

Table 2.1. North Western Plain Zone		IR-DOS-TAS				Centrewise	Yield, q/ha	2022-23		
Sowing Time	Genotype	Agra	Delhi	Gurdaspur	Hisar	Karnal	Ludhiana	Pantnagar	Sriganganagar	Zonal mean
Timely	PBW 826 (I) (C)	52.22	63.67	67.13	65.83	63.77	67.83	58.16	60.07	62.34
	HD 3386	60.66	56.87	65.60	60.87	63.17	68.28	58.79	57.76	61.50
	HD 3086 (C)	59.32	52.87	58.68	46.77	56.90	58.64	49.27	60.61	55.38
	DBW 222 (C)	51.30	57.27	60.63	62.95	65.32	69.72	54.56	62.46	60.53
	HD 2967 (C)	61.99	62.97	62.50	45.32	56.39	61.67	44.43	62.54	57.22
	DBW 187 (C)	58.33	55.10	68.04	56.07	63.37	68.03	50.27	67.08	60.79
	Mean	57.30	58.12	63.76	56.30	61.49	65.69	52.58	61.75	59.63
Late	PBW 826 (I) (C)	44.38	54.07	53.08	54.26	53.41	43.83	42.84	33.66	47.44
	HD 3386	51.63	50.83	57.36	53.18	54.37	54.81	42.39	29.59	49.27
	HD 3086 (C)	49.47	49.93	55.32	41.38	40.75	48.36	34.09	25.06	43.05
	DBW 222 (C)	43.19	49.63	62.06	55.12	55.63	52.22	43.07	25.47	48.30
	HD 2967 (C)	54.26	48.30	55.58	33.49	46.87	43.14	34.71	33.97	43.79
	DBW 187 (C)	47.95	48.80	57.04	46.88	52.54	50.36	40.88	31.66	47.01
	Mean	48.48	50.26	56.74	47.38	50.60	48.79	39.66	29.90	46.48
Mean	PBW 826 (I) (C)	48.30	58.87	60.10	60.05	58.59	55.83	50.50	46.87	54.89
	HD 3386	56.15	53.85	61.48	57.02	58.77	61.54	50.59	43.67	55.38
	HD 3086 (C)	54.40	51.40	57.00	44.08	48.83	53.50	41.68	42.83	49.21
	DBW 222 (C)	47.25	53.45	61.34	59.03	60.48	60.97	48.82	43.97	54.41
	HD 2967 (C)	58.13	55.63	59.04	39.40	51.63	52.40	39.57	48.25	50.51
	DBW 187 (C)	53.14	51.95	62.54	51.48	57.96	59.19	45.58	49.37	53.90
	Mean	52.89	54.19	60.25	51.84	56.04	57.24	46.12	45.83	53.05
CD (0.05)	Sowing (A)	0.50	NS	4.38	2.70	3.11	2.26	1.65	1.48	0.70
	Variety (B)	1.29	2.72	NS	2.54	1.75	4.23	2.65	1.14	1.06
	B within A	NS	3.85	NS	NS	2.48	NS	NS	1.62	NS
	A within B	NS	5.15	NS	NS	2.91	NS	NS	1.72	NS
Date of Sowing:	Timely	08.11.2022	08.11.2022	10.11.2022	11.11.2022	11.11.2022	05.11.2022	05.11.2022	05.11.2022	
	Late	16.12.2022	16.12.2022	10.12.2022	12.12.2022	16.12.2022	12.12.2022	13.12.2022	15.12.2022	
Date of Harvesting:	Timely	11.04.2023	11.04.2023	21.04.2023	16.04.2023	07.04.2023	26.04.2023	11.04.2023	18.04.2023	
	Late	13.04.2023	13.04.2023	30.04.2023	21.04.2023	17.04.2023		24.04.2023	29.04.2023	

Table 2.2. North Western Plain Zone		IR-DOS-TAS		Pooled		2022-23	
Variety	Date of Sowing				Mean	Rk	
	Timely	Rk	Late	Rk			
Yield, q/ha							
PBW 826 (I) (C)	62.34	1	47.44	3	54.89	2	
HD 3386	61.50	2	49.27	1	55.38	1	
HD 3086 (C)	55.38	6	43.05	6	49.21	6	
DBW 222 (C)	60.53	4	48.30	2	54.41	3	
HD 2967 (C)	57.22	5	43.79	5	50.51	5	
DBW 187 (C)	60.79	3	47.01	4	53.90	4	
Mean	59.63		46.48		53.05		
	Sowing (A)	Variety (B)	B within A		A within B		
CD (0.05)	0.70	1.06	NS		NS		
Earhead/sq.m.							
PBW 826 (I) (C)	410	3	361	5	386	4	
HD 3386	415	2	370	2	393	1	
HD 3086 (C)	406	5	373	1	389	3	
DBW 222 (C)	407	4	360	6	384	5	
HD 2967 (C)	403	6	363	4	383	6	
DBW 187 (C)	416	1	368	3	392	2	
Mean	410		366		388		
	Sowing (A)	Variety (B)	B within A		A within B		
CD (0.05)	6.04	NS	NS		NS		
Grains/earhead							
PBW 826 (I) (C)	36.11	4	33.57	6	34.84	4	
HD 3386	33.44	6	34.41	4	33.92	6	
HD 3086 (C)	34.30	5	35.06	3	34.68	5	
DBW 222 (C)	37.39	1	36.87	1	37.13	1	
HD 2967 (C)	37.25	2	35.35	2	36.30	2	
DBW 187 (C)	36.35	3	34.26	5	35.31	3	
Mean	35.81		34.92		35.36		
	Sowing (A)	Variety (B)	B within A		A within B		
CD (0.05)	0.82	1.48	NS		NS		
1000 grains weight, g							
PBW 826 (I) (C)	43.71	2	39.55	2	41.63	2	
HD 3386	45.59	1	39.64	1	42.62	1	
HD 3086 (C)	41.07	4	34.68	6	37.88	5	
DBW 222 (C)	40.66	5	37.04	4	38.85	4	
HD 2967 (C)	38.99	6	35.29	5	37.14	6	
DBW 187 (C)	41.50	3	38.16	3	39.83	3	
Mean	41.92		37.39		39.66		
	Sowing (A)	Variety (B)	B within A		A within B		
CD (0.05)	1.41	1.09	1.86		1.87		

Centres: Agra, Delhi, Gurdaspur, Hisar, Karnal, Ludhiana, Pantnagar and Sriganganagar

Table 2.2.1.	North Western Plain Zone		IR-DOS-TAS		Agra	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	52.22	5	44.38	5	48.30	5
HD 3386	60.66	2	51.63	2	56.15	2
HD 3086 (C)	59.32	3	49.47	3	54.40	3
DBW 222 (C)	51.30	6	43.19	6	47.25	6
HD 2967 (C)	61.99	1	54.26	1	58.13	1
DBW 187 (C)	58.33	4	47.95	4	53.14	4
Mean	57.30		48.48		52.89	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.12	0.50	0.98	
Genotype (B)	**		0.53	1.29	2.45	
B within A	N.S.		0.75	1.83		
A within B			0.69	1.69		
Earhead/sq.m.						
PBW 826 (I) (C)	356	5	342	5	349	5
HD 3386	368	2	353	2	360	2
HD 3086 (C)	365	3	350	3	357	3
DBW 222 (C)	352	6	338	6	345	6
HD 2967 (C)	371	1	356	1	364	1
DBW 187 (C)	363	4	348	4	355	4
Mean	362		348		355	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.69	2.87	0.83	
Genotype (B)	**		1.30	3.18	0.90	
B within A	N.S.		1.84	4.50		
A within B			1.82	4.44		
Grains/earhead						
PBW 826 (I) (C)	37.77	6	35.73	5	36.75	6
HD 3386	39.62	4	38.48	2	39.05	2
HD 3086 (C)	39.76	2	37.51	3	38.63	4
DBW 222 (C)	38.53	5	35.52	6	37.02	5
HD 2967 (C)	39.68	3	38.98	1	39.33	1
DBW 187 (C)	40.27	1	37.35	4	38.81	3
Mean	39.27		37.26		38.27	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.11	0.44	1.17	
Genotype (B)	**		0.34	0.82	2.15	
B within A	N.S.		0.48	1.16		
A within B			0.45	1.09		
1000 grains weight, g						
PBW 826 (I) (C)	38.80	5	36.30	5	37.55	5
HD 3386	41.70	2	38.00	2	39.85	2
HD 3086 (C)	40.90	3	37.70	3	39.30	3
DBW 222 (C)	37.86	6	35.98	6	36.92	6
HD 2967 (C)	42.14	1	39.10	1	40.62	1
DBW 187 (C)	39.96	4	36.90	4	38.43	4
Mean	40.23		37.33		38.78	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.05	0.22	0.58	
Genotype (B)	**		0.53	1.30	3.36	
B within A	N.S.		0.75	1.83		
A within B			0.69	1.68		
Date of Sowing:	08.11.2022	08.12.2022	Date of Harvesting:	24.03.2023	08.04.2023	

Table 2.2.2	North Western Plain Zone		IR-DOS-TAS		Delhi	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	63.67	1	54.07	1	58.87	1
HD 3386	56.87	4	50.83	2	53.85	3
HD 3086 (C)	52.87	6	49.93	3	51.40	6
DBW 222 (C)	57.27	3	49.63	4	53.45	4
HD 2967 (C)	62.97	2	48.30	6	55.63	2
DBW 187 (C)	55.10	5	48.80	5	51.95	5
Mean	58.12		50.26		54.19	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		1.55	6.38	12.10	
Genotype (B)	**		1.12	2.72	5.05	
B within A	*		1.58	3.85		
A within B			2.11	5.15		
Earhead/sq.m.						
PBW 826 (I) (C)	421	3	395	1	408	1
HD 3386	418	4	392	4	405	3
HD 3086 (C)	423	1	393	3	408	2
DBW 222 (C)	421	2	385	5	403	4
HD 2967 (C)	410	5	377	6	394	6
DBW 187 (C)	402	6	393	2	398	5
Mean	416		389		402	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		3.47	14.34	3.66	
Genotype (B)	N.S.		4.50	10.97	2.74	
B within A	N.S.		6.36	15.52		
A within B			6.77	16.51		
Grains/earhead						
PBW 826 (I) (C)	36.18	2	33.07	1	34.62	2
HD 3386	30.60	5	31.06	5	30.83	6
HD 3086 (C)	29.47	6	32.44	3	30.96	5
DBW 222 (C)	33.59	3	32.02	4	32.80	3
HD 2967 (C)	37.55	1	32.59	2	35.07	1
DBW 187 (C)	32.47	4	29.80	6	31.13	4
Mean	33.31		31.83		32.57	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.78	3.22	10.17	
Genotype (B)	**		0.91	2.21	6.81	
B within A	N.S.		1.28	3.12		
A within B			1.41	3.43		
1000 grains weight, g						
PBW 826 (I) (C)	41.83	4	41.41	3	41.62	3
HD 3386	44.56	1	41.77	1	43.17	1
HD 3086 (C)	42.58	2	39.24	6	40.91	4
DBW 222 (C)	40.55	6	40.27	4	40.41	5
HD 2967 (C)	40.93	5	39.54	5	40.24	6
DBW 187 (C)	42.19	3	41.69	2	41.94	2
Mean	42.11		40.65		41.38	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.38	1.58	3.92	
Genotype (B)	N.S.		0.72	1.76	4.27	
B within A	N.S.		1.02	2.49		
A within B			1.01	2.46		
Date of Sowing:	08.11.2022	16.12.2022	Date of Harvesting:	11.04.2023	13.04.2023	

Genotype	Date of Sowing		Late	Rk	Mean	Rk
	Timely	Rk				
Yield, q/ha						
PBW 826 (I) (C)	45.88	2	38.34	1	42.11	
HD 3386	43.55	3	35.78	2	39.67	3
HD 3086 (C)	41.33	4	26.85	6	37.09	5
DBW 222 (C)	40.54	5	33.09	4	36.82	4
HD 2967 (C)	49.26	1	33.93	3	41.60	2
DBW 187 (C)	31.20	6	29.93	5	30.57	6
Mean	41.96		32.69		37.47	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.79	3.28	8.98	
Genotype (B)	**		1.44	3.51	9.42	
B within A	*		2.04	4.97		
A within B			2.02	4.93		
Earhead/sq.m.						
PBW 826 (I) (C)	314	2	284	1	299	1
HD 3386	304	3	277	2	290	3
HD 3086 (C)	300	4	242	6	271	5
DBW 222 (C)	298	5	264	4	281	4
HD 2967 (C)	323	1	268	3	296	2
DBW 187 (C)	256	6	257	5	257	6
Mean	299		265		282	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		1.58	6.51	2.37	
Genotype (B)	**		5.55	13.54	4.82	
B within A	*		7.85	19.14		
A within B			7.34	17.89		
Grains/earhead						
PBW 826 (I) (C)	34.50	4	36.43	1	35.46	3
HD 3386	37.51	2	34.12	2	35.82	2
HD 3086 (C)	33.09	5	29.23	6	31.16	5
DBW 222 (C)	34.86	3	32.07	4	33.47	4
HD 2967 (C)	38.86	1	33.06	3	35.96	1
DBW 187 (C)	30.28	6	30.78	5	30.53	6
Mean	34.85		32.62		33.73	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.79	3.26	9.93	
Genotype (B)	*		1.26	3.07	9.13	
B within A	N.S.		1.78	4.34		
A within B			1.81	4.40		
1000 grains weight, g						
PBW 826 (I) (C)	42.30	1	37.30	6	39.80	2
HD 3386	38.11	6	37.95	4	38.03	6
HD 3086 (C)	41.58	2	38.05	3	39.81	1
DBW 222 (C)	39.27	4	39.00	1	39.14	3
HD 2967 (C)	39.16	5	38.43	2	38.80	5
DBW 187 (C)	40.11	3	37.85	5	38.98	4
Mean	40.09		38.10		39.09	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.58	2.39	6.29	
Genotype (B)	N.S.		1.07	2.61	6.71	
B within A	N.S.		1.51	3.70		
A within B			1.50	3.66		
Date of Sowing:	05.11.2022	12.12.2022	Date of Harvesting:	19.03.2023	06.04.2023	

Table 2.2.4	North Western Plain Zone		IR-DOS-TAS		Gurdaspur	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	67.13	2	53.08	6	60.10	4
HD 3386	65.60	3	57.36	2	61.48	2
HD 3086 (C)	58.68	6	55.32	5	57.00	6
DBW 222 (C)	60.63	5	62.06	1	61.34	3
HD 2967 (C)	62.50	4	55.58	4	59.04	5
DBW 187 (C)	68.04	1	57.04	3	62.54	1
Mean	63.76		56.74		60.25	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		1.06	4.38	7.48	
Genotype (B)	N.S.		2.38	5.82	9.69	
B within A	N.S.		3.37	8.22		
A within B			3.26	7.94		
Earhead/sq.m.						
PBW 826 (I) (C)	354	5	364	3	359	5
HD 3386	378	1	365	2	372	1
HD 3086 (C)	360	4	375	1	368	2
DBW 222 (C)	347	6	335	6	341	6
HD 2967 (C)	367	3	364	3	365	4
DBW 187 (C)	372	2	360	5	366	3
Mean	363		360		362	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		16.23	67.02	19.04	
Genotype (B)	N.S.		10.22	24.94	6.92	
B within A	N.S.		14.46	35.26		
A within B			20.92	51.03		
Grains/earhead						
PBW 826 (I) (C)	48.43	1	36.92	6	42.68	3
HD 3386	42.92	4	38.84	4	40.88	4
HD 3086 (C)	40.35	6	37.13	5	38.74	6
DBW 222 (C)	43.75	3	47.54	1	45.65	1
HD 2967 (C)	42.46	5	39.00	3	40.73	5
DBW 187 (C)	45.99	2	41.96	2	43.98	2
Mean	43.99		40.23		42.11	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.79	3.26	9.93	
Genotype (B)	*		1.26	3.07	9.13	
B within A	N.S.		1.78	4.34		
A within B			1.81	4.40		
1000 grains weight, g						
PBW 826 (I) (C)	39.63	5	39.52	3	39.58	5
HD 3386	40.71	3	40.48	1	40.60	1
HD 3086 (C)	40.98	1	39.82	2	40.40	2
DBW 222 (C)	40.11	4	39.26	4	39.69	4
HD 2967 (C)	40.72	2	39.18	5	39.95	3
DBW 187 (C)	39.59	6	38.07	6	38.83	6
Mean	40.29		39.39		39.84	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.30	1.22	3.15	
Genotype (B)	N.S.		0.75	1.84	4.63	
B within A	N.S.		1.07	2.60		
A within B			1.02	2.48		
Date of Sowing:	10.11.2022	10.12.2022	Date of Harvesting:	21.04.2023	30.04.2023	

Table 2.2.5	North Western Plain Zone		IR-DOS-TAS		Hisar	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	65.83	1	54.26	2	60.05	1
HD 3386	60.87	3	53.18	3	57.02	3
HD 3086 (C)	46.77	5	41.38	5	44.08	5
DBW 222 (C)	62.95	2	55.12	1	59.03	2
HD 2967 (C)	45.32	6	33.49	6	39.40	6
DBW 187 (C)	56.07	4	46.88	4	51.48	4
Mean	56.30		47.38		51.84	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.65	2.70	5.35	
Genotype (B)	**		1.04	2.54	4.92	
B within A	N.S.		1.47	3.59		
A within B			1.50	3.65		
Earhead/sq.m.						
PBW 826 (I) (C)	443	1	410	3	427	2
HD 3386	442	2	415	1	428	1
HD 3086 (C)	438	3	413	2	426	3
DBW 222 (C)	418	5	385	5	402	5
HD 2967 (C)	387	6	352	6	369	6
DBW 187 (C)	422	4	390	4	406	4
Mean	425		394		410	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		3.92	16.20	4.06	
Genotype (B)	**		11.18	27.27	6.68	
B within A	N.S.		15.81	38.56		
A within B			14.95	36.48		
Grains/earhead						
PBW 826 (I) (C)	33.05	4	32.01	3	32.53	3
HD 3386	31.00	5	30.66	4	30.83	5
HD 3086 (C)	28.59	6	28.41	6	28.50	6
DBW 222 (C)	38.24	1	39.26	1	38.75	1
HD 2967 (C)	33.53	3	29.82	5	31.67	4
DBW 187 (C)	34.86	2	33.36	2	34.11	2
Mean	33.21		32.25		32.73	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.48	1.97	6.17	
Genotype (B)	**		1.19	2.90	8.90	
B within A	N.S.		1.68	4.10		
A within B			1.61	3.92		
1000 grains weight, g						
PBW 826 (I) (C)	45.18	1	41.62	2	43.40	1
HD 3386	44.72	2	42.05	1	43.39	2
HD 3086 (C)	37.40	5	35.29	5	36.35	5
DBW 222 (C)	39.51	3	36.62	3	38.07	3
HD 2967 (C)	35.12	6	32.01	6	33.57	6
DBW 187 (C)	38.27	4	36.06	4	37.16	4
Mean	40.03		37.28		38.65	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.38	1.57	4.17	
Genotype (B)	**		0.36	0.88	2.29	
B within A	N.S.		0.51	1.25		
A within B			0.60	1.47		
Date of Sowing:	11.11.2022	12.12.2022	Date of Harvesting:	16.04.2023	21.04.2023	

Genotype	Date of Sowing		Late	Rk	Mean	Rk
	Timely	Rk				
Yield, q/ha						
PBW 826 (I) (C)	47.89	2	40.03	2	43.96	2
HD 3386	47.00	4	39.49	4	43.25	4
HD 3086 (C)	46.46	5	43.51	1	44.12	1
DBW 222 (C)	47.28	3	37.69	6	42.48	6
HD 2967 (C)	45.80	6	39.64	3	42.72	5
DBW 187 (C)	48.61	1	39.10	5	43.86	3
Mean	47.17		39.91		43.54	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.04	0.32	0.28	
Genotype (B)	N.S.		0.71	1.81	3.25	
B within A	N.S.		1.00	2.56		
A within B			0.91	2.34		
Earhead/sq.m.						
PBW 826 (I) (C)	432	4	394	1	413	2
HD 3386	437	3	388	2	412	3
HD 3086 (C)	444	2	351	6	397	5
DBW 222 (C)	400	6	355	5	377	6
HD 2967 (C)	427	5	381	3	404	4
DBW 187 (C)	466	1	380	4	423	1
Mean	434		375		404	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		6.25	55.77	5.35	
Genotype (B)	N.S.		8.93	22.90	4.42	
B within A	N.S.		12.64	32.38		
A within B			13.12	33.61		
Grains/earhead						
PBW 826 (I) (C)	28.69	3	29.75	2	29.22	3
HD 3386	27.90	5	28.50	6	28.20	5
HD 3086 (C)	28.24	4	33.79	1	31.01	1
DBW 222 (C)	31.59	1	29.03	3	30.31	2
HD 2967 (C)	28.98	2	28.87	4	28.93	4
DBW 187 (C)	26.33	6	28.74	5	27.53	6
Mean	28.62		29.78		29.20	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.52	4.64	6.16	
Genotype (B)	N.S.		0.98	2.52	6.74	
B within A	N.S.		1.39	3.56		
A within B			1.37	3.52		
1000 grains weight, g						
PBW 826 (I) (C)	38.80	2	34.40	6	36.60	6
HD 3386	38.63	3	35.78	5	37.20	2
HD 3086 (C)	37.10	6	36.69	1	36.89	4
DBW 222 (C)	37.55	4	36.63	2	37.09	3
HD 2967 (C)	37.13	5	36.08	3	36.60	5
DBW 187 (C)	39.75	1	35.95	4	37.85	1
Mean	38.16		35.92		37.04	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.08	0.74	0.78	
Genotype (B)	N.S.		0.68	1.73	3.65	
B within A	N.S.		0.95	2.45		
A within B			0.88	2.24		
Date of Sowing:	07.11.2022	10.12.2022	Date of Harvesting:	30.04.2023		

Table 2.2.7	North Western Plain Zone		IR-DOS-TAS		Karnal	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	63.77	2	53.41	3	58.59	3
HD 3386	63.17	4	54.37	2	58.77	2
HD 3086 (C)	56.90	5	40.75	6	48.83	6
DBW 222 (C)	65.32	1	55.63	1	60.48	1
HD 2967 (C)	56.39	6	46.87	5	51.63	5
DBW 187 (C)	63.37	3	52.54	4	57.96	4
Mean	61.49		50.60		56.04	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.75	3.11	5.69	
Genotype (B)	**		0.72	1.75	3.14	
B within A	*		1.02	2.48		
A within B			1.19	2.91		
Earhead/sq.m.						
PBW 826 (I) (C)	488	3	461	3	474	2
HD 3386	463	6	437	5	450	6
HD 3086 (C)	483	4	433	6	458	5
DBW 222 (C)	493	1	473	1	483	1
HD 2967 (C)	482	5	464	2	473	3
DBW 187 (C)	489	2	456	4	473	4
Mean	483		454		468	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		6.13	25.33	5.56	
Genotype (B)	N.S.		7.95	19.40	4.16	
B within A	N.S.		11.25	27.43		
A within B			11.96	29.17		
Grains/earhead						
PBW 826 (I) (C)	28.99	5	28.31	6	28.65	6
HD 3386	29.12	4	30.61	4	29.87	4
HD 3086 (C)	26.23	6	31.77	2	29.00	5
DBW 222 (C)	34.29	2	33.31	1	33.80	1
HD 2967 (C)	35.03	1	31.33	3	33.18	2
DBW 187 (C)	32.30	3	30.41	5	31.35	3
Mean	30.99		30.96		30.97	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.32	1.32	4.39	
Genotype (B)	**		0.66	1.60	5.19	
B within A	**		0.93	2.26		
A within B			0.91	2.21		
1000 grains weight, g						
PBW 826 (I) (C)	45.16	2	40.95	1	43.06	2
HD 3386	46.87	1	40.72	2	43.80	1
HD 3086 (C)	44.98	3	29.81	6	37.39	4
DBW 222 (C)	38.65	5	35.35	4	37.00	5
HD 2967 (C)	33.52	6	32.37	5	32.94	6
DBW 187 (C)	40.16	4	38.00	3	39.08	3
Mean	41.56		36.20		38.88	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.09	0.36	0.96	
Genotype (B)	**		0.49	1.20	3.11	
B within A	**		0.70	1.70		
A within B			0.64	1.57		
Date of Sowing:	11.11.2022	16.12.2022	Date of Harvesting:	07.04.2023	17.04.2023	

Table 2.2.8	North Western Plain Zone		IR-DOS-TAS		Ludhiana	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	67.83	4	43.83	5	55.83	4
HD 3386	68.28	2	54.81	1	61.54	1
HD 3086 (C)	58.64	6	48.36	4	53.50	5
DBW 222 (C)	69.72	1	52.22	2	60.97	2
HD 2967 (C)	61.67	5	43.14	6	52.40	6
DBW 187 (C)	68.03	3	50.36	3	59.19	3
Mean	65.69		48.79		57.24	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.55	2.26	4.06	
Genotype (B)	**		1.73	4.23	7.42	
B within A	N.S.		2.45	5.98		
A within B			2.30	5.62		
Earhead/sq.m.						
PBW 826 (I) (C)	305	6	262	2	283	5
HD 3386	333	2	262	1	297	1
HD 3086 (C)	308	5	261	3	284	4
DBW 222 (C)	333	1	259	4	296	2
HD 2967 (C)	318	4	246	6	282	6
DBW 187 (C)	330	3	259	5	295	3
Mean	321		258		290	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		1.50	6.17	2.19	
Genotype (B)	**		3.37	8.22	2.85	
B within A	**		4.76	11.62		
A within B			4.60	11.22		
Grains/earhead						
PBW 826 (I) (C)	47.23	3	38.11	6	22.05	6
HD 3386	38.94	6	49.66	4	26.83	4
HD 3086 (C)	42.93	5	65.75	1	33.37	1
DBW 222 (C)	46.32	4	51.23	3	27.12	3
HD 2967 (C)	48.19	2	55.54	2	28.77	2
DBW 187 (C)	48.62	1	46.64	5	25.82	5
Mean	45.37		51.15		51.15	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		2.04	N.S.	2.04	
Genotype (B)	N.S.		2.89	N.S.	3.14	
B within A	*		4.98	15.84		
A within B			4.36	16.35		
1000 grains weight, g						
PBW 826 (I) (C)	47.29	2	43.98	1	45.63	2
HD 3386	52.81	1	43.09	2	47.95	1
HD 3086 (C)	44.83	4	28.95	6	36.89	5
DBW 222 (C)	45.58	3	39.67	4	42.63	4
HD 2967 (C)	41.56	6	32.13	5	36.85	6
DBW 187 (C)	42.91	5	42.56	3	42.73	3
Mean	45.83		38.40		42.11	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.71	4.62	4.06	
Genotype (B)	**		1.96	5.83	7.42	
B within A	N.S.		1.73	N.S.		
A within B			2.63	N.S.		
Date of Sowing:	05.11.2022	12.12.2022	Date of Harvesting:	26.04.2023		

Table 2.2.9	North Western Plain Zone		IR-DOS-TAS		Pantnagar	2022-23
	Date of Sowing					
Genotype	Timely	Rk	Late	Rk	Mean	Rk
Yield, q/ha						
PBW 826 (I) (C)	58.16	2	42.84	2	50.50	2
HD 3386	58.79	1	42.39	3	50.59	1
HD 3086 (C)	49.27	5	34.09	6	41.68	5
DBW 222 (C)	54.56	3	43.07	1	48.82	3
HD 2967 (C)	44.43	6	34.71	5	39.57	6
DBW 187 (C)	50.27	4	40.88	4	45.58	4
Mean	52.58		39.66		46.12	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.40	1.65	3.68	
Genotype (B)	**		1.09	2.65	5.77	
B within A	N.S.		1.54	3.75		
A within B			1.46	3.56		
Earhead/sq.m.						
PBW 826 (I) (C)	468	4	325	6	396	6
HD 3386	479	2	429	2	454	2
HD 3086 (C)	473	3	441	1	457	1
DBW 222 (C)	448	6	367	5	407	5
HD 2967 (C)	452	5	421	3	436	4
DBW 187 (C)	487	1	405	4	446	3
Mean	468		398		433	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		6.95	28.70	6.81	
Genotype (B)	N.S.		15.83	38.62	8.96	
B within A	N.S.		22.39	54.62		
A within B			21.59	52.66		
Grains/earhead						
PBW 826 (I) (C)	25.14	4	32.75	2	28.94	2
HD 3386	23.61	5	24.93	4	24.27	5
HD 3086 (C)	26.05	3	21.94	6	24.00	6
DBW 222 (C)	30.01	1	34.20	1	32.10	1
HD 2967 (C)	26.66	2	23.35	5	25.00	3
DBW 187 (C)	22.80	6	26.34	3	24.57	4
Mean	25.71		27.25		26.48	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	N.S.		0.95	3.93	15.26	
Genotype (B)	*		1.70	4.15	15.74	
B within A	N.S.		2.41	5.87		
A within B			2.39	5.84		
1000 grains weight, g						
PBW 826 (I) (C)	50.04	2	40.52	1	45.28	2
HD 3386	52.19	1	40.27	2	46.23	1
HD 3086 (C)	40.13	5	35.39	5	37.76	5
DBW 222 (C)	41.87	4	35.01	6	38.44	4
HD 2967 (C)	37.14	6	35.61	4	36.38	6
DBW 187 (C)	45.63	3	38.54	3	42.08	3
Mean	44.50		37.55		41.03	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.96	3.95	9.90	
Genotype (B)	**		1.30	3.18	7.79	
B within A	N.S.		1.84	4.50		
A within B			1.94	4.73		
Date of Sowing:	05.11.2022	13.12.2022	Date of Harvesting:	11.04.2023	24.04.2023	

Genotype	Date of Sowing		Late	Rk	Mean	Rk
	Timely	Rk				
Yield, q/ha						
PBW 826 (I) (C)	60.07	5	33.66	2	46.87	3
HD 3386	57.76	6	29.59	4	43.67	5
HD 3086 (C)	60.61	4	25.06	6	42.83	6
DBW 222 (C)	62.46	3	25.47	5	43.97	4
HD 2967 (C)	62.54	2	33.97	1	48.25	2
DBW 187 (C)	67.08	1	31.66	3	49.37	1
Mean	61.75		29.90		45.83	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.36	1.48	3.31	
Genotype (B)	**		0.47	1.14	2.51	
B within A	**		0.66	1.62		
A within B			0.70	1.72		
Earhead/sq.m.						
PBW 826 (I) (C)	448	2	332	3	390	3
HD 3386	443	3	310	6	377	5
HD 3086 (C)	402	6	315	5	359	6
DBW 222 (C)	442	4	342	1	392	2
HD 2967 (C)	439	5	326	4	383	4
DBW 187 (C)	463	1	336	2	399	1
Mean	440		327		383	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		2.05	8.47	2.27	
Genotype (B)	**		2.81	6.86	1.80	
B within A	**		3.97	9.70		
A within B			4.17	10.17		
Grains/earhead						
PBW 826 (I) (C)	32.13	5	31.65	2	31.89	3
HD 3386	31.69	6	31.04	3	31.37	4
HD 3086 (C)	40.98	1	25.52	5	33.25	2
DBW 222 (C)	34.42	3	21.85	6	28.13	6
HD 2967 (C)	34.90	2	32.21	1	33.55	1
DBW 187 (C)	33.51	4	28.23	4	30.87	5
Mean	34.61		28.41		31.51	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	*		0.63	2.58	8.42	
Genotype (B)	**		0.64	1.56	4.97	
B within A	**		0.90	2.20		
A within B			1.03	2.52		
1000 grains weight, g						
PBW 826 (I) (C)	41.74	2	32.08	4	36.91	3
HD 3386	41.17	3	30.73	6	35.95	5
HD 3086 (C)	36.78	6	31.25	5	34.01	6
DBW 222 (C)	41.12	4	34.13	1	37.63	2
HD 2967 (C)	40.79	5	32.40	3	36.60	4
DBW 187 (C)	43.30	1	33.45	2	38.37	1
Mean	40.82		32.34		36.58	
	F. Test		SEm	CD (0.05)	CV (%)	
Sowing (A)	**		0.22	0.92	2.57	
Genotype (B)	**		0.30	0.74	2.03	
B within A	**		0.43	1.04		
A within B			0.45	1.10		
Date of Sowing:	05.11.2022	15.12.2022	Date of Harvesting:	18.04.2023	29.04.2023	