

1806-NIVT-4-IR-TS-TDM-NAT-ZONE, 2018-19

LOCATIONWISE MEAN YIELD (q/ha)

S.N.	Variety	Code	CZ																	
			MP						Gujarat						Rajasthan					
			Indore			Powarkheda			SK Nagar		Junagarh		Vijapur		Kota					
			Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G			
1	UAS 470	N-601	54.8	21	0	64.1	15	0	68.4	9	1	49.4	11	1	76.0	1	1	69.8	4	1
2	GW 1351	N-602	61.1	8	0	63.5	16	0	70.7	7	1	49.6	9	1	69.7	3	0	66.7	9	0
3	MPO 1364	N-604	61.0	9	0	64.6	13	0	62.9	18	0	47.0	13	0	66.5	7	0	64.6	12	0
4	DDW 51	N-605	57.4	16	0	69.8	6	1	54.1	24	0	51.8	4	1	64.2	8	0	66.7	9	0
5	GW 1352	N-606	58.2	14	0	58.9	21	0	64.2	17	0	46.3	17	0	61.6	15	0	78.1	1	1
6	HI 8822	N-607	67.0	3	1	57.3	23	0	65.3	15	0	49.5	10	1	54.4	22	0	62.5	16	0
7	UAS 471	N-608	64.1	4	1	69.8	6	1	67.7	11	1	46.5	15	0	63.2	9	0	62.5	18	0
8	PDW 356	N-609	50.9	24	0	69.3	8	1	73.2	4	1	50.1	7	1	50.4	24	0	68.8	6	1
9	DDW 50	N-610	56.4	18	0	71.9	3	1	65.7	14	0	53.2	2	1	68.2	5	0	66.7	9	0
10	MPO 1366	N-611	60.4	10	0	59.9	20	0	62.5	19	0	46.4	16	0	53.1	23	0	55.2	23	0
11	HI 8820	N-612	54.9	20	0	64.6	13	0	70.0	8	1	45.0	19	0	60.9	18	0	61.5	20	0
12	NIDW 1316	N-613	56.2	19	0	58.9	21	0	55.4	23	0	54.2	1	1	62.7	11	0	57.3	22	0
13	WHD 964	N-614	58.1	15	0	66.5	11	1	71.5	6	1	50.1	6	1	49.8	25	0	58.3	21	0
14	MACS 4091	N-615	62.1	7	0	60.4	19	0	67.2	13	1	44.2	22	0	60.3	19	0	62.5	18	0
15	HI 8819	N-617	63.6	5	1	71.4	4	1	76.8	2	1	42.4	24	0	61.7	14	0	63.5	13	0
16	NIDW 1302	N-619	45.0	25	0	50.5	24	0	61.5	21	0	42.1	25	0	62.3	13	0	51.0	25	0
17	HI 8821	N-620	68.6	1	1	67.7	9	1	78.4	1	1	51.2	5	1	62.8	10	0	69.8	4	1
18	RKD 339	N-621	51.8	23	0	50.5	24	0	67.4	12	1	46.9	14	0	61.0	17	0	63.5	13	0
19	NIDW 1293	N-622	58.5	13	0	62.4	17	0	50.3	25	0	43.8	23	0	67.7	6	0	55.2	23	0
20	MACS 4090	N-623	54.6	22	0	71.4	4	1	64.6	16	0	49.6	8	1	69.0	4	0	71.9	3	1
21	MPO 1365	N-624	59.8	11	0	74.3	2	1	56.6	22	0	48.0	12	0	57.9	21	0	63.5	13	0
22	HI 8818	N-625	59.0	12	0	60.9	18	0	76.8	2	1	45.1	18	0	60.0	20	0	68.8	6	1
23	HI 8737 (C)	N-603	62.5	6	1	66.1	12	1	68.2	10	1	44.2	21	0	72.8	2	1	62.5	16	0
24	MACS 3949 (C)	N-616	56.9	17	0	66.7	10	1	62.5	19	0	53.1	3	1	61.5	16	0	68.8	6	1
25	HI 8713 (C)	N-618	67.5	2	1	75.0	1	1	71.6	5	1	44.6	20	0	62.7	12	0	78.1	1	1
G.M.			58.8			64.6			66.1			47.8			62.4			64.7		
S.E.(M)			2.625			3.824			5.146			2.471			2.801			3.339		
C.D. (10%)			6.5			9.3			12.5			6.0			6.8			8.1		
C.V.			6.3			8.4			11.0			7.3			6.3			7.3		
D.O.S.(dd.mm.yy)			12.11.18			15.11.18			20.11.18			15.11.18			19.11.18			18.11.18		

No. of Trials : Proposed = 12

Conducted = 12

1806-NIVT-4-IR-TS-TDM-NAT-ZONE, 2018-19
LOCATIONWISE MEAN YIELD (q/ha)

S.N.	Variety	Code	PZ																	
			Karnataka																	
			Dharwad			Pune			Akola			Niphad			Nippani			Ugar-Khurd		
Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G			
1	UAS 470	N-601	43.8	9	0	59.8	12	0	43.8	5	0	38.9	25	0	54.9	10	0	41.6	13	0
2	GW 1351	N-602	43.7	10	0	60.1	11	0	41.3	9	0	59.6	3	1	60.7	3	1	42.3	10	0
3	MPO 1364	N-604	45.3	6	1	54.4	19	0	40.8	12	0	52.6	7	0	35.4	22	0	40.2	16	0
4	DDW 51	N-605	43.0	12	0	60.9	8	0	39.6	16	0	45.9	17	0	46.9	20	0	52.9	2	1
5	GW 1352	N-606	44.0	8	0	60.4	9	0	33.5	24	0	56.6	4	0	46.9	20	0	42.3	10	0
6	HI 8822	N-607	46.0	5	1	55.7	15	0	41.7	8	0	50.1	14	0	64.7	2	1	45.8	6	1
7	UAS 471	N-608	36.5	21	0	64.0	6	1	42.1	7	0	44.2	19	0	55.6	7	0	53.3	1	1
8	PDW 356	N-609	32.3	24	0	60.4	10	0	49.9	2	1	49.2	15	0	53.1	12	0	43.5	7	0
9	DDW 50	N-610	37.6	20	0	66.9	2	1	38.1	19	0	60.2	2	1	60.2	4	1	42.3	10	0
10	MPO 1366	N-611	33.9	22	0	45.7	23	0	41.0	10	0	53.4	6	0	53.8	11	0	37.7	19	0
11	HI 8820	N-612	33.2	23	0	51.2	20	0	42.6	6	0	43.7	21	0	31.0	25	0	37.3	22	0
12	NIDW 1316	N-613	43.5	11	0	57.5	13	0	39.5	17	0	42.9	22	0	55.0	8	0	40.9	14	0
13	WHD 964	N-614	42.3	14	0	65.1	4	1	44.3	4	0	51.7	10	0	70.6	1	1	43.5	7	0
14	MACS 4091	N-615	42.4	13	0	54.5	18	0	39.9	14	0	52.2	9	0	47.4	18	0	46.6	5	1
15	HI 8819	N-617	38.0	19	0	50.4	21	0	50.3	1	1	48.0	16	0	47.8	16	0	33.3	24	0
16	NIDW 1302	N-619	39.3	18	0	47.3	22	0	39.6	15	0	42.0	24	0	51.9	13	0	40.8	15	0
17	HI 8821	N-620	40.2	16	0	61.4	7	1	37.3	22	0	52.5	8	0	48.8	15	0	49.1	4	1
18	RKD 339	N-621	40.5	15	0	55.1	16	0	37.8	20	0	54.3	5	0	47.8	17	0	39.3	18	0
19	NIDW 1293	N-622	46.2	4	1	43.7	24	0	37.2	23	0	50.6	12	0	47.2	19	0	43.4	9	0
20	MACS 4090	N-623	48.0	3	1	54.8	17	0	37.8	20	0	67.4	1	1	33.2	24	0	33.4	23	0
21	MPO 1365	N-624	29.8	25	0	22.8	25	0	40.9	11	0	50.7	11	0	54.9	9	0	30.8	25	0
22	HI 8818	N-625	51.1	2	1	56.7	14	0	47.7	3	1	43.7	20	0	58.7	6	0	51.9	3	1
23	HI 8737 (C)	N-603	39.4	17	0	65.3	3	1	39.4	18	0	45.8	18	0	50.1	14	0	37.6	21	0
24	MACS 3949 (C)	N-616	44.7	7	1	64.2	5	1	32.4	25	0	50.4	13	0	59.5	5	1	37.7	19	0
25	HI 8713 (C)	N-618	51.9	1	1	70.4	1	1	40.3	13	0	42.4	23	0	34.9	23	0	39.9	17	0
G.M.			41.5			56.3			40.8			50.0			50.8			41.9		
S.E.(M)			3.186			3.160			2.327			4.173			4.645			3.812		
C.D. (10%)			7.9			7.6			5.6			10.3			11.5			9.2		
C.V.			10.9			7.9			8.1			11.8			12.9			12.9		
D.O.S.(dd.mm.yy)			06.11.18			08.11.18			12.11.18			14.11.18			14.11.18			15.11.18		

1806-NIVT-4-IR-TS-TDM-NAT-ZONE, 2018-19
ZONAL AND NATIONAL MEANS (q/ha)

S.N.	Variety	Code	CZ			PZ			NATIONAL		
			Yield	RK	G	Yield	RK	G	Yield	RK	G
1	UAS 470	N-601	63.8	3	1	47.1	13	0	55.4	8	1
2	GW 1351	N-602	63.6	5	1	51.3	3	1	57.4	1	1
3	MPO 1364	N-604	61.1	13	0	44.8	19	0	52.9	18	0
4	DDW 51	N-605	60.7	14	0	48.2	7	0	54.4	13	0
5	GW 1352	N-606	61.2	12	0	47.3	11	0	54.3	15	0
6	HI 8822	N-607	59.3	19	0	50.7	5	1	55.0	9	0
7	UAS 471	N-608	62.3	9	0	49.3	6	0	55.8	7	1
8	PDW 356	N-609	60.5	15	0	48.1	10	0	54.3	14	0
9	DDW 50	N-610	63.7	4	1	50.9	4	1	57.3	3	1
10	MPO 1366	N-611	56.3	24	0	44.2	22	0	50.3	22	0
11	HI 8820	N-612	59.5	17	0	39.8	24	0	49.6	23	0
12	NIDW 1316	N-613	57.5	21	0	46.6	15	0	52.0	19	0
13	WHD 964	N-614	59.0	20	0	52.9	1	1	56.0	6	1
14	MACS 4091	N-615	59.5	18	0	47.2	12	0	53.3	17	0
15	HI 8819	N-617	63.2	7	0	44.6	21	0	53.9	16	0
16	NIDW 1302	N-619	52.1	25	0	43.5	23	0	47.8	25	0
17	HI 8821	N-620	66.4	2	1	48.2	8	0	57.3	2	1
18	RKD 339	N-621	56.9	22	0	45.8	17	0	51.3	20	0
19	NIDW 1293	N-622	56.3	23	0	44.7	20	0	50.5	21	0
20	MACS 4090	N-623	63.5	6	1	45.8	18	0	54.6	11	0
21	MPO 1365	N-624	60.0	16	0	38.3	25	0	49.2	24	0
22	HI 8818	N-625	61.8	10	0	51.6	2	1	56.7	4	1
23	HI 8737 (C)	N-603	62.7	8	0	46.3	16	0	54.5	12	0
24	MACS 3949 (C)	N-616	61.6	11	0	48.2	9	0	54.9	10	0
25	HI 8713 (C)	N-618	66.6	1	1	46.6	14	0	56.6	5	1
G.M.			60.8			46.9			53.8		
S.E.(M)			1.425			1.482			1.028		
C.D. (10%)			3.3			3.4			2.4		

Summary of Disease Data and Agronomic Characteristics

Central Zone

Trial: NIVT-4-IR-TS-TDM, 2018-19

SN	Variety	Code	Rust Reactions		Leaf blight	Agronomic Characteristics							Grain Characteristics			
			Br	BI	HS	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	Col.	Tex.	TGW.R	TGW.M
1.	UAS470	N-601	tMS	5MS	0	57-79	71	107-139	121	81-101	89	0	A	SH-H	46-54	49
2.	GW1351	N-602	tR	tMS	0	54-73	68	99-138	119	79-98	88	20	A	SH-H	48-58	54
3.	MPO1364	N-604	tMS	5MS	0	61-72	68	108-136	120	75-91	86	0	A	SH-H	53-58	56
4.	DDW51	N-605	tMR	tMS	0	69-82	76	110-139	122	80-94	86	0	A	SH-H	40-52	45
5.	GW1352	N-606	5MS	10MS	0	53-73	68	97-135	118	68-91	80	0	A	SH-H	36-53	48
6.	HI8822	N-607	0	tMR	0	61-80	72	108-133	121	75-93	86	0	A	SH-H	48-54	50
7.	UAS471	N-608	tMR	5MS	0	67-84	75	109-135	122	83-104	91	0	A	SH-H	39-54	44
8.	PDW356	N-609	tR	tMR	0	64-82	75	107-138	123	76-105	89	0	A	SH-H	39-52	49
9.	DDW50	N-610	tMR	10MS	0	61-78	70	104-138	119	80-106	90	15	A	SH-H	50-56	53
10.	MPO1366	N-611	tMR	tMS	0	57-75	69	104-135	118	79-104	92	0	A	SH-H	54-59	56
11.	HI8820	N-612	tMS	10MS	0	68-80	75	111-134	121	80-96	87	0	A	SH-H	48-56	50
12.	NIDW1316	N-613	tMS	5MS	0	76-89	81	116-136	125	84-101	94	0	A	SH-H	44-57	51
13.	WHD964	N-614	tMR	5MS	0	63-84	75	107-137	122	80-111	91	0	A	SH-H	40-49	44
14.	MACS4091	N-615	tMR	tR	0	51-76	67	96-130	116	74-101	88	5	A	SH-H	48-54	51
15.	HI8819	N-617	5R	tMR	0	65-79	72	108-134	121	78-97	89	0	A	SH-H	49-54	51
16.	NIDW1302	N-619	tMR	tMS	25	64-81	72	111-135	121	70-86	78	10	A	SH-H	43-56	48
17.	HI8821	N-620	tMR	5MS	0	62-78	72	105-131	119	80-100	91	5	A	SH-H	42-54	52
18.	RKD339	N-621	10MS	20MS	0	64-81	73	109-132	120	78-106	88	0	A	SH-H	51-59	54
19.	NIDW1293	N-622	tMR	5MS	0	67-82	76	110-137	122	89-103	93	0	A	SH-H	50-60	54
20.	MACS4090	N-623	5R	tR	0	62-86	75	107-136	122	82-109	93	0	A	SH-H	45-53	50
21.	MPO1365	N-624	tR	tMR	35	57-80	70	106-132	120	78-101	89	10	A	SH-H	51-58	54
22.	HI8818	N-625	5R	5MS	01	65-82	74	108-132	121	81-98	91	0	A	SH-H	46-57	51
23.	HI8737 (C)	N-603	tR	tMR	0	63-81	72	107-132	120	78-98	87	0	A	SH-H	51-56	54
24.	MACS3949 (C)	N-616	tMS	5MS	0	67-82	74	109-138	122	83-99	90	5	A	SH-H	51-59	54
25.	HI8713 (C)	N-618	tMR	tMR	0	68-79	76	113-137	124	84-102	94	5	A	SH-H	43-56	48

1. Ancillary data reported from Junagadh, Powarkheda, SK Nagar, Indore, Kota and Vijapur.

2. Brown and black rust data from Junagarh and Vijapur.

3. Leaf Blight data from Dharwad and Pune.

4. Lodging data from Powarkheda and Vijapur.

NIVT4-IR-TS-TDM, 2018-19
Central Zone
Individual Station Rust Data

SN	Variety	Code	Junagarh		Vijapur	
			Black Rust	Brown Rust	Black Rust	Brown Rust
1	UAS470	N-601	0	0	5MS	tMS
2	GW1351	N-602	0	0	tMS	tR
3	MPO1364	N-604	tR	0	5MS	tMS
4	DDW51	N-605	0	0	tMS	tMR
5	GW1352	N-606	0	tMR	10MS	5MS
6	HI8822	N-607	0	0	tMR	0
7	UAS471	N-608	0	tMR	5MS	tMR
8	PDW356	N-609	0	tR	tMR	0
9	DDW50	N-610	0	0	10MS	tMR
10	MPO1366	N-611	tr	tMR	tMS	tr
11	HI8820	N-612	0	tR	10MS	tMS
12	NIDW1316	N-613	0	tMR	5MS	tMS
13	WHD964	N-614	0	tR	5MS	tMR
14	MACS4091	N-615	0	tR	tr	tMR
15	HI8819	N-617	0	5R	tMR	tMR
16	NIDW1302	N-619	0	0	tMS	tMR
17	HI8821	N-620	tR	tR	5MS	tMR
18	RKD339	N-621	0	0	20MS	10MS
19	NIDW1293	N-622	0	0	5MS	tMR
20	MACS4090	N-623	tR	5R	tr	0
21	MPO1365	N-624	0	tR	tMR	tR
22	HI8818	N-625	0	5R	5MS	tMR
23	HI8737 (C)	N-603	0	tR	tMR	0
24	MACS3949 (C)	N-616	0	0	5MS	tMS
25	HI8713 (C)	N-618	0	tMR	tMR	tr

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: NIVT-4-IR-TS-TDM, 2018-19

SN	Variety	Rust Reactions	Code	Agronomic Characteristics								Grain Characteristics			
		BI		Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	Thr.	Col.	Tex.	TGW.R	TGW.M
1.	UAS470	10S	N-601	64-76	68	112-130	116	77-93	88	10	Ey-M	A	SH-H	38-60	47
2.	GW1351	0	N-602	53-65	59	105-123	111	80-93	87	40	Ey-M	A	SH-H	46-61	52
3.	MPO1364	0	N-604	55-72	63	106-128	113	78-90	85	15	Ey-M	A	SH-H	48-57	53
4.	DDW51	20S	N-605	63-77	69	111-132	118	85-93	88	0	Ey-M	A	SH-H	40-60	46
5.	GW1352	0	N-606	56-70	62	102-124	109	72-85	78	0	Ey-M	A	SH-H	43-54	48
6.	HI8822	0	N-607	59-70	65	109-127	115	82-88	84	30	Ey-M	A	SH-H	39-59	47
7.	UAS471	5MS	N-608	62-76	66	112-131	117	74-100	91	20	Ey-M	A	SH-H	31-62	42
8.	PDW356	60S	N-609	63-72	65	113-128	117	70-90	82	10	Ey-M	A	SH-H	39-60	48
9.	DDW50	20S	N-610	58-73	64	106-127	112	83-96	88	15	Ey-M	A	SH-H	45-64	52
10.	MPO1366	0	N-611	58-76	64	108-131	113	86-99	92	15	Ey-M	A	SH-H	48-54	50
11.	HI8820	0	N-612	65-75	71	115-131	119	80-96	88	35	Ey-M	A	SH-H	32-66	47
12.	NIDW1316	0	N-613	72-83	76	117-132	121	84-101	95	0	Ey-M	A	SH-H	42-60	50
13.	WHD964	5MS	N-614	62-76	67	110-131	117	83-91	88	20	Ey-M	A	SH-H	31-55	42
14.	MACS4091	tMS	N-615	54-72	61	100-126	110	74-89	82	10	Ey-M	A	SH-H	39-60	50
15.	HI8819	ts	N-617	62-79	68	111-131	116	79-92	86	10	Ey-M	A	SH-H	37-64	50
16.	NIDW1302	0	N-619	61-78	67	110-130	116	79-87	83	15	Ey-M	A	SH-H	42-60	50
17.	HI8821	0	N-620	58-69	62	106-126	113	85-97	90	20	Ey-M	A	SH-H	48-58	52
18.	RKD339	0	N-621	62-73	66	110-128	116	72-91	86	0	Ey-M	A	SH-H	46-53	49
19.	NIDW1293	0	N-622	68-78	72	117-131	121	81-97	92	20	Ey-M	A	SH-H	38-58	50
20.	MACS4090	0	N-623	64-80	70	113-131	118	80-96	88	25	Ey-M	A	SH-H	42-64	52
21.	MPO1365	0	N-624	54-73	62	105-127	112	83-95	90	25	Ey-M	A	SH-H	33-52	45
22.	HI8818	5MS	N-625	62-76	68	111-130	117	84-95	90	25	Ey-M	A	SH-H	31-57	45
23.	HI8737 (C)	0	N-603	57-73	64	105-126	113	74-90	81	0	Ey-M	A	SH-H	47-57	53
24.	MACS3949 (C)	5MS	N-616	61-78	67	111-132	116	79-94	87	0	Ey-M	A	SH-H	43-54	50
25.	HI8713 (C)	5MS	N-618	65-77	70	113-132	119	78-95	89	0	Ey-M	A	SH-H	40-63	49

1. Ancillary data from Niphad, Nippani, Akola, Dharwad, Ugar Khurd and Pune.
2. Black rust data from Dharwad and Pune
3. Lodging data from Pune and Vijapur.

NIVT4-IR-TS-TDM, 2018-19
Peninsular Zone
Individual Station Rust Data

SN	Variety	Code	Black Rust	Black Rust
			Dharwad	Pune
1	UAS470	N-601	10S	0
2	GW1351	N-602	0	0
3	MPO1364	N-604	0	0
4	DDW51	N-605	20S	0
5	GW1352	N-606	0	0
6	HI8822	N-607	0	0
7	UAS471	N-608	5MS	0
8	PDW356	N-609	60S	0
9	DDW50	N-610	20S	0
10	MPO1366	N-611	0	0
11	HI8820	N-612	0	0
12	NIDW1316	N-613	0	0
13	WHD964	N-614	5MS	0
14	MACS4091	N-615	tMS	0
15	HI8819	N-617	0	5R
16	NIDW1302	N-619	0	0
17	HI8821	N-620	0	tR
18	RKD339	N-621	0	0
19	NIDW1293	N-622	0	0
20	MACS4090	N-623	0	5R
21	MPO1365	N-624	0	tr
22	HI8818	N-625	5MS	5R
23	HI8737 (C)	N-603	0	0
24	MACS3949 (C)	N-616	5MS	0
25	HI8713 (C)	N-618	5MS	tMR