

Table 2.3. North Western Plain Zone		IR-LS-DOS-TAS			Centrewise			Yield, q/ha		2023-24
Sowing Time	Genotype	Agra	Delhi	Gurdaspur	Hisar	Ludhiana	Pantnagar	Sriganganagar	Zonal mean	
Late	HD 3059 (C)	54.11	40.80	53.75	50.83	52.23	48.99	51.90	50.37	
	PBW 771 (C)	55.91	41.55	53.02	58.10	54.08	51.06	61.15	53.55	
	HD 3428	53.72	42.45	60.49	57.14	51.22	49.62	57.10	53.11	
	DBW 173 (C)	47.45	43.34	54.74	52.78	43.99	52.27	48.29	48.98	
	JKW 261 (C)	54.89	43.38	56.98	55.95	55.45	50.62	62.96	54.32	
	Mean	53.22	42.30	55.80	54.96	51.39	50.51	56.28	52.07	
Very late	HD 3059 (C)	36.64	33.97	48.15	35.71	20.03	39.77	41.33	36.51	
	PBW 771 (C)	41.07	33.76	46.28	38.02	28.36	41.15	35.75	37.77	
	HD 3428	38.13	35.43	50.73	39.92	23.13	45.24	40.49	39.01	
	DBW 173 (C)	35.79	35.34	47.89	35.16	14.23	37.47	34.13	34.29	
	JKW 261 (C)	39.04	37.83	50.42	37.14	21.79	39.81	34.19	37.17	
	Mean	38.13	35.27	48.69	37.19	21.51	40.69	37.18	36.95	
Mean	HD 3059 (C)	45.37	37.38	50.95	43.27	36.13	44.38	46.62	43.44	
	PBW 771 (C)	48.49	37.65	49.65	48.06	41.22	46.10	48.45	45.66	
	HD 3428	45.93	38.94	55.61	48.53	37.17	47.43	48.80	46.06	
	DBW 173 (C)	41.62	39.34	51.32	43.97	29.11	44.87	41.21	41.63	
	JKW 261 (C)	46.97	40.60	53.70	46.55	38.62	45.22	48.57	45.75	
	Mean	45.67	38.79	52.24	46.07	36.45	45.60	46.73	44.51	
CD (0.05)	Sowing (A)	2.97	4.88	4.71	3.13	4.55	1.72	1.07	0.55	
	Variety (B)	2.51	2.63	4.98	3.86	2.80	2.38	4.92	1.04	
	B within A	3.55	3.72	7.04	5.46	3.95	3.37	6.95	NS	
	A within B	3.49	4.11	6.71	5.12	4.19	3.13	6.24	1.49	
Date of Sowing:	Late	10.12.2023	14.12.2023	11.12.2023	16.12.2023	10.11.2023	11.12.2023	10.12.2023		
	Very Late	05.01.2024	4.1.2024	2.1.2024	05.01.2024	07.01.2024	04.01.2024	02.01.2024		
Date of Harvesting:	Late	09.04.2024	25.04.2024	2.5.2024	24.04.2024	11.05.2024	23.04.2024	24.04.2024		
	Very Late	20.04.2024	30.4.2024	14.5.2024	30.04.2024	11.05.2024	29.04.2024	26.04.2024		

Table 2.4. North Western Plain Zone IR-LS-DOS-TAS Pooled 2023-24

Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	50.37	4	36.51	4	43.44	4
PBW 771 (C)	53.55	2	37.77	2	45.66	3
HD 3428	53.11	3	39.01	1	46.06	1
DBW 173 (C)	48.98	5	34.29	5	41.63	5
JKW 261 (C)	54.32	1	37.17	3	45.75	2
Mean	52.07		36.95		44.51	
	Sowing (A)	Genotype (B)		B within A		A within B
CD (0.05)	0.55	1.04		NS		1.49
Earhead/sq.m.						
HD 3059 (C)	352.64	3	324.86	4	338.75	3
PBW 771 (C)	362.10	2	325.58	3	343.84	2
HD 3428	344.17	5	331.15	2	337.66	4
DBW 173 (C)	346.74	4	304.24	5	325.49	5
JKW 261 (C)	362.60	1	340.69	1	351.65	1
Mean	353.65		325.31		339.48	
	Sowing (A)	Genotype (B)		B within A		A within B
CD (0.05)	8.06	7.76		10.97		13.06
Grains/earhead						
HD 3059 (C)	38.26	4	33.61	3	35.93	3
PBW 771 (C)	37.57	5	33.24	4	35.40	4
HD 3428	39.30	2	35.21	1	37.25	1
DBW 173 (C)	38.36	3	32.18	5	35.27	5
JKW 261 (C)	40.16	1	33.61	2	36.89	2
Mean	38.73		33.57		36.15	
	Sowing (A)	Genotype (B)		B within A		A within B
CD (0.05)	0.80	1.09		NS		1.66
1000 grains weight, g						
HD 3059 (C)	38.58	3	34.86	3	36.72	3
PBW 771 (C)	39.73	2	36.58	1	38.16	1
HD 3428	40.11	1	34.72	4	37.42	2
DBW 173 (C)	38.10	4	35.15	2	36.63	4
JKW 261 (C)	37.22	5	34.26	5	35.74	5
Mean	38.75		35.12		36.93	
	Sowing (A)	Genotype (B)		B within A		A within B
CD (0.05)	0.41	0.54		0.77		0.83

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

Table 2.4.1. North Western Plain Zone		IR-LS-DOS-TAS		Agra	2023-24	
Genotype	Date of Sowing		Very Late	Rk	Mean	Rk
	Late	Rk				
Yield, q/ha						
HD 3059 (C)	54.11	3	36.64	4	45.37	4
PBW 771 (C)	55.91	1	41.07	1	48.49	1
HD 3428	53.72	4	38.13	3	45.93	3
DBW 173 (C)	47.45	5	35.79	5	41.62	5
JKW 261 (C)	54.89	2	39.04	2	46.97	2
Mean	53.22		38.13		45.67	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.49	2.97	4.13	
Genotype (B)	**		0.84	2.51	4.49	
B within A	N.S.		1.18	3.55		
A within B			1.17	3.49		
Earhead/sq.m.						
HD 3059 (C)	276	4	245	4	260	4
PBW 771 (C)	278	1	253	1	266	1
HD 3428	277	3	249	3	263	3
DBW 173 (C)	275	5	244	5	259	5
JKW 261 (C)	277	2	251	2	264	2
Mean	276		248		262	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.64	3.88	0.94	
Genotype (B)	*		1.25	3.76	1.17	
B within A	N.S.		1.77	5.31		
A within B			1.71	5.12		
Grains/earhead						
HD 3059 (C)	49.69	1	40.91	3	45.30	1
PBW 771 (C)	48.48	2	42.05	1	45.27	2
HD 3428	47.90	4	41.13	2	44.52	3
DBW 173 (C)	44.63	5	40.81	4	42.72	5
JKW 261 (C)	48.20	3	40.71	5	44.46	4
Mean	47.78		41.12		44.45	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.17	1.01	1.45	
Genotype (B)	*		0.52	1.57	2.88	
B within A	*		0.74	2.22		
A within B			0.68	2.05		
1000 grains weight, g						
HD 3059 (C)	39.50	4	36.50	4	38.00	4
PBW 771 (C)	41.50	1	38.60	1	40.05	1
HD 3428	40.57	3	37.20	3	38.89	3
DBW 173 (C)	38.75	5	36.00	5	37.38	5
JKW 261 (C)	41.10	2	38.20	2	39.65	2
Mean	40.28		37.30		38.79	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.24	1.48	2.43	
Genotype (B)	**		0.42	1.26	2.66	
B within A	N.S.		0.59	1.78		
A within B			0.58	1.75		
Date of Sowing:	10.12.2023	05.01.2024	Date of Harvesting:	09.04.2024	20.04.2024	

Table 2.4.2. North Western Plain Zone		IR-LS-DOS-TAS			Delhi	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	40.80	5	33.97	4	37.38	5
PBW 771 (C)	41.55	4	33.76	5	37.65	4
HD 3428	42.45	3	35.43	2	38.94	3
DBW 173 (C)	43.34	2	35.34	3	39.34	2
JKW 261 (C)	43.38	1	37.83	1	40.60	1
Mean	42.30		35.27		38.79	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.80	4.88	8.00	
Genotype (B)	N.S.		0.88	2.63	5.55	
B within A	N.S.		1.24	3.72		
A within B			1.37	4.11		
Earhead/sq.m.						
HD 3059 (C)	380	2	368	2	374	2
PBW 771 (C)	359	5	336	5	348	5
HD 3428	375	3	357	3	366	4
DBW 173 (C)	368	4	388	1	378	1
JKW 261 (C)	386	1	346	4	366	3
Mean	374		359		366	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		9.85	59.92	10.41	
Genotype (B)	N.S.		11.29	33.84	7.55	
B within A	N.S.		15.96	47.85		
A within B			17.34	51.99		
Grains/earhead						
HD 3059 (C)	26.44	5	23.43	4	24.93	5
PBW 771 (C)	30.14	1	24.86	3	27.50	2
HD 3428	28.31	4	26.57	2	27.44	3
DBW 173 (C)	30.06	2	23.35	5	26.71	4
JKW 261 (C)	28.39	3	28.55	1	28.47	1
Mean	28.67		25.35		27.01	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.02	6.19	14.58	
Genotype (B)	N.S.		0.96	2.89	8.75	
B within A	N.S.		1.36	4.09		
A within B			1.59	4.76		
1000 grains weight, g						
HD 3059 (C)	40.75	1	39.44	2	40.09	1
PBW 771 (C)	39.03	5	40.49	1	39.76	2
HD 3428	40.18	2	37.84	5	39.01	5
DBW 173 (C)	39.45	4	39.07	3	39.26	3
JKW 261 (C)	39.67	3	38.38	4	39.02	4
Mean	39.81		39.04		39.43	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.82	4.97	8.02	
Genotype (B)	N.S.		0.65	1.96	4.06	
B within A	N.S.		0.92	2.77		
A within B			1.16	3.48		
Date of Sowing:	14.12.2023	4.1.2024	Date of Harvesting:	25.04.2024	30.4.2024	

Table 2.4.3. North Western Plain Zone		IR-LS-DOS-TAS			Durgapura	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	27.97	2	25.87	3	26.92	2
PBW 771 (C)	24.16	5	22.02	4	23.10	5
HD 3428	29.26	1	27.94	1	28.60	1
DBW 173 (C)	27.83	3	20.16	3	24.00	4
JKW 261 (C)	25.18	4	26.45	2	25.82	3
Mean	26.88		24.49		25.69	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.58	3.51	8.71	
Genotype (B)	**		0.76	2.28	7.24	
B within A	*		1.07	3.22		
A within B			1.12	3.36		
Earhead/sq.m.						
HD 3059 (C)	281	2	259	3	270	2
PBW 771 (C)	250	5	241	4	246	5
HD 3428	285	1	276	1	280	1
DBW 173 (C)	278	3	229	5	254	4
JKW 261 (C)	264	4	267	2	266	3
Mean	272		254		263	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		1.56	9.52	2.30	
Genotype (B)	**		2.92	8.75	2.72	
B within A	**		4.13	12.37		
A within B			4.01	12.01		
Grains/earhead						
HD 3059 (C)	23.92	4	26.89	1	25.40	2
PBW 771 (C)	26.62	1	26.18	3	26.40	1
HD 3428	24.78	3	25.86	4	25.32	3
DBW 173 (C)	25.32	2	24.13	5	24.72	5
JKW 261 (C)	23.29	5	26.68	2	24.99	4
Mean	24.78		25.95		25.37	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.39	2.35	5.89	
Genotype (B)	N.S.		0.98	2.93	9.44	
B within A	N.S.		1.38	4.15		
A within B			1.30	3.89		
1000 grains weight, g						
HD 3059 (C)	41.50	1	37.37	2	39.43	2
PBW 771 (C)	36.50	5	35.00	5	35.75	5
HD 3428	41.40	2	39.33	1	40.37	1
DBW 173 (C)	39.67	4	36.50	4	38.08	4
JKW 261 (C)	41.00	3	37.17	3	39.08	3
Mean	40.01		37.07		38.54	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.16	0.99	1.64	
Genotype (B)	*		0.91	2.72	5.77	
B within A	N.S.		1.28	3.85		
A within B			1.16	3.48		
Date of Sowing:	12.12.2023	5.1.2024	Date of Harvesting:	27.3.2024	10.4.2024	

Table 2.4.4. North Western Plain Zone		IR-LS-DOS-TAS			Gurdaspur	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	53.75	4	48.15	3	50.95	4
PBW 771 (C)	53.02	5	46.28	5	49.65	5
HD 3428	60.49	1	50.73	1	55.61	1
DBW 173 (C)	54.74	3	47.89	4	51.32	3
JKW 261 (C)	56.98	2	50.42	2	53.70	2
Mean	55.80		48.69		52.24	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.77	4.71	5.74	
Genotype (B)	N.S.		1.66	4.98	7.79	
B within A	N.S.		2.35	7.04		
A within B			2.24	6.71		
Earhead/sq.m.						
HD 3059 (C)	332	4	290	4	311	4
PBW 771 (C)	334	3	292	2	313	3
HD 3428	306	5	282	5	294	5
DBW 173 (C)	345	2	292	3	318	2
JKW 261 (C)	390	1	330	1	360	1
Mean	341		297		319	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		5.47	33.29	6.64	
Genotype (B)	**		7.12	21.34	5.46	
B within A	N.S.		10.07	30.18		
A within B			10.54	31.59		
Grains/earhead						
HD 3059 (C)	41.44	2	42.44	2	41.94	2
PBW 771 (C)	40.44	3	39.87	4	40.16	4
HD 3428	47.87	1	44.59	1	46.23	1
DBW 173 (C)	39.23	4	41.50	3	40.36	3
JKW 261 (C)	37.35	5	39.38	5	38.37	5
Mean	41.27		41.56		41.41	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.03	6.29	9.66	
Genotype (B)	N.S.		1.72	5.17	10.20	
B within A	N.S.		2.44	7.31		
A within B			2.41	7.24		
1000 grains weight, g						
HD 3059 (C)	39.07	5	39.19	4	39.13	5
PBW 771 (C)	39.31	3	39.60	3	39.46	3
HD 3428	41.43	1	40.44	1	40.94	1
DBW 173 (C)	40.66	2	39.95	2	40.30	2
JKW 261 (C)	39.19	4	39.18	5	39.19	4
Mean	39.93		39.67		39.80	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.52	3.14	5.01	
Genotype (B)	*		0.41	1.22	2.51	
B within A	N.S.		0.58	1.73		
A within B			0.73	2.18		
Date of Sowing:	11.12.2023	2.1.2024	Date of Harvesting:	2.5.2024	14.5.2024	

Table 2.4.5. North Western Plain Zone		IR-LS-DOS-TAS			Hisar	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	50.83	5	35.71	4	43.27	5
PBW 771 (C)	58.10	1	38.02	2	48.06	2
HD 3428	57.14	2	39.92	1	48.53	1
DBW 173 (C)	52.78	4	35.16	5	43.97	4
JKW 261 (C)	55.95	3	37.14	3	46.55	3
Mean	54.96		37.19		46.07	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.52	3.13	4.33	
Genotype (B)	*		1.29	3.86	6.84	
B within A	N.S.		1.82	5.46		
A within B			1.71	5.12		
Earhead/sq.m.						
HD 3059 (C)	372	4	297	5	335	4
PBW 771 (C)	407	1	321	1	364	1
HD 3428	397	2	312	3	355	3
DBW 173 (C)	364	5	300	4	332	5
JKW 261 (C)	395	3	317	2	356	2
Mean	387		310		348	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		4.46	27.13	4.96	
Genotype (B)	**		6.28	18.83	4.42	
B within A	N.S.		8.88	26.63		
A within B			9.11	27.31		
Grains/earhead						
HD 3059 (C)	43.80	4	45.41	2	44.60	3
PBW 771 (C)	40.18	5	38.11	5	39.14	5
HD 3428	44.11	3	45.65	1	44.88	2
DBW 173 (C)	45.76	2	38.94	4	42.35	4
JKW 261 (C)	51.74	1	44.31	3	48.03	1
Mean	45.12		42.48		43.80	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.48	2.95	4.28	
Genotype (B)	**		1.43	4.30	8.02	
B within A	N.S.		2.03	6.08		
A within B			1.88	5.63		
1000 grains weight, g						
HD 3059 (C)	31.30	4	26.43	4	28.87	4
PBW 771 (C)	35.57	1	31.13	1	33.35	1
HD 3428	32.70	2	28.10	3	30.40	3
DBW 173 (C)	31.73	3	30.17	2	30.95	2
JKW 261 (C)	27.40	5	26.43	5	26.92	5
Mean	31.74		28.45		30.10	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.17	1.05	2.23	
Genotype (B)	**		0.42	1.26	3.43	
B within A	**		0.60	1.78		
A within B			0.56	1.68		
Date of Sowing:	16.12.2023	05.01.2024	Date of Harvesting:	24.04.2024	30.04.2024	

Table 2.4.6. North Western Plain Zone		IR-LS-DOS-TAS			Jammu	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	38.53	1	32.43	1	35.48	1
PBW 771 (C)	36.40	3	28.88	3	32.64	3
HD 3428	36.14	4	27.58	4	31.86	4
DBW 173 (C)	37.26	2	31.23	2	34.25	2
JKW 261 (C)	34.33	5	26.86	5	30.60	5
Mean	36.53		29.40		32.97	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.99	6.02	11.63	
Genotype (B)	*		0.95	2.85	7.07	
B within A	N.S.		1.35	4.03		
A within B			1.56	4.67		
Earhead/sq.m.						
HD 3059 (C)	424	2	391	1	407	2
PBW 771 (C)	419	3	379	3	399	3
HD 3428	410	4	366	4	388	4
DBW 173 (C)	433	1	383	2	408	1
JKW 261 (C)	405	5	353	5	379	5
Mean	418		374		396	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		1.40	8.50	1.36	
Genotype (B)	*		6.96	20.86	4.30	
B within A	N.S.		9.84	29.51		
A within B			8.91	26.72		
Grains/earhead						
HD 3059 (C)	20.31	1	19.39	1	19.85	1
PBW 771 (C)	19.69	3	17.94	5	18.81	5
HD 3428	20.13	2	18.33	3	19.23	2
DBW 173 (C)	19.11	5	18.98	2	19.05	3
JKW 261 (C)	19.58	4	18.16	4	18.87	4
Mean	19.76		18.56		19.16	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.36	2.17	7.20	
Genotype (B)	N.S.		0.63	1.89	8.07	
B within A	N.S.		0.89	2.68		
A within B			0.87	2.62		
1000 grains weight, g						
HD 3059 (C)	44.80	2	42.93	2	43.86	2
PBW 771 (C)	44.19	3	42.55	3	43.37	3
HD 3428	43.82	4	41.33	5	42.58	5
DBW 173 (C)	44.81	1	42.94	1	43.88	1
JKW 261 (C)	43.34	5	42.01	4	42.68	4
Mean	44.19		42.35		43.27	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.50	3.05	4.48	
Genotype (B)	N.S.		0.94	2.81	5.31	
B within A	N.S.		1.33	3.98		
A within B			1.29	3.86		
Date of Sowing:	13.12.2023	5.1.2024	Date of Harvesting:	06.05.2024	10.05.2024	

Table 2.4.7. North Western Plain Zone		IR-LS-DOS-TAS			Karnal	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	35.85	5	33.84	3	34.85	4
PBW 771 (C)	38.51	3	32.68	4	35.59	3
HD 3428	41.84	2	35.52	1	38.68	2
DBW 173 (C)	36.67	4	27.50	5	32.08	5
JKW 261 (C)	42.60	1	35.14	2	38.87	1
Mean	39.09		32.94		36.01	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.65	10.01	17.69	
Genotype (B)	*		1.31	3.94	8.93	
B within A	N.S.		1.86	5.57		
A within B			2.34	7.01		
Earhead/sq.m.						
HD 3059 (C)	471	4	410	4	440	4
PBW 771 (C)	508	2	424	3	466	3
HD 3428	461	5	473	2	467	2
DBW 173 (C)	476	3	390	5	433	5
JKW 261 (C)	533	1	493	1	513	1
Mean	490		438		464	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		18.73	113.96	15.64	
Genotype (B)	*		16.26	48.75	8.59	
B within A	N.S.		23.00	68.95		
A within B			27.82	83.40		
Grains/earhead						
HD 3059 (C)	22.30	3	22.77	1	22.54	3
PBW 771 (C)	22.13	4	21.86	3	22.00	4
HD 3428	25.23	2	22.08	2	23.66	1
DBW 173 (C)	20.39	5	19.89	5	20.14	5
JKW 261 (C)	25.60	1	21.04	4	23.32	2
Mean	23.13		21.53		22.33	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.42	2.55	7.27	
Genotype (B)	N.S.		0.90	2.70	9.88	
B within A	N.S.		1.27	3.82		
A within B			1.21	3.64		
1000 grains weight, g						
HD 3059 (C)	34.33	4	36.05	1	35.19	2
PBW 771 (C)	34.37	3	35.34	3	34.85	4
HD 3428	36.02	2	34.18	4	35.10	3
DBW 173 (C)	37.85	1	35.76	2	36.81	1
JKW 261 (C)	31.32	5	33.91	5	32.62	5
Mean	34.78		35.05		34.91	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.51	3.10	5.65	
Genotype (B)	**		0.34	1.02	2.39	
B within A	**		0.48	1.44		
A within B			0.67	2.00		
Date of Sowing:	16.12.2023	04.01.2024	Date of Harvesting:	29.04.2024	29.04.2024	

Table 2.4.8. North Western Plain Zone		IR-LS-DOS-TAS		Ludhiana	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	52.23	3	20.03	4	36.13	4
PBW 771 (C)	54.08	2	28.36	1	41.22	1
HD 3428	51.22	4	23.13	2	37.17	3
DBW 173 (C)	43.99	5	14.23	5	29.11	5
JKW 261 (C)	55.45	1	21.79	3	38.62	2
Mean	51.39		21.51		36.45	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.75	4.55	7.95	
Genotype (B)	**		0.93	2.80	6.27	
B within A	N.S.		1.32	3.95		
A within B			1.40	4.19		
Earhead/sq.m.						
HD 3059 (C)	381	1	285	4	333	4
PBW 771 (C)	371	3	307	2	339	1
HD 3428	356	5	313	1	334	3
DBW 173 (C)	364	4	269	5	316	5
JKW 261 (C)	379	2	290	3	334	2
Mean	370		293		331	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		5.98	36.40	6.99	
Genotype (B)	N.S.		8.49	25.45	6.27	
B within A	N.S.		12.00	35.99		
A within B			12.29	36.85		
Grains/earhead						
HD 3059 (C)	38.49	1	21.95	4	30.22	4
PBW 771 (C)	36.97	3	26.78	1	31.88	1
HD 3428	36.08	4	24.94	2	30.51	3
DBW 173 (C)	35.63	5	15.86	5	25.74	5
JKW 261 (C)	38.48	2	23.51	3	30.99	2
Mean	37.13		22.61		29.87	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.65	3.96	8.44	
Genotype (B)	N.S.		1.83	5.49	15.02	
B within A	N.S.		2.59	7.77		
A within B			2.41	7.22		
1000 grains weight, g						
HD 3059 (C)	36.18	4	32.73	3	34.45	4
PBW 771 (C)	39.43	2	34.81	1	37.12	1
HD 3428	40.39	1	29.91	5	35.15	3
DBW 173 (C)	34.20	5	34.00	2	34.10	5
JKW 261 (C)	38.03	3	32.33	4	35.18	2
Mean	37.65		32.75		35.20	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.39	2.37	4.28	
Genotype (B)	N.S.		1.24	3.72	8.63	
B within A	N.S.		1.75	5.26		
A within B			1.62	4.85		
Date of Sowing:	10.11.2023	07.01.2024	Date of Harvesting:	11.05.2024	11.05.2024	

Table 2.4.9. North Western Plain Zone		IR-LS-DOS-TAS			Pantnagar	2023-24
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	48.99	5	39.77	4	44.38	5
PBW 771 (C)	51.06	2	41.15	2	46.10	2
HD 3428	49.62	4	45.24	1	47.43	1
DBW 173 (C)	52.27	1	37.47	5	44.87	4
JKW 261 (C)	50.62	3	39.81	3	45.22	3
Mean	50.51		40.69		45.60	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.28	1.72	2.39	
Genotype (B)	N.S.		0.79	2.38	4.26	
B within A	**		1.12	3.37		
A within B			1.04	3.13		
Earhead/sq.m.						
HD 3059 (C)	376	2	464	3	420	3
PBW 771 (C)	424	1	444	4	434	1
HD 3428	355	4	474	2	415	4
DBW 173 (C)	365	3	333	5	349	5
JKW 261 (C)	349	5	510	1	430	2
Mean	374		445		409	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		13.62	82.88	12.88	
Genotype (B)	**		11.76	35.25	7.03	
B within A	**		16.63	49.85		
A within B			20.16	60.46		
Grains/earhead						
HD 3059 (C)	29.68	4	27.53	4	28.60	4
PBW 771 (C)	29.18	5	27.78	3	28.48	5
HD 3428	31.51	3	28.36	2	29.93	3
DBW 173 (C)	34.82	2	32.64	1	33.73	1
JKW 261 (C)	36.83	1	25.22	5	31.03	2
Mean	32.40		28.31		30.35	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.93	5.68	11.90	
Genotype (B)	*		1.02	3.05	8.20	
B within A	*		1.44	4.31		
A within B			1.59	4.76		
1000 grains weight, g						
HD 3059 (C)	44.11	2	31.25	4	37.68	3
PBW 771 (C)	41.66	3	33.43	3	37.55	4
HD 3428	44.78	1	33.74	2	39.26	1
DBW 173 (C)	41.36	4	34.66	1	38.01	2
JKW 261 (C)	39.52	5	31.16	5	35.34	5
Mean	42.29		32.85		37.57	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.37	2.25	3.82	
Genotype (B)	**		0.53	1.59	3.47	
B within A	**		0.75	2.25		
A within B			0.77	2.30		
Date of Sowing:	11.12.2023	04.01.2024	Date of Harvesting:	23.04.2024	29.04.2024	

Table 2.4.10. North Western Plain Zone		IR-LS-DOS-TAS-TAS		Sriganganagar	2023-24	
Genotype	Date of Sowing				Mean	Rk
	Late	Rk	Very Late	Rk		
Yield, q/ha						
HD 3059 (C)	51.90	4	41.33	1	46.62	4
PBW 771 (C)	61.15	2	35.75	3	48.45	3
HD 3428	57.10	3	40.49	2	48.80	1
DBW 173 (C)	48.29	5	34.13	5	41.21	5
JKW 261 (C)	62.96	1	34.19	4	48.57	2
Mean	56.28		37.18		46.73	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.18	1.07	1.46	
Genotype (B)	*		1.64	4.92	8.60	
B within A	**		2.32	6.95		
A within B			2.08	6.24		
Earhead/sq.m.						
HD 3059 (C)						
PBW 771 (C)						
HD 3428						
DBW 173 (C)						
JKW 261 (C)						
Mean						
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)						
Genotype (B)						
B within A						
A within B						
Grains/earhead						
HD 3059 (C)						
PBW 771 (C)						
HD 3428						
DBW 173 (C)						
JKW 261 (C)						
Mean						
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)						
Genotype (B)						
B within A						
A within B						
1000 grains weight, g						
HD 3059 (C)	39.17	4	38.47	1	38.82	2
PBW 771 (C)	41.63	1	38.00	2	39.82	1
HD 3428	40.73	2	35.83	3	38.28	3
DBW 173 (C)	40.57	3	32.23	5	36.40	4
JKW 261 (C)	35.63	5	34.17	4	34.90	5
Mean	39.55		35.74		37.64	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.04	0.25	0.41	
Genotype (B)	**		0.11	0.33	0.72	
B within A	**		0.16	0.47		
A within B			0.15	0.44		
Date of Sowing:	10.12.2023	02.01.2024	Date of Harvesting:	24.04.2023	26.04.2024	