

**2306-NIVT-4-IR-TS-TDM-NAT-ZONE, 2023-24**  
**LOCATIONWISE MEAN YIELD (q/ha)**

SN	Variety	Code	NWPZ												CZ		
			Delhi			Punjab			UTK			Rajasthan			M.P.		
			Delhi			Ludhiana			Pantnagar			Sriganganagar			Powarkheda		
			Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G
1	MACS4146	N601	96.8	1	1	57.8	14	0	51.0	24	0	59.7	17	0	56.3	10	0
2	HI8854	N602	84.3	15	0	60.6	6	1	63.4	5	1	67.2	14	0	58.3	4	0
3	NIDW1557	N603	80.8	17	0	42.4	29	0	61.5	7	0	76.4	6	0	49.3	22	0
4	DDK1067(Dic)	N604	50.0	34	0	40.1	35	0	42.7	28	0	27.2	33	0	47.2	27	0
5	UAS485	N605	88.9	6	1	54.2	17	0	54.3	19	0	44.8	27	0	57.6	5	0
6	PDW368	N606	90.4	4	1	63.4	3	1	39.3	34	0	63.3	16	0	56.9	7	0
7	MACS5064(Dic)	N607	61.9	30	0	42.5	28	0	47.0	26	0	23.0	35	0	55.6	13	0
8	HI8855	N608	87.8	8	1	59.7	8	0	53.9	20	0	72.2	10	0	61.8	3	0
9	GW1369	N610	67.3	28	0	40.1	36	0	40.6	31	0	47.0	25	0	56.3	10	0
10	AKDW5520	N611	86.2	11	0	59.7	8	0	61.4	8	0	68.2	13	0	57.6	5	0
11	GW1370	N612	73.9	25	0	58.3	13	0	53.8	21	0	72.5	9	0	47.9	25	0
12	PDW366	N613	68.3	27	0	63.5	2	1	47.4	25	0	27.6	32	0	43.8	31	0
13	MACS5065(Dic)	N615	65.0	29	0	40.3	32	0	54.9	17	0	24.2	34	0	72.2	1	1
14	PDW367	N616	90.2	5	1	51.9	19	0	51.3	23	0	81.6	3	1	46.5	30	0
15	MPO1403	N617	80.7	18	0	59.0	12	0	62.3	6	1	70.3	12	0	48.6	24	0
16	MPO1404	N618	73.0	26	0	48.6	23	0	40.5	32	0	47.3	24	0	33.3	36	0
17	WHD969	N619	78.5	21	0	51.4	20	0	64.1	4	1	63.7	15	0	46.5	29	0
18	NIDW1542	N620	75.0	24	0	61.8	4	1	60.8	11	0	82.0	2	1	63.9	2	1
19	DDW66	N621	85.3	12	0	59.7	10	0	60.8	10	0	57.3	18	0	47.2	27	0
20	HI8853	N622	84.5	14	0	51.2	22	0	60.5	12	0	76.4	7	0	47.9	25	0
21	HW5306 (Dic)	N623	49.8	35	0	40.4	31	0	42.7	29	0	81.2	4	1	56.9	7	0
22	UAS486	N625	87.5	9	1	42.7	27	0	55.8	16	0	38.9	29	0	37.5	35	0
23	GW1371	N628	88.2	7	1	43.8	26	0	38.6	36	0	51.5	22	0	41.7	32	0
24	HI8858	N629	87.3	10	1	54.5	16	0	64.4	3	1	47.6	23	0	54.9	14	0
25	DDK1066(Dic)	N630	59.0	31	0	41.0	30	0	51.5	22	0	38.4	30	0	56.9	7	0
26	HW5305 (Dic)	N631	54.2	33	0	47.6	25	0	40.5	33	0	52.8	19	0	41.0	34	0
27	PBN1841	N632	59.0	32	0	40.3	32	0	39.1	35	0	51.8	20	0	50.0	20	0
28	MACS4147	N633	79.6	20	0	51.4	20	0	57.7	13	0	34.4	31	0	49.3	22	0
29	DDW67	N634	92.3	3	1	59.4	11	0	65.5	2	1	79.7	5	1	51.4	18	0
30	PWU8	N635	77.0	22	0	53.8	18	0	61.0	9	0	42.7	28	0	56.3	10	0
31	DDW65	N636	80.5	19	0	48.6	24	0	54.7	18	0	84.2	1	1	41.7	32	0
32	MACS3949 (C)	N609	92.8	2	1	59.9	7	0	57.2	15	0	75.2	8	0	54.2	15	0
33	PDW314 (C)	N614	83.4	16	0	61.8	4	1	57.7	14	0	51.7	21	0	50.0	20	0
34	HI8737 (C)	N624	84.8	13	0	56.9	15	0	40.6	30	0	46.0	26	0	53.5	17	0
35	HI8713 (C)	N627	76.2	23	0	65.6	1	1	66.8	1	1	71.8	11	0	51.4	18	0
36	DDK1029(Dic.C)	N626	49.3	36	0	40.2	34	0	43.5	27	0	22.2	36	0	54.2	15	0
G.M.			76.9			52.1			53.0			56.2			51.5		
S.E.(M)			3.986			2.185			2.138			2.520			3.758		
C.D. (10%)			9.6			5.2			5.1			6.1			9.0		
C.V.			7.3			5.9			5.7			6.3			10.3		
D.O.S.(dd.mm.yy)			16.11.23			07.11.23			11.11.23			07.11.23			14.11.23		

No. of Trials : Proposed = 19 Conducted = 19  
 Trial not conducted (00) = Nil  
 Trials not reported (04) = NWPZ : Hisar (LSM), Karnal (LSM)  
 CZ : Gwalior (LSM)  
 PZ : Niphad (LSM)

2306-NIVT-4-IR-TS-TDM-NAT-ZONE, 2023-24  
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Code	CZ														
			M.P.			Gujarat						Rajasthan					
			Indore			Junagadh		Anand		Vijapur		Udaipur					
			Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G			
1	MACS4146	N601	74.9	3	1	54.1	3	0	55.1	7	0	57.6	12	1	74.0	2	1
2	HI8854	N602	71.9	6	1	56.5	2	0	41.6	25	0	59.3	9	1	68.1	8	0
3	NIDW1557	N603	60.7	28	0	48.9	12	0	48.9	12	0	49.9	24	0	63.0	16	0
4	DDK1067(Dic)	N604	61.9	26	0	45.0	23	0	41.3	26	0	59.4	8	1	48.6	31	0
5	UAS485	N605	67.7	18	0	50.8	8	0	55.7	4	0	52.4	22	0	65.8	11	0
6	PDW368	N606	74.3	5	1	45.3	22	0	43.1	20	0	48.4	26	0	61.0	19	0
7	MACS5064(Dic)	N607	60.4	29	0	47.8	15	0	39.1	30	0	62.3	4	1	49.2	30	0
8	HI8855	N608	71.5	8	1	62.0	1	1	55.2	6	0	62.8	3	1	68.8	6	1
9	GW1369	N610	70.5	12	1	53.7	4	0	43.9	19	0	59.3	9	1	70.0	4	1
10	AKDW5520	N611	66.1	20	0	40.8	30	0	57.2	3	0	56.4	15	0	69.3	5	1
11	GW1370	N612	58.9	31	0	47.9	14	0	57.4	2	0	55.0	17	0	58.6	22	0
12	PDW366	N613	56.4	34	0	41.9	27	0	45.7	16	0	47.6	28	0	51.5	27	0
13	MACS5065(Dic)	N615	67.8	17	0	40.8	31	0	37.4	33	0	57.9	11	1	46.6	33	0
14	PDW367	N616	57.2	33	0	46.6	20	0	41.2	27	0	55.5	16	0	62.4	18	0
15	MPO1403	N617	68.9	15	0	41.8	28	0	53.2	8	0	41.7	36	0	67.5	9	0
16	MPO1404	N618	70.1	13	1	38.7	32	0	45.9	15	0	42.4	34	0	56.7	25	0
17	WHD969	N619	74.7	4	1	52.7	6	0	47.9	13	0	56.9	13	1	65.3	12	0
18	NIDW1542	N620	70.8	10	1	46.1	21	0	42.8	22	0	42.0	35	0	57.9	23	0
19	DDW66	N621	70.8	11	1	47.3	18	0	47.1	14	0	52.8	21	0	63.8	14	0
20	HI8853	N622	64.3	23	0	49.2	11	0	49.6	10	0	68.8	1	1	66.7	10	0
21	HW5306 (Dic)	N623	50.4	35	0	33.3	36	0	38.0	31	0	53.1	20	0	42.6	34	0
22	UAS486	N625	64.7	22	0	41.1	29	0	42.2	23	0	44.7	32	0	62.6	17	0
23	GW1371	N628	68.7	16	0	53.4	5	0	45.5	17	0	47.5	29	0	61.0	20	0
24	HI8858	N629	77.2	1	1	49.3	10	0	68.7	1	1	64.3	2	1	50.1	28	0
25	DDK1066(Dic)	N630	44.2	36	0	36.7	34	0	36.8	34	0	60.3	6	1	47.2	32	0
26	HW5305 (Dic)	N631	59.5	30	0	38.3	33	0	39.4	29	0	56.8	14	1	37.8	36	0
27	PBN1841	N632	66.2	19	0	48.0	13	0	39.9	28	0	45.5	30	0	49.8	29	0
28	MACS4147	N633	61.8	27	0	50.0	9	0	36.8	35	0	47.9	27	0	71.3	3	1
29	DDW67	N634	63.9	24	0	47.7	16	0	44.0	18	0	59.5	7	1	64.7	13	0
30	PWU8	N635	65.6	21	0	44.8	24	0	48.9	11	0	54.7	18	0	63.3	15	0
31	DDW65	N636	63.0	25	0	44.4	25	0	52.2	9	0	50.9	23	0	68.5	7	1
32	MACS3949 (C)	N609	70.0	14	1	47.6	17	0	42.8	21	0	49.2	25	0	60.8	21	0
33	PDW314 (C)	N614	71.8	7	1	51.2	7	0	55.6	5	0	45.2	31	0	57.9	24	0
34	HI8737 (C)	N624	75.3	2	1	46.9	19	0	35.0	36	0	43.3	33	0	54.0	26	0
35	HI8713 (C)	N627	70.9	9	1	43.2	26	0	41.6	24	0	60.9	5	1	75.2	1	1
36	DDK1029(Dic.C)	N626	58.1	32	0	35.5	35	0	37.6	32	0	53.6	19	0	40.4	35	0
G.M.			65.9			46.4			46.0			53.5			59.5		
S.E.(M)			3.455			2.290			2.122			5.118			2.952		
C.D. (10%)			8.3			5.5			5.1			12.2			7.1		
C.V.			7.4			7.0			6.5			13.5			7.0		
D.O.S.(dd.mm.yy)			11.11.23			08.11.23			10.11.23			20.11.23			07.11.23		

**2306-NIVT-4-IR-TS-TDM-NAT-ZONE, 2023-24**  
**LOCATIONWISE MEAN YIELD (q/ha)**

SN	Variety	Code	PZ														
			Maharashtra						Karnataka								
			Pune			Akola			Dharwad			Bagalkot			Nippani		
			Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G
1	MACS4146	N601	72.4	2	1	38.0	27	0	42.2	19	0	47.7	17	0	42.9	32	0
2	HI8854	N602	66.0	3	0	39.7	21	0	49.9	4	0	44.6	23	0	55.6	12	0
3	NIDW1557	N603	55.5	19	0	48.9	3	1	43.5	17	0	47.1	19	0	59.2	9	1
4	DDK1067(Dic)	N604	58.9	9	0	44.5	10	0	29.1	34	0	43.8	24	0	56.9	11	0
5	UAS485	N605	54.0	22	0	42.0	13	0	42.0	20	0	45.1	21	0	67.5	1	1
6	PDW368	N606	60.3	6	0	40.9	14	0	47.7	9	0	34.0	34	0	64.4	2	1
7	MACS5064(Dic)	N607	57.7	12	0	42.8	11	0	41.9	21	0	53.5	10	0	64.3	3	1
8	HI8855	N608	60.5	5	0	51.8	1	1	45.7	13	0	51.3	12	0	51.1	26	0
9	GW1369	N610	54.9	21	0	46.1	7	1	46.7	12	0	48.9	15	0	51.4	23	0
10	AKDW5520	N611	55.0	20	0	38.3	26	0	34.4	28	0	45.3	20	0	44.2	31	0
11	GW1370	N612	56.6	15	0	47.0	5	1	56.3	1	1	54.4	9	0	53.3	19	0
12	PDW366	N613	46.2	31	0	39.7	20	0	34.5	27	0	30.9	35	0	51.1	24	0
13	MACS5065(Dic)	N615	61.8	4	0	40.2	16	0	36.3	25	0	63.4	1	1	53.8	18	0
14	PDW367	N616	58.2	11	0	32.1	35	0	37.5	24	0	51.5	11	0	49.7	27	0
15	MPO1403	N617	57.7	13	0	35.7	31	0	32.6	32	0	42.6	26	0	54.0	17	0
16	MPO1404	N618	42.8	33	0	39.3	23	0	33.0	30	0	42.8	25	0	40.3	33	0
17	WHD969	N619	59.6	7	0	49.6	2	1	52.0	3	1	47.8	16	0	62.8	4	1
18	NIDW1542	N620	56.0	16	0	40.5	15	0	40.6	23	0	34.3	32	0	44.7	30	0
19	DDW66	N621	49.5	30	0	35.9	30	0	32.9	31	0	57.8	3	1	52.4	22	0
20	HI8853	N622	50.7	28	0	42.4	12	0	45.3	14	0	55.1	6	0	61.4	5	1
21	HW5306 (Dic)	N623	55.7	17	0	34.2	33	0	30.1	33	0	47.2	18	0	51.1	24	0
22	UAS486	N625	28.9	36	0	29.6	36	0	49.1	7	0	50.2	13	0	35.0	35	0
23	GW1371	N628	42.3	34	0	39.9	19	0	43.5	16	0	36.5	29	0	49.0	28	0
24	HI8858	N629	72.6	1	1	37.1	29	0	53.8	2	1	50.1	14	0	54.7	15	0
25	DDK1066(Dic)	N630	51.5	26	0	45.9	8	1	33.5	29	0	61.5	2	1	55.3	13	0
26	HW5305 (Dic)	N631	45.8	32	0	39.5	22	0	35.7	26	0	56.5	5	1	52.6	21	0
27	PBN1841	N632	55.7	18	0	39.9	18	0	49.2	6	0	34.4	31	0	46.9	29	0
28	MACS4147	N633	59.5	8	0	35.4	32	0	47.0	11	0	54.8	7	0	53.1	20	0
29	DDW67	N634	52.1	25	0	47.1	4	1	41.9	22	0	36.7	28	0	54.6	16	0
30	PWU8	N635	56.8	14	0	32.4	34	0	10.8	36	0	54.5	8	0	37.5	34	0
31	DDW65	N636	52.1	24	0	39.9	17	0	49.7	5	0	39.4	27	0	55.1	14	0
32	MACS3949 (C)	N609	32.5	35	0	45.2	9	1	42.7	18	0	34.8	30	0	60.7	6	1
33	PDW314 (C)	N614	49.9	29	0	46.4	6	1	11.1	35	0	20.3	36	0	18.6	36	0
34	HI8737 (C)	N624	52.7	23	0	38.3	25	0	44.2	15	0	34.2	33	0	59.2	8	1
35	HI8713 (C)	N627	58.7	10	0	37.5	28	0	47.5	10	0	44.7	22	0	59.4	7	1
36	DDK1029(Dic.C)	N626	50.7	27	0	38.5	24	0	48.8	8	0	57.6	4	1	58.2	10	1
G.M.			54.2			40.6			40.6			46.0			52.3		
S.E.(M)			1.811			2.978			2.156			3.008			4.321		
C.D. (10%)			4.3			7.2			5.2			7.2			10.3		
C.V.			4.7			10.4			7.5			9.3			11.7		
D.O.S.(dd.mm.yy)			05.11.23			15.11.23			10.11.23			15.11.23			15.11.23		

2306-NIVT-4-IR-TS-TDM-NAT-ZONE, 2023-24  
ZONAL AND NATIONAL MEANS (q/ha)

SN	Variety	Code	NWPZ			CZ			PZ			National		
			Yield	RK	G	Yield	RK	G	Yield	RK	G	Yield	RK	G
1	MACS4146	N601	66.3	12	0	62.0	2	1	48.6	17	0	58.7	4	0
2	HI8854	N602	68.9	6	0	59.3	4	0	51.1	6	0	59.1	2	0
3	NIDW1557	N603	65.3	14	0	53.4	21	0	50.8	9	0	55.7	12	0
4	DDK1067(Dic)	N604	40.0	35	0	50.6	28	0	46.7	19	0	46.5	33	0
5	UAS485	N605	60.5	20	0	58.3	6	0	50.1	11	0	56.2	10	0
6	PDW368	N606	64.1	17	0	54.8	15	0	49.5	16	0	55.5	13	0
7	MACS5064(Dic)	N607	43.6	34	0	52.4	25	0	52.0	5	1	49.9	26	0
8	HI8855	N608	68.4	8	0	63.7	1	1	52.1	4	1	61.1	1	1
9	GW1369	N610	48.7	30	0	59.0	5	0	49.6	13	0	53.1	20	0
10	AKDW5520	N611	68.9	5	0	57.9	7	0	43.4	28	0	56.0	11	0
11	GW1370	N612	64.6	15	0	54.3	16	0	53.5	3	1	56.8	9	0
12	PDW366	N613	51.7	28	0	47.8	32	0	40.5	32	0	46.4	34	0
13	MACS5065(Dic)	N615	46.1	33	0	53.8	19	0	51.1	7	0	50.8	23	0
14	PDW367	N616	68.7	7	0	51.6	26	0	45.8	22	0	54.2	19	0
15	MPO1403	N617	68.1	10	0	53.6	20	0	44.5	26	0	54.4	18	0
16	MPO1404	N618	52.4	27	0	47.8	31	0	39.7	33	0	46.3	35	0
17	WHD969	N619	64.4	16	0	57.3	9	0	54.3	1	1	58.2	6	0
18	NIDW1542	N620	69.9	4	0	53.9	18	0	43.2	29	0	54.6	17	0
19	DDW66	N621	65.8	13	0	54.8	14	0	45.7	24	0	54.7	16	0
20	HI8853	N622	68.1	9	0	57.8	8	0	51.0	8	0	58.3	5	0
21	HW5306 (Dic)	N623	53.5	26	0	45.7	35	0	43.7	27	0	47.1	31	0
22	UAS486	N625	56.2	23	0	48.8	30	0	38.6	34	0	47.4	30	0
23	GW1371	N628	55.5	25	0	53.0	23	0	42.2	31	0	50.1	25	0
24	HI8858	N629	63.5	19	0	60.7	3	1	53.7	2	1	59.1	3	0
25	DDK1066(Dic)	N630	47.5	32	0	47.0	33	0	49.5	15	0	48.0	28	0
26	HW5305 (Dic)	N631	48.8	29	0	45.5	36	0	46.0	21	0	46.5	32	0
27	PBN1841	N632	47.5	31	0	49.9	29	0	45.2	25	0	47.7	29	0
28	MACS4147	N633	55.8	24	0	52.8	24	0	50.0	12	0	52.7	21	0
29	DDW67	N634	74.2	1	1	55.2	13	0	46.5	20	0	57.4	8	0
30	PWU8	N635	58.6	21	0	55.6	11	0	38.4	35	0	50.7	24	0
31	DDW65	N636	67.0	11	0	53.4	22	0	47.3	18	0	55.0	15	0
32	MACS3949 (C)	N609	71.3	2	1	54.1	17	0	43.2	30	0	55.0	14	0
33	PDW314 (C)	N614	63.7	18	0	55.3	12	0	29.3	36	0	48.8	27	0
34	HI8737 (C)	N624	57.1	22	0	51.3	27	0	45.7	23	0	51.0	22	0
35	HI8713 (C)	N627	70.1	3	0	57.2	10	0	49.6	14	0	58.1	7	0
36	DDK1029(Dic.C)	N626	38.8	36	0	46.5	34	0	50.8	10	0	45.9	36	0
G.M.			59.5			53.8			46.7			53.0		
S.E.(M)			1.405			1.402			1.334			0.808		
C.D. (10%)			3.3			3.3			3.1			1.9		

## Summary of Disease Data and Agronomic Characteristics

North Western Plains Zone

Trial: NIVT-4-IR-TS-TDM, 2023-24

SN	Variety	Code	Disease reaction					Agronomic Characteristics									
			YI	ACI	Br	LB	PM	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M	
1	MACS4146	N601	40S	14.0	0	67	0	89-103	96	142-154	149	82-99	92	15	37-53	45	
2	HI8854	N602	60S	19.2	0	0	3	94-105	100	142-156	150	93-105	97	0	47-55	50	
3	NIDW1557	N603	10S	2.2	0	0	0	95-108	103	144-156	150	84-96	90	5	41-48	44	
4	DDK1067(Dic)	N604	80S	31.2	0	57	0	100-110	106	141-157	151	79-97	87	10	27-76	50	
5	UAS485	N605	5S	1.8	0	0	0	95-108	102	143-155	151	84-101	92	15	34-42	38	
6	PDW368	N606	20S	7.0	0	0	0	96-107	102	142-155	150	90-102	96	20	49-59	54	
7	MACS5064(Dic)	N607	80S	26.2	0	67	0	98-109	104	140-156	149	76-95	86	20	34-71	50	
8	HI8855	N608	40S	12.2	0	0	0	85-107	97	141-156	149	88-100	92	15	39-55	47	
9	GW1369	N610	10S	5.0	0	35	0	81-110	93	138-158	148	76-98	84	15	50-75	59	
10	AKDW5520	N611	10S	2.2	0	0	4	94-104	100	141-154	150	89-103	95	5	41-52	47	
11	GW1370	N612	60S	19.2	0	0	0	93-109	103	141-154	149	90-105	96	5	35-51	45	
12	PDW366	N613	10S	2.4	0	0	0	102-117	110	145-158	154	99-107	103	5	47-54	50	
13	MACS5065(Dic)	N615	60S	20.8	0	0	0	102-108	106	137-155	149	80-95	86	5	36-84	55	
14	PDW367	N616	20S	6.1	0	0	0	91-105	99	144-152	149	87-98	92	0	42-58	52	
15	MPO1403	N617	tS	0.2	0	0	0	100-111	106	146-154	149	89-103	97	0	31-45	36	
16	MPO1404	N618	20S	7.0	0	0	0	95-117	107	145-155	151	84-102	96	0	42-51	48	
17	WHD969	N619	20S	7.2	0	35	7	94-108	103	145-153	150	87-100	94	0	44-57	50	
18	NIDW1542	N620	10S	4.8	0	0	0	97-111	106	144-158	151	87-101	94	10	38-50	43	
19	DDW66	N621	10S	3.0	0	0	0	96-109	104	147-155	150	91-99	94	0	33-46	39	
20	HI8853	N622	60S	19.6	0	57	7	83-96	90	141-153	147	80-93	85	0	44-54	49	
21	HW5306 (Dic)	N623	60S	28.8	0	0	0	102-115	109	137-158	149	87-98	92	10	36-79	51	
22	UAS486	N625	20S	7.0	0	0	4	82-101	92	138-151	146	82-102	91	0	45-61	51	
23	GW1371	N628	15S	8.6	40S	0	3	78-101	91	141-155	148	88-124	110	15	45-53	48	
24	HI8858	N629	30MS	11.6	0	35	5	97-106	101	147-155	151	90-105	97	10	46-56	51	
25	DDK1066(Dic)	N630	60S	25.6	0	57	0	102-111	108	138-158	149	81-98	93	15	33-87	58	
26	HW5305 (Dic)	N631	60S	27.2	10S	58	0	102-111	108	136-157	149	87-95	92	35	36-85	55	
27	PBN1841	N632	60S	18.2	0	0	0	81-100	92	140-156	147	108-125	114	50	38-53	45	
28	MACS4147	N633	10MR	0.8	0	12	0	89-103	98	141-155	149	84-103	91	0	33-56	48	
29	DDW67	N634	20S	9.0	0	0	0	93-106	100	143-152	149	84-96	90	15	41-55	49	
30	PWU8	N635	40S	12.0	0	0	3	95-109	102	142-155	150	97-126	109	20	42-52	46	
31	DDW65	N636	40MS	7.3	0	35	3	89-105	96	145-155	150	88-96	92	5	44-54	48	
32	MACS3949 (C)	N609	20S	4.1	0	0	5	93-104	99	142-156	150	83-96	89	0	40-59	50	
33	PDW314 (C)	N614	40S	10.2	0	0	0	96-113	106	145-158	151	84-92	88	0	37-54	44	
34	HI8737 (C)	N624	10S	3.7	0	0	0	87-102	95	142-158	151	81-94	87	5	44-57	50	
35	HI8713 (C)	N627	40S	12.8	0	0	5	96-110	103	144-154	150	88-104	94	15	37-48	42	
36	DDK1029(Dic. C)	N626	80S	30.4	0	57	0	84-110	103	142-159	151	88-96	93	45	34-78	49	

1. Ancillary data from Delhi, Hisar, Karnal, Ludhiana, Pantnagar, and Sriganaganagar centres
2. Yellow rust data from Delhi, Hisar, Karnal, Ludhiana and Pantnagar centres; Brown rust data from Hisar and Pantnagar centres;
3. Leaf blight data from Ludhiana and Pantnagar centres; Powdery mildew data from Pantnagar centre
4. Lodging data from Delhi, Hisar, Karnal, and Pantnagar centres

**Individual Centre Disease Data  
Trial : NIVT-4-IR-TS-TDM, 2023-24**

SN	Variety	Code	YI					Br		LB	
			Delhi	Hisar	Karnal	Ludhiana	Pantnagar	Hisar	Pantnagar	Ludhiana	Pantnagar
1	MACS4146	N601	20S	0	40S	0	10S	0	0	67	0
2	HI8854	N602	10S	0	60S	20MS	10S	0	0	0	0
3	NIDW1557	N603	10S	tS	0	0	0	0	0	0	0
4	DDK1067(Dic)	N604	0	20S	80S	20MS	40S	0	0	57	0
5	UAS485	N605	0	5S	5MS	0	0	0	0	0	0
6	PDW368	N606	10S	0	20S	5S	0	0	0	0	0
7	MACS5064(Dic)	N607	20S	5S	80S	20MS	10S	0	0	67	0
8	HI8855	N608	20S	0	40S	tMS	0	0	0	0	0
9	GW1369	N610	10S	tS	10S	0	5MS	0	0	35	0
10	AKDW5520	N611	0	0	10S	tS	0	0	0	0	0
11	GW1370	N612	20S	0	60S	20MS	0	0	0	0	0
12	PDW366	N613	10S	0	5MR	0	0	0	0	0	0
13	MACS5065(Dic)	N615	20S	0	60S	20MS	10MS	0	0	0	0
14	PDW367	N616	10S	0	20S	tMR	0	0	0	0	0
15	MPO1403	N617	0	tS	0	0	0	0	0	0	0
16	MPO1404	N618	10S	0	20S	5S	0	0	0	0	0
17	WHD969	N619	10S	5S	20S	tS	0	0	0	35	0
18	NIDW1542	N620	10S	0	10S	0	5MS	0	0	0	0
19	DDW66	N621	10S	0	10MR	tMS	0	0	0	0	0
20	HI8853	N622	20S	0	60S	10MS	10S	0	0	57	0
21	HW5306 (Dic)	N623	20S	0	60S	30MS	40S	0	0	0	0
22	UAS486	N625	20S	5S	10S	0	0	0	0	0	0
23	GW1371	N628	10S	5S	20MR	15S	5S	0	40S	0	0
24	HI8858	N629	0	5S	60MR	30MS	5S	0	0	35	0
25	DDK1066(Dic)	N630	0	20S	60S	40MS	20MS	0	0	57	0
26	HW5305 (Dic)	N631	40S	10S	60S	20MS	10S	10S	0	57	58
27	PBN1841	N632	20S	10S	60S	tMS	0	0	0	0	0
28	MACS4147	N633	0	0	10MR	0	0	0	0	12	0
29	DDW67	N634	0	20S	20S	5S	0	0	0	0	0
30	PWU8	N635	10S	0	40S	0	10S	0	0	0	0
31	DDW65	N636	0	0	40MS	tMR	5MS	0	0	35	0
32	MACS3949 (C)	N609	20S	0	0	tMR	0	0	0	0	0
33	PDW314 (C)	N614	10S	tS	40S	0	0	0	0	0	0
34	HI8737 (C)	N624	10S	0	20MR	tMR	0	0	0	0	0
35	HI8713 (C)	N627	20S	0	40S	5MS	0	0	0	0	0
36	DDK1029(Dic. C)	N626	0	20S	80S	40MS	20S	0	0	57	0

## Summary of Disease Data and Agronomic Characteristics

Central Zone

Trial: NIVT-4-IR-TS-TDM, 2023-24

SN	Variety	Code	Disease Reaction	Agronomic Characteristics								
			BI	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M
1	MACS4146	N601	0	66-82	71	110-131	119	75-96	90	0	40-52	46
2	HI8854	N602	0	61-88	72	110-132	121	72-104	93	0	39-60	47
3	NIDW1557	N603	tR	71-88	77	110-133	120	61-91	83	0	35-46	41
4	DDK1067(Dic)	N604	0	78-88	82	110-131	122	70-104	89	5	31-44	39
5	UAS485	N605	0	68-85	76	111-133	119	76-100	92	0	27-43	38
6	PDW368	N606	tR	66-89	74	110-134	121	75-102	93	0	48-58	50
7	MACS5064(Dic)	N607	tR	79-90	84	111-130	122	76-100	90	0	34-43	38
8	HI8855	N608	0	61-87	70	110-131	119	72-98	90	15	43-57	49
9	GW1369	N610	0	53-89	65	109-129	118	66-102	86	0	42-59	47
10	AKDW5520	N611	tR	71-83	77	111-131	121	78-104	94	0	37-51	45
11	GW1370	N612	0	58-84	70	107-131	119	71-102	92	0	43-56	49
12	PDW366	N613	0	79-89	84	110-138	125	81-106	98	25	35-49	43
13	MACS5065(Dic)	N615	tR	75-89	83	111-132	123	78-102	89	0	26-45	38
14	PDW367	N616	tR	60-86	69	108-131	119	71-96	86	0	43-51	47
15	MPO1403	N617	tR	71-87	79	111-133	122	75-100	91	0	27-43	36
16	MPO1404	N618	0	79-92	87	111-140	125	79-107	94	0	33-53	45
17	WHD969	N619	0	64-86	73	111-135	122	75-98	90	0	47-59	51
18	NIDW1542	N620	tR	77-86	81	110-133	122	75-99	89	0	32-49	42
19	DDW66	N621	0	75-88	80	109-136	122	73-96	89	0	34-46	40
20	HI8853	N622	0	56-85	67	107-129	117	69-94	83	0	46-53	49
21	HW5306 (Dic)	N623	tR	83-93	88	109-135	124	67-103	89	0	27-46	37
22	UAS486	N625	0	51-84	64	107-129	118	73-95	87	0	38-55	49
23	GW1371	N628	tR	55-87	68	108-131	120	62-95	84	25	36-60	53
24	HI8858	N629	tR	70-89	77	110-134	121	78-103	95	20	34-57	47
25	DDK1066(Dic)	N630	0	76-88	82	112-132	123	72-101	90	0	29-50	40
26	HW5305 (Dic)	N631	tR	82-90	86	110-131	122	74-99	88	5	25-44	35
27	PBN1841	N632	0	59-77	65	110-129	119	88-125	113	20	41-59	50
28	MACS4147	N633	0	56-85	68	109-133	119	64-99	87	0	35-56	50
29	DDW67	N634	0	67-87	73	112-131	120	72-93	85	0	37-53	47
30	PWU8	N635	tR	69-88	75	111-136	121	85-120	105	0	46-60	50
31	DDW65	N636	0	57-88	68	107-135	119	72-97	88	0	42-53	49
32	MACS3949 (C)	N609	0	70-86	75	109-132	119	73-96	88	0	40-53	48
33	PDW314 (C)	N614	0	68-85	76	110-135	121	72-95	87	0	37-51	43
34	HI8737 (C)	N624	0	59-84	69	110-131	119	66-95	85	0	44-58	51
35	HI8713 (C)	N627	0	72-89	80	111-138	123	64-110	93	10	33-50	43
36	DDK1029(Dic. C)	N626	0	77-89	83	109-134	123	79-103	94	0	22-49	38

1. Ancillary data from Anand, Gwalior, Indore, Junagadh, Powarkheda, Udaipur, and Vijapur centres
2. Black rust data reported from Vijapur centre
3. Lodging data reported from Anand, Gwalior, and Junagadh centres

## Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: NIVT-4-IR-TS-TDM, 2023-24

SN	Variety	Code	Disease reaction				Agronomic Characteristics									
			Br	BI		LB(HS)	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	Lod.M	TGW.R	TGW.M	
				Dharwad	Nippani											
1	MACS4146	N601	0	5MS	10MR	12	67-76	71	115-124	120	85-95	91	0	34-55	42	
2	HI8854	N602	0	10MS	5MR	12	57-64	61	106-124	114	85-92	90	0	42-57	49	
3	NIDW1557	N603	0	10MS	10MS	12	63-73	68	112-120	116	49-82	74	0	32-50	40	
4	DDK1067(Dic)	N604	0	0	5MR	34	69-79	75	119-126	122	80-83	81	0	32-46	38	
5	UAS485	N605	0	40S	0	24	62-74	65	108-119	114	81-89	86	30	30-48	38	
6	PDW368	N606	0	10S	0	12	59-74	64	105-121	114	87-92	89	20	36-64	46	
7	MACS5064(Dic)	N607	0	0	0	24	64-79	73	118-124	121	87-93	90	20	34-48	39	
8	HI8855	N608	5MS	20S	0	24	57-66	63	109-119	114	82-90	85	20	41-59	47	
9	GW1369	N610	10MS	40S	0	24	46-66	54	95-115	107	77-91	82	0	40-54	47	
10	AKDW5520	N611	5MS	10S	10MS	12	54-80	71	120-127	123	88-99	95	0	34-50	41	
11	GW1370	N612	5MR	30S	10MS	24	53-66	58	102-122	112	82-93	87	40	40-54	47	
12	PDW366	N613	0	10MS	10MS	01	70-83	75	120-129	123	92-103	96	0	32-48	40	
13	MACS5065(Dic)	N615	0	0	0	34	70-79	75	121-126	123	82-92	86	40	25-48	36	
14	PDW367	N616	5MS	30S	10MS	12	54-65	60	107-123	113	75-82	79	0	36-54	43	
15	MPO1403	N617	0	10MR	5MR	12	68-78	72	120-122	121	78-88	82	0	28-46	38	
16	MPO1404	N618	0	5MR	0	24	75-97	82	120-133	128	83-98	90	20	37-52	42	
17	WHD969	N619	0	10MR	5MR	24	58-69	64	110-122	117	82-89	87	0	44-60	49	
18	NIDW1542	N620	0	5MS	10MS	12	70-82	73	117-122	119	85-90	87	0	34-44	38	
19	DDW66	N621	5MS	10MS	10MR	00	70-80	75	120-125	123	82-86	84	0	30-46	37	
20	HI8853	N622	5MS	40S	5MS	24	50-62	56	100-118	108	62-79	75	0	40-53	46	
21	HW5306 (Dic)	N623	0	0	5MR	34	72-81	77	120-126	123	78-87	81	0	31-49	38	
22	UAS486	N625	5MR	20MS	5MS	24	45-61	53	93-125	106	82-86	84	0	40-55	47	
23	GW1371	N628	5MS	20S	5MR	24	52-65	58	104-123	111	79-84	82	0	40-58	49	
24	HI8858	N629	0	0	5MR	12	62-73	68	112-122	117	92-103	98	0	40-59	49	
25	DDK1066(Dic)	N630	0	0	5MS	34	71-81	75	120-127	123	84-96	91	40	33-50	39	
26	HW5305 (Dic)	N631	0	0	5MS	24	72-81	76	115-127	122	83-90	86	0	29-41	36	
27	PBN1841	N632	0	10MS	40S	12	52-62	57	103-118	111	105-111	108	40	43-60	51	
28	MACS4147	N633	10MS	30S	0	12	55-62	59	108-118	112	81-86	83	0	45-57	50	
29	DDW67	N634	0	10MR	5MR	24	60-74	65	113-121	116	79-83	81	0	36-54	42	
30	PWU8	N635	5MS	80S	60S	24	59-76	67	115-121	118	91-106	103	0	30-57	41	
31	DDW65	N636	5MS	20S	0	12	50-66	57	102-118	109	78-94	88	0	39-52	46	
32	MACS3949 (C)	N609	10MS	20MS	5MS	12	65-75	69	115-123	118	80-91	84	0	31-56	40	
33	PDW314 (C)	N614	0	80S	80S	24	63-75	68	113-120	117	85-91	87	20	34-50	41	
34	HI8737 (C)	N624	0	10MS	5MR	24	56-66	61	108-119	112	75-85	79	0	43-59	50	
35	HI8713 (C)	N627	0	5MS	5MR	12	66-78	70	117-124	120	82-93	89	40	38-53	44	
36	DDK1029(Dic. C)	N626	0	0	0	24	71-79	75	119-124	122	84-100	91	0	29-42	37	

1. Ancillary data from Akola, Nipad, Bagalkot, Dharwad, Nippani and Pune centres
2. Brown rust data from Dharwad centre; Black rust data from Dharwad and Nippani centres
3. Leaf blight data reported from Bagalkot, Dharwad and Nippani centres
4. Lodging data reported from Pune centre



## Individual Centre Disease Data

Trial : NIVT-4-IR-TS-TDM, 2023-24

SN	Variety	Code	BI		LB		
			Dharwad	Nippani	Bagalkot	Dharwad	Nippani
1	MACS4146	N601	5MS	10MR	01	00	12
2	HI8854	N602	10MS	5MR	0	00	12
3	NIDW1557	N603	10MS	10MS	0	00	12
4	DDK1067(Dic)	N604	0	5MR	0	34	24
5	UAS485	N605	40S	0	0	00	24
6	PDW368	N606	10S	0	0	00	12
7	MACS5064(Dic)	N607	0	0	12	12	24
8	HI8855	N608	20S	0	1	01	24
9	GW1369	N610	40S	0	0	01	24
10	AKDW5520	N611	10S	10MS	0	00	12
11	GW1370	N612	30S	10MS	0	00	24
12	PDW366	N613	10MS	10MS	0	00	01
13	MACS5065(Dic)	N615	0	0	01	34	24
14	PDW367	N616	30S	10MS	0	00	12
15	MPO1403	N617	10MR	5MR	01	00	12
16	MPO1404	N618	5MR	0	0	24	12
17	WHD969	N619	10MR	5MR	01	00	24
18	NIDW1542	N620	5MS	10MS	01	00	12
19	DDW66	N621	10MS	10MR	0	01	00
20	HI8853	N622	40S	5MS	0	01	24
21	HW5306 (Dic)	N623	0	5MR	0	34	24
22	UAS486	N625	20MS	5MS	0	00	24
23	GW1371	N628	20S	5MR	0	12	24
24	HI8858	N629	0	5MR	0	00	12
25	DDK1066(Dic)	N630	0	5MS	0	34	12
26	HW5305 (Dic)	N631	0	5MS	0	24	24
27	PBN1841	N632	10MS	40S	01	00	12
28	MACS4147	N633	30S	0	0	00	12
29	DDW67	N634	10MR	5MR	0	00	24
30	PWU8	N635	80S	60S	12	00	24
31	DDW65	N636	20S	0	0	01	12
32	MACS3949 (C)	N609	20MS	5MS	0	12	12
33	PDW314 (C)	N614	80S	80S	0	00	24
34	HI8737 (C)	N624	10MS	5MR	0	00	24
35	HI8713 (C)	N627	5MS	5MR	0	00	12
36	DDK1029(Dic.C)	N626	0	0	0	12	24