

Table 5.1. Peninsular Zone		IR-TS-DOS-TAD		Centrewise Yield, q/ha		2023-24
Sowing time	Genotype	Akola	Dharwad	Niphad	Pune	Zonal mean
Timely	RPZ-TS-101	68.17	43.23	46.12	48.43	51.49
	RPZ-TS-102	70.9	51.89	45.82	50.88	54.87
	RPZ-TS-103	66.83	45.61	49.72	54.46	54.16
	RPZ-TS-104	63.63	42.53	50.39	57.44	53.5
	RPZ-TS-105	74.77	46.4	51.12	49.22	55.38
	RPZ-TS-106	72.29	50.38	46.51	52.96	55.54
	RPZ-TS-107	73.33	47.39	46.62	48.06	53.85
	RPZ-TS-108	62.34	42.9	39.49	45.7	47.61
	Mean	69.03	46.29	46.97	50.89	53.3
Late	RPZ-TS-101	64.14	44.02	39.09	49.32	49.14
	RPZ-TS-102	57.14	39.76	38.3	48.65	45.96
	RPZ-TS-103	54.88	42.17	42.14	45.58	46.19
	RPZ-TS-104	64.98	43.41	43.03	45.45	49.22
	RPZ-TS-105	60.93	48.06	44.69	44.3	49.5
	RPZ-TS-106	62.35	37.32	39.2	47.99	46.72
	RPZ-TS-107	62.02	42	39.76	46.36	47.54
	RPZ-TS-108	57.24	38.53	31.51	46.09	43.34
	Mean	60.46	41.91	39.71	46.72	47.2
Mean	RPZ-TS-101	66.15	43.62	42.6	48.88	50.31
	RPZ-TS-102	64.02	45.83	42.06	49.77	50.42
	RPZ-TS-103	60.86	43.89	45.93	50.02	50.18
	RPZ-TS-104	64.31	42.97	46.71	51.44	51.36
	RPZ-TS-105	67.85	47.23	47.9	46.76	52.44
	RPZ-TS-106	67.32	43.85	42.85	50.47	51.12
	RPZ-TS-107	67.68	44.69	43.19	47.21	50.69
	RPZ-TS-108	59.79	40.71	35.5	45.89	45.47
	Mean	64.75	44.1	43.34	48.81	50.25
CD (0.05)	Sowing time (A)	N.S.	N.S.	4.16	N.S.	2.49
	Genotype (B)	4.11	N.S.	4.1	N.S.	2.23
	B within A	5.82	5.76	N.S.	N.S.	N.S.
	A within B	10.04	6.1	N.S.	N.S.	N.S.
Date of Sowing:	Timely	10.11.2023	10.11.2023	09.11.2023	07.11.2023	
	Late	02.12.2023	25.11.2023	02.12.2023	28.11.2023	
Date of Harvesting:	Timely	09.03.2024	15.03.2024	10.03.2024	15.03.2024	
	Late	22.03.2024	28.03.2024	01.04.2024	28.03.2024	

Table 5.2. Peninsular Zone		IR-TS-DOS-TAD		Pooled		2023-24	
Genotype	Date of Sowing				Mean	Rk	
	Timely	Rk	Late	Rk			
Yield, q/ha							
RPZ-TS-101	51.49	7	49.14	3	50.31	6	
RPZ-TS-102	54.87	3	45.97	7	50.42	5	
RPZ-TS-103	54.16	4	46.19	6	50.17	7	
RPZ-TS-104	53.50	6	49.22	2	51.36	2	
RPZ-TS-105	55.38	2	49.50	1	52.44	1	
RPZ-TS-106	55.53	1	46.71	5	51.12	3	
RPZ-TS-107	53.85	5	47.54	4	50.69	4	
RPZ-TS-108	47.61	8	43.34	8	45.48	8	
Mean	53.30		47.20		50.25		
CD (0.05)	Sowing (A) 2.49		Genotype (B) 2.23		B within A N.S.	A within B N.S.	
Earhead/sqm							
RPZ-TS-101	434	2	379	4	407	2	
RPZ-TS-102	408	4	383	3	396	4	
RPZ-TS-103	404	5	402	1	403	3	
RPZ-TS-104	398	6	359	7	378	7	
RPZ-TS-105	454	1	390	2	422	1	
RPZ-TS-106	396	7	351	8	374	8	
RPZ-TS-107	395	8	364	6	380	6	
RPZ-TS-108	414	3	371	5	392	5	
Mean	413		375		394		
CD (0.05)	Sowing (A) 13.78		Genotype (B) 27.80		B within A N.S.	A within B N.S.	
Grains/Earhead							
RPZ-TS-101	31.66	3.00	35.0	1.0	33.3	2	
RPZ-TS-102	30.05	7.00	32.1	7.0	31.1	7	
RPZ-TS-103	35.49	1.00	32.3	6.0	33.9	1	
RPZ-TS-104	31.04	6.00	33.6	4.0	32.3	5	
RPZ-TS-105	29.06	8.00	32.0	8.0	30.5	8	
RPZ-TS-106	31.98	2.00	33.9	3.0	33.0	3	
RPZ-TS-107	31.57	4.00	34.1	2.0	32.8	4	
RPZ-TS-108	31.47	5.00	32.9	5.0	32.2	6	
Mean	31.54		33.2		32.4		
CD (0.05)	Sowing (A) N.S.		Genotype (B) N.S.		B within A N.S.	A within B N.S.	
1000 Grains Weight, g							
RPZ-TS-101	39.49	7.00	38.5	6.0	39.0	6	
RPZ-TS-102	45.03	3.00	39.5	5.0	42.3	3	
RPZ-TS-103	39.64	6.00	37.1	7.0	38.4	7	
RPZ-TS-104	45.64	1.00	41.4	1.0	43.5	1	
RPZ-TS-105	43.06	5.00	40.4	3.0	41.7	5	
RPZ-TS-106	45.27	2.00	41.0	2.0	43.1	2	
RPZ-TS-107	44.12	4.00	40.2	4.0	42.2	4	
RPZ-TS-108	38.29	8.00	36.4	8.0	37.4	8	
Mean	42.57		39.3		40.9		
CD (0.05)	Sowing (A) 1.67		Genotype (B) 1.41		B within A N.S.	A within B N.S.	
Centres:	Akola, Dharwad, Niphad, Pune						

Table 5.2.1. Peninsular Zone		IR-TS-DOS-TAD		Akola	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
RPZ-TS-101	68.17	5	64.14	2	66.15	4
RPZ-TS-102	70.90	4	57.14	7	64.02	6
RPZ-TS-103	66.83	6	54.88	8	60.86	7
RPZ-TS-104	63.63	7	64.98	1	64.31	5
RPZ-TS-105	74.77	1	60.93	5	67.85	1
RPZ-TS-106	72.29	3	62.35	3	67.32	3
RPZ-TS-107	73.33	2	62.02	4	67.68	2
RPZ-TS-108	62.34	8	57.24	6	59.79	8
Mean	69.03		60.46		64.75	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	3.51	14.49	26.54	
Genotype (B)		*	1.71	4.11	6.47	
B within A		*	2.42	5.82		
A within B			4.17	10.04		
Earhead/sqm						
RPZ-TS-101	568	2	543	1	556	1
RPZ-TS-102	473	5	527	2	500	4
RPZ-TS-103	453	7	523	3	488	5
RPZ-TS-104	433	8	430	8	432	8
RPZ-TS-105	580	1	457	5	518	2
RPZ-TS-106	462	6	442	6	452	7
RPZ-TS-107	480	4	433	7	457	6
RPZ-TS-108	518	3	490	4	504	3
Mean	496		481		488	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	9.17	37.85	9.19	
Genotype (B)		N.S.	33.78	81.25	16.94	
B within A		N.S.	47.77	114.91		
A within B			45.61	109.72		
Grains/Earhead						
RPZ-TS-101	27.90	7.00	30.4	6.0	29.2	7
RPZ-TS-102	33.41	4.00	24.9	8.0	29.1	8
RPZ-TS-103	36.98	1.00	28.8	7.0	32.9	4
RPZ-TS-104	32.82	5.00	33.1	2.0	33.0	3
RPZ-TS-105	27.55	8.00	31.6	4.0	29.6	6
RPZ-TS-106	35.65	2.00	32.2	3.0	33.9	1
RPZ-TS-107	33.64	3.00	33.7	1.0	33.7	2
RPZ-TS-108	32.80	6.00	31.4	5.0	32.1	5
Mean	32.59		30.8		31.7	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	1.65	6.83	25.57	
Genotype (B)		N.S.	2.67	6.42	20.65	
B within A		N.S.	3.78	9.08		
A within B			3.90	9.38		

1000 Grains Weight, g						
RPZ-TS-101	43.05	6.00	39.0	6.0	41.0	6
RPZ-TS-102	45.50	5.00	43.5	4.0	44.5	5
RPZ-TS-103	40.71	7.00	36.5	8.0	38.6	7
RPZ-TS-104	46.23	4.00	46.3	1.0	46.3	1
RPZ-TS-105	47.24	1.00	43.2	5.0	45.2	3
RPZ-TS-106	46.53	2.00	45.1	2.0	45.8	2
RPZ-TS-107	46.33	3.00	44.0	3.0	45.2	4
RPZ-TS-108	38.52	8.00	37.3	7.0	37.9	8
Mean	44.27		41.9		43.1	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		**	0.07	0.27	0.75	
Genotype (B)		**	0.15	0.37	0.88	
B within A		**	0.22	0.52		
A within B			0.21	0.52		
Date of Sowing		11.11.2023		02.12.2023		
Date of Harvesting		09.03.2024		22.03.2024		

Table 5.2.2. Peninsular Zone		IR-TS-DOS-TAD			Dharwad	2023-24
Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
RPZ-TS-101	43.23	6	44.02	2	43.62	6
RPZ-TS-102	51.89	1	39.76	6	45.83	2
RPZ-TS-103	45.61	5	42.17	4	43.89	4
RPZ-TS-104	42.53	8	43.41	3	42.97	7
RPZ-TS-105	46.40	4	48.06	1	47.23	1
RPZ-TS-106	50.38	2	37.32	8	43.85	5
RPZ-TS-107	47.39	3	42.00	5	44.69	3
RPZ-TS-108	42.90	7	38.53	7	40.71	8
Mean	46.29		41.91		44.10	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	1.19	4.91	13.22	
Genotype (B)		N.S.	1.69	4.07	9.40	
B within A		*	2.39	5.76		
A within B			2.54	6.10		
Earhead/sqm						
RPZ-TS-101	446	3	383	7	415	5
RPZ-TS-102	409	8	403	5	406	6
RPZ-TS-103	426	5	425	1	426	3
RPZ-TS-104	429	4	353	8	391	8
RPZ-TS-105	449	2	405	4	427	2
RPZ-TS-106	409	7	383	6	396	7
RPZ-TS-107	421	6	413	3	417	4
RPZ-TS-108	456	1	421	2	438	1
Mean	431		398		415	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	5.66	23.38	6.69	
Genotype (B)		N.S.	11.01	26.49	6.51	
B within A		N.S.	15.57	37.46		
A within B			15.63	37.60		

Grains/Earhead						
RPZ-TS-101	23.75	7	31.04	1	27.39	2
RPZ-TS-102	25.96	2	27.41	6	26.68	5
RPZ-TS-103	26.74	1	28.43	4	27.58	1
RPZ-TS-104	21.67	8	30.76	2	26.21	6
RPZ-TS-105	24.64	6	30.14	3	27.39	3
RPZ-TS-106	25.27	4	24.55	8	24.91	8
RPZ-TS-107	25.68	3	27.75	5	26.71	4
RPZ-TS-108	24.94	5	25.15	7	25.04	7
Mean	24.83		28.15		26.49	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	1.03	4.27	19.13	
Genotype (B)		N.S.	1.22	2.93	11.28	
B within A		N.S.	1.73	4.15		
A within B			1.92	4.61		
1000 Grains Weight, g						
RPZ-TS-101	40.86	6	37.25	4	39.05	6
RPZ-TS-102	49.00	1	36.45	7	42.73	3
RPZ-TS-103	39.77	7	35.09	8	37.43	7
RPZ-TS-104	45.77	3	40.27	1	43.02	2
RPZ-TS-105	42.02	5	39.39	3	40.70	4
RPZ-TS-106	48.84	2	39.68	2	44.26	1
RPZ-TS-107	43.97	4	36.71	5	40.34	5
RPZ-TS-108	37.68	8	36.69	6	37.19	8
Mean	43.49		37.69		40.59	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		**	0.11	0.45	1.31	
Genotype (B)		**	0.22	0.53	1.32	
B within A		**	0.31	0.75		
A within B			0.31	0.75		
Date of Sowing		10.11.2023		25.11.2023		
Date of Harvesting		15.03.2024		28.03.2024		

Table 5.2.3. Peninsular Zone		IR-TS-DOS-TAD		Niphad	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
RPZ-TS-101	46.12	6	39.09	6	42.60	6
RPZ-TS-102	45.82	7	38.30	7	42.06	7
RPZ-TS-103	49.72	3	42.14	3	45.93	3
RPZ-TS-104	50.39	2	43.03	2	46.71	2
RPZ-TS-105	51.12	1	44.69	1	47.90	1
RPZ-TS-106	46.51	5	39.20	5	42.85	5
RPZ-TS-107	46.62	4	39.76	4	43.19	4
RPZ-TS-108	39.49	8	31.51	8	35.50	8
Mean	46.97		39.71		43.34	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		*	1.01	4.16	11.40	
Genotype (B)		**	1.71	4.10	9.64	
B within A		N.S.	2.41	5.80		
A within B			2.47	5.95		

Earhead/sqm						
RPZ-TS-101	366	6	306	6	336	6
RPZ-TS-102	362	7	297	7	330	7
RPZ-TS-103	387	3	337	3	362	3
RPZ-TS-104	392	2	347	2	370	2
RPZ-TS-105	419	1	359	1	389	1
RPZ-TS-106	376	5	321	5	349	5
RPZ-TS-107	380	4	323	4	352	4
RPZ-TS-108	358	8	256	8	307	8
Mean	380		318		349	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		**	3.68	15.21	5.17	
Genotype (B)		**	8.52	20.49	5.98	
B within A		N.S.	12.05	28.98		
A within B			11.86	28.52		
Grains/Earhead						
RPZ-TS-101	28.94	2	31.82	3.0	30.38	2
RPZ-TS-102	29.14	1	32.58	2.0	30.86	1
RPZ-TS-103	27.93	3	29.39	6.0	28.66	5
RPZ-TS-104	27.87	4	28.86	8.0	28.37	7
RPZ-TS-105	25.89	7	28.98	7.0	27.44	8
RPZ-TS-106	27.55	5	30.14	4.0	28.84	4
RPZ-TS-107	27.32	6	29.63	5.0	28.48	6
RPZ-TS-108	25.12	8	33.51	1.0	29.31	3
Mean	27.47		30.61		29.04	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		*	0.44	1.82	7.43	
Genotype (B)		N.S.	1.43	3.45	12.08	
B within A		N.S.	2.03	4.87		
A within B			1.95	4.68		
1000 Grains Weight, g						
RPZ-TS-101	43.97	6	40.20	6	42.09	6
RPZ-TS-102	43.63	8	39.82	7	41.72	7
RPZ-TS-103	46.19	3	42.57	3	44.38	3
RPZ-TS-104	46.22	2	42.90	2	44.56	2
RPZ-TS-105	47.06	1	43.21	1	45.13	1
RPZ-TS-106	44.93	5	40.44	5	42.69	5
RPZ-TS-107	45.27	4	41.83	4	43.55	4
RPZ-TS-108	43.94	7	36.80	8	40.37	8
Mean	45.15		40.97		43.06	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		**	0.21	0.87	2.38	
Genotype (B)		**	0.77	1.85	4.37	
B within A		N.S.	1.09	2.61		
A within B			1.04	2.49		
Date of Sowing	09.11.2023			02.12.2023		
Date of Harvesting	10.03.2024			01.03.2024		

Table 5.2.4. Peninsular Zone		IR-TS-DOS-TAD		Pune	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
RPZ-TS-101	48.43	6	49.32	1	48.88	5
RPZ-TS-102	50.88	4	48.65	2	49.77	4
RPZ-TS-103	54.46	2	45.58	6	50.02	3
RPZ-TS-104	57.44	1	45.45	7	51.44	1
RPZ-TS-105	49.22	5	44.30	8.00	46.76	7
RPZ-TS-106	52.96	3	47.99	3.00	50.47	2
RPZ-TS-107	48.06	7	46.36	4.00	47.21	6
RPZ-TS-108	45.70	8	46.09	5	45.89	8
Mean	50.89		46.72		48.81	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	1.80	7.41	18.02	
Genotype (B)		N.S.	1.66	3.99	8.33	
B within A		N.S.	2.35	5.65		
A within B			2.84	6.82		
Earhead/sqm						
RPZ-TS-101	357	3	285	7	321	4
RPZ-TS-102	387	1	307	4	347	2
RPZ-TS-103	348	4	323	2	336	3
RPZ-TS-104	337	6	305	5	321	4
RPZ-TS-105	368	2	338	1	353	1
RPZ-TS-106	338	5	257	8	298	7
RPZ-TS-107	300	8	287	6	293	8
RPZ-TS-108	323	7	317	3	320	6
Mean	345		302		324	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	20.53	84.79	31.09	
Genotype (B)		N.S.	21.27	51.17	16.10	
B within A		N.S.	30.08	72.37		
A within B			34.83	83.80		
Grains/Earhead						
RPZ-TS-101	46.04	2	46.51	2	46.28	2
RPZ-TS-102	31.70	8	43.45	4	37.57	8
RPZ-TS-103	50.29	1	42.55	5	46.42	1
RPZ-TS-104	41.80	4	41.76	6	41.78	6
RPZ-TS-105	38.17	7	37.37	8	37.77	7
RPZ-TS-106	39.45	6	48.95	1	44.20	3
RPZ-TS-107	39.65	5	45.18	3	42.41	4
RPZ-TS-108	43.03	3	41.72	7	42.37	5
Mean	41.27		43.43		42.35	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	1.76	7.26	20.33	
Genotype (B)		N.S.	3.26	7.84	18.85	
B within A		N.S.	4.61	11.09		
A within B			4.66	11.20		

		1000 Grains Weight, g				
RPZ-TS-101	30.07	8	37.43	4	33.75	7
RPZ-TS-102	42.00	2	38.27	2	40.13	2
RPZ-TS-103	31.87	7	34.40	8	33.13	8
RPZ-TS-104	44.33	1	36.20	5	40.27	1
RPZ-TS-105	35.93	5	35.93	6	35.93	5
RPZ-TS-106	40.77	4	38.60	1	39.68	3
RPZ-TS-107	40.90	3	38.17	3	39.53	4
RPZ-TS-108	33.00	6	34.93	7	33.97	6
Mean	37.36		36.74		37.05	
		F. Test	SEm	CD (0.05)	CV (%)	
Sowing (A)		N.S.	2.83	11.69	37.43	
Genotype (B)		*	1.98	4.76	13.09	
B within A		N.S.	2.80	6.73		
A within B			3.86	9.28		
Date of Sowing	07.11.2023			28.11.2023		
Date of Harvesting	15.03.2024			28.03.2024		