

Table 2.1. North Western Plain Zone		IR-TS-DOS-TAS				Centrewise			Yield, q/ha			2023-24
Sowing Time	Genotype	Agra	Delhi	Durgapura	Gurdaspur	Hisar	Karnal	Ludhiana	Pantnagar	Sriganganagar	Zonal mean	
Timely	NWTSDOS 101	57.67	56.15	55.50	58.46	48.69	58.81	45.76	52.78	66.49	55.59	
	NWTSDOS 102	59.84	57.78	50.12	57.86	57.38	60.97	57.92	56.20	72.08	58.91	
	NWTSDOS 103	58.41	52.40	56.65	63.54	58.17	66.15	58.80	58.18	71.17	60.39	
	NWTSDOS 104	60.53	54.76	53.08	65.05	57.26	60.10	56.51	57.99	74.16	59.94	
	NWTSDOS 105	63.41	54.99	48.83	63.07	53.69	66.04	61.46	54.33	68.25	59.34	
	NWTSDOS 106	60.69	49.96	52.91	63.31	52.30	57.38	53.33	58.17	73.43	57.94	
	NWTSDOS 107	62.82	56.55	49.54	66.38	61.51	59.79	60.81	55.04	69.44	60.21	
	NWTSDOS 108	61.90	54.60	53.97	68.39	66.07	69.50	60.13	56.35	70.74	62.41	
	Mean		60.66	54.65	52.57	63.26	56.88	62.34	56.84	56.13	70.72	59.34
Late	NWTSDOS 101	55.61	50.12	46.67	55.23	44.36	47.45	31.02	43.10	47.34	46.77	
	NWTSDOS 102	57.53	46.06	47.66	57.32	50.52	59.09	38.26	48.96	45.87	50.14	
	NWTSDOS 103	56.94	40.36	45.61	61.38	52.26	59.03	52.06	52.79	49.76	52.24	
	NWTSDOS 104	58.03	41.26	43.40	62.66	46.07	58.21	44.35	48.50	49.19	50.18	
	NWTSDOS 105	61.13	40.79	45.66	61.77	47.94	56.12	49.82	55.18	40.22	50.96	
	NWTSDOS 106	58.82	39.21	48.45	62.16	43.21	57.87	44.35	51.43	52.46	50.88	
	NWTSDOS 107	60.33	44.29	43.21	66.90	47.74	57.35	41.77	48.92	47.08	50.84	
	NWTSDOS 108	59.26	43.67	48.80	65.99	49.48	57.00	35.27	50.77	40.24	50.05	
	Mean		58.46	43.22	46.18	61.68	47.70	56.51	42.11	49.96	46.52	50.26
Mean	NWTSDOS 101	56.64	53.13	51.09	56.85	46.53	53.13	38.39	47.94	56.92	51.18	
	NWTSDOS 102	58.69	51.92	48.89	57.59	53.95	60.03	48.09	52.58	58.98	54.52	
	NWTSDOS 103	57.68	46.38	51.13	62.46	55.22	62.59	55.43	55.49	60.47	56.31	
	NWTSDOS 104	59.28	48.01	48.24	63.85	51.67	59.16	50.43	53.24	61.68	55.06	
	NWTSDOS 105	62.27	47.89	47.25	62.42	50.81	61.08	55.64	54.75	54.24	55.15	
	NWTSDOS 106	59.76	44.58	50.68	62.73	47.76	57.63	48.84	54.80	62.95	54.41	
	NWTSDOS 107	61.58	50.42	46.38	66.64	54.62	58.57	51.29	51.98	58.26	55.53	
	NWTSDOS 108	60.58	49.14	51.38	67.19	57.78	63.25	47.70	53.56	55.49	56.23	
	Mean		59.56	48.93	49.38	62.47	52.29	59.43	49.48	53.04	58.62	54.80
CD (0.05)	Sowing (A)	1.07	7.63	1.25	1.56	2.93	0.96	2.94	2.85	0.83	0.63	
	Variety (B)	1.90	2.34	3.89	5.14	3.37	2.26	4.12	2.48	3.65	1.10	
	B within A	2.69	3.32	5.51	7.27	4.77	3.20	5.83	3.51	5.16	1.55	
	A within B	2.59	5.42	5.20	6.86	4.78	3.04	5.72	3.68	4.85	1.64	
Date of Sowing:	Timely	10.11.2023	07.11.2023	9.11.2023	7.11.2023	09.11.2023	10.11.2023	10.11.2023	09.11.2023	09.11.2023		
	Late	10.12.2023	14.12.2023	7.12.2023	12.12.2023	16.12.2023	16.12.2023	15.12.2023	12.12.2023	10.12.2023		
Date of Harvesting:	Timely	23.03.2024	16.04.2024	10.03.2024	25.4.2024	14.04.2024	22.04.2024	27.04.2024	16.04.2024	24.04.2024		
	Late	10.04.2024	16.04.2024	25.03.2024	08.5.2024	26.04.2024	29.04.2024	27.04.2024	26.04.2024	26.04.2024		

Table 2.2. North Western Plain Zone IR-TS-DOS-TAS Pooled 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
	Yield, q/ha					
NWTSDOS 101	55.59	8	46.77	8	51.18	8
NWTSDOS 102	58.91	6	50.14	6	54.52	6
NWTSDOS 103	60.39	2	52.24	1	56.31	1
NWTSDOS 104	59.94	4	50.18	5	55.06	5
NWTSDOS 105	59.34	5	50.96	2	55.15	4
NWTSDOS 106	57.94	7	50.88	3	54.41	7
NWTSDOS 107	60.21	3	50.84	4	55.53	3
NWTSDOS 108	62.41	1	50.05	7	56.23	2
Mean	59.34		50.26		54.80	
CD (0.05)	Sowing (A) 0.63	Genotype (B) 1.10		B within A 1.55		A within B 1.64
	Earhead/sq.m.					
NWTSDOS 101	362	1	326	7	344	6
NWTSDOS 102	354	6	325	8	340	8
NWTSDOS 103	350	8	343	2	346	5
NWTSDOS 104	360	4	333	6	347	4
NWTSDOS 105	351	7	337	5	344	7
NWTSDOS 106	357	5	338	3	348	3
NWTSDOS 107	361	3	343	1	352	1
NWTSDOS 108	362	2	337	4	350	2
Mean	357		335		346	
CD (0.05)	Sowing (A) 6.03	Genotype (B) NS		B within A NS		A within B NS
	Grains/earhead					
NWTSDOS 101	38.78	4	39.92	2	39.35	3
NWTSDOS 102	38.27	6	38.17	4	38.22	5
NWTSDOS 103	40.02	3	37.51	6	38.77	4
NWTSDOS 104	40.37	2	39.22	3	39.79	2
NWTSDOS 105	42.27	1	41.06	1	41.66	1
NWTSDOS 106	37.27	8	38.03	5	37.65	7
NWTSDOS 107	38.08	7	37.42	7	37.75	6
NWTSDOS 108	38.39	5	36.84	8	37.61	8
Mean	39.18		38.52		38.85	
CD (0.05)	Sowing (A) NS	Genotype (B) 1.32		B within A NS		A within B 1.93
	1000 grains weight, g					
NWTSDOS 101	39.57	8	36.37	8	37.97	8
NWTSDOS 102	44.84	2	42.42	1	43.63	1
NWTSDOS 103	44.14	3	41.40	3	42.77	3
NWTSDOS 104	41.58	6	40.02	6	40.80	6
NWTSDOS 105	40.50	7	38.88	7	39.69	7
NWTSDOS 106	43.45	5	40.66	5	42.05	5
NWTSDOS 107	43.88	4	40.75	4	42.32	4
NWTSDOS 108	45.20	1	41.42	2	43.31	2
Mean	42.90		40.24		41.57	
CD (0.05)	Sowing (A) 0.39	Genotype (B) 0.58		B within A 0.82		A within B 0.89

Centres: Agra, Delhi, Durgapura, Gurdaspur, Hisar, Karnal, Ludhiana, Pantnagar and Sriganaganagar

Table 2.2.1. North Western Plain Zone IR-TS-DOS-TAS Agra 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	57.67	8	55.61	8	56.64	8
NWTSDOS 102	59.84	6	57.53	6	58.69	6
NWTSDOS 103	58.41	7	56.94	7	57.68	7
NWTSDOS 104	60.53	5	58.03	5	59.28	5
NWTSDOS 105	63.41	1	61.13	1	62.27	1
NWTSDOS 106	60.69	4	58.82	4	59.76	4
NWTSDOS 107	62.82	2	60.33	2	61.58	2
NWTSDOS 108	61.90	3	59.26	3	60.58	3
MEAN	60.66		58.46		59.56	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.26	1.07	2.14	
Genotype (B)	**		0.79	1.90	3.25	
B within A	N.S.		1.12	2.69		
A within B			1.08	2.59		
Earhead/sq.m.						
NWTSDOS 101	297	8	297	8	297	8
NWTSDOS 102	303	6	305	5	304	6
NWTSDOS 103	300	7	298	7	299	7
NWTSDOS 104	307	5	304	6	305	5
NWTSDOS 105	320	1	318	1	319	1
NWTSDOS 106	310	4	307	4	309	4
NWTSDOS 107	317	2	314	2	315	2
NWTSDOS 108	314	3	310	3	312	3
MEAN	308		307		308	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.38	1.55	0.60	
Genotype (B)	**		0.70	1.70	0.56	
B within A	N.S.		1.00	2.40		
A within B			1.01	2.42		
Grains/earhead						
NWTSDOS 101	49.58	1	48.76	1	49.17	1
NWTSDOS 102	48.93	2	47.32	4	48.13	3
NWTSDOS 103	48.76	3	48.67	2	48.72	2
NWTSDOS 104	48.05	4	47.67	3	47.86	4
NWTSDOS 105	45.65	8	45.28	8	45.46	8
NWTSDOS 106	46.85	5	46.99	5	46.92	5
NWTSDOS 107	46.40	7	45.98	7	46.19	7
NWTSDOS 108	46.81	6	46.40	6	46.61	6
MEAN	47.63		47.13		47.38	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.15	0.63	1.59	
Genotype (B)	**		0.38	0.92	1.97	
B within A	N.S.		0.54	1.30		
A within B			0.53	1.27		

1000 grains weight, g						
NWTSDOS 101	39.13	8	38.47	8	38.80	8
NWTSDOS 102	40.34	6	39.92	6	40.13	6
NWTSDOS 103	39.92	7	39.22	7	39.57	7
NWTSDOS 104	41.09	5	40.03	5	40.56	5
NWTSDOS 105	43.40	1	42.51	1	42.96	1
NWTSDOS 106	41.76	4	40.76	4	41.26	4
NWTSDOS 107	42.80	2	41.81	2	42.31	2
NWTSDOS 108	42.15	3	41.17	3	41.66	3
MEAN	41.32		40.49		40.91	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.10	0.43	1.24	
Genotype (B)	**		0.56	1.36	3.38	
B within A	N.S.		0.80	1.92		
A within B			0.75	1.81		
Date of Sowing:	10.11.2023	10.12.2023	Date of Harvesting:	23.03.2024	10.04.2024	

Table 2.2.2. North Western Plain Zone		IR-TS-DOS-TAS		Delhi	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	56.15	3	50.12	1	53.13	1
NWTSDOS 102	57.78	1	46.06	2	51.92	2
NWTSDOS 103	52.40	7	40.36	7	46.38	7
NWTSDOS 104	54.76	5	41.26	5	48.01	5
NWTSDOS 105	54.99	4	40.79	6	47.89	6
NWTSDOS 106	49.96	8	39.21	8	44.58	8
NWTSDOS 107	56.55	2	44.29	3	50.42	3
NWTSDOS 108	54.60	6	43.67	4	49.14	4
MEAN	54.65		43.22		48.93	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		1.85	7.63	18.50	
Genotype (B)	**		0.97	2.34	4.88	
B within A	N.S.		1.38	3.32		
A within B			2.25	5.42		
Earhead/sq.m.						
NWTSDOS 101	416	1	383	3	400	1
NWTSDOS 102	405	3	345	8	375	5
NWTSDOS 103	332	8	364	6	348	8
NWTSDOS 104	415	2	380	4	398	2
NWTSDOS 105	343	7	399	1	371	6
NWTSDOS 106	382	5	391	2	387	3
NWTSDOS 107	394	4	372	5	383	4
NWTSDOS 108	359	6	354	7	357	7
MEAN	381		374		377	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		17.56	72.51	22.81	
Genotype (B)	N.S.		19.12	45.99	12.42	
B within A	N.S.		27.04	65.04		
A within B			30.79	74.06		

Grains/earhead						
NWTSDOS 101	36.71	5	38.81	1	37.76	3
NWTSDOS 102	37.81	4	38.67	2	38.24	2
NWTSDOS 103	46.22	1	32.59	3	39.40	1
NWTSDOS 104	38.20	3	29.51	6	33.85	5
NWTSDOS 105	45.05	2	26.73	7	35.89	4
NWTSDOS 106	30.72	8	24.81	8	27.76	8
NWTSDOS 107	33.37	7	30.42	5	31.90	7
NWTSDOS 108	33.80	6	32.56	4	33.18	6
MEAN	37.73		31.76		34.75	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.11	4.59	15.66	
Genotype (B)	*		2.17	5.22	15.30	
B within A	*		3.07	7.38		
A within B			3.08	7.41		
1000 grains weight, g						
NWTSDOS 101	37.42	5	34.44	7	35.93	7
NWTSDOS 102	37.84	4	35.24	6	36.54	5
NWTSDOS 103	34.30	8	33.90	8	34.10	8
NWTSDOS 104	34.86	7	37.04	5	35.95	6
NWTSDOS 105	36.55	6	38.26	4	37.41	4
NWTSDOS 106	43.09	3	40.73	1	41.91	2
NWTSDOS 107	43.35	2	39.50	2	41.42	3
NWTSDOS 108	46.32	1	38.38	3	42.35	1
MEAN	39.22		37.19		38.20	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.32	1.32	4.09	
Genotype (B)	**		0.62	1.50	4.00	
B within A	**		0.88	2.12		
A within B			0.89	2.13		
Date of Sowing:	07.11.2023	14.12.2023	Date of Harvesting:	16.04.2024	16.04.2024	

Table 2.2.3. North Western Plain Zone IR-TS-DOS-TAS Durgapura 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	55.50	2	46.67	4	51.09	3
NWTSDOS 102	50.12	6	47.66	3	48.89	5
NWTSDOS 103	56.65	1	45.61	6	51.13	2
NWTSDOS 104	53.08	4	43.40	7	48.24	6
NWTSDOS 105	48.83	8	45.66	5	47.25	7
NWTSDOS 106	52.91	5	48.45	2	50.68	4
NWTSDOS 107	49.54	7	43.21	8	46.38	8
NWTSDOS 108	53.97	3	48.80	1	51.38	1
MEAN	52.57		46.18		49.38	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.30	1.25	3.00	
Genotype (B)	N.S.		1.62	3.89	8.03	
B within A	N.S.		2.29	5.51		
A within B			2.16	5.20		

Earhead/sq.m.						
NWTSDOS 101	379	1	314	5	346	3
NWTSDOS 102	346	6	324	3	335	5
NWTSDOS 103	377	2	302	6	340	4
NWTSDOS 104	369	3	293	8	331	6
NWTSDOS 105	337	7	317	4	327	7
NWTSDOS 106	367	5	331	1	349	2
NWTSDOS 107	334	8	295	7	315	8
NWTSDOS 108	368	4	331	1	349	1
MEAN	360		313		337	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.59	2.43	0.86	
Genotype (B)	N.S.		11.89	28.60	8.65	
B within A	N.S.		16.81	40.44		
A within B			15.74	37.85		
Grains/earhead						
NWTSDOS 101	30.55	8	34.42	5	32.48	6
NWTSDOS 102	30.57	7	34.15	7	32.36	7
NWTSDOS 103	32.90	2	35.15	3	34.03	2
NWTSDOS 104	31.14	6	35.23	2	33.18	4
NWTSDOS 105	31.99	4	34.23	6	33.11	5
NWTSDOS 106	31.22	5	33.37	8	32.29	8
NWTSDOS 107	32.40	3	35.09	4	33.75	3
NWTSDOS 108	35.40	1	35.88	1	35.64	1
MEAN	32.02		34.69		33.36	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.30	1.26	4.47	
Genotype (B)	N.S.		0.80	1.91	5.84	
B within A	N.S.		1.12	2.70		
A within B			1.09	2.63		
1000 grains weight, g						
NWTSDOS 101	47.93	1	43.43	2	45.68	1
NWTSDOS 102	47.43	2	43.20	3	45.32	2
NWTSDOS 103	45.80	6	43.07	4	44.43	4
NWTSDOS 104	46.17	4	42.20	6	44.18	5
NWTSDOS 105	45.30	7	42.20	5	43.75	7
NWTSDOS 106	46.37	3	44.00	1	45.18	3
NWTSDOS 107	45.90	5	41.87	7	43.88	6
NWTSDOS 108	41.43	8	41.23	8	41.33	8
MEAN	45.79		42.65		44.22	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.51	2.10	5.63	
Genotype (B)	*		0.88	2.13	4.89	
B within A	N.S.		1.25	3.01		
A within B			1.27	3.07		
Date of Sowing:	9.11.2023	7.12.2023	Date of Harvesting:	10.03.2024	25.03.2024	

Table 2.2.4. North Western Plain Zone IR-TS-DOS-TAS Gurdaspur 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	58.46	7	55.23	8	56.85	8
NWTSDOS 102	57.86	8	57.32	7	57.59	7
NWTSDOS 103	63.54	4	61.38	6	62.46	5
NWTSDOS 104	65.05	3	62.66	3	63.85	3
NWTSDOS 105	63.07	6	61.77	5	62.42	6
NWTSDOS 106	63.31	5	62.16	4	62.73	4
NWTSDOS 107	66.38	2	66.90	1	66.64	2
NWTSDOS 108	68.39	1	65.99	2	67.19	1
MEAN	63.26		61.68		62.47	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.38	1.56	2.95	
Genotype (B)	*		2.14	5.14	8.37	
B within A	N.S.		3.02	7.27		
A within B			2.85	6.86		
Earhead/sq.m.						
NWTSDOS 101	386	3	317	8	351	6
NWTSDOS 102	341	8	322	7	332	8
NWTSDOS 103	367	7	359	3	363	5
NWTSDOS 104	392	2	340	4	366	4
NWTSDOS 105	372	6	326	6	349	7
NWTSDOS 106	399	1	333	5	366	3
NWTSDOS 107	385	5	375	1	380	1
NWTSDOS 108	385	4	366	2	375	2
MEAN	378		342		360	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		4.03	16.66	5.49	
Genotype (B)	*		8.61	20.71	5.85	
B within A	N.S.		12.17	29.28		
A within B			12.08	29.06		
Grains/earhead						
NWTSDOS 101	38.62	7	45.00	4	41.81	7
NWTSDOS 102	41.90	3	43.89	5	42.89	4
NWTSDOS 103	44.03	1	43.15	6	43.59	3
NWTSDOS 104	41.77	4	46.55	3	44.16	2
NWTSDOS 105	42.17	2	47.10	1	44.63	1
NWTSDOS 106	38.25	8	46.71	2	42.48	5
NWTSDOS 107	41.06	6	42.30	8	41.68	8
NWTSDOS 108	41.67	5	42.53	7	42.10	6
MEAN	41.18		44.65		42.92	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.14	0.59	1.63	
Genotype (B)	N.S.		2.07	4.99	11.84	
B within A	N.S.		2.93	7.06		
A within B			2.75	6.61		

1000 grains weight, g						
NWTSDOS 101	39.50	7	39.17	8	39.33	8
NWTSDOS 102	40.79	4	40.85	3	40.82	4
NWTSDOS 103	39.45	8	39.80	7	39.63	7
NWTSDOS 104	39.73	6	40.01	6	39.87	6
NWTSDOS 105	40.21	5	40.19	5	40.20	5
NWTSDOS 106	41.49	3	40.27	4	40.88	3
NWTSDOS 107	42.05	2	42.29	2	42.17	2
NWTSDOS 108	42.62	1	42.35	1	42.48	1
MEAN	40.73		40.61		40.67	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.32	1.30	3.81	
Genotype (B)	**		0.60	1.45	3.64	
B within A	N.S.		0.85	2.05		
A within B			0.86	2.07		
Date of Sowing:	7.11.2023	12.12.2023	Date of Harvesting:	25.4.2024	08.5.2024	

Table 2.2.5. North Western Plain Zone		IR-TS-DOS-TAS		Hisar	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	48.69	8	44.36	7	46.53	8
NWTSDOS 102	57.38	4	50.52	2	53.95	4
NWTSDOS 103	58.17	3	52.26	1	55.22	2
NWTSDOS 104	57.26	5	46.07	6	51.67	5
NWTSDOS 105	53.69	6	47.94	4	50.81	6
NWTSDOS 106	52.30	7	43.21	8	47.76	7
NWTSDOS 107	61.51	2	47.74	5	54.62	3
NWTSDOS 108	66.07	1	49.48	3	57.78	1
MEAN	56.88		47.70		52.29	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.71	2.93	6.64	
Genotype (B)	**		1.40	3.37	6.57	
B within A	*		1.98	4.77		
A within B			1.99	4.78		
Earhead/sq.m.						
NWTSDOS 101	407	8	361	8	384	8
NWTSDOS 102	432	4	403	1	417	3
NWTSDOS 103	445	1	399	3	422	2
NWTSDOS 104	416	6	377	6	397	6
NWTSDOS 105	417	5	380	5	399	5
NWTSDOS 106	409	7	365	7	387	7
NWTSDOS 107	443	3	389	4	416	4
NWTSDOS 108	444	2	401	2	423	1
MEAN	427		385		406	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		4.25	17.57	5.14	
Genotype (B)	*		9.04	21.75	5.46	
B within A	N.S.		12.79	30.76		
A within B			12.70	30.54		

Grains/earhead						
NWTSDOS 101	34.74	4	44.14	1	39.44	1
NWTSDOS 102	36.52	3	36.66	4	36.59	4
NWTSDOS 103	30.01	8	32.46	7	31.23	8
NWTSDOS 104	38.90	1	39.94	3	39.42	2
NWTSDOS 105	38.18	2	40.35	2	39.26	3
NWTSDOS 106	31.67	6	35.70	5	33.68	5
NWTSDOS 107	31.31	7	32.65	6	31.98	7
NWTSDOS 108	33.71	5	31.04	8	32.37	6
MEAN	34.38		36.62		35.50	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.13	0.54	1.81	
Genotype (B)	**		1.28	3.09	8.85	
B within A	N.S.		1.81	4.36		
A within B			1.70	4.09		
1000 grains weight, g						
NWTSDOS 101	34.46	7	27.82	8	31.14	8
NWTSDOS 102	36.57	5	34.37	4	35.47	5
NWTSDOS 103	43.63	3	40.49	1	42.06	2
NWTSDOS 104	35.41	6	30.54	7	32.98	6
NWTSDOS 105	33.78	8	31.36	6	32.57	7
NWTSDOS 106	40.35	4	33.33	5	36.84	4
NWTSDOS 107	44.44	1	37.60	3	41.02	3
NWTSDOS 108	44.26	2	39.94	2	42.10	1
MEAN	39.11		34.43		36.77	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.39	1.60	5.16	
Genotype (B)	**		0.57	1.38	3.82	
B within A	*		0.81	1.95		
A within B			0.85	2.05		
Date of Sowing:	09.11.2023	16.12.2023	Date of Harvesting:	14.04.2024	26.04.2024	

Table 2.2.6. North Western Plain Zone IR-TS-DOS-TAS Jammu 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	45.30	8	33.43	8	39.36	8
NWTSDOS 102	50.23	3	38.52	3	44.38	3
NWTSDOS 103	46.16	7	34.18	7	40.17	7
NWTSDOS 104	52.45	1	39.14	1	45.79	1
NWTSDOS 105	47.41	5	37.44	5	41.41	5
NWTSDOS 106	51.07	2	38.89	2	44.98	2
NWTSDOS 107	46.59	6	34.86	6	40.72	6
NWTSDOS 108	49.37	4	37.02	4	43.20	4
MEAN	48.57		36.43		42.50	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.54	2.22	6.21	
Genotype (B)	**		1.03	2.47	5.91	
B within A	N.S.		1.45	3.49		
A within B			1.46	3.51		

Earhead/sq.m.						
NWTSDOS 101	392	8	386	8	389	8
NWTSDOS 102	414	3	402	3	408	3
NWTSDOS 103	397	7	387	7	392	7
NWTSDOS 104	436	1	432	1	434	1
NWTSDOS 105	406	5	396	5	401	5
NWTSDOS 106	427	2	422	2	425	2
NWTSDOS 107	403	6	393	6	398	6
NWTSDOS 108	410	4	396	4	403	4
MEAN	411		402		406	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.71	2.95	0.86	
Genotype (B)	**		7.57	18.21	4.56	
B within A	N.S.		10.70	25.75		
A within B			10.04	24.15		
Grains/earhead						
NWTSDOS 101	26.18	1	20.71	5	23.44	4
NWTSDOS 102	26.06	2	22.41	1	24.24	1
NWTSDOS 103	25.97	3	21.20	3	23.59	3
NWTSDOS 104	25.43	6	20.52	7	22.97	6
NWTSDOS 105	25.20	8	20.61	6	22.91	7
NWTSDOS 106	25.49	5	20.91	4	23.20	5
NWTSDOS 107	25.21	7	20.39	8	22.80	8
NWTSDOS 108	25.97	4	21.35	2	23.66	2
MEAN	25.69		21.01		23.35	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.07	0.30	1.50	
Genotype (B)	N.S.		1.07	2.58	11.24	
B within A	N.S.		1.51	3.64		
A within B			1.42	3.41		
1000 grains weight, g						
NWTSDOS 101	44.56	8	41.85	8	43.20	8
NWTSDOS 102	46.67	3	43.86	4	45.26	3
NWTSDOS 103	44.95	7	42.15	7	43.55	7
NWTSDOS 104	47.29	1	44.17	1	45.73	1
NWTSDOS 105	46.34	5	43.39	6	44.87	5
NWTSDOS 106	47.21	2	44.10	2	45.66	2
NWTSDOS 107	45.93	6	43.49	5	44.71	6
NWTSDOS 108	46.45	4	43.86	3	45.15	4
MEAN	46.17		43.36		44.77	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.34	1.42	3.76	
Genotype (B)	N.S.		1.04	2.51	5.71	
B within A	N.S.		1.48	3.55		
A within B			1.42	3.42		
Date of Sowing:	08.11.2023	12.12.2023	Date of Harvesting:	30..04.2024	07..05.2024	

Table 2.2.7. North Western Plain Zone IR-TS-DOS-TAS Karnal 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	58.81	7	47.45	8	53.13	8
NWTSDOS 102	60.97	4	59.09	1	60.03	4
NWTSDOS 103	66.15	2	59.03	2	62.59	2
NWTSDOS 104	60.10	5	58.21	3	59.16	5
NWTSDOS 105	66.04	3	56.12	7	61.08	3
NWTSDOS 106	57.38	8	57.87	4	57.63	7
NWTSDOS 107	59.79	6	57.35	5	58.57	6
NWTSDOS 108	69.50	1	57.00	6	63.25	1
MEAN	62.34		56.51		59.43	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.23	0.96	1.91	
Genotype (B)	**		0.94	2.26	3.88	
B within A	**		1.33	3.20		
A within B			1.27	3.04		
Earhead/sq.m.						
NWTSDOS 101	442	3	416	5	429	5
NWTSDOS 102	434	4	388	8	411	8
NWTSDOS 103	429	7	413	6	421	7
NWTSDOS 104	433	5	432	1	433	2
NWTSDOS 105	450	2	408	7	429	3
NWTSDOS 106	421	8	423	3	422	6
NWTSDOS 107	430	6	428	2	429	3
NWTSDOS 108	456	1	419	4	438	1
MEAN	437		416		426	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		3.12	12.87	3.58	
Genotype (B)	N.S.		6.67	16.05	3.83	
B within A	N.S.		9.44	22.70		
A within B			9.36	22.52		
Grains/earhead						
NWTSDOS 101	38.58	1	34.35	4	36.47	3
NWTSDOS 102	31.19	8	32.39	7	31.79	8
NWTSDOS 103	32.94	7	32.05	8	32.49	7
NWTSDOS 104	34.66	5	32.91	5	33.78	5
NWTSDOS 105	36.78	4	36.55	1	36.67	1
NWTSDOS 106	38.06	2	34.45	3	36.25	4
NWTSDOS 107	37.21	3	35.83	2	36.52	2
NWTSDOS 108	33.95	6	32.47	6	33.21	6
MEAN	35.42		33.88		34.65	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.18	4.89	16.74	
Genotype (B)	*		1.24	2.98	8.77	
B within A	N.S.		1.75	4.22		
A within B			2.02	4.87		

1000 grains weight, g						
NWTSDOS 101	35.15	8	33.24	8	34.19	8
NWTSDOS 102	45.11	2	47.05	1	46.08	1
NWTSDOS 103	47.03	1	44.77	2	45.90	2
NWTSDOS 104	40.05	4	41.01	4	40.53	4
NWTSDOS 105	39.99	5	37.64	7	38.82	5
NWTSDOS 106	36.13	7	39.83	5	37.98	6
NWTSDOS 107	37.45	6	37.67	6	37.56	7
NWTSDOS 108	44.98	3	42.20	3	43.59	3
MEAN	40.74		40.43		40.58	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.05	4.35	12.71	
Genotype (B)	**		0.88	2.11	5.30	
B within A	N.S.		1.24	2.99		
A within B			1.57	3.77		
Date of Sowing:	10.11.2023	16.12.2023	Date of Harvesting:	22.04.2024	29.04.2024	

Table 2.2.8. North Western Plain Zone IR-TS-DOS-TAS Ludhiana 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	45.76	8	31.02	8	38.39	8
NWTSDOS 102	57.92	5	38.26	6	48.09	6
NWTSDOS 103	58.80	4	52.06	1	55.43	2
NWTSDOS 104	56.51	6	44.35	3	50.43	4
NWTSDOS 105	61.46	1	49.82	2	55.64	1
NWTSDOS 106	53.33	7	44.35	3	48.84	5
NWTSDOS 107	60.81	2	41.77	5	51.29	3
NWTSDOS 108	60.13	3	35.27	7	47.70	7
MEAN	56.84		42.11		49.48	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.71	2.94	7.04	
Genotype (B)	**		1.71	4.12	8.49	
B within A	*		2.42	5.83		
A within B			2.38	5.72		
Earhead/sq.m.						
NWTSDOS 101	289	8	271	8	280	8
NWTSDOS 102	308	6	278	5	293	6
NWTSDOS 103	310	4	325	1	318	2
NWTSDOS 104	317	3	313	2	315	3
NWTSDOS 105	343	1	299	4	321	1
NWTSDOS 106	297	7	307	3	302	4
NWTSDOS 107	323	2	274	6	299	5
NWTSDOS 108	310	4	273	7	292	7
MEAN	312		293		302	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.73	3.03	1.19	
Genotype (B)	N.S.		9.64	23.19	7.81	
B within A	N.S.		13.64	32.80		
A within B			12.78	30.73		

Grains/earhead						
NWTSDOS 101	43.74	3	30.76	6	37.25	5
NWTSDOS 102	44.54	2	29.57	7	37.05	6
NWTSDOS 103	41.70	5	34.95	4	38.32	2
NWTSDOS 104	40.69	8	32.66	5	36.67	7
NWTSDOS 105	49.59	1	43.74	1	46.66	1
NWTSDOS 106	41.40	6	35.21	2	38.30	3
NWTSDOS 107	41.08	7	34.99	3	38.03	4
NWTSDOS 108	42.38	4	28.66	8	35.52	8
MEAN	43.14		33.82		38.48	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.28	1.18	3.63	
Genotype (B)	*		1.98	4.76	12.59	
B within A	N.S.		2.80	6.73		
A within B			2.63	6.33		
1000 grains weight, g						
NWTSDOS 101	36.43	8	37.45	8	36.94	8
NWTSDOS 102	42.38	6	46.57	1	44.47	4
NWTSDOS 103	45.44	3	45.91	2	45.67	1
NWTSDOS 104	44.48	4	43.50	4	43.99	5
NWTSDOS 105	36.52	7	38.21	7	37.36	7
NWTSDOS 106	43.79	5	41.27	6	42.53	6
NWTSDOS 107	46.01	2	43.48	5	44.74	3
NWTSDOS 108	46.25	1	45.04	3	45.65	2
MEAN	42.66		42.68		42.67	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.43	1.76	4.89	
Genotype (B)	**		1.06	2.55	6.08	
B within A	N.S.		1.50	3.60		
A within B			1.46	3.52		
Date of Sowing:	10.11.2023	15.12.2023	Date of Harvesting:	27.04.2024	27.04.2024	

Table 2.2.9. North Western Plain Zone IR-TS-DOS-TAS Pantnagar 2023-24

Genotype	Date of Sowing				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NWTSDOS 101	52.78	8	43.10	8	47.94	8
NWTSDOS 102	56.20	5	48.96	5	52.58	6
NWTSDOS 103	58.18	1	52.79	2	55.49	1
NWTSDOS 104	57.99	3	48.50	7	53.24	5
NWTSDOS 105	54.33	7	55.18	1	54.75	3
NWTSDOS 106	58.17	2	51.43	3	54.80	2
NWTSDOS 107	55.04	6	48.92	6	51.98	7
NWTSDOS 108	56.35	4	50.77	4	53.56	4
MEAN	56.13		49.96		53.04	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.69	2.85	6.38	
Genotype (B)	**		1.03	2.48	4.76	
B within A	*		1.46	3.51		
A within B			1.53	3.68		

Earhead/sq.m.						
NWTSDOS 101	283	1	253	3	268	2
NWTSDOS 102	266	3	239	7	252	6
NWTSDOS 103	237	6	280	2	258	4
NWTSDOS 104	234	7	227	8	231	8
NWTSDOS 105	229	8	249	5	239	7
NWTSDOS 106	273	2	252	4	263	3
NWTSDOS 107	266	3	293	1	280	1
NWTSDOS 108	260	5	245	6	253	5
MEAN	256		255		255	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		5.33	22.02	10.23	
Genotype (B)	*		9.36	22.52	8.98	
B within A	N.S.		13.24	31.85		
A within B			13.48	32.44		
Grains/earhead						
NWTSDOS 101	37.67	7	43.16	5	40.42	7
NWTSDOS 102	34.74	8	42.73	6	38.73	8
NWTSDOS 103	43.63	3	41.05	8	42.34	4
NWTSDOS 104	49.53	1	49.31	2	49.42	2
NWTSDOS 105	48.72	2	54.51	1	51.62	1
NWTSDOS 106	39.97	5	47.04	3	43.50	3
NWTSDOS 107	41.79	4	42.09	7	41.94	6
NWTSDOS 108	39.41	6	45.16	4	42.29	5
MEAN	41.93		45.63		43.78	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.80	3.31	8.96	
Genotype (B)	**		1.89	4.55	10.59	
B within A	N.S.		2.68	6.44		
A within B			2.63	6.32		
1000 grains weight, g						
NWTSDOS 101	49.73	7	39.80	8	44.77	8
NWTSDOS 102	61.33	1	48.21	1	54.77	1
NWTSDOS 103	56.50	2	45.94	3	51.22	2
NWTSDOS 104	50.07	5	43.52	5	46.80	5
NWTSDOS 105	49.17	8	40.90	6	45.03	6
NWTSDOS 106	53.69	4	44.34	4	49.02	4
NWTSDOS 107	50.03	6	39.97	7	45.00	7
NWTSDOS 108	55.19	3	45.98	2	50.58	3
MEAN	53.21		43.58		48.40	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.39	1.63	4.00	
Genotype (B)	**		0.92	2.21	4.65	
B within A	N.S.		1.30	3.13		
A within B			1.28	3.07		
Date of Sowing:	09.11.2023	12.12.2023	Date of Harvesting:	16.04.2024	26.04.2024	

Table 2.2.10. North Western Plain Zone IR-TS-DOS-TAS Sriganaganagar 2023-24

Genotype	Date of Sowing		Rk	Rk	Mean	Rk
	Timely	Rk				
Yield, q/ha						
NWTSDOS 101	66.49	8	47.34	4	56.92	6
NWTSDOS 102	72.08	3	45.87	6	58.98	4
NWTSDOS 103	71.17	4	49.76	2	60.47	3
NWTSDOS 104	74.16	1	49.19	3	61.68	2
NWTSDOS 105	68.25	7	40.22	8	54.24	8
NWTSDOS 106	73.43	2	52.46	1	62.95	1
NWTSDOS 107	69.44	6	47.08	5	58.26	5
NWTSDOS 108	70.74	5	40.24	7	55.49	7
MEAN	70.72		46.52		58.62	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.20	0.83	1.67	
Genotype (B)	**		1.52	3.65	6.34	
B within A	N.S.		2.15	5.16		
A within B			2.02	4.85		
Earhead/sq.m.						
PBW 826 (I) (C)						
HD 3386						
HD 3086 (C)						
DBW 222 (C)						
HD 2967 (C)						
DBW 187 (C)						
Mean						
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)						
Genotype (B)						
B within A						
A within B						
Grains/earhead						
PBW 826 (I) (C)						
HD 3386						
HD 3086 (C)						
DBW 222 (C)						
HD 2967 (C)						
DBW 187 (C)						
Mean						
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)						
Genotype (B)						
B within A						
A within B						

1000 grains weight, g						
NWTSDOS 101	36.33	8	33.50	8	34.92	8
NWTSDOS 102	51.80	1	46.40	1	49.10	1
NWTSDOS 103	45.23	2	39.50	5	42.37	4
NWTSDOS 104	42.33	6	42.37	3	42.35	5
NWTSDOS 105	39.60	7	38.60	6	39.10	7
NWTSDOS 106	44.37	3	41.43	4	42.90	2
NWTSDOS 107	42.93	5	42.57	2	42.75	3
NWTSDOS 108	43.60	4	36.50	7	40.05	6
MEAN	43.28		40.11		41.69	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.14	0.60	1.70	
Genotype (B)	**		0.23	0.56	1.37	
B within A	**		0.33	0.79		
A within B			0.34	0.82		
Date of Sowing:	09.11.2023	10.12.2023	Date of Harvesting:	24.04.2024	26.04.2024	