

1906-NIVT-4-IR-TS-TDM-NAT-ZONE, 2019-20

LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	CZ																	
			MP			Gujarat				Rajasthan										
			Indore			Powarkheda			Junagarh		Vijapur		Kota		Udaipur					
			Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G			
1	PWU5	N-601	52.8	11	1	68.4	5	0	43.0	25	0	64.4	4	1	69.2	7	1	70.4	5	1
2	HI8826	N-603	58.6	2	1	64.4	8	0	61.6	1	1	67.5	1	1	78.4	1	1	33.0	24	0
3	MACS4106	N-604	59.2	1	1	60.4	12	0	57.5	7	1	59.2	11	0	71.7	5	1	32.3	25	0
4	UAS473	N-605	50.9	15	0	50.2	23	0	53.6	13	0	55.4	15	0	51.7	19	0	69.3	7	0
5	HI8828	N-606	50.1	18	0	59.6	15	0	50.4	19	0	59.4	10	0	57.1	13	0	59.2	21	0
6	MPO1375	N-607	49.1	19	0	70.8	4	1	49.0	21	0	60.3	9	1	51.2	20	0	41.9	23	0
7	MACS4100	N-608	53.7	10	1	72.6	1	1	58.5	6	1	57.2	12	0	58.7	11	0	68.5	9	0
8	WHD965	N-609	50.8	16	0	55.4	21	0	53.1	15	0	52.0	21	0	53.8	16	0	65.8	13	0
9	NIDW1348	N-610	45.9	24	0	60.3	13	0	53.2	14	0	53.1	20	0	46.2	24	0	73.3	2	1
10	DDW53	N-611	47.2	21	0	61.1	11	0	58.8	5	1	57.0	13	0	73.9	3	1	67.3	10	0
11	HI8829	N-612	46.3	23	0	57.5	18	0	48.9	22	0	54.0	18	0	56.3	14	0	62.3	20	0
12	PDW360	N-613	47.0	22	0	59.9	14	0	45.4	23	0	53.3	19	0	55.2	15	0	72.9	4	1
13	HI8825	N-614	54.3	8	1	59.4	16	0	57.2	8	1	62.7	7	1	60.9	10	0	67.0	11	0
14	HI8827	N-615	54.4	6	1	41.5	25	0	49.6	20	0	61.4	8	1	49.2	22	0	68.5	8	0
15	DDW54	N-617	52.3	13	1	56.7	19	0	59.6	3	1	50.4	24	0	58.3	12	0	64.7	17	0
16	UAS474	N-619	54.6	4	1	46.5	24	0	55.4	11	1	54.9	16	0	46.6	23	0	65.8	12	0
17	PBND4812	N-620	48.4	20	0	71.0	3	1	61.1	2	1	51.7	23	0	53.2	18	0	51.6	22	0
18	GW1355	N-621	50.7	17	0	64.2	9	0	51.0	18	0	66.2	3	1	45.2	25	0	65.7	14	0
19	GW1354	N-622	44.5	25	0	59.2	17	0	52.3	16	0	54.1	17	0	49.5	21	0	73.1	3	1
20	NIDW1345	N-623	57.1	3	1	66.0	7	0	55.6	10	1	66.6	2	1	71.4	6	1	65.0	16	0
21	MPO1374	N-624	52.1	14	1	71.4	2	1	45.0	24	0	40.4	25	0	53.2	17	0	69.4	6	0
22	MPO1373	N-625	52.8	12	1	53.4	22	0	59.3	4	1	63.5	6	1	61.6	9	0	74.2	1	1
23	HI8713 (C)	N-602	54.5	5	1	56.5	20	0	54.3	12	0	56.2	14	0	77.0	2	1	65.5	15	0
24	HI8737 (C)	N-616	53.9	9	1	66.1	6	0	51.4	17	0	51.9	22	0	63.5	8	0	62.6	19	0
25	MACS3949(C)	N-618	54.4	7	1	64.2	9	0	56.6	9	1	64.1	5	1	72.1	4	1	64.5	18	0
G.M.			51.8			60.7			53.7			57.5			59.4			63.0		
S.E.(M)			3.221			1.443			2.709			2.950			5.021			3.790		
C.D. (10%)			8.0			3.5			6.7			7.3			12.2			9.2		
C.V.			8.8			3.4			7.1			7.3			12.0			8.5		
D.O.S.(dd.mm.yy)			18.11.19			17.11.19			13.11.19			13.11.19			19.11.19			11.11.19		

No. of Trials : Proposed = 13 Conducted = 13
Trials not reported (03) = Akola (TF), SK Nagar (LSM), Niphad (LSM, VLS)

1906-NIVT-4-IR-TS-TDM-NAT-ZONE, 2019-20

LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	PZ							
			Karnataka							
			Dharwad		Pune		Nippani		Ugar-Khurd	
			Yield	RK G	Yield	RK G	Yield	RK G	Yield	RK G
1	PWU5	N-601	42.5	14 0	47.8	13 0	33.7	23 0	39.4	19 0
2	HI8826	N-603	53.1	1 1	61.6	1 1	45.1	11 0	43.7	11 0
3	MACS4106	N-604	41.4	17 0	46.5	15 0	37.5	18 0	50.2	2 1
4	UAS473	N-605	41.1	18 0	47.3	14 0	40.2	15 0	47.1	5 0
5	HI8828	N-606	48.7	3 1	48.1	11 0	38.9	17 0	39.6	18 0
6	MPO1375	N-607	38.2	22 0	43.9	18 0	30.0	25 0	36.0	25 0
7	MACS4100	N-608	44.7	11 1	53.8	4 0	43.3	14 0	39.0	20 0
8	WHD965	N-609	46.1	9 1	48.8	10 0	50.7	4 1	44.4	10 0
9	NIDW1348	N-610	42.1	15 0	49.1	9 0	49.7	5 1	38.2	21 0
10	DDW53	N-611	51.2	2 1	52.1	6 0	53.7	2 1	40.4	17 0
11	HI8829	N-612	30.2	25 0	40.0	24 0	36.5	21 0	49.8	4 1
12	PDW360	N-613	48.3	4 1	44.5	16 0	52.3	3 1	43.6	12 0
13	HI8825	N-614	38.3	21 0	42.1	22 0	33.9	22 0	49.9	3 1
14	HI8827	N-615	45.8	10 1	52.6	5 0	39.3	16 0	51.5	1 1
15	DDW54	N-617	46.5	7 1	43.7	19 0	36.5	20 0	44.5	9 0
16	UAS474	N-619	36.9	23 0	43.5	20 0	43.6	13 0	46.8	6 0
17	PBND4812	N-620	38.4	20 0	49.8	8 0	45.6	10 0	36.5	22 0
18	GW1355	N-621	42.5	13 0	37.1	25 0	48.1	8 1	41.6	14 0
19	GW1354	N-622	32.0	24 0	47.9	12 0	44.1	12 0	40.8	15 0
20	NIDW1345	N-623	46.9	5 1	53.9	3 0	46.9	9 0	36.0	24 0
21	MPO1374	N-624	46.4	8 1	41.0	23 0	37.3	19 0	45.4	7 0
22	MPO1373	N-625	46.7	6 1	53.9	2 0	56.0	1 1	40.5	16 0
23	HI8713 (C)	N-602	40.9	19 0	51.3	7 0	49.2	7 1	42.8	13 0
24	HI8737 (C)	N-616	42.0	16 0	42.6	21 0	49.2	6 1	45.3	8 0
25	MACS3949(C)	N-618	44.3	12 1	44.3	17 0	33.3	24 0	36.3	23 0
G.M.			43.0		47.5		43.0		42.8	
S.E.(M)			4.073		1.770		3.694		3.574	
C.D. (10%)			10.1		4.4		9.1		8.6	
C.V.			13.4		5.3		12.2		11.8	
D.O.S.(dd.mm.yy)			18.11.19		19.11.19		19.11.19		20.11.19	

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ZONAL AND NATIONAL MEANS (q/ha)

SN	Variety	Code	CZ			PZ			NATIONAL		
			Yield	RK	G	Yield	RK	G	Yield	RK	G
1	PWU5	N-601	61.4	4	1	40.8	22	0	53.2	8	0
2	HI8826	N-603	60.6	8	1	50.9	1	1	56.7	1	1
3	MACS4106	N-604	56.7	13	0	43.9	13	0	51.6	13	0
4	UAS473	N-605	55.2	20	0	43.9	12	0	50.7	20	0
5	HI8828	N-606	56.0	15	0	43.8	14	0	51.1	18	0
6	MPO1375	N-607	53.7	25	0	37.0	25	0	47.0	25	0
7	MACS4100	N-608	61.5	3	1	45.2	9	0	55.0	5	1
8	WHD965	N-609	55.2	21	0	47.5	4	1	52.1	12	0
9	NIDW1348	N-610	55.3	18	0	44.8	11	0	51.1	17	0
10	DDW53	N-611	60.9	5	1	49.4	2	1	56.3	3	1
11	HI8829	N-612	54.2	22	0	39.1	24	0	48.2	24	0
12	PDW360	N-613	55.6	16	0	47.1	6	1	52.2	11	0
13	HI8825	N-614	60.3	9	0	41.1	21	0	52.6	10	0
14	HI8827	N-615	54.1	23	0	47.3	5	1	51.4	14	0
15	DDW54	N-617	57.0	12	0	42.8	15	0	51.3	15	0
16	UAS474	N-619	54.0	24	0	42.7	16	0	49.5	23	0
17	PBND4812	N-620	56.2	14	0	42.6	17	0	50.7	19	0
18	GW1355	N-621	57.2	11	0	42.3	19	0	51.3	16	0
19	GW1354	N-622	55.5	17	0	41.2	20	0	49.8	22	0
20	NIDW1345	N-623	63.6	1	1	45.9	8	0	56.5	2	1
21	MPO1374	N-624	55.2	19	0	42.5	18	0	50.1	21	0
22	MPO1373	N-625	60.8	6	1	49.3	3	1	56.2	4	1
23	HI8713 (C)	N-602	60.7	7	1	46.1	7	0	54.8	6	1
24	HI8737 (C)	N-616	58.2	10	0	44.8	10	0	52.8	9	0
25	MACS3949(C)	N-618	62.6	2	1	39.6	23	0	53.4	7	0
G.M.			57.7			44.1			52.2		
S.E.(M)			1.375			1.698			1.069		
C.D. (10%)			3.2			4.0			2.5		

Summary of Disease Data and Agronomic Characteristics

Central Zone

Trial: NIVT-4-IR-TS-TDM, 2019-20

SN	Variety	Code	Disease reaction		Agronomic Characteristics							Grain Characteristics				
			Br (HS)	BI (HS)	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.	Thr.	Col.	Tex.	TGW.R	TGW.M
1	PWU5	N-601	tR	40S	53-81	66	108-137	119	78-101	92	0	M	A	H	42-49	45
2	HI8826	N-603	tMR	5R	65-91	76	116-140	126	78-102	94	0	M	A	H	42-53	49
3	MACS4106	N-604	0	tR	58-84	70	110-135	122	69-102	89	0	M	A	SH	43-60	50
4	UAS473	N-605	tR	tMS	69-85	75	116-130	124	73-134	93	20	H	A	H	39-51	46
5	HI8828	N-606	tR	tR	67-83	75	111-131	123	75-100	90	20	M	A	H	38-57	48
6	MPO1375	N-607	0	20S	65-91	73	110-138	124	77-98	89	10	M	A	H	44-57	49
7	MACS4100	N-608	tR	5R	59-78	66	106-134	120	69-100	85	5	M	A	H	42-50	46
8	WHD965	N-609	0	tR	63-79	71	109-135	122	71-105	91	0	M	A	H	44-58	51
9	NIDW1348	N-610	tR	5R	61-78	70	110-134	121	74-110	92	5	M	A	H	47-60	54
10	DDW53	N-611	tR	20S	68-82	74	115-133	123	73-102	91	0	M	A	H	40-55	48
11	HI8829	N-612	0	5R	68-86	78	113-139	124	77-104	94	15	H	A	H	44-57	50
12	PDW360	N-613	tR	20MS	72-86	80	118-142	126	69-104	89	0	M	A	H	41-53	47
13	HI8825	N-614	0	tR	59-80	68	109-130	121	66-100	86	10	M	A	H	43-54	50
14	HI8827	N-615	0	5R	62-91	75	114-139	124	70-98	87	5	M	A	H	41-56	47
15	DDW54	N-617	tR	20S	67-84	76	117-133	124	67-101	89	0	H	A	H	33-50	44
16	UAS474	N-619	tR	5R	65-82	71	112-135	123	66-101	86	5	M	A	H	41-48	45
17	PBND4812	N-620	0	tR	66-81	73	110-132	122	78-118	100	0	M	A	H	46-60	52
18	GW1355	N-621	0	20S	61-81	70	112-135	122	65-98	84	0	M	A	SH	46-58	49
19	GW1354	N-622	0	tR	63-81	72	110-134	122	67-100	82	0	M	A	H	41-60	54
20	NIDW1345	N-623	0	5R	65-79	71	108-134	120	71-103	91	20	M	A	H	41-52	45
21	MPO1374	N-624	tR	10MS	55-81	65	107-133	120	60-99	83	30	H	A	H	42-59	51
22	MPO1373	N-625	tR	60S	63-84	75	114-132	122	79-102	94	20	H	A	SH	37-49	44
23	HI8713 (C)	N-602	tR	10MS	72-84	77	119-136	125	76-105	94	20	M	A	H	42-51	45
24	HI8737 (C)	N-616	tMR	10MS	65-84	72	114-136	124	70-99	87	5	H	A	H	47-58	52
25	MACS3949 (C)	N-618	20S	5R	68-84	76	114-138	124	73-102	90	5	M	A	H	42-52	48

1. Ancillary data from Indore, Junagadh, SK Nagar, Udaipur, Vijapur, Kota and Powarkheda centers.
2. Brown rust data from Junagadh, Vijapur and Black rust reported from Vijapur, Powarkheda centres only.

NIVT-4-IR-TS-TDM, 2019-20
Central Zone
Individual Station Rust Data

SN	Variety	Code	Brown rust		Black rust	
			Junagarh	Vijapur	Vijapur	Powarkheda
1	PWU5	N-601	0	tR	10MS	40S
2	HI8826	N-603	0	tMR	5R	0
3	MACS4106	N-604	0	0	tR	0
4	UAS473	N-605	0	tR	tMS	0
5	HI8828	N-606	0	tR	tR	0
6	MPO1375	N-607	0	0	5R	20S
7	MACS4100	N-608	0	tR	5R	0
8	WHD965	N-609	0	0	tR	0
9	NIDW1348	N-610	0	tR	5R	0
10	DDW53	N-611	0	tR	5MS	20S
11	HI8829	N-612	0	0	5R	0
12	PDW360	N-613	0	tR	20MS	10MS
13	HI8825	N-614	0	0	tR	0
14	HI8827	N-615	0	0	5R	0
15	DDW54	N-617	0	tR	5S	20S
16	UAS474	N-619	0	tR	5R	0
17	PBND4812	N-620	0	0	tR	0
18	GW1355	N-621	0	0	tR	20S
19	GW1354	N-622	0	0	tR	0
20	NIDW1345	N-623	0	0	5R	0
21	MPO1374	N-624	0	tR	5MR	10MS
22	MPO1373	N-625	0	tR	5R	60S
23	HI8713 (C)	N-602	0	tR	5R	10MS
24	HI8737 (C)	N-616	tMR	tMR	5MS	10MS
25	MACS3949 (C)	N-618	20S	tR	5R	0

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: NIVT-4-IR-TS-TDM, 2019-20

SN	Variety	Code	Disease reaction			Agronomic Characteristics								Grain Characteristics			
			Br (HS)	BI (HS)	ACI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.	Thr.	Col.	Tex.	TGW.R	TGW.M
1	PWU5	N-601	10S	0	0.0	51-66	57	98-121	106	71-85	80	0	M	A	H	36-43	40
2	HI8826	N-603	0	10MS	4.0	56-73	62	100-117	108	87-102	93	30	M	A	H	34-51	46
3	MACS4106	N-604	0	0	0.0	53-68	58	101-109	104	85-92	90	0	Ey	A	H	40-54	43
4	UAS473	N-605	5MS	5MS	1.6	54-68	60	101-113	107	86-112	105	0	M	A	H	39-48	45
5	HI8828	N-606	0	tMS	0.3	59-67	63	104-111	108	81-88	85	30	M	A	H	36-53	46
6	MPO1375	N-607	5MS	tMS	0.3	60-69	64	106-113	110	82-95	90	20	M	A	H	39-56	51
7	MACS4100	N-608	5MS	20S	11.7	52-70	58	100-109	104	76-91	83	40	Ey	A	H	37-46	44
8	WHD965	N-609	0	10S	3.6	61-68	64	103-116	111	86-95	89	15	M	A	SH	39-54	46
9	NIDW1348	N-610	5MR	5MS	1.6	65-75	71	107-123	114	88-96	91	5	Ey	A	H	41-56	45
10	DDW53	N-611	0	5S	3.3	58-71	63	108-112	110	84-87	86	30	M	A	H	36-51	45
11	HI8829	N-612	0	5S	1.9	62-76	68	110-118	115	87-100	93	40	M	A	H	38-48	41
12	PDW360	N-613	5MS	tMR	0.1	52-80	61	102-124	113	80-95	90	10	M	A	H	38-47	44
13	HI8825	N-614	0	10S	3.3	61-80	67	102-113	109	80-98	90	0	Ey	A	H	38-43	44
14	HI8827	N-615	0	5MS	1.3	61-67	64	107-112	110	85-88	87	5	M	A	H	37-44	41
15	DDW54	N-617	0	tMS	0.3	68-71	70	110-120	115	86-92	88	40	Ey	A	H	36-48	42
16	UAS474	N-619	0	5MS	1.3	54-66	58	101-111	105	84-88	86	10	M	A	H	32-43	35
17	PBND4812	N-620	0	tMS	0.3	55-77	62	102-108	105	101-114	106	0	Ey	A	H	46-55	50
18	GW1355	N-621	5MS	0	0.0	64-72	67	101-104	110	73-83	79	0	M	A	H	43-51	46
19	GW1354	N-622	5MS	5MS	1.6	61-66	63	104-112	109	77-89	83	0	M	A	SH	43-56	48
20	NIDW1345	N-623	5MS	5MS	1.6	61-67	64	104-117	113	94-96	95	5	M	A	H	33-46	41
21	MPO1374	N-624	10S	20S	15.0	53-69	64	99-119	111	70-88	81	5	M	A	H	40-53	50
22	MPO1373	N-625	0	10S	6.0	54-70	60	102-110	107	92-96	94	20	Ey	A	H	34-44	38
23	HI8713 (C)	N-602	0	tMS	0.1	58-70	64	110-118	113	84-91	87	10	M	A	SH	39-49	42
24	HI8737 (C)	N-616	0	0	0.0	63-68	66	103-115	111	77-88	83	0	M	A	H	41-52	44
25	MACS3949 (C)	N-618	0	tMS	0.3	65-71	69	108-121	116	73-95	86	0	M	A	H	41-51	44

1. Ancillary data from Pune, Dharwad, Niphad, Nippani and Ugar-khurd centers.
2. Incidence of Brown rust from Dharwad, Ugar-khurd; and Black rust from Dharwad, Nippani, Ugar-khurd centre only.
3. Lodging data from Pune centre only.

NIVT-4-IR-TS-TDM, 2019-20
Peninsular Zone
Individual Station Rust Data

SN	Variety	Code	Brown rust		Black rust		
			Dharwad	Ugar Khurd	Dharwad	Nippani	Ugar Khurd
1	PWU5	N-601	10S	5MS	0	0	0
2	HI8826	N-603	0	0	5MS	10MS	0
3	MACS4106	N-604	0	0	0	0	0
4	UAS473	N-605	5MS	0	5MS	0	tMS
5	HI8828	N-606	0	0	0	0	tMS
6	MPO1375	N-607	5MS	0	0	0	tMS
7	MACS4100	N-608	5MS	5MS	20S	5S	10S
8	WHD965	N-609	0	0	tMS	10S	0
9	NIDW1348	N-610	5MR	0	0	5MS	tMS
10	DDW53	N-611	0	0	5MR	5S	tMS
11	HI8829	N-612	0	0	0	5S	tMS
12	PDW360	N-613	5MS	0	tMR	0	0
13	HI8825	N-614	0	0	0	10S	0
14	HI8827	N-615	0	0	0	5MS	0
15	DDW54	N-617	0	0	0	0	tMS
16	UAS474	N-619	0	0	0	0	5MS
17	PBND4812	N-620	0	0	0	tMS	0
18	GW1355	N-621	0	5MS	0	0	0
19	GW1354	N-622	0	5MS	0	tMS	5MS
20	NIDW1345	N-623	5MS	0	5MS	tMS	0
21	MPO1374	N-624	10S	0	20S	5S	20S
22	MPO1373	N-625	0	0	10S	0	10MS
23	HI8713 (C)	N-602	0	0	0	tMS	0
24	HI8737 (C)	N-616	0	0	0	0	0
25	MACS3949 (C)	N-618	0	0	0	0	tMS