	SH	38-49	46
6	UP3069	NHLSZ-1906	0	40S	12.8	1	86-147	109	128-184	152	72-116	89	10	M	A	SH	35-58	46
7	HPW473	NHLSZ-1907	tS	40S	23.0	1	84-142	109	124-188	151	73-105	94	10	M	A	SH	39-43	44
8	VL3024	NHLSZ-1909	0	0	0	1	87-140	109	126-184	150	67-120	82	10	Ey	A	SH	36-46	42
9	HS679	NHLSZ-1911	0	40S	12.8	3	86-141	110	128-188	150	65-115	89	15	Ey	A	SH	36-46	43
10	VL892 (C)	NHLSZ-1908	0	40S	17.6	3	82-142	107	124-185	150	66-114	89	5	Ey	A	SH	33-41	39
11	HS490 (C)	NHLSZ-1910	0	30S	12.8	1	88-145	111	125-189	150	74-106	93	15	Ey	A	SH	39-48	48

1. Ancillary data from Almora, Bajaura, CAU Imphal, Dhaulakuan, Majhera, Malan, Ranichauri, Shimla, Kalimpong and Umiam.
2. Yellow rust data from Almora, Bajaura, Dhaulakuan, Malan and Shimla; 3. Brown rust data from Almora and Malan
4. Lodging data from Gangtok only.

Individual Station disease data

SN	Variety	Code	Yellow Rust					Brown Rust	
			Almora	Bajaura	Dhaulakuan	Malan	Shimla	Almora	Malan
1	HS681	NHLSZ-1901	5S	30S	0	10S	5MS	0	0
2	VL3022	NHLSZ-1902	10S	15S	5S	5S	10S	0	0
3	HS680	NHLSZ-1903	5S	30S	0	5S	5S	0	0
4	VL3023	NHLSZ-1904	10S	15S	0	40S	10S	0	20S
5	HPW474	NHLSZ-1905	5S	60S	0	40S	10S	0	0
6	UP3069	NHLSZ-1906	0	20S	0	40S	5MS	0	0
7	HPW473	NHLSZ-1907	10S	40S	20S	40S	5S	tS	0
8	VL3024	NHLSZ-1909	0	0	0	0	0	0	0
9	HS679	NHLSZ-1911	5S	15S	0	40S	5MS	0	0
10	VL892 (C)	NHLSZ-1908	10S	40S	10S	20S	10MS	0	0
11	HS490 (C)	NHLSZ-1910	5S	20S	5S	30S	5MS	0	0