

Table 5.1. Peninsular Zone		IR-TS-DOS-TAD Centrewise Yield, q/ha		2021-22
Sowing time	Genotype	Akola	Niphad	Zonal mean
Timely	MACS4100(d)	38.63	59.12	48.88
	HI8826(d)	56.49	69.52	63.01
	GW322 (c)	50.99	58.89	54.94
	MACS3949(d)	48.23	63.70	55.97
	DDW48(d)	47.16	64.84	56.00
	Mean	48.30	63.21	55.76
Late	MACS4100(d)	56.96	50.89	53.93
	HI8826(d)	46.29	59.19	52.74
	GW322 (c)	58.13	47.26	52.70
	MACS3949(d)	58.89	50.67	54.78
	DDW48(d)	54.92	48.05	51.49
	Mean	55.04	51.21	53.13
Mean	MACS4100(d)	47.80	55.01	51.40
	HI8826(d)	51.39	64.36	57.87
	GW322 (c)	54.56	53.08	53.82
	MACS3949(d)	53.56	57.18	55.37
	DDW48(d)	51.04	56.44	53.74
	Mean	51.67	57.21	54.44
CD (0.05)	Sowing time (A)	NS	3.76	NS
	Genotype (B)	NS	NS	3.43
	B within A	6.98	NS	4.85
	A within B	7.91	NS	4.92
Date of Sowing	Timely	10.11.2021	10.11.2021	
	Late	26.11.2021	01.12.2021	
Date of Harvesting	Timely	29.03.2022	09.03.2022	
	Late	06.04.2022	30.03.2022	

<b>Table 5.2. Peninsular Zone</b>		<b>IR-TS-DOS-TAD</b>		<b>Pooled</b>		<b>2021-22</b>	
Genotype	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			
<b>Yield, q/ha</b>							
MACS4100(d)	48.88	5	53.93	2	51.40	5	
HI8826(d)	63.01	1	52.74	3	57.87	1	
GW322 (c)	54.94	4	52.70	4	53.82	3	
MACS3949(d)	55.97	3	54.78	1	55.37	2	
DDW48(d)	56.00	2	51.49	5	53.74	4	
Mean	55.76		53.13		54.44		
	Sowing time (A)		Genotype (B)		A within B	B within A	
CD (0.05)	NS		3.43		4.85	4.92	
<b>Earheads/sqm</b>							
MACS4100(d)	382	5	391	5	386	5	
HI8826(d)	459	1	435	1	447	1	
GW322 (c)	405	4	399	2	402	4	
MACS3949(d)	413	3	394	4	403	3	
DDW48(d)	445	2	398	3	421	2	
Mean	421		403		412		
	Sowing time (A)		Genotype (B)		A within B	B within A	
CD (0.05)	NS		20.38		NS	NS	
<b>Grains/Earhead</b>							
MACS4100(d)	32.78	1	31.49	2	32.13	1	
HI8826(d)	25.60	4	23.84	5	24.72	5	
GW322 (c)	31.19	2	31.40	3	31.30	2	
MACS3949(d)	29.99	3	31.82	1	30.90	3	
DDW48(d)	25.32	5	31.32	4	28.32	4	
Mean	28.98		29.97		29.48		
	Sowing time (A)		Genotype (B)		A within B	B within A	
CD (0.05)	NS		1.46		2.07	2.53	
<b>1000 Grains Weight, g</b>							
MACS4100(d)	40.07	5	44.22	3	42.14	5	
HI8826(d)	54.35	1	51.78	1	53.07	1	
GW322 (c)	44.85	4	43.13	4	43.99	4	
MACS3949(d)	45.63	3	44.28	2	44.96	3	
DDW48(d)	50.37	2	42.63	5	46.50	2	
Mean	47.05		45.21		46.13		
	Sowing time (A)		Genotype (B)		A within B	B within A	
CD (0.05)	0.47		1.24		1.75	1.62	
<b>Centres:</b>	Akola, Niphad						

Table 5.2.1. Peninsular Zone		IR-TS-DOS-TAD		Akola		2021-22	
Genotype	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			
<b>Yield, q/ha</b>							
MACS4100(d)	38.63	5	56.96	3	47.80	5	
HI8826(d)	56.49	1	46.29	5	51.39	3	
GW322 (c)	50.99	2	58.13	2	54.56	1	
MACS3949(d)	48.23	3	58.89	1	53.56	2	
DDW48(d)	47.16	4	54.92	4	51.04	4	
Mean	48.30		55.04		51.67		
	F. Test		SEm		CD (0.05)	CV (%)	
Sowing time (A)	N.S.		1.45		5.99	10.87	
Genotype (B)	N.S.		2.04		5.37	9.67	
B within A	**		2.08		6.98	5.57	
A within B			2.35		7.91		
<b>Earheads/sqm</b>							
MACS4100(d)	397	5	445	5	421	5	
HI8826(d)	487	1	480	2	483	1	
GW322 (c)	445	3	482	1	463	3	
MACS3949(d)	430	4	450	4	440	4	
DDW48(d)	487	1	475	3	481	2	
Mean	449		466		458		
	F. Test		SEm		CD (0.05)	CV (%)	
Sowing time (A)	N.S.		11.03		45.56	9.34	
Genotype (B)	N.S.		14.58		38.36	7.80	
B within A	N.S.		26.62		76.88	10.25	
A within B			24.07		69.52		
<b>Grains/Earhead</b>							
MACS4100(d)	33.52	1	30.95	4	32.23	2	
HI8826(d)	25.21	4	19.57	5	22.39	5	
GW322 (c)	32.60	2	31.89	1	32.24	1	
MACS3949(d)	29.96	3	31.62	2	30.79	3	
DDW48(d)	23.20	5	31.57	3	27.38	4	
Mean	28.90		29.12		29.01		
	F. Test		SEm		CD (0.05)	CV (%)	
Sowing time (A)	N.S.		1.22		5.03	16.26	
Genotype (B)	**		0.93		2.45	7.86	
B within A	N.S.		2.19		6.78	12.15	
A within B			1.71		5.30		
<b>1000 Grains Weight, g</b>							
MACS4100(d)	29.80	5	41.43	3	35.62	5	
HI8826(d)	46.70	1	49.57	1	48.13	1	
GW322 (c)	35.70	4	37.93	4	36.82	4	
MACS3949(d)	37.60	3	41.57	2	39.58	2	
DDW48(d)	42.07	2	36.93	5	39.50	3	
Mean	38.37		41.49		39.93		
	F. Test		SEm		CD (0.05)	CV (%)	
Sowing time (A)	*		0.23		0.94	2.21	
Genotype (B)	**		0.15		0.41	0.95	
B within A	**		0.46		1.39	1.95	
A within B			0.35		1.06		
Date of Sowing:	10.11.2021		26.11.2021				
Date of Harvesting:	29.03.2022		06.04.2022				

Table 5.2.2. Peninsular Zone		IR-TS-DOS-TAD		Dharwad		2021-22	
Genotype	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			
<b>Yield, q/ha</b>							
MACS4100(d)	40.29	3	38.15	2	39.22		2
HI8826(d)	44.57	1	37.03	4	40.80		1
GW322 (c)	40.71	2	37.60	3	39.16		3
MACS3949(d)	37.47	5	39.81	1	38.64		4
DDW48(d)	38.32	4	36.37	5	37.35		5
Mean	40.27		37.79		39.03		
F. Test		SEm		CD (0.05)		CV (%)	
Sowing time (A)	*	0.21		0.87		2.10	
Genotype (B)	N.S.	1.29		3.39		8.10	
B within A	N.S.	1.07		2.88		5.21	
A within B		1.53		4.13			
<b>Earheads/sqm</b>							
MACS4100(d)	311	4	216	5	264		4
HI8826(d)	318	3	253	2	286		3
GW322 (c)	293	5	228	4	261		5
MACS3949(d)	347	1	240	3	293		2
DDW48(d)	331	2	311	1	321		1
Mean	320		250		285		
F. Test		SEm		CD (0.05)		CV (%)	
Sowing time (A)	N.S.	11.64		48.08		15.83	
Genotype (B)	*	8.85		23.28		7.61	
B within A	N.S.	14.65		52.41		6.04	
A within B		11.30		40.43			
<b>Grains/Earhead</b>							
MACS4100(d)	32.13	3	44.11	2	38.12		2
HI8826(d)	35.83	2	39.11	4	37.47		3
GW322 (c)	39.62	1	46.44	1	43.03		1
MACS3949(d)	28.50	5	41.99	3	35.24		4
DDW48(d)	29.93	4	32.49	5	31.21		5
Mean	33.20		40.83		37.01		
F. Test		SEm		CD (0.05)		CV (%)	
Sowing time (A)	N.S.	2.08		8.59		21.76	
Genotype (B)	*	1.59		4.18		10.52	
B within A	N.S.	2.57		9.28		7.86	
A within B		1.98		7.17			
<b>1000 Grains Weight, g</b>							
MACS4100(d)	40.97	1	40.39	1	40.68		1
HI8826(d)	39.28	2	37.63	3	38.46		3
GW322 (c)	35.52	5	35.61	5	35.57		5
MACS3949(d)	38.72	4	39.81	2	39.27		2
DDW48(d)	38.93	3	36.27	4	37.60		4
Mean	38.69		37.94		38.31		
F. Test		SEm		CD (0.05)		CV (%)	
Sowing time (A)	N.S.	1.05		4.34		10.62	
Genotype (B)	N.S.	1.07		2.82		6.85	
B within A	N.S.	1.31		4.72		4.00	
A within B		1.24		4.45			
Date of Sowing:	11.11.2021		02.12.2021				
Date of Harvesting:	23.03.2022		21.04.2022				

Genotype	IR-TS-DOS-TAD		Niphad		2021-22	
	Timely	Rk	Late	Rk	Mean	Rk
<b>Sowing time</b>						
<b>Yield, q/ha</b>						
MACS4100(d)	59.12	4	50.89	2	55.01	4
HI8826(d)	69.52	1	59.19	1	64.36	1
GW322 (c)	58.89	5	47.26	5	53.08	5
MACS3949(d)	63.70	3	50.67	3	57.18	2
DDW48(d)	64.84	2	48.05	4	56.44	3
Mean	63.21		51.21		57.21	
	F. Test		SEm		CD (0.05)	CV (%)
Sowing time (A)	*		0.91		3.76	6.16
Genotype (B)	N.S.		2.01		5.28	8.59
B within A	N.S.		2.15		6.22	6.58
A within B			2.53		7.33	
<b>Earheads/sqm</b>						
MACS4100(d)	367	4	337	2	352	4
HI8826(d)	432	1	390	1	411	1
GW322 (c)	365	5	316	5	341	5
MACS3949(d)	395	3	337	3	366	2
DDW48(d)	402	2	321	4	362	3
Mean	392		340		366	
	F. Test		SEm		CD (0.05)	CV (%)
Sowing time (A)	*		6.32		26.10	6.68
Genotype (B)	*		8.78		23.08	5.87
B within A	N.S.		9.88		32.04	4.01
A within B			10.63		34.49	
<b>Grains/Earhead</b>						
MACS4100(d)	32.04	1	32.03	1	32.03	1
HI8826(d)	26.00	5	28.12	5	27.06	5
GW322 (c)	29.79	3	30.91	4	30.35	3
MACS3949(d)	30.02	2	32.02	2	31.02	2
DDW48(d)	27.45	4	31.07	3	29.26	4
Mean	29.06		30.83		29.94	
	F. Test		SEm		CD (0.05)	CV (%)
Sowing time (A)	*		0.25		1.02	3.20
Genotype (B)	N.S.		0.79		2.08	6.48
B within A	N.S.		0.97		2.65	6.08
A within B			1.09		2.96	
<b>1000 Grains Weight, g</b>						
MACS4100(d)	50.33	5	47.00	4	48.67	5
HI8826(d)	62.00	1	54.00	1	58.00	1
GW322 (c)	54.00	3	48.33	2	51.17	3
MACS3949(d)	53.67	4	47.00	4	50.33	4
DDW48(d)	58.67	2	48.33	2	53.50	2
Mean	55.73		48.93		52.33	
	F. Test		SEm		CD (0.05)	CV (%)
Sowing time (A)	**		0.22		0.89	1.60
Genotype (B)	*		1.02		2.68	4.77
B within A	N.S.		0.99		2.67	3.57
A within B			1.27		3.44	
Date of Sowing:	10.11.2021		01.12.2021			
Date of Harvesting:	09.03.2022		30.03.2022			

Table 5.2.4. Peninsular Zone		IR-TS-DOS-TAD		Pune		2021-22	
Genotype	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			
<b>Yield, q/ha</b>							
MACS4100(d)	34.27	5	37.92	4	36.10		4
HI8826(d)	37.78	2	42.34	2	40.06		2
GW322 (c)	37.72	3	44.34	1	41.03		1
MACS3949(d)	39.55	1	39.99	3	39.75		3
DDW48(d)	36.31	4	30.96	5	33.64		5
Mean	37.13		39.10		38.11		
		F. Test		SEm		CD (0.05) CV (%)	
Sowing time (A)	N.S.		0.78		3.22		7.93
Genotype (B)	N.S.		1.49		3.91		9.55
B within A	N.S.		1.53		4.62		6.68
A within B			1.81		5.48		
<b>Earheads/sqm</b>							
MACS4100(d)	290	3	273	3	282		3
HI8826(d)	282	5	248	5	265		5
GW322 (c)	335	1	317	1	326		1
MACS3949(d)	283	4	262	4	273		4
DDW48(d)	302	2	282	2	292		2
Mean	298		276		287		
		F. Test		SEm		CD (0.05) CV (%)	
Sowing time (A)	N.S.		9.82		40.57		13.24
Genotype (B)	N.S.		11.15		29.33		9.51
B within A	N.S.		16.16		51.46		8.65
A within B			15.07		48.00		
<b>Grains/Earhead</b>							
MACS4100(d)	32.73	2	31.17	3	31.95		2
HI8826(d)	29.99	3	33.42	2	31.71		3
GW322 (c)	34.11	1	37.14	1	35.62		1
MACS3949(d)	29.86	4	27.88	4	28.87		4
DDW48(d)	29.41	5	21.40	5	25.40		5
Mean	31.22		30.20		30.71		
		F. Test		SEm		CD (0.05) CV (%)	
Sowing time (A)	N.S.		0.71		2.94		8.98
Genotype (B)	N.S.		1.85		4.87		14.77
B within A	N.S.		2.35		6.51		14.13
A within B			2.56		7.09		
<b>1000 Grains Weight, g</b>							
MACS4100(d)	36.33	4	45.00	4	40.67		4
HI8826(d)	44.67	2	52.33	2	48.50		2
GW322 (c)	33.33	5	38.33	5	35.83		5
MACS3949(d)	47.00	1	55.00	1	51.00		1
DDW48(d)	41.00	3	51.33	3	46.17		3
Mean	40.47		48.40		44.43		
		F. Test		SEm		CD (0.05) CV (%)	
Sowing time (A)	**		0.54		2.25		4.74
Genotype (B)	**		0.86		2.26		4.74
B within A	N.S.		1.18		3.49		4.58
A within B			1.20		3.52		
Date of Sowing:	05.11.2021		26.11.2021				
Date of Harvesting:	03.03.2022		25.03.2022				