

**1851-AVT-IR-TS-TAD-PZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)**

S.N	Variety	Code	Maharashtra																	
			Niphad			Pune			Akola			Parbhani			Nasik			Kolhapur		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	PBW 823 ^B	PZ-TS-101	39.3	11	0	37.5	11	0	45.8	4	0	44.5	8	0	44.9	11	0	32.5	11	0
2	DDW 49 (d)	PZ-TS-103	56.5	1	1	73.0	2	1	40.6	9	0	46.3	6	0	57.1	2	1	40.7	10	0
3	UAS 3001	PZ-TS-104	48.1	4	0	62.5	8	0	50.8	1	1	45.8	7	0	51.3	9	0	45.5	7	0
4	DDW 48 (d)	PZ-TS-108	47.1	5	0	72.0	3	1	40.3	10	0	49.7	4	1	54.3	5	0	46.1	6	0
5	HD 3343 ^M	PZ-TS-110	44.9	9	0	54.9	10	0	45.5	5	0	44.1	9	0	55.3	3	1	51.4	3	1
6	WHD 963 (d)	PZ-TS-111	51.2	2	1	63.2	7	0	43.6	6	0	41.1	11	0	54.2	6	0	44.4	8	0
7	UAS 428 (d) (C)	PZ-TS-102	46.7	6	0	71.1	4	1	39.8	11	0	43.0	10	0	51.5	8	0	54.6	1	1
8	MACS 3949(d)(C)	PZ-TS-105	46.4	7	0	73.0	1	1	41.1	8	0	53.0	2	1	53.9	7	0	49.0	4	1
9	MACS 6222 (C)	PZ-TS-106	48.7	3	0	66.6	5	0	47.0	3	0	50.4	3	1	55.1	4	1	54.3	2	1
10	GW 322 (C)	PZ-TS-107	44.3	10	0	60.6	9	0	49.1	2	1	53.9	1	1	57.8	1	1	47.6	5	1
11	MACS 6478 (C)	PZ-TS-109	46.2	8	0	63.4	6	0	42.2	7	0	48.1	5	1	50.6	10	0	41.5	9	0
G.M.			47.2			63.4			44.2			47.3			53.3			46.2		
S.E.(M)			2.590			1.662			1.232			2.478			1.358			3.304		
C.D. (10%)			6.2			4.0			3.0			5.9			3.3			7.9		
C.V.			11.0			5.2			5.6			10.5			5.1			14.3		
D.O.S.(dd.mm.yy)			14.11.18			08.11.18			12.11.18			14.11.18			14.11.18			15.11.18		

No. of Trials : Proposed = 17 Conducted = 17
 Trial not reported (06) = Karad (RMT), Pravaranagar (LSM), Mahabaleshwar (RMT), Mudhol (RMT), Mandya (LS), Hyderabad(RMT)

LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	Karnataka														
			Dharwad			Arbhavi			Kalloli			Nippani			Ugar-Khurd		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	PBW 823 ^B	PZ-TS-101	35.1	11	0	34.6	10	0	30.6	11	0	34.8	11	0	42.0	5	1
2	DDW 49 (d)	PZ-TS-103	43.6	4	1	45.0	2	1	43.3	9	0	48.5	5	1	37.8	10	1
3	UAS 3001	PZ-TS-104	47.2	2	1	44.8	3	1	50.4	2	1	54.2	1	1	44.5	2	1
4	DDW 48 (d)	PZ-TS-108	43.3	5	1	41.4	6	1	53.0	1	1	48.8	4	1	44.6	1	1
5	HD 3343 ^M	PZ-TS-110	42.5	6	1	46.4	1	1	39.0	10	0	51.9	2	1	44.3	3	1
6	WHD 963 (d)	PZ-TS-111	36.1	10	0	33.7	11	0	44.1	7	0	47.3	6	1	39.8	7	1
7	UAS 428 (d) (C)	PZ-TS-102	40.4	9	0	41.2	7	1	46.7	6	0	49.0	3	1	34.8	11	0
8	MACS 3949 (d) (C)	PZ-TS-105	46.4	3	1	40.3	9	1	43.8	8	0	40.0	10	0	44.3	4	1
9	MACS 6222 (C)	PZ-TS-106	42.3	7	1	40.9	8	1	49.8	3	1	45.4	8	0	38.4	9	1
10	GW 322 (C)	PZ-TS-107	47.8	1	1	42.4	4	1	47.2	5	0	45.0	9	0	42.0	6	1
11	MACS 6478 (C)	PZ-TS-109	41.5	8	0	41.5	5	1	48.9	4	1	46.7	7	0	38.7	8	1
G.M.			42.4			41.1			45.2			46.5			41.0		
S.E.(M)			2.588			2.787			2.253			2.914			2.946		
C.D. (10%)			6.2			6.7			5.4			7.0			7.1		
C.V.			12.2			13.6			10.0			12.5			14.4		
D.O.S.(dd.mm.yy)			06.11.18			12.11.18			12.11.18			14.11.18			15.11.18		

STATE AND ZONAL MEANS (q/ha)

S.N	Variety	Code	Maharashtra			Karnataka			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	PBW 823 ^B	PZ-TS-101	40.7	11	0	35.4	11	0	38.3	11	0
2	DDW 49 (d)	PZ-TS-103	52.4	3	1	43.6	5	0	48.4	5	1
3	UAS 3001	PZ-TS-104	50.6	7	0	48.2	1	1	49.5	1	1
4	DDW 48 (d)	PZ-TS-108	51.6	5	1	46.2	2	1	49.1	2	1
5	HD 3343 ^M	PZ-TS-110	49.4	9	0	44.8	4	0	47.3	7	0
6	WHD 963 (d)	PZ-TS-111	49.6	8	0	40.2	10	0	45.3	10	0
7	UAS 428 (d) (C)	PZ-TS-102	51.1	6	0	42.4	9	0	47.2	8	0
8	MACS 3949 (d) (C)	PZ-TS-105	52.7	2	1	42.9	8	0	48.3	6	1
9	MACS 6222 (C)	PZ-TS-106	53.7	1	1	43.4	7	0	49.0	3	1
10	GW 322 (C)	PZ-TS-107	52.2	4	1	44.9	3	0	48.9	4	1
11	MACS 6478 (C)	PZ-TS-109	48.7	10	0	43.4	6	0	46.3	9	0
G.M.			50.2			43.2			47.1		
S.E.(M)			0.911			1.212			0.742		
C.D. (10%)			2.1			2.8			1.7		

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

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

SN	Variety	Code	Disease Reaction		Agronomic Characteristics							Grain Characteristics			
			Br	BI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1	PBW 823 ^B	PZ-IR-TS-101	0	0	62-78	67	96-130	114	74-99	90	Ey-M	A	SO-SH	28-46	37
2	DDW 49 (d)	PZ-IR-TS-103	0	40S	61-76	67	109-127	116	77-102	87	Ey-M	A	SH-H	38-53	45
3	UAS 3001	PZ-IR-TS-104	20MS	0	53-76	64	95-125	112	71-109	91	Ey-M	A	SH-H	36-47	44
4	DDW 48 (d)	PZ-IR-TS-108	0	0	55-75	63	90-126	110	72-99	89	Ey-M	A	SH-H	44-61	51
5	HD3343 ^M	PZ-IR-TS-110	10MS	0	60-72	65	97-123	112	72-98	89	Ey	A	SO-SH	30-45	39
6	WHD 963 (d)	PZ-IR-TS-111	0	0	56-75	66	103-124	113	77-104	88	Ey-M	A	SH-H	34-58	45
7	UAS428 (d) (C)	PZ-IR-TS-102	0	0	61-79	68	102-126	115	69-96	86	Ey-M	A	SH-H	40-60	51
8	MACS3949 (d) (C)	PZ-IR-TS-105	0	0	62-82	68	108-131	117	74-96	86	M	A	SH-H	39-58	50
9	MACS6222 (C)	PZ-IR-TS-106	0	0	51-76	62	100-127	111	68-97	84	Ey-M	A	SH-H	33-59	44
10	GW 322 (C)	PZ-IR-TS-107	0	0	57-76	64	102-126	110	72-96	86	Ey	A	SO-SH	32-53	42
11	MACS6478 (C)	PZ-IR-TS-109	20S	0	59-74	64	105-132	113	70-95	87	Ey-M	A	SO-SH	32-52	45

1. Ancillary data from Niphad, Pune, Akola, Parbhani, Nasik, Dharwad, Nippani, Ugar-Khurd, Pravaranagar, Arbhavi, Kalloli & Kolhapur.

2. Black rust data from Dharwad.

3. Brown Rust data from Ugar-Khurd.

1852-AVT-IR-LS-TAS-PZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	Maharashtra																	
			Niphad			Pune			Parbhani			Nasik			Karad			Kolhapur		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HI 8807(d)	PZ-LS-201	43.6	5	0	64.3	2	1	44.8	5	0	44.4	3	1	45.5	2	1	36.5	5	0
2	HI 1633	PZ-LS-202	52.6	1	1	65.8	1	1	42.9	6	0	46.8	1	1	47.6	1	1	39.4	3	0
3	UAS 3002	PZ-LS-203	43.4	7	0	50.2	7	0	42.4	7	0	42.8	4	1	45.5	2	1	41.6	2	1
4	GW 509	PZ-LS-206	43.6	6	0	55.8	6	0	48.1	2	1	41.1	6	0	43.8	6	0	34.4	6	0
5	Raj 4083 (C)	PZ-LS-204	46.4	4	0	64.0	3	1	45.1	4	0	44.5	2	1	44.4	5	1	37.5	4	0
6	HD 2932 (C)	PZ-LS-205	49.5	2	1	62.8	4	1	51.1	1	1	40.8	7	0	43.3	7	0	46.1	1	1
7	HD 3090 (C)	PZ-LS-207	47.4	3	0	56.0	5	0	47.7	3	1	41.7	5	0	44.7	4	1	26.9	7	0
G.M.			46.7			59.9			46.0			43.2			45.0			37.5		
S.E.(M)			2.045			1.374			1.799			1.833			1.477			2.492		
C.D. (10%)			5.0			3.4			4.4			4.5			3.6			6.1		
C.V.			8.8			4.6			7.8			8.5			6.6			13.3		
D.O.S.(dd.mm.yy)			04.12.18			06.12.18			04.12.18			10.12.18			05.12.18			05.12.18		

No. of Trials: Proposed = 17

Conducted = 17

Trials not Reported (05) = Akola (RMT), Mahabaleshwar (RMT), Hyderabad (RMT), Pravarnagar (LSM), Bailhongal (LS)

LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	Karnataka																	
			Dharwad			Arbhavi			Kalloli			Nippani			Ugar-Khurd			Mandya		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HI 8807(d)	PZ-LS-201	38.8	7	0	37.2	3	1	32.8	6	0	43.1	5	0	38.9	4	1	33.5	7	0
2	HI 1633	PZ-LS-202	46.0	1	1	39.3	2	1	38.8	1	1	51.3	2	1	41.4	2	1	39.7	4	0
3	UAS 3002	PZ-LS-203	43.7	2	1	40.0	1	1	35.4	2	1	38.1	6	0	41.9	1	1	38.6	5	0
4	GW 509	PZ-LS-206	42.3	3	1	34.7	6	0	33.4	5	0	45.0	4	0	37.6	6	1	42.2	3	0
5	Raj 4083 (C)	PZ-LS-204	40.9	5	1	31.0	7	0	32.3	7	0	52.9	1	1	39.2	3	1	49.2	1	1
6	HD 2932 (C)	PZ-LS-205	39.6	6	0	35.5	5	0	33.4	4	1	32.0	7	0	38.3	5	1	37.8	6	0
7	HD 3090 (C)	PZ-LS-207	41.8	4	1	36.4	4	1	33.4	3	1	47.3	3	1	36.8	7	1	46.8	2	1
G.M.			41.9			36.3			34.2			44.2			39.2			41.1		
S.E.(M)			2.525			1.674			2.191			3.094			2.142			2.278		
C.D. (10%)			6.2			4.1			5.4			7.6			5.3			5.6		
C.V.			12.1			9.2			12.8			14.0			10.9			11.1		
D.O.S.(dd.mm.yy)			01.12.18			06.12.18			06.12.18			10.12.18			10.12.18			12.12.18		

STATE AND ZONAL MEANS (q/ha)

S.N	Variety	Code	Maharashtra			Karnataka			ZONAL		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HI 8807(d)	PZ-LS-201	46.5	4	0	37.4	6	0	42.0	6	0
2	HI 1633	PZ-LS-202	49.2	1	1	42.7	1	1	45.9	1	1
3	UAS 3002	PZ-LS-203	44.3	6	0	39.6	4	0	42.0	5	0
4	GW 509	PZ-LS-206	44.4	5	0	39.2	5	0	41.8	7	0
5	Raj 4083 (C)	PZ-LS-204	47.0	3	0	40.9	2	1	44.0	2	0
6	HD 2932 (C)	PZ-LS-205	48.9	2	1	36.1	7	0	42.5	3	0
7	HD 3090 (C)	PZ-LS-207	44.1	7	0	40.4	3	0	42.2	4	0
G.M.			46.4			39.5			42.9		
S.E.(M)			0.765			0.962			0.615		
C.D. (10%)			1.8			2.2			1.4		

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: AVT-IR-LS-TAS-PZ, 2018-19

SN	Variety	Code	Disease Data		Agronomic Characteristics						Grain Characteristics				
			BR	BL	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1.	HI8807(d)	PZ-IR-LS-201	0	tMS	59-85	70	93-116	109	66-101	87	Ey-M	A	SO-SH	41-54	46
2.	HI1633	PZ-IR-LS-202	0	0	50-78	59	89-114	105	63-90	80	Ey-M	A	SH-H	34-53	43
3.	UAS 3002	PZ-IR-LS-203	tMS	tMS	47-77	64	88-116	106	63-104	86	Ey-M	A	SH-H	37-60	44
4.	GW509	PZ-IR-LS-206	0	0	49-77	58	91-115	104	65-100	84	Ey-M	A	SO-SH	38-55	47
5.	Raj4083 (C)	PZ-IR-LS-204	0	0	49-75	58	89-116	105	63-91	76	Ey-M	A	SH-H	30-52	43
6.	HD2932 (C)	PZ-IR-LS-205	5MS	tMS	51-78	61	91-115	106	64-103	83	Ey-M	A	SO-SH	36-48	40
7.	HD3090 (C)	PZ-IR-LS-207	0	5MS	55-77	65	92-115	107	66-108	87	Ey-M	A	SH-H	34-49	39

1. Ancillary data from Niphad, Pune, Parbhani, Nasik, Kharad, Dharwad, Bialahongal, Nippani, Ugar-Khurd, Pravaranagar, Arbhavi, Kalloli, Mandya & Kolhapur.
2. Black rust reported in Dharwad & Bialahongal
3. Brown rust reported in Ugar-Khurd & Dharwad

Individual station rust data Trial: AVT-IR-LS-TAS-PZ, 2018-19

SN	Variety	Code	Brown rust		Black rust	
			Dharwad	Bialahongal	Dharwad	Ugar-Khurd
1.	HI8807(d)	PZ-IR-LS-201	tMS	0	0	0
2.	HI1633	PZ-IR-LS-202	0	0	0	0
3.	UAS 3002	PZ-IR-LS-203	0	tMS	tMS	0
4.	GW509	PZ-IR-LS-206	0	0	0	0
5.	Raj4083 (C)	PZ-IR-LS-204	0	0	0	0
6.	HD2932 (C)	PZ-IR-LS-205	tMS	tMS	tMS	5MS
7.	HD3090 (C)	PZ-IR-LS-207	5MS	0	0	0

1853-AVT-RI-TS-TAD-PZ, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N	Variety	Code	Maharashtra						Karnataka																	
			Niphad			Pune			Parbhani			Savalivihir			Dharwad			Bailahongal			Nippani			Bagalkot		
			Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G			
1	NIAW 3170*	PZ-RI-301	37.6	1	1	38.8	3	0	32.1	6	0	34.6	1	1	33.5	4	1	29.6	5	1	41.7	1	1	32.2	7	1
2	GW 1346(d)*	PZ-RI-302	33.1	3	1	24.4	12	0	29.7	11	0	17.4	12	0	29.0	11	0	24.8	10	0	25.4	11	0	35.0	4	1
3	MACS 4058(d)*	PZ-RI-303	32.5	4	0	28.1	10	0	33.1	4	0	22.5	7	0	29.1	10	0	31.3	2	1	24.2	12	0	31.2	9	0
4	HI 8805(d)*	PZ-RI-305	29.1	9	0	33.0	6	0	29.6	12	0	26.5	6	0	32.5	7	0	29.8	4	1	34.4	6	0	32.8	6	1
5	MACS 6695*	PZ-RI-307	30.8	8	0	43.0	1	1	35.9	2	1	30.9	2	0	38.7	1	1	31.4	1	1	31.3	8	0	37.9	1	1
6	MACS 6696*	PZ-RI-310	32.4	5	0	40.2	2	1	30.3	10	0	30.3	3	0	34.2	3	1	25.5	9	0	41.5	2	1	37.3	2	1
7	HI 8802(d)*	PZ-RI-312	31.7	6	0	31.5	8	0	32.0	7	0	19.8	10	0	32.6	6	0	27.4	6	1	30.0	10	0	30.8	10	0
8	NIDW 1149(d)	PZ-RI-311	31.0	7	0	36.0	5	0	36.8	1	1	28.0	4	0	31.6	8	0	26.3	8	1	35.8	3	1	28.8	12	0
9	DBW 93 (C)	PZ-RI-304	29.0	10	0	32.2	7	0	33.0	5	0	22.4	8	0	34.4	2	1	23.4	11	0	35.6	4	1	34.2	5	1
10	AKDW 2997-16(d) (C)	PZ-RI-306	26.9	11	0	25.8	11	0	30.9	9	0	22.0	9	0	29.8	9	0	31.1	3	1	30.8	9	0	31.3	8	0
11	UAS 446(d) (C)	PZ-RI-308	26.8	12	0	30.6	9	0	31.2	8	0	18.6	11	0	27.9	12	0	17.9	12	0	32.3	7	0	29.9	11	0
12	HI 1605 (C)	PZ-RI-309	34.3	2	1	37.3	4	0	34.7	3	1	26.7	5	0	33.2	5	0	26.5	7	1	35.2	5	0	36.4	3	1
G.M.			31.3			33.4			32.4			25.0			32.2			27.1			33.2			33.1		
S.E.(M)			1.984			1.356			1.375			1.010			2.182			2.223			2.616			2.681		
C.D. (10%)			4.7			3.2			3.3			2.4			5.2			5.3			6.3			6.4		
C.V.			12.7			8.1			8.5			8.1			13.6			16.4			15.8			16.2		
D.O.S.(dd.mm.yy)			01.11.18			31.10.18			11.11.18			01.11.18			11.10.18			03.11.18			10.11.18			10.11.18		

No. of Trials : Proposed & Conducted = 11 Trials not reported (3) = Baramati (RMT), Nashik (LSM), Karjat (LSM)

1853-AVT-RI-TS-TAD-PZ, 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	NIAW 3170*	PZ-RI-301	35.8	1	1	34.2	3	1	35.0	1	1
2	GW 1346(d)*	PZ-RI-302	26.2	12	0	28.6	11	0	27.4	11	0
3	MACS 4058(d)*	PZ-RI-303	29.0	8	0	28.9	10	0	29.0	9	0
4	HI 8805(d)*	PZ-RI-305	29.5	6	0	32.4	5	1	30.9	6	0
5	MACS 6695*	PZ-RI-307	35.1	2	1	34.8	1	1	35.0	2	1
6	MACS 6696*	PZ-RI-310	33.3	3	0	34.6	2	1	34.0	3	1
7	HI 8802(d)*	PZ-RI-312	28.8	9	0	30.2	9	0	29.5	8	0
8	NIDW 1149(d)	PZ-RI-311	32.9	5	0	30.6	8	0	31.8	5	0
9	DBW 93 (C)	PZ-RI-304	29.1	7	0	31.9	6	0	30.5	7	0
10	AKDW 2997-16(d) (C)	PZ-RI-306	26.4	11	0	30.8	7	0	28.6	10	0
11	UAS 446(d) (C)	PZ-RI-308	26.8	10	0	27.0	12	0	26.9	12	0
12	HI 1605 (C)	PZ-RI-309	33.2	4	0	32.8	4	1	33.0	4	0
G.M.			30.5			31.4			31.0		
S.E.(M)			0.737			1.218			0.712		
C.D. (10%)			1.7			2.9			1.7		

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: AVT-RI-TS-TAS-PZ, 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	NIAW 3170*	PZ-RI-TS-301	44-64	51	98-118	104	75-98	88	Ey-M	A-W	SO-SH	28-43	40
2	GW 1346(d)*	PZ-RI-TS-302	38-72	52	89-117	100	74-100	92	Ey-M	A	SH	33-44	39
3	MACS 4058(d)*	PZ-RI-TS-303	45-61	49	99-120	105	80-116	97	M	A	SH-H	33-51	45
4	HI 8805(d)*	PZ-RI-TS-305	38-67	50	89-115	100	68-107	93	Ey-M	A	SH-H	35-49	43
5	MACS 6695*	PZ-RI-TS-307	39-60	47	89-109	99	65-87	82	Ey	A	SH	34-43	40
6	MACS 6696*	PZ-RI-TS-310	41-60	48	97-111	103	58-87	81	Ey	A-W	SH-H	28-41	38
7	HI 8802(d)*	PZ-RI-TS-312	43-70	54	99-121	106	91-108	104	M	A	SH-H	36-46	41
8	NIDW 1149(d)	PZ-RI-TS-311	37-61	47	89-113	101	73-86	81	Ey-M	A	SH-H	32-52	45
9	DBW93 (C)	PZ-RI-TS-304	36-68	51	86-110	100	55-87	73	Ey-M	A	SH	22-39	33
10	AKDW2997-16(d) (C)	PZ-RI-TS-306	39-68	53	88-116	101	66-88	77	Ey-M	A	SH-H	27-39	36
11	UAS446(d) (C)	PZ-RI-TS-308	39-67	52	88-120	101	60-90	84	M	A	SH-H	24-39	34
12	HI1605 (C)	PZ-RI-TS-309	37-66	49	89-118	101	70-97	90	Ey	A	SH-H	22-43	35

1. Ancillary data reported from Niphad, Pune, Parbhani, Nassik, Savalvahir, Dharwad, Bailhongal, Nilppani and Bagalkot.
2. No rust data reported from any centre.