

CENTRE-WISE DATA

Table 1.1.1. Northern Hills Zone						IR-TS-TAS-DOS						Almora 2012-13					
Variety	Sowing time				Mean	Rk	Timely	Sowing time				Mean	Rk				
	Timely	Rk	Late	Rk				Timely	Rk	Late	Rk						
Yield, q/ha						Earhead/sd.m.											
VL 804 (C)	40.23	2	36.57	5	38.40	4	440	1	435	1	438	1					
VL 907 (C)	43.57	1	40.20	1	41.88	1	412	2	375	3	393	2					
HS 507 (C)	37.03	5	38.13	4	37.58	5	385	5	347	4	366	4					
HPW 349 (I)	38.63	4	38.90	3	38.77	3	395	3	303	5	349	5					
HS 536	38.97	3	39.87	2	39.42	2	390	4	378	2	384	3					
MEAN	39.69		38.73		39.21		404		368		386						
Sowing (A)						F.Test											
Variety(B)						S.E.m											
B with A						C.D.											
A with B						C.V.(%)											
						F.Test											
						S.E.m											
						C.D.											
						C.V.(%)											
						F.Test											
						S.E.m											
						C.D.											
						C.V.(%)											
Date of sowing						Date of Harvesting											
5.11.2012						14.5.2013											
26.11.2012						15.5.2013											

Table 1.1.2. Northern Hills Zone						IR-TS-TAS-DOS						Bajaura 2012-13					
Variety	Sowing time				Mean	Rk	Timely	Sowing time				Mean	Rk				
	Timely	Rk	Late	Rk				Timely	Rk	Late	Rk						
Yield, q/ha						Earhead/sd.m.											
VL 804 (C)	58.41	2	56.23	2	57.32	2	398	2	385	2	392	2					
VL 907 (C)	57.79	3	55.15	3	56.47	3	426	1	403	1	415	1					
HS 507 (C)	57.72	4	54.78	4	56.25	4	393	4	351	5	372	5					
HPW 349 (I)	56.01	5	51.26	5	53.64	5	394	3	370	4	382	4					
HS 536	59.84	1	57.18	1	58.51	1	391	5	382	3	386	3					
MEAN	57.95		54.92		56.44		400		378		389						
Sowing (A)						F.Test											
Variety(B)						S.E.m											
B with A						C.D.											
A with B						C.V.(%)											
						F.Test											
						S.E.m											
						C.D.											
						C.V.(%)											
Date of sowing						Date of Harvesting											
3.11.2012						06.6.2013											
28.11.2012																	

Table 1.1.3. Northern Hills Zone						IR-TS-TAS-DOS		Imphal 2012-13				
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk		
	Yield, q/ha					Earhead/sd.m.						
VL 804 (C)	33.26	1	23.98	1	28.62	1	263	1	166	1	215	1
VL 907 (C)	30.08	4	21.97	2	26.03	2	259	2	165	2	212	2
HS 507 (C)	31.38	2	20.52	3	25.95	3	191	5	164	3	177	3
HPW 349 (I)	25.57	5	18.03	5	21.80	5	218	3	111	5	164	5
HS 536	30.81	3	18.52	4	24.66	4	191	4	159	4	175	4
MEAN	30.22		20.60		25.41		224		153		189	
		F.Test	S.E.m	C.D.	C.V.(%)			F.Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		*	1.49	9.06	22.69			*	9.81	59.69	20.14	
Variety(B)		**	1.07	3.20	10.28			**	9.65	28.92	12.53	
B with A		N.S.	1.51	4.52				*	13.64	40.90		
A with B			2.01	6.02					15.66	46.94		
	Grains/earhead					1000 Grains weight,g						
VL 804 (C)	30.80	3	34.84	2	32.82	3	41.17	5	41.84	5	41.51	5
VL 907 (C)	26.40	5	31.66	3	29.03	5	44.16	2	42.05	4	43.11	2
HS 507 (C)	38.90	1	29.75	4	34.33	1	42.47	4	42.55	3	42.51	4
HPW 349 (I)	27.35	4	38.50	1	32.92	2	43.13	3	42.86	1	42.99	3
HS 536	35.44	2	27.35	5	31.40	4	45.81	1	42.72	2	44.26	1
MEAN	31.78		32.42		32.10		43.35		42.40		42.88	
		F.Test	S.E.m	C.D.	C.V.(%)			F.Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		N.S.	1.16	7.04	13.96			N.S.	0.25	1.52	2.26	
Variety(B)		N.S.	1.84	5.52	14.05			**	0.44	1.33	2.53	
B with A		**	2.60	7.80				*	0.63	1.88		
A with B			2.60	7.79					0.61	1.84		
Date of sowing	11.11.2012		01.12.2012				Date of Harvesting					

Table 1.1.4. Northern Hills Zone						IR-TS-TAS-DOS		Khudwani 2012-13				
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk		
	Yield, q/ha					Earhead/sd.m.						
VL 804 (C)	36.73	1	33.37	2	35.05	1	283	4	263	4	273	4
VL 907 (C)	29.10	5	25.40	5	27.25	5	269	5	253	5	261	5
HS 507 (C)	31.33	3	27.40	3	29.37	3	287	3	272	2	280	2
HPW 349 (I)	30.97	4	27.07	4	29.02	4	289	2	269	3	279	3
HS 536	36.40	2	33.70	1	35.05	1	341	1	317	1	329	1
MEAN	32.91		29.39		31.15		294		275		284	
		F.Test	S.E.m	C.D.	C.V.(%)			F.Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		*	0.28	1.72	3.51			*	2.92	17.79	3.98	
Variety(B)		**	1.06	3.18	8.34			**	3.58	10.73	3.08	
B with A		N.S.	1.50	4.50				N.S.	5.06	15.18		
A with B			1.37	4.11					5.39	16.16		
	Grains/earhead					1000 Grains weight,g						
VL 804 (C)	35.46	1	35.44	1	35.45	1	36.67	5	35.85	5	36.26	5
VL 907 (C)	25.49	5	24.74	5	25.11	5	42.52	1	40.64	1	41.58	1
HS 507 (C)	26.38	3	25.45	4	25.91	4	41.49	3	39.80	3	40.64	3
HPW 349 (I)	27.75	2	27.16	2	27.46	2	38.62	4	37.02	4	37.82	4
HS 536	25.62	4	26.24	3	25.93	3	41.73	2	40.47	2	41.10	2
MEAN	28.14		27.80		27.97		40.20		38.76		39.48	
		F.Test	S.E.m	C.D.	C.V.(%)			F.Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		N.S.	0.39	2.39	5.45			*	0.18	1.09	1.76	
Variety(B)		**	1.12	3.37	9.85			**	0.28	0.84	1.74	
B with A		N.S.	1.59	4.77				N.S.	0.40	1.19		
A with B			1.48	4.42					0.40	1.19		
Date of sowing	05.11.2012		27.11.2012				Date of Harvesting	19.06.2013		25.06.2013		

Table 1.1.5. Northern Hills Zone						IR-TS-TAS-DOS						Malan 2012-13					
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk					
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk							
Yield, q/ha						Earhead/sd.m.											
VL 804 (C)	40.71	3	39.048	4	39.88	4	323	2	309	4	316	4					
VL 907 (C)	42.38	2	41.905	3	42.14	2	329	1	322	2	325	1					
HS 507 (C)	40.24	4	39.048	4	39.64	5	318	3	319	3	319	3					
HPW 349 (I)	46.67	1	44.286	1	45.48	1	303	5	290	5	296	5					
HS 536	37.62	5	42.619	2	40.12	3	316	4	324	1	320	2					
MEAN	41.52		41.381		41.45		318		313		315						
F.Test						F.Test											
Sowing (A)	N.S.		0.79	4.80	7.37	S.E.m											
Variety(B)	*		1.15	3.45	6.79	C.D.											
B with A	N.S.		1.63	4.87	C.V.(%)												
A with B			1.65	4.96	9.69												
F.Test						F.Test											
Sowing (A)	N.S.		0.14	0.86	1.81	S.E.m											
Variety(B)	**		0.76	2.27	6.13	C.D.											
B with A	N.S.		1.07	3.20	C.V.(%)												
A with B			0.97	2.90	2.03												
Date of sowing						Date of Harvesting											
5.11.2012						2.12.2012											
						5.5.2013											
						9.5.2013											

Table 1.1.6. Northern Hills Zone						IR-TS-TAS-DOS						Shimla 2012-13					
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk					
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk							
Yield, q/ha						Earhead/sd.m.											
VL 804 (C)	35.57	5	18.80	5	27.18	5	385	1	324	3	355	2					
VL 907 (C)	35.80	4	19.90	2	27.85	4	327	5	281	5	304	5					
HS 507 (C)	39.00	2	18.97	4	28.98	2	367	2	349	1	358	1					
HPW 349 (I)	36.40	3	19.80	3	28.10	3	329	3	297	4	313	4					
HS 536	39.27	1	27.60	1	33.43	1	329	3	340	2	335	3					
MEAN	37.21		21.01		29.11		347		318		333						
F.Test						F.Test											
Sowing (A)	*		2.63	15.99	34.97	S.E.m											
Variety(B)	N.S.		1.48	4.43	12.43	C.D.											
B with A	N.S.		2.09	6.26	C.V.(%)												
A with B			3.22	9.67	6.38												
F.Test						F.Test											
Sowing (A)	N.S.		1.47	8.94	24.65	S.E.m											
Variety(B)	N.S.		1.40	4.19	14.82	C.D.											
B with A	N.S.		1.98	5.92	C.V.(%)												
A with B			2.30	6.89	21.08												
Date of sowing						Date of Harvesting											
11.09.2012						30.05.2013											
						12.10.2012											
						30.05.2013											

Table 1.2.1. Northern Hills Zone		RF-ES-TAS-LON								Almora 2012-13							
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk	
	Yield, q/ha								Earhead/sd.m.								
VL 829 (C)	18.07	4	22.77	3	25.93	3	22.26	3	233	4	240	3	288	1	254	3	
HS 277 (C)	19.87	2	27.10	2	29.30	2	25.42	2	295	1	272	2	255	4	274	2	
HPW 251 (I)	20.50	1	30.30	1	30.60	1	27.13	1	260	2	303	1	270	2	278	1	
Hs 542	18.53	3	21.23	4	23.77	4	21.18	4	242	3	212	4	267	3	240	4	
MEAN	19.24		25.35		27.40		24.00		258		257		270		261		
		F.Tes	S.E.m	C.D.	C.V.(%)		F.Tes	S.E.m	C.D.	C.V.(%)							
Nitrogen (A)		**	0.47	1.84	6.77		N.S.	7.30	28.68	9.68							
Variety(B)		**	0.67	1.99	8.36		*	8.34	24.77	9.57							
B with A		N.S.	1.16	3.44		*	14.44	42.91									
A with B			1.11	3.29			14.48	43.04									
	Grains/earhead								1000 Grains weight,g								
VL 829 (C)	16.73	4	20.24	4	19.18	4	18.72	4	46.47	1	47.26	1	47.25	1	46.99	1	
HS 277 (C)	16.98	2	24.23	2	28.71	1	23.30	2	40.01	4	41.25	3	40.44	4	40.57	4	
HPW 251 (I)	18.50	1	24.74	1	27.70	2	23.65	1	42.65	3	40.71	4	42.20	3	41.86	3	
Hs 542	16.80	3	22.39	3	19.22	3	19.47	3	45.65	2	44.91	2	46.80	2	45.79	2	
MEAN	17.25		22.90		23.70		21.28		43.70		43.53		44.17		43.80		
		F.Tes	S.E.m	C.D.	C.V.(%)		F.Tes	S.E.m	C.D.	C.V.(%)							
Nitrogen (A)		**	0.57	2.26	9.35		N.S.	0.42	1.65	3.32							
Variety(B)		**	0.99	2.95	13.98		**	0.31	0.93	2.15							
B with A		N.S.	1.72	5.11		N.S.	0.54	1.61									
A with B			1.60	4.74			0.63	1.87									
Date of sowing	8.10.2012								Date of Harvesting 9.5.2013								

Table 1.2.2. Northern Hills Zone		RF-ES-TAS-LON								Bajaura 2012-13							
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk	
	Yield, q/ha								Earhead/sd.m.								
VL 829 (C)	37.95	2	44.18	2	45.75	2	42.62	2	314	2	340	1	360	1	338	1	
HS 277 (C)	34.55	3	37.03	3	37.29	3	36.29	3	305	3	298	3	293	4	298	3	
HPW 251 (I)	31.46	4	36.20	4	36.60	4	34.75	4	261	4	280	4	322	3	287	4	
Hs 542	49.47	1	51.93	1	55.77	1	52.39	1	319	1	326	2	343	2	329	2	
MEAN	38.36		42.34		43.85		41.51		300		311		329		313		
		F.Test	S.E.m	C.D.	C.V.(%)		F.Test	S.E.m	C.D.	C.V.(%)							
Nitrogen (A)		*	0.78	3.05	6.49		*	5.59	21.93	6.18							
Variety(B)		**	1.44	4.28	10.42		**	6.18	18.35	5.91							
B with A		N.S.	2.50	7.42		N.S.	10.70	31.78									
A with B			2.30	6.83			10.82	32.14									
	Grains/earhead								1000 Grains weight,g								
VL 829 (C)	27.40	4	28.62	4	26.55	4	27.52	4	44.84	2	45.56	2	47.95	2	46.12	2	
HS 277 (C)	30.71	3	31.52	3	34.74	1	32.32	2	38.20	3	39.40	4	36.84	3	38.15	3	
HPW 251 (I)	31.95	2	33.31	1	31.63	3	32.29	3	38.07	4	39.53	3	36.77	4	38.12	4	
Hs 542	32.45	1	32.58	2	32.14	2	32.39	1	48.95	1	49.00	1	50.84	1	49.60	1	
MEAN	30.63		31.51		31.26		31.13		42.51		43.37		43.10		43.00		
		F.Tes	S.E.m	C.D.	C.V.(%)		F.Tes	S.E.m	C.D.	C.V.(%)							
Nitrogen (A)		N.S.	1.38	5.40	15.31		N.S.	0.83	3.26	6.68							
Variety(B)		*	1.31	3.90	12.64		**	0.68	2.03	4.76							
B with A		N.S.	2.27	6.75		N.S.	1.18	3.51									
A with B			2.40	7.13			1.32	3.91									
Date of sowing	16.10.2012								Date of Harvesting 28.5.2013								

Table 1.2.3. Northern Hills Zone									RF-ES-TAS-LON									Khudwani 2012-13								
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha																	
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk										
	Yield, q/ha								Earhead/sd.m.																	
VL 829 (C)	25.85	1	31.27	1	38.08	1	31.73	1	237	2	261	2	278	2	259	2										
HS 277 (C)	20.95	4	30.99	2	34.94	3	28.96	3	221	4	246	3	257	4	241	4										
HPW 251 (I)	25.42	2	30.56	3	36.61	2	30.86	2	241	1	268	1	285	1	265	1										
Hs 542	21.33	3	30.32	4	33.42	4	28.35	4	227	3	245	4	262	3	244	3										
MEAN	23.38		30.78		35.76		29.98		232		255		271		252											
		F.Tes	S.E.m	C.D.	C.V.(%)		F.Tes	S.E.m	C.D.	C.V.(%)																
Nitrogen (A)		**	0.34	1.33	3.90		**	1.15	4.50	1.57																
Variety(B)		**	0.55	1.63	5.50		**	2.77	8.22	3.29																
B with A		N.S.	0.95	2.83		N.S.	4.79	14.24																		
A with B			0.89	2.65			4.31	12.80																		
	Grains/earhead								1000 Grains weight,g																	
VL 829 (C)	30.88	1	33.87	3	38.23	2	34.33	2	35.28	2	35.43	2	35.83	2	35.51	2										
HS 277 (C)	27.70	3	36.48	1	38.93	1	34.37	1	34.27	3	34.56	3	34.91	4	34.58	4										
HPW 251 (I)	29.41	2	30.49	4	34.08	4	31.33	4	35.82	1	37.48	1	37.76	1	37.02	1										
Hs 542	27.69	4	35.92	2	36.17	3	33.26	3	34.06	4	34.51	4	35.27	3	34.61	3										
MEAN	28.92		34.19		36.85		33.32		34.86		35.50		35.94		35.43											
		F.Tes	S.E.m	C.D.	C.V.(%)		F.Tes	S.E.m	C.D.	C.V.(%)																
Nitrogen (A)		**	0.47	1.86	4.93		*	0.14	0.55	1.37																
Variety(B)		*	0.71	2.11	6.40		**	0.21	0.61	1.74																
B with A		*	1.23	3.66		N.S.	0.36	1.06																		
A with B			1.17	3.47			0.34	1.01																		
Date of sowing	14.10.2012								Date of Harvesting 18.06.2013																	

Table 1.2.4. Northern Hills Zone									RF-ES-TAS-LON									Malan 2012-13								
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha																	
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk										
	Yield, q/ha								Earhead/sd.m.																	
VL 829 (C)	27.04	3	36.30	2	43.33	2	35.56	3	304	2	343	2	373	2	340	2										
HS 277 (C)	23.70	4	26.67	4	30.74	4	27.04	4	291	4	309	4	341	4	314	4										
HPW 251 (I)	40.74	1	42.96	1	46.30	1	43.33	1	346	1	364	1	386	1	365	1										
Hs 542	33.33	2	35.56	3	38.15	3	35.68	2	296	3	329	3	350	3	325	3										
MEAN	31.20		35.37		39.63		35.40		309		336		362		336											
		F.Tes	S.E.m	C.D.	C.V.(%)		F.Tes	S.E.m	C.D.	C.V.(%)																
Nitrogen (A)		**	0.73	2.86	7.12		**	4.80	18.85	4.95																
Variety(B)		**	1.17	3.48	9.93		**	6.33	18.81	5.66																
B with A		N.S.	2.03	6.03		N.S.	10.97	32.59																		
A with B			1.90	5.65			10.64	31.62																		
	Grains/earhead								1000 Grains weight,g																	
VL 829 (C)	24.25	3	27.78	2	30.20	2	27.41	2	36.23	3	37.86	3	38.44	3	37.51	3										
HS 277 (C)	23.62	4	24.71	4	25.61	4	24.65	4	34.47	4	34.98	4	35.13	4	34.86	4										
HPW 251 (I)	29.26	1	29.03	1	30.25	1	29.51	1	40.22	2	40.74	2	39.89	2	40.29	2										
Hs 542	27.52	2	25.94	3	26.04	3	26.50	3	40.95	1	41.68	1	41.94	1	41.52	1										
MEAN	26.16		26.87		28.03		27.02		37.97		38.82		38.85		38.54											
		F. Tes	S.E.m	C.D.	C.V.(%)		F. Tes	S.E.m	C.D.	C.V.(%)																
Nitrogen (A)		N.S.	1.18	4.64	15.16		N.S.	1.52	5.98	13.69																
Variety(B)		**	0.63	1.86	6.96		**	0.62	1.84	4.83																
B with A		N.S.	1.09	3.23		N.S.	1.07	3.19																		
A with B			1.51	4.49			1.78	5.30																		
Date of sowing	15.10.2012								Date of Harvesting 01.05.2013																	

Table 1.2.5. Northern Hills Zone								RF-ES-TAS-LON								Shimla 2012-13							
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha														
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk							
Yield, q/ha								Earhead/sd.m.															
VL 829 (C)	35.20	1	38.53	2	36.50	2	36.74	1	337	1	284	4	332	4	318	3							
HS 277 (C)	31.13	3	38.70	1	29.87	4	33.23	3	323	3	331	1	368	1	340	1							
HPW 251 (I)	29.83	4	30.50	3	31.90	3	30.74	4	336	2	295	3	339	3	323	2							
Hs 542	34.27	2	30.47	4	37.60	1	34.11	2	275	4	307	2	351	2	311	4							
MEAN	32.61		34.55		33.97		33.71		318		304		347		323								
		F.Tes	S.E.m		C.D.		C.V.(%)		F.Tes	S.E.m		C.D.		C.V.(%)									
Nitrogen (A)		N.S.	2.96		11.63		30.45		N.S.	13.77		54.05		14.76									
Variety(B)		N.S.	1.46		4.33		12.98		N.S.	8.78		26.09		8.15									
B with A		N.S.	2.53		7.51				N.S.	15.21		45.18											
A with B			3.68		10.94					19.05		56.61											
Grains/earhead								1000 Grains weight,g															
VL 829 (C)	20.34	4	26.07	1	21.26	2	22.56	2	51.33	1	52.33	1	53.00	1	52.22	1							
HS 277 (C)	20.54	3	25.01	2	18.35	4	21.30	4	46.67	3	47.33	3	44.00	4	46.00	3							
HPW 251 (I)	20.71	2	22.36	3	21.02	3	21.36	3	43.33	4	46.00	4	45.33	3	44.89	4							
Hs 542	25.22	1	20.03	4	22.57	1	22.60	1	49.33	2	50.00	2	47.67	2	49.00	2							
MEAN	21.70		23.37		20.80		21.96		47.67		48.92		47.50		48.03								
		F.Tes	S.E.m		C.D.		C.V.(%)		F.Tes	S.E.m		C.D.		C.V.(%)									
Nitrogen (A)		N.S.	1.55		6.08		24.42		N.S.	0.86		3.37		6.18									
Variety(B)		N.S.	0.97		2.90		13.32		**	1.01		2.99		6.29									
B with A		N.S.	1.69		5.02				N.S.	1.75		5.19											
A with B			2.13		6.33					1.74		5.16											
Date of sowing	14.10.2012								Date of Harvesting	30.05.2013													

Table 1.3.1. Northern Hills Zone								RF-TS-TAS-LON								Almora 2012-13							
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha														
	40	RK	60	RK	80	RK	Mean	RK	40	RK	60	RK	80	RK	Mean	RK							
Yield, q/ha								Earhead/sd.m.															
VL 804 (C)	36.80	2	42.07	2	45.90	1	41.59	2	348	3	362	4	417	3	376	3							
VL 907 (C)	30.27	4	33.03	5	40.23	4	34.51	5	327	5	372	3	397	4	365	4							
HS 507 (C)	30.20	5	35.27	4	39.80	5	35.09	4	367	1	390	1	418	2	392	1							
HPW 349 (I)	38.63	1	42.77	1	44.77	2	42.06	1	352	2	373	2	437	1	387	2							
HS 536	33.40	3	38.00	3	40.67	3	37.36	3	340	4	352	5	360	5	351	5							
MEAN	33.86		38.23		42.27		38.12		347		370		406		374								
		F.Test	S.E.m		C.D.		C.V.(%)		F.Test	S.E.m		C.D.		C.V.(%)									
Nitrogen (A)		**	0.50		1.95		5.06		*	11.08		43.48		11.47									
Variety(B)		**	0.70		2.05		5.52		N.S.	12.83		37.44		10.29									
B with A		N.S.	1.21		3.55				N.S.	22.22		64.85											
A with B			1.19		3.49					22.75		66.41											
Grains/earhead								1000 Grains weight,g															
VL 804 (C)	27.74	2	28.57	2	27.12	1	27.81	2	38.51	4	40.87	4	40.93	4	40.10	4							
VL 907 (C)	22.27	4	21.04	5	23.67	3	22.33	4	42.44	2	42.39	3	43.33	3	42.72	3							
HS 507 (C)	20.05	5	21.52	4	21.22	5	20.93	5	41.71	3	42.53	2	45.11	2	43.11	2							
HPW 349 (I)	29.86	1	30.15	1	25.99	2	28.67	1	37.38	5	38.04	5	39.77	5	38.40	5							
HS 536	22.58	3	25.20	3	23.51	4	23.76	3	44.33	1	43.68	1	48.26	1	45.42	1							
MEAN	24.50		25.29		24.30		24.70		40.87		41.50		43.48		41.95								
		F.Test	S.E.m		C.D.		C.V.(%)		F.Test	S.E.m		C.D.		C.V.(%)									
Nitrogen (A)		N.S.	0.76		2.98		11.92		*	0.40		1.56		3.67									
Variety(B)		**	1.09		3.19		13.29		**	0.56		1.63		3.99									
B with A		N.S.	1.89		5.53				N.S.	0.97		2.82											
A with B			1.86		5.42					0.95		2.78											
Date of sowing	22.10.2012								Date of Harvesting	9.5.2012													

Table 1.3.2. Northern Hills Zone									RF-TS-TAS-LON				Bajaura 2012-13			
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha							
	40	RK	60	RK	80	RK	Mean	RK	40	RK	60	RK	80	RK	Mean	RK
	Yield, q/ha								Earhead/sd.m.							
VL 804 (C)	39.45	3	49.22	1	53.83	2	47.50	1	369	1	370	3	437	1	392	1
VL 907 (C)	39.67	2	41.33	5	52.06	4	44.35	4	357	2	374	2	408	3	380	3
HS 507 (C)	39.78	1	46.17	3	53.28	3	46.41	3	298	5	341	4	428	2	355	4
HPW 349 (I)	36.22	5	42.17	4	44.94	5	41.11	5	318	4	340	5	401	5	353	5
HS 536	37.78	4	47.39	2	55.61	1	46.93	2	351	3	395	1	403	4	383	2
MEAN	38.58		45.26		51.94		45.26		339		364		415		373	
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.54		2.13		4.65		**		5.38		21.13		5.60	
Variety(B)	**		0.90		2.63		5.98		*		10.24		29.88		8.24	
B with A	N.S.		1.56		4.56				N.S.		17.73		51.76			
A with B			1.50		4.38						16.75		48.89			
	Grains/earhead								1000 Grains weight,g							
VL 804 (C)	26.68	2	32.11	1	29.32	1	29.37	1	40.17	5	41.79	5	42.11	5	41.36	5
VL 907 (C)	24.47	4	23.41	5	27.19	4	25.02	5	45.65	2	47.48	2	47.00	2	46.71	2
HS 507 (C)	29.81	1	29.19	2	27.49	3	28.83	2	45.01	3	46.96	3	45.64	4	45.87	3
HPW 349 (I)	25.49	3	27.46	3	24.19	5	25.71	3	44.75	4	45.83	4	46.39	3	45.65	4
HS 536	23.08	5	24.85	4	28.24	2	25.39	4	46.63	1	48.40	1	49.24	1	48.09	1
MEAN	25.91		27.40		27.28		26.86		44.44		46.09		46.07		45.54	
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.67		2.62		9.62		N.S.		0.57		2.25		4.88	
Variety(B)	*		1.03		3.00		11.49		**		0.52		1.53		3.45	
B with A	N.S.		1.78		5.20				N.S.		0.91		2.65			
A with B			1.73		5.04						0.99		2.90			
Date of sowing	02.11.2012								Date of Harvesting 30.5.2013							

Table 1.3.2. Northern Hills Zone									RF-TS-TAS-LON				Imphal 2012-13			
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha							
	40	RK	60	RK	80	RK	Mean	RK	40	RK	60	RK	80	RK	Mean	RK
	Yield, q/ha								Earhead/sd.m.							
VL 804 (C)	11.80	2	11.76	2	12.73	2	12.10	2	175	4	215	3	194	1	195	3
VL 907 (C)	8.33	5	10.39	4	10.41	3	9.71	4	191	2	219	2	187	4	199	2
HS 507 (C)	8.72	4	9.78	5	10.36	4	9.62	5	188	3	199	5	181	5	189	4
HPW 349 (I)	9.72	3	10.83	3	10.23	5	10.26	3	133	5	200	4	194	2	176	5
HS 536	13.46	1	14.48	1	13.67	1	13.87	1	201	1	233	1	193	3	209	1
MEAN	10.41		11.45		11.48		11.11		178		213		190		194	
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.31		1.22		10.81		N.S.		8.30		32.58		16.60	
Variety(B)	**		0.57		1.66		15.38		N.S.		8.17		23.83		12.65	
B with A	N.S.		0.99		2.88				N.S.		14.14		41.28			
A with B			0.94		2.73						15.13		44.16			
	Grains/earhead								1000 Grains weight,g							
VL 804 (C)	17.39	2	14.26	2	17.54	1	16.40	1	39.06	4	38.19	5	38.81	4	38.69	5
VL 907 (C)	10.47	5	11.74	5	13.47	5	11.89	5	41.74	3	41.00	4	41.13	2	41.29	3
HS 507 (C)	11.12	4	11.77	4	14.31	3	12.40	4	41.93	2	42.17	1	40.18	3	41.43	2
HPW 349 (I)	19.74	1	12.90	3	14.10	4	15.58	3	38.59	5	41.09	3	37.88	5	39.19	4
HS 536	15.70	3	15.50	1	16.02	2	15.74	2	42.62	1	41.63	2	44.34	1	42.86	1
MEAN	14.88		13.23		15.09		14.40		40.79		40.82		40.47		40.69	
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.78		3.08		21.10		N.S.		0.55		2.17		5.26	
Variety(B)	**		0.89		2.61		18.63		**		0.69		2.00		5.06	
B with A	N.S.		1.55		4.52				N.S.		1.19		3.47			
A with B			1.59		4.65						1.20		3.50			
Date of sowing	28.10.2012								Date of Harvesting 05.04.2012							

Table 1.3.4. Northern Hills Zone										RF-TS-TAS-LON				Khudwani 2012-13			
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha								
	40	RK	60	RK	80	RK	Mean	RK	40	RK	60	RK	80	RK	Mean	RK	
	Yield, q/ha								Earhead/sd.m.								
VL 804 (C)	23.99	2	30.61	2	38.46	1	31.02	2	211	3	238	3	262	4	237	3	
VL 907 (C)	21.61	3	28.61	3	30.61	5	26.94	4	202	5	228	5	251	5	227	5	
HS 507 (C)	21.47	4	28.23	5	32.08	3	27.26	3	213	2	245	2	270	2	243	2	
HPW 349 (I)	21.23	5	28.47	4	30.99	4	26.89	5	207	4	237	4	265	3	236	4	
HS 536	26.04	1	32.28	1	38.36	2	32.23	1	217	1	283	1	311	1	270	1	
MEAN	22.87		29.64		34.10		28.87		210		246		272		243		
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)		
Nitrogen (A)	**		0.29		1.15		3.92		**		2.50		9.81		3.99		
Variety(B)	**		0.53		1.56		5.55		**		2.64		7.71		3.27		
B with A	N.S.		0.93		2.70				**		4.58		13.36				
A with B			0.88		2.56						4.80		14.00				
	Grains/earhead								1000 Grains weight,g								
VL 804 (C)	33.32	1	36.80	1	39.95	1	36.69	1	34.10	5	34.97	5	36.74	5	35.27	5	
VL 907 (C)	29.23	3	33.20	2	31.05	3	31.16	2	36.64	4	37.86	2	39.34	2	37.95	2	
HS 507 (C)	27.39	5	30.89	4	30.64	5	29.64	5	36.82	3	37.31	3	38.95	3	37.69	3	
HPW 349 (I)	27.78	4	33.11	3	31.60	2	30.83	3	36.93	2	36.33	4	37.11	4	36.79	4	
HS 536	31.63	2	29.15	5	31.00	4	30.59	4	38.01	1	39.26	1	39.83	1	39.03	1	
MEAN	29.87		32.63		32.85		31.78		36.50		37.15		38.39		37.35		
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)		
Nitrogen (A)	*		0.52		2.05		6.37		*		0.23		0.91		2.39		
Variety(B)	**		0.77		2.23		7.22		**		0.35		1.03		2.83		
B with A	N.S.		1.33		3.87				N.S.		0.61		1.78				
A with B			1.30		3.78						0.59		1.73				
Date of sowing	28.10.2012								Date of Harvesting 22.06.2012								

Table 1.3.5. Northern Hills Zone										RF-TS-TAS-LON				Malan 2012-13			
Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha								
	40	RK	60	RK	80	RK	Mean	RK	40	RK	60	RK	80	RK	Mean	RK	
	Yield, q/ha								Earhead/sd.m.								
VL 804 (C)	21.96	5	24.21	5	25.63	4	23.93	5	253	5	258	5	268	5	260	5	
VL 907 (C)	23.38	2	25.75	3	25.54	5	24.89	3	271	2	283	2	285	3	280	3	
HS 507 (C)	23.21	3	25.84	2	26.79	2	25.28	2	264	4	276	4	273	4	271	4	
HPW 349 (I)	25.33	1	26.63	1	28.21	1	26.72	1	293	1	300	1	310	1	301	1	
HS 536	22.92	4	25.09	4	26.13	3	24.71	4	268	3	282	3	290	2	280	2	
MEAN	23.36		25.50		26.46		25.11		270		280		285		278		
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)		
Nitrogen (A)	*		0.59		2.32		9.12		N.S.		4.84		19.00		6.74		
Variety(B)	N.S.		1.22		3.57		14.60		N.S.		9.68		28.26		10.44		
B with A	N.S.		2.12		6.18				N.S.		16.77		48.95				
A with B			1.98		5.79						15.76		46.01				
	Grains/earhead								1000 Grains weight,g								
VL 804 (C)	20.37	2	21.96	2	22.18	1	21.50	2	42.48	4	42.62	4	43.17	4	42.75	4	
VL 907 (C)	18.65	4	19.14	4	19.62	4	19.13	4	46.28	1	47.15	1	45.84	3	46.42	2	
HS 507 (C)	19.92	3	21.04	3	20.79	3	20.58	3	44.03	3	44.53	3	47.32	1	45.29	3	
HPW 349 (I)	22.45	1	22.75	1	22.09	2	22.43	1	38.47	5	39.25	5	41.28	5	39.66	5	
HS 536	18.61	5	19.04	5	19.18	5	18.94	5	45.82	2	46.80	2	47.12	2	46.58	1	
MEAN	20.00		20.79		20.77		20.52		43.41		44.07		44.95		44.14		
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)		
Nitrogen (A)	N.S.		0.26		1.01		4.83		N.S.		0.76		2.97		6.64		
Variety(B)	**		0.61		1.78		8.91		**		0.80		2.22		5.41		
B with A	N.S.		1.06		3.08				N.S.		1.28		4.02				
A with B			0.98		2.86						1.45		4.22				
Date of sowing	25.10.2012								Date of Harvesting 10.5.2012								

Table 1.3.6. Northern Hills Zone

RF-TS-TAS-LON

Shimla 2012-13

Variety	Nitrogen levels,kg/ha								Nitrogen levels,kg/ha							
	40	RK	60	RK	80	RK	Mean	RK	40	RK	60	RK	80	RK	Mean	RK
	Yield, q/ha								Earhead/sd.m.							
VL 804 (C)	32.40	2	31.97	4	36.70	5	33.69	5	300	4	349	2	338	3	329	2
VL 907 (C)	30.63	4	33.70	3	40.83	3	35.06	2	296	5	315	4	363	1	325	3
HS 507 (C)	28.23	5	34.07	2	41.27	2	34.52	3	305	3	332	3	333	4	324	4
HPW 349 (I)	32.30	3	31.87	5	37.20	4	33.79	4	308	2	310	5	333	4	317	5
HS 536	36.03	1	36.80	1	42.03	1	38.29	1	319	1	352	1	349	2	340	1
MEAN	31.92		33.68		39.61		35.07		306		332		343		327	
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		2.58		10.14		28.51		N.S.		12.57		49.35		14.89	
Variety(B)	N.S.		1.90		5.54		16.24		N.S.		10.47		30.56		9.61	
B with A	N.S.		3.29		9.60				N.S.		18.14		52.94			
A with B			3.91		11.42						20.52		59.90			
	Grains/earhead								1000 Grains weight,g							
VL 804 (C)	26.04	1	23.56	3	26.93	2	25.51	1	41.67	5	39.00	5	40.33	5	40.33	5
VL 907 (C)	21.70	5	23.42	4	25.52	4	23.55	5	47.00	1	46.33	1	44.67	2	46.00	1
HS 507 (C)	21.95	4	23.91	2	28.27	1	24.71	3	43.33	4	43.33	4	44.00	4	43.56	4
HPW 349 (I)	24.02	3	23.25	5	24.77	5	24.01	4	44.00	2	44.67	2	44.33	3	44.33	3
HS 536	25.89	2	24.04	1	26.17	3	25.36	2	44.00	2	44.00	3	46.00	1	44.67	2
MEAN	23.92		23.64		26.33		24.63		44.00		43.47		43.87		43.78	
	F.Test		S.E.m		C.D.		C.V.(%)		F.Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		1.09		4.28		17.13		N.S.		1.08		4.24		9.56	
Variety(B)	N.S.		1.41		4.10		17.12		*		1.24		3.62		8.51	
B with A	N.S.		2.43		7.11				N.S.		2.15		6.28			
A with B			2.43		7.11						2.21		6.44			
Date of sowing	27.10.2012								Date of Harvesting 28.05.2012							

Table 2.1.1.		North Western Plains Zone				IR-TS-TAS-DOS				Agra		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
DBW 88	47.67	4	29.00	7	38.33	4	523	5	404	5	464	5	
DBW 17 (c)	48.00	3	30.50	4	39.25	3	524	4	417	4	471	4	
HD 2967 (c)	41.66	7	30.60	3	36.13	7	525	3	423	3	474	3	
DPW 621-50 (c)	53.29	1	31.33	2	42.31	1	533	2	431	2	482	2	
HD 3086	50.00	2	32.30	1	41.15	2	550	1	435	1	493	1	
WH 1105 (I)	46.33	6	29.90	5	38.12	5	503	7	395	7	449	7	
PBW 550 (c)	46.47	5	29.53	6	38.00	6	509	6	399	6	454	6	
Mean	47.63		30.45		39.04		524		415		469		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.09	0.58	1.11		**		0.80	4.86	0.78		
Variety (B)	*		1.11	3.24	6.96		**		1.98	5.79	1.04		
B within A	N.S.		1.57	4.58			*		2.81	8.19			
A within B			1.46	4.25					2.72	7.93			
	Grains/earhead						1000 Grains weight, g						
DBW 88	23.57	4	20.07	5	21.82	6	38.70	5	35.76	5	37.23	6	
DBW 17 (c)	23.61	3	20.33	3	21.97	4	38.77	4	36.03	4	37.40	4	
HD 2967 (c)	20.22	7	19.86	7	20.04	7	39.27	2	36.40	3	37.83	2	
DPW 621-50 (c)	25.19	1	20.01	6	22.60	2	39.71	1	36.50	2	38.10	1	
HD 3086	23.51	5	20.32	4	21.92	5	38.65	6	36.57	1	37.61	3	
WH 1105 (I)	24.62	2	23.69	1	24.16	1	37.49	7	31.97	7	34.73	7	
PBW 550 (c)	23.39	6	20.91	2	22.15	3	39.03	3	35.43	6	37.23	5	
Mean	23.44		20.74		22.09		38.80		35.52		37.16		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	*		0.25	1.54	5.26		*		0.35	2.12	4.30		
Variety (B)	*		0.69	2.02	7.66		**		0.43	1.25	2.82		
B within A	N.S.		0.98	2.85			N.S.		0.60	1.76			
A within B			0.94	2.74					0.66	1.92			
Date of sowing:	10.11.2012		12.12.2012		Date of harvesting:		11.04.2013		14.04.2013				

Table 2.1.2.		North Western Plains Zone				IR-TS-TAS-DOS				Durgapura		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
DBW 88	61.61	1	50.74	1	56.18	1	479	1	428	1	453	1	
DBW 17 (c)	59.57	3	49.73	2	54.65	2	446	4	383	6	415	6	
HD 2967 (c)	58.33	5	45.19	6	51.76	5	440	6	398	4	419	4	
DPW 621-50 (c)	59.43	4	49.39	3	54.41	3	448	3	418	2	433	3	
HD 3086	57.96	6	45.54	5	51.75	6	446	4	386	5	416	5	
WH 1105 (I)	54.08	7	43.57	7	48.83	7	398	7	370	7	384	7	
PBW 550 (c)	59.66	2	47.58	4	53.62	4	464	2	407	3	436	2	
Mean	58.66		47.39		53.03		446		399		422		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	(A) *		0.85	5.18	7.35		**		3.10	18.88	3.37		
Variety (B)	(B) *		1.53	4.46	7.06		**		11.31	33.00	6.56		
B within A	N.S.		2.16	6.31			N.S.		15.99	46.67			
A within B			2.17	6.35					15.12	44.15			
	Grains/earhead						1000 Grains weight, g						
DBW 88	31.95	6	33.63	5	32.79	6	40.33	2	35.30	4	37.82	2	
DBW 17 (c)	34.61	4	36.47	1	35.54	2	38.80	3	35.73	3	37.27	3	
HD 2967 (c)	35.97	2	35.10	3	35.53	3	36.80	6	32.43	7	34.62	6	
DPW 621-50 (c)	38.39	1	36.42	2	37.41	1	34.57	7	32.47	6	33.52	7	
HD 3086	31.12	7	32.83	6	31.97	7	41.80	1	36.00	1	38.90	1	
WH 1105 (I)	35.85	3	34.39	4	35.12	4	37.93	4	34.30	5	36.12	5	
PBW 550 (c)	34.07	5	32.67	7	33.37	5	37.80	5	35.77	2	36.78	4	
Mean	34.56		34.50		34.53		38.29		34.57		36.43		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.37	2.25	4.90		N.S.		0.70	4.28	8.84		
Variety (B)	**		0.78	2.27	5.51		**		0.63	1.85	4.26		
B within A	N.S.		1.10	3.21			N.S.		0.90	2.62			
A within B			1.08	3.16					1.09	3.17			
Date of sowing:	05.11.2012		10.12.2012		Date of harvesting:		03.04.2013		13.04.2013				

Table 2.1.3. North Western Plains Zone					IR-TS-TAS-DOS					Gurdaspur					2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk				
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk						
	Yield, q/ha					Earhead/sq.m.										
DBW 88	36.90	6	44.22	4	40.56	4	361	4	317	4	339	5				
DBW 17 (c)	37.76	3	40.22	6	38.99	5	392	1	352	2	372	1				
HD 2967 (c)	34.52	7	41.67	5	38.10	7	356	6	366	1	361	2				
DPW 621-50 (c)	40.31	2	44.47	2	42.39	2	363	3	338	3	350	3				
HD 3086	37.07	4	44.30	3	40.69	3	367	2	315	5	341	4				
WH 1105 (I)	44.30	1	44.64	1	44.47	1	358	5	282	7	320	7				
PBW 550 (c)	36.90	5	39.46	7	38.18	6	346	7	314	6	330	6				
Mean	38.25		42.71		40.48		363		326		345					
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)			
Sowing (A)	N.S.		0.78		4.75		**		2.35		14.30		3.12			
Variety (B)	**		1.20		3.51		**		8.37		24.43		5.95			
B within A	N.S.		1.70		4.96		N.S.		11.84		34.55					
A within B			1.76		5.13				11.21		32.72					
	Grains/earhead					1000 Grains weight, g										
DBW 88	26.57	5	47.55	1	37.06	2	38.53	3	31.86	7	35.19	6				
DBW 17 (c)	28.16	4	33.21	6	30.68	5	34.18	7	34.73	6	34.46	7				
HD 2967 (c)	22.34	7	29.07	7	25.71	7	44.25	1	39.37	2	41.81	1				
DPW 621-50 (c)	31.47	2	34.86	4	33.17	3	35.36	5	37.88	4	36.62	5				
HD 3086	23.83	6	36.69	3	30.26	6	42.38	2	38.50	3	40.44	2				
WH 1105 (I)	35.06	1	40.21	2	37.63	1	35.33	6	39.80	1	37.57	3				
PBW 550 (c)	28.97	3	34.20	5	31.59	4	37.15	4	36.75	5	36.95	4				
Mean	28.06		36.54		32.30		38.17		36.98		37.58					
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)			
Sowing (A)	*		0.86		5.25		N.S.		0.44		2.67		5.36			
Variety (B)	*		2.20		6.43		N.S.		1.79		5.23		11.68			
B within A	N.S.		3.12		9.10		N.S.		2.53		7.40					
A within B			3.01		8.79				2.39		6.97					
Date of sowing:	09.11.2012		10.12.2012				Date of harvesting:	02.05.2013		08.05.2013						

Table 2.1.4. North Western Plains Zone					IR-TS-TAS-DOS					Gurgaon					2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk				
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk						
	Yield, q/ha					Earhead/sq.m.										
DBW 88	42.73	7	25.72	6	34.23	7	400	1	316	1	358	1				
DBW 17 (c)	45.15	2	33.88	2	39.52	2	360	3	269	4	314	3				
HD 2967 (c)	43.52	4	38.61	1	41.07	1	343	5	275	2	309	5				
DPW 621-50 (c)	43.49	5	27.26	3	35.37	5	296	7	248	6	272	7				
HD 3086	46.22	1	24.84	7	35.53	4	390	2	243	7	317	2				
WH 1105 (I)	43.47	6	26.76	5	35.12	6	349	4	273	3	311	4				
PBW 550 (c)	44.18	3	26.91	4	35.55	3	336	6	257	5	296	6				
Mean	44.11		29.14		36.63		353		266		311					
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)			
Sowing (A)	*		1.12		6.83		**		4.02		24.45		5.92			
Variety (B)	**		1.00		2.92		**		8.76		25.58		6.90			
B within A	**		1.41		4.15		*		12.39		36.18					
A within B			1.72		5.03				12.16		35.49					
	Grains/earhead					1000 Grains weight, g										
DBW 88	29.11	7	37.85	6	33.48	7	37.04	1	21.53	7	29.28	5				
DBW 17 (c)	41.88	2	50.39	2	46.14	2	29.99	7	25.56	4	27.78	7				
HD 2967 (c)	39.73	4	54.06	1	46.89	1	32.01	5	26.21	3	29.11	6				
DPW 621-50 (c)	43.25	1	45.15	3	44.20	3	34.22	3	24.37	6	29.30	4				
HD 3086	33.38	6	40.43	4	36.91	6	35.60	2	25.47	5	30.54	1				
WH 1105 (I)	39.58	5	37.35	7	38.47	5	31.86	6	27.03	1	29.44	3				
PBW 550 (c)	40.27	3	39.47	5	39.87	4	32.79	4	26.75	2	29.77	2				
Mean	38.17		43.53		40.85		33.36		25.28		29.32					
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)			
Sowing (A)	**		0.28		1.68		**		0.24		1.46		3.76			
Variety (B)	**		2.48		7.23		N.S.		1.05		3.05		8.74			
B within A	N.S.		3.50		10.22		*		1.48		4.32					
A within B			3.25		9.50				1.39		4.06					
Date of sowing:	08.11.2012		11.12.2012				Date of harvesting:	04.04.2013		08.04.2013						

Table 2.1.5.		North Western Plains Zone				IR-TS-TAS-DOS				Hisar		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
DBW 88	53.40	2	43.37	2	48.38	2	526	2	460	4	493	4	
DBW 17 (c)	61.73	1	45.75	1	53.74	1	539	1	490	2	515	1	
HD 2967 (c)	43.37	7	34.86	7	39.12	7	470	7	442	6	456	7	
DPW 621-50 (c)	48.98	6	41.67	4	45.32	4	517	4	483	3	500	3	
HD 3086	49.15	5	39.29	5	44.22	6	520	3	507	1	514	2	
WH 1105 (I)	50.68	4	38.27	6	44.47	5	501	5	436	7	469	5	
PBW 550 (c)	51.19	3	43.37	3	47.28	3	472	6	455	5	464	6	
Mean	51.21		40.94		46.08		506		467		487		
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)
Sowing (A)	*		0.74		4.48		*		2.90		17.64		2.73
Variety (B)	**		1.57		4.58		*		14.18		41.40		7.13
B within A	N.S.		2.22		6.48		N.S.		20.06		58.55		
A within B			2.18		6.37				18.79		54.86		
	Grains/earhead						1000 Grains weight, g						
DBW 88	26.73	4	26.92	1	26.82	3	38.03	5	35.30	4	36.67	4	
DBW 17 (c)	28.45	1	23.68	5	26.06	4	40.26	2	39.49	1	39.87	2	
HD 2967 (c)	24.84	5	23.39	6	24.11	5	37.37	6	33.86	6	35.62	6	
DPW 621-50 (c)	27.90	3	26.20	3	27.05	2	34.07	7	32.95	7	33.51	7	
HD 3086	24.44	6	22.61	7	23.53	6	38.70	3	34.41	5	36.56	5	
WH 1105 (I)	21.16	7	23.84	4	22.50	7	47.70	1	36.85	2	42.28	1	
PBW 550 (c)	28.30	2	26.83	2	27.56	1	38.45	4	35.41	3	36.93	3	
Mean	25.98		24.78		25.38		39.23		35.47		37.35		
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)
Sowing (A)	N.S.		0.38		2.31		**		0.21		1.27		2.57
Variety (B)	**		0.79		2.31		**		0.57		1.67		3.74
B within A	N.S.		1.12		3.27		**		0.81		2.36		
A within B			1.10		3.22				0.78		2.27		
Date of sowing:	05.11.2012		16.12.2012		Date of harvesting:		16.04.2013		25.04.2013				

Table 2.1.6.		North Western Plains Zone				IR-TS-TAS-DOS				Karnal		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
DBW 88	59.46	5	53.96	1	56.71	2	395	5	400	5	398	5	
DBW 17 (c)	59.92	3	51.84	3	55.88	3	516	1	502	1	509	1	
HD 2967 (c)	60.83	1	52.98	2	56.90	1	412	4	476	2	444	4	
DPW 621-50 (c)	58.13	7	51.65	4	54.89	6	446	3	465	4	455	3	
HD 3086	59.46	4	50.79	6	55.12	5	494	2	468	3	481	2	
WH 1105 (I)	58.29	6	51.48	5	54.88	7	378	6	386	7	382	7	
PBW 550 (c)	60.46	2	50.33	7	55.39	4	377	7	389	6	383	6	
Mean	59.51		51.86		55.68		431		441		436		
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)
Sowing (A)	**		0.09		0.57		N.S.		5.44		33.11		5.72
Variety (B)	N.S.		0.72		2.09		**		10.03		29.27		5.63
B within A	N.S.		1.01		2.96		N.S.		14.18		41.39		
A within B			0.94		2.76				14.21		41.48		
	Grains/earhead						1000 Grains weight, g						
DBW 88	35.88	3	36.32	2	36.10	3	42.00	3	37.27	1	39.64	2	
DBW 17 (c)	29.06	6	31.30	6	30.18	6	40.07	6	33.13	7	36.60	7	
HD 2967 (c)	33.68	4	31.54	4	32.61	4	43.99	1	35.34	5	39.67	1	
DPW 621-50 (c)	32.99	5	31.43	5	32.21	5	39.71	7	35.35	4	37.53	5	
HD 3086	28.41	7	30.53	7	29.47	7	42.41	2	35.55	3	38.98	3	
WH 1105 (I)	37.99	2	39.70	1	38.85	1	40.61	4	33.61	6	37.11	6	
PBW 550 (c)	39.88	1	35.41	3	37.65	2	40.36	5	36.97	2	38.66	4	
Mean	33.98		33.75		33.87		41.31		35.32		38.31		
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.		C.V.(%)
Sowing (A)	N.S.		0.66		4.03		*		0.43		2.62		5.15
Variety (B)	**		1.04		3.03		**		0.43		1.26		2.75
B within A	N.S.		1.47		4.28		**		0.61		1.78		
A within B			1.51		4.41				0.71		2.07		
Date of sowing:	10.11.2012		12.12.2012		Date of harvesting:		09.04.2013		20.04.2013				

Table 2.1.7.		North Western Plains Zone				IR-TS-TAS-DOS				Ludhiana		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
DBW 88	63.78	3	53.00	4	58.39	4	384	5	300	6	342	5	
DBW 17 (c)	60.00	7	52.44	6	56.22	6	421	1	316	4	369	2	
HD 2967 (c)	61.56	5	52.67	5	57.11	5	407	3	308	5	357	4	
DPW 621-50 (c)	60.67	6	58.00	1	59.33	2	395	4	341	2	368	3	
HD 3086	65.67	1	56.22	2	60.94	1	421	2	346	1	384	1	
WH 1105 (I)	65.11	2	53.44	3	59.28	3	365	6	294	7	330	7	
PBW 550 (c)	62.00	4	49.11	7	55.56	7	358	7	319	3	338	6	
Mean	62.68		53.56		58.12		393		318		355		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.31	1.90	2.46		*		7.80	47.44	10.05		
Variety (B)	N.S.		1.23	3.59	5.18		**		8.11	23.66	5.59		
B within A	N.S.		1.74	5.08			N.S.		11.47	33.47			
A within B			1.64	4.79					13.17	38.44			
	Grains/earhead						1000 Grains weight, g						
DBW 88	41.89	4	48.70	2	45.29	2	40.20	4	36.33	5	38.27	5	
DBW 17 (c)	42.28	3	45.16	4	43.72	3	34.00	7	37.00	4	35.50	7	
HD 2967 (c)	35.39	7	48.39	3	41.89	4	43.23	1	35.33	7	39.28	4	
DPW 621-50 (c)	39.37	5	42.60	5	40.99	6	39.03	5	40.00	1	39.52	3	
HD 3086	38.37	6	41.59	6	39.98	7	40.73	2	39.13	2	39.93	1	
WH 1105 (I)	48.89	1	50.16	1	49.52	1	36.60	6	36.33	5	36.47	6	
PBW 550 (c)	42.85	2	39.85	7	41.35	5	40.43	3	38.67	3	39.55	2	
Mean	41.29		45.21		43.25		39.18		37.54		38.36		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		1.02	6.19	10.77		N.S.		0.43	2.59	5.09		
Variety (B)	**		1.52	4.43	8.60		**		0.70	2.04	4.46		
B within A	*		2.15	6.27			**		0.99	2.88			
A within B			2.23	6.52					1.01	2.94			
Date of sowing:	09.11.2012		13.12.2012				Date of harvesting:	21.04.2013		30.04.2013			

Table 2.1.8.		North Western Plains Zone				IR-TS-TAS-DOS				Nagina		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
DBW 88	43.37	5	35.12	1	39.25	3	383	1	277	2	330	1	
DBW 17 (c)	43.05	6	32.86	5	37.96	6	349	6	242	7	296	7	
HD 2967 (c)	46.17	1	35.00	2	40.59	1	366	3	258	5	312	4	
DPW 621-50 (c)	44.48	3	31.59	7	38.04	5	342	7	257	6	300	6	
HD 3086	42.67	7	32.98	4	37.83	7	379	2	265	3	322	2	
WH 1105 (I)	44.19	4	32.62	6	38.40	4	358	4	284	1	321	3	
PBW 550 (c)	44.64	2	34.41	3	39.53	2	355	5	265	3	310	5	
Mean	44.08		33.51		38.80		362		264		313		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.35	2.16	4.19		**		3.91	23.81	5.73		
Variety (B)	N.S.		0.87	2.54	5.50		**		6.33	18.48	4.96		
B within A	N.S.		1.23	3.60			N.S.		8.95	26.13			
A within B			1.19	3.49					9.17	26.76			
	Grains/earhead						1000 Grains weight, g						
DBW 88	28.46	7	33.98	5	31.22	7	39.83	1	37.26	1	38.54	1	
DBW 17 (c)	31.24	5	37.26	1	34.25	2	39.59	2	36.66	2	38.12	2	
HD 2967 (c)	31.88	3	37.23	2	34.55	1	39.56	3	36.45	6	38.01	5	
DPW 621-50 (c)	32.91	1	33.72	6	33.31	4	39.55	5	36.61	3	38.08	3	
HD 3086	28.51	6	34.17	4	31.34	6	39.53	6	36.47	5	38.00	6	
WH 1105 (I)	31.35	4	31.74	7	31.54	5	39.47	7	36.21	7	37.84	7	
PBW 550 (c)	31.89	2	35.54	3	33.72	3	39.56	3	36.54	4	38.05	4	
Mean	30.89		34.80		32.85		39.59		36.60		38.09		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.72	4.37	10.02		**		0.09	0.58	1.14		
Variety (B)	*		0.81	2.38	6.07		N.S.		0.17	0.50	1.09		
B within A	N.S.		1.15	3.36			N.S.		0.24	0.70			
A within B			1.29	3.75					0.24	0.71			
Date of sowing:	11.11.2012		16.12.2012				Date of harvesting:	10.04.2013		18.04.2013			

Table 2.1.9.		North Western Plains Zone				IR-TS-TAS-DOS				Pantnagar				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk			
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk					
Yield, q/ha						Earhead/sq.m.									
DBW 88	50.97	5	47.67	2	49.32	4	403	4	279	7	341	6			
DBW 17 (c)	53.10	3	50.67	1	51.88	1	406	3	407	2	407	3			
HD 2967 (c)	51.27	4	45.23	5	48.25	6	388	5	382	3	385	4			
DPW 621-50 (c)	48.30	7	46.33	4	47.32	7	385	6	365	5	375	5			
HD 3086	49.90	6	47.67	2	48.78	5	494	1	426	1	460	1			
WH 1105 (I)	55.37	2	45.13	6	50.25	2	348	7	323	6	335	7			
PBW 550 (c)	55.93	1	43.50	7	49.72	3	454	2	367	4	411	2			
Mean	52.12		46.60		49.36		411		364		388				
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)				
Sowing (A)	*		0.46	2.77	4.23		N.S.		8.96	54.54	10.59				
Variety (B)	N.S.		1.26	3.67	6.24		**		13.62	39.75	8.60				
B within A	*		1.78	5.19			*		19.26	56.22					
A within B			1.71	4.99					19.96	58.25					
Grains/earhead						1000 Grains weight, g									
DBW 88	34.03	5	45.49	1	39.76	2	37.40	4	38.03	1	37.72	2			
DBW 17 (c)	37.82	2	36.93	4	37.37	3	34.73	7	33.93	7	34.33	7			
HD 2967 (c)	32.85	6	34.48	5	33.66	6	40.37	2	35.07	4	37.72	2			
DPW 621-50 (c)	34.12	4	37.09	3	35.61	4	36.70	5	34.53	6	35.62	5			
HD 3086	24.98	7	32.49	7	28.73	7	40.90	1	34.80	5	37.85	1			
WH 1105 (I)	42.53	1	39.58	2	41.06	1	37.90	3	35.73	2	36.82	4			
PBW 550 (c)	35.68	3	33.50	6	34.59	5	34.93	6	35.53	3	35.23	6			
Mean	34.57		37.08		35.83		37.56		35.38		36.47				
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)				
Sowing (A)	N.S.		0.56	3.42	7.18		N.S.		0.74	4.48	9.24				
Variety (B)	**		1.86	5.44	12.74		N.S.		0.92	2.70	6.20				
B within A	N.S.		2.64	7.69			N.S.		1.31	3.81					
A within B			2.50	7.31					1.42	4.13					
Date of sowing:	05.11.2012		10.12.2012				Date of harvesting:	17.04.2013		17.04.2013					

Table 2.2.1.		North Western Plains Zone				IR-TS-TDM-DOS				Agra				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk			
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk					
Yield, q/ha						Earhead/sq.m.									
HI 8728 (d)	44.67	4	28.00	5	36.33	5	523	5	403	5	463	5			
PDW 291 (c)	45.00	3	29.50	4	37.25	4	523	4	416	4	469	4			
HD 2967 (c)	45.33	2	29.60	3	37.47	3	524	3	422	3	473	3			
PDW 314 (c)	44.67	4	30.33	2	37.50	2	531	2	430	2	480	2			
DBW 17 (c)	47.04	1	31.30	1	39.17	1	548	1	434	1	491	1			
Mean	45.34		29.75		37.54		530		421		475				
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)				
Sowing (A)	**		0.20	1.20	2.03		**		1.28	7.81	1.05				
Variety (B)	N.S.		0.98	2.95	6.43		**		2.01	6.02	1.03				
B within A	N.S.		1.39	4.18			*		2.84	8.51					
A within B			1.26	3.78					2.84	8.53					
Grains/earhead						1000 Grains weight, g									
HI 8728 (d)	22.88	3	19.78	4	21.33	5	37.36	4	35.20	2	36.28	2			
PDW 291 (c)	23.40	1	20.42	3	21.91	1	36.80	5	34.72	3	35.76	5			
HD 2967 (c)	23.16	2	19.71	5	21.43	3	37.37	3	35.57	1	36.47	1			
PDW 314 (c)	22.37	5	20.48	2	21.42	4	37.60	2	34.57	4	36.08	3			
DBW 17 (c)	22.73	4	20.98	1	21.85	2	37.77	1	34.40	5	36.08	3			
Mean	22.91		20.27		21.59		37.38		34.89		36.14				
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)				
Sowing (A)	*		0.32	1.94	5.73		N.S.		0.50	3.04	5.35				
Variety (B)	N.S.		0.62	1.87	7.08		N.S.		0.34	1.01	2.28				
B within A	N.S.		0.88	2.65			N.S.		0.48	1.43					
A within B			0.85	2.55					0.66	1.97					
Date of sowing:	04.11.2012		30.11.2012				Date of harvesting:	10.04.2013		15.04.2013					

Table 2.2.2.		North Western Plains Zone				IR-TS-TDM-DOS		Durgapura				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
HI 8728 (d)	60.81	1	48.67	4	54.74	1	478	1	419	2	449	1	
PDW 291 (c)	57.68	2	50.78	1	54.23	2	450	2	426	1	438	2	
HD 2967 (c)	53.46	4	48.87	3	51.17	4	417	4	410	4	413	5	
PDW 314 (c)	55.55	3	45.00	5	50.27	5	433	3	409	5	421	3	
DBW 17 (c)	53.15	5	50.64	2	51.90	3	414	5	415	3	415	4	
Mean	56.13		48.79		52.46		438		416		427		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	*		0.81	4.93	5.98		N.S.		5.40	32.87	4.90		
Variety (B)	N.S.		1.34	4.03	6.28		N.S.		10.25	30.73	5.88		
B within A	N.S.		1.90	5.70			N.S.		14.50	43.47			
A within B			1.88	5.65					14.05	42.11			
	Grains/earhead						1000 Grains weight, g						
HI 8728 (d)	26.70	5	25.89	5	26.30	5	47.73	1	45.00	1	46.37	1	
PDW 291 (c)	29.98	3	29.50	3	29.74	3	43.00	3	41.00	2	42.00	2	
HD 2967 (c)	34.45	1	33.49	1	33.97	1	37.27	5	35.87	5	36.57	5	
PDW 314 (c)	29.95	4	27.82	4	28.88	4	43.23	2	39.80	3	41.52	3	
DBW 17 (c)	33.70	2	33.15	2	33.43	2	38.13	4	36.83	4	37.48	4	
Mean	30.96		29.97		30.46		41.87		39.70		40.79		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.79	4.78	9.99		N.S.		0.45	2.74	4.27		
Variety (B)	**		1.14	3.41	9.14		**		1.19	3.56	7.14		
B within A	N.S.		1.61	4.82			N.S.		1.68	5.04			
A within B			1.64	4.91					1.57	4.71			
Date of sowing:	03.11.2012		30.11.2012		Date of harvesting:		02.04.2013		12.04.2013				

Table 2.2.3.		North Western Plains Zone				IR-TS-TDM-DOS		Gurdaspur				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
HI 8728 (d)	41.16	2	37.07	5	39.12	4	324	5	265	5	294	5	
PDW 291 (c)	30.27	5	42.69	3	36.48	5	412	1	364	2	388	2	
HD 2967 (c)	36.14	4	44.56	2	40.35	2	332	4	348	4	340	4	
PDW 314 (c)	44.98	1	44.73	1	44.86	1	392	2	360	3	376	3	
DBW 17 (c)	38.01	3	41.67	4	39.84	3	374	3	404	1	389	1	
Mean	38.11		42.14		40.13		367		348		357		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		1.75	10.67	16.92		N.S.		3.79	23.07	4.11		
Variety (B)	*		1.57	4.72	9.60		**		7.79	23.35	5.34		
B within A	*		2.22	6.67			**		11.02	33.02			
A within B			2.65	7.95					10.56	31.65			
	Grains/earhead						1000 Grains weight, g						
HI 8728 (d)	24.17	4	29.23	3	26.70	4	52.60	2	47.87	1	50.23	2	
PDW 291 (c)	12.79	5	26.34	5	19.56	5	57.47	1	44.73	2	51.10	1	
HD 2967 (c)	25.36	2	33.31	1	29.34	1	43.27	4	38.53	4	40.90	4	
PDW 314 (c)	24.60	3	31.50	2	28.05	2	46.67	3	39.80	3	43.23	3	
DBW 17 (c)	26.52	1	28.08	4	27.30	3	38.53	5	36.80	5	37.67	5	
Mean	22.69		29.69		26.19		47.71		41.55		44.63		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		1.30	7.91	19.23		**		0.42	2.54	3.62		
Variety (B)	**		1.41	4.24	13.23		**		0.71	2.14	3.91		
B within A	N.S.		2.00	6.00			**		1.01	3.02			
A within B			2.21	6.63					0.99	2.98			
Date of sowing:	02.11.2012		27.11.2012		Date of harvesting:		25.04.2013		02.05.2013				

Table 2.2.4.		North Western Plains Zone				IR-TS-TDM-DOS				Hisar		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
HI 8728 (d)	53.91	4	46.94	3	50.43	3	490	4	434	4	462	4	
PDW 291 (c)	54.93	3	44.73	4	49.83	4	552	1	509	1	531	1	
HD 2967 (c)	48.64	5	43.20	5	45.92	5	439	5	428	5	433	5	
PDW 314 (c)	56.80	2	47.45	2	52.13	2	497	3	474	3	486	3	
DBW 17 (c)	58.30	1	49.32	1	53.81	1	515	2	489	2	502	2	
Mean	54.52		46.33		50.42		499		467		483		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.35	2.14	2.70		N.S.		11.52	70.13	9.25		
Variety (B)	*		1.38	4.14	6.71		**		13.16	39.46	6.68		
B within A	N.S.		1.95	5.85			N.S.		18.61	55.80			
A within B			1.78	5.34					20.25	60.70			
	Grains/earhead						1000 Grains weight, g						
HI 8728 (d)	23.41	4	24.15	4	23.78	4	47.06	1	44.89	1	45.98	1	
PDW 291 (c)	21.98	5	20.65	5	21.32	5	45.25	2	42.72	2	43.98	2	
HD 2967 (c)	31.42	1	30.37	1	30.90	1	35.37	5	33.24	5	34.30	5	
PDW 314 (c)	28.40	2	27.68	3	28.04	2	40.33	4	36.22	4	38.28	4	
DBW 17 (c)	27.93	3	27.71	2	27.82	3	40.55	3	36.41	3	38.48	3	
Mean	26.63		26.11		26.37		41.71		38.70		40.20		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.68	4.16	10.05		*		0.38	2.28	3.62		
Variety (B)	**		0.63	1.88	5.82		**		0.57	1.72	3.49		
B within A	N.S.		0.89	2.66			N.S.		0.81	2.43			
A within B			1.05	3.14					0.82	2.45			
Date of sowing:	29.10.2012		02.12.2012				Date of harvesting:	15.04.2013		26.04.2013			

Table 2.2.5.		North Western Plains Zone				IR-TS-TDM-DOS				Karnal		2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
HI 8728 (d)	54.52	4	51.15	4	52.84	4	489	5	418	5	453	5	
PDW 291 (c)	53.77	5	47.66	5	50.71	5	564	1	504	2	534	1	
HD 2967 (c)	59.08	1	51.21	3	55.14	3	523	3	456	4	489	4	
PDW 314 (c)	58.49	2	60.72	1	59.61	1	519	4	516	1	518	2	
DBW 17 (c)	56.71	3	54.73	2	55.72	2	538	2	460	3	499	3	
Mean	56.51		53.10		54.80		527		471		499		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	(A)	*	0.27	1.64	1.90		*		4.11	25.01	3.19		
Variety (B)	(B)	**	0.70	2.10	3.14		**		13.54	40.60	6.65		
B within A	**		0.99	2.97			N.S.		19.15	57.41			
A within B			0.93	2.78					17.61	52.81			
	Grains/earhead						1000 Grains weight, g						
HI 8728 (d)	28.03	4	23.80	4	25.91	4	40.39	1	51.70	2	46.05	1	
PDW 291 (c)	25.17	5	18.28	5	21.73	5	37.88	2	52.06	1	44.97	2	
HD 2967 (c)	30.85	2	28.97	3	29.91	2	36.70	4	39.43	4	38.06	4	
PDW 314 (c)	29.93	3	29.02	2	29.47	3	37.86	3	40.79	3	39.33	3	
DBW 17 (c)	32.21	1	31.52	1	31.87	1	32.93	5	37.84	5	35.39	5	
Mean	29.24		26.32		27.78		37.15		44.36		40.76		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	*		0.34	2.07	4.74		**		0.32	1.96	3.06		
Variety (B)	**		0.95	2.84	8.36		**		0.59	1.75	3.52		
B within A	N.S.		1.34	4.02			**		0.83	2.48			
A within B			1.25	3.74					0.81	2.42			
Date of sowing:	01.11.2012		02.12.2012				Date of harvesting:	14.04.2012		22.04.2013			

Table 2.2.6.		North Western Plains Zone				IR-TS-TDM-DOS		Ludhiana				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
HI 8728 (d)	56.44	3	54.00	3	55.22	3	401	5	357	4	379	5	
PDW 291 (c)	55.78	4	52.89	4	54.33	4	454	1	395	1	425	1	
HD 2967 (c)	58.11	2	56.78	1	57.44	2	407	4	353	5	380	4	
PDW 314 (c)	60.89	1	56.44	2	58.67	1	433	2	359	3	396	3	
DBW 17 (c)	48.89	5	42.33	5	45.61	5	431	3	370	2	400	2	
Mean	56.02		52.49		54.26		425		367		396		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.05	0.33	0.39		*		8.82	53.70	8.63		
Variety (B)	**		1.23	3.69	5.55		N.S.		10.76	32.26	6.65		
B within A	N.S.		1.74	5.22			N.S.		15.22	45.62			
A within B			1.56	4.67					16.22	48.63			
	Grains/earhead						1000 Grains weight, g						
HI 8728 (d)	30.23	4	40.62	4	35.43	4	46.77	1	37.33	3	42.05	1	
PDW 291 (c)	29.36	5	34.87	5	32.12	5	41.90	2	38.40	2	40.15	2	
HD 2967 (c)	34.52	3	44.78	1	39.65	1	41.50	3	36.20	4	38.85	4	
PDW 314 (c)	35.06	2	41.07	2	38.07	3	40.37	4	38.60	1	39.48	3	
DBW 17 (c)	35.68	1	40.86	3	38.27	2	32.03	5	28.33	5	30.18	5	
Mean	32.97		40.44		36.71		40.51		35.77		38.14		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		1.44	8.74	15.16		*		0.55	3.33	5.56		
Variety (B)	*		1.49	4.46	9.92		**		0.65	1.95	4.17		
B within A	N.S.		2.10	6.31			**		0.92	2.75			
A within B			2.37	7.10					0.99	2.96			
Date of sowing:	01.11.2012		28.11.2012		Date of harvesting:		24.04.2013		30.04.2013				

Table 2.2.7.		North Western Plains Zone				IR-TS-TDM-DOS		Nagina				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
HI 8728 (d)	46.22	2	36.17	2	41.20	2	379	1	291	1	335	1	
PDW 291 (c)	46.47	1	37.91	1	42.19	1	376	2	288	2	332	2	
HD 2967 (c)	40.79	5	29.24	5	35.01	5	345	5	253	5	299	5	
PDW 314 (c)	43.87	3	31.73	4	37.80	4	348	4	257	4	303	4	
DBW 17 (c)	41.97	4	34.41	3	38.19	3	357	3	275	3	316	3	
Mean	43.86		33.89		38.88		361		273		317		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.66	4.00	6.54		**		3.56	21.69	4.36		
Variety (B)	**		1.19	3.57	7.50		**		6.88	20.63	5.32		
B within A	N.S.		1.68	5.05			N.S.		9.73	29.18			
A within B			1.64	4.92					9.41	28.20			
	Grains/earhead						1000 Grains weight, g						
HI 8728 (d)	30.96	3	33.70	3	32.33	3	39.40	2	36.93	1	38.16	1	
PDW 291 (c)	31.37	2	35.73	1	33.55	1	39.39	3	36.91	2	38.15	2	
HD 2967 (c)	30.45	4	32.19	5	31.32	5	38.91	4	35.97	5	37.44	5	
PDW 314 (c)	32.77	1	33.59	4	33.18	2	38.67	5	36.76	4	37.72	4	
DBW 17 (c)	29.83	5	34.08	2	31.95	4	39.43	1	36.80	3	38.12	3	
Mean	31.08		33.86		32.47		39.16		36.68		37.92		
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.98	5.97	11.69		*		0.23	1.41	2.36		
Variety (B)	N.S.		1.16	3.47	8.73		**		0.08	0.25	0.55		
B within A	N.S.		1.64	4.91			**		0.12	0.36			
A within B			1.76	5.28					0.26	0.77			
Date of sowing:	04.11.2012		02.12.2012		Date of harvesting:		06.04.2013		18.04.2013				

Table 2.2.8.		North Western Plains Zone				IR-TS-TDM-DOS		Pantnagar				2012-13				
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk				
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk						
	Yield, q/ha						Earhead/sq.m.									
HI 8728 (d)	45.40	4	43.47	5	44.43	4	397	5	318	5	358	5				
PDW 291 (c)	44.30	5	44.47	4	44.38	5	502	2	413	2	458	2				
HD 2967 (c)	47.70	3	45.60	3	46.65	3	418	4	397	3	408	4				
PDW 314 (c)	53.40	1	47.63	2	50.52	1	490	3	368	4	429	3				
DBW 17 (c)	52.43	2	48.17	1	50.30	2	512	1	423	1	468	1				
Mean	48.65		45.87		47.26		464		384		424					
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Sowing (A)	N.S.		1.13		6.90		9.30		*		8.76		53.30		8.00	
Variety (B)	**		1.01		3.02		5.22		**		14.83		44.48		8.57	
B within A	N.S.		1.42		4.27				N.S.		20.98		62.90			
A within B			1.71		5.11						20.71		62.09			
	Grains/earhead						1000 Grains weight, g									
HI 8728 (d)	28.17	2	29.18	4	28.67	3	40.83	3	47.13	1	43.98	2				
PDW 291 (c)	16.91	5	23.98	5	20.44	5	52.43	1	45.20	2	48.82	1				
HD 2967 (c)	26.95	3	29.46	3	28.21	4	42.93	2	39.00	4	40.97	3				
PDW 314 (c)	29.67	1	32.89	2	31.28	1	38.03	5	39.60	3	38.82	4				
DBW 17 (c)	25.58	4	33.10	1	29.34	2	40.20	4	34.47	5	37.33	5				
Mean	25.46		29.72		27.59		42.89		41.08		41.98					
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Sowing (A)	*		0.34		2.06		4.76		*		0.17		1.05		1.59	
Variety (B)	**		1.48		4.43		13.13		**		0.91		2.74		5.33	
B within A	N.S.		2.09		6.27				**		1.29		3.88			
A within B			1.90		5.70						1.17		3.51			
Date of sowing:	29.10.2012		26.11.2012				Date of harvesting:		16.04.2013		16.04.2013					

Table 2.3.1.		North Western Plains Zone				IR-LS-TAS-DOS		Agra				2012-13				
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk				
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk						
	Yield, q/ha						Earhead/sq.m.									
WH 1124	49.97	4	34.83	5	42.40	4	545	5	470	4	507	4				
HD 3091	51.00	3	35.07	4	43.03	3	550	2	504	3	527	3				
WH 1021 (c)	51.23	2	35.23	2	43.23	2	549	3	506	2	527	2				
PBW 590 (c)	51.92	1	35.42	1	43.67	1	555	1	510	1	532	1				
HD 3059 (I)	49.68	5	34.57	6	42.13	6	546	4	462	5	504	5				
DBW 90	49.43	6	35.13	3	42.28	5	533	6	453	6	493	6				
PBW 373 (c)	48.90	7	33.77	7	41.33	7	527	8	452	7	489	7				
DBW 71 (I)	48.53	8	33.67	8	41.10	8	528	7	447	8	488	8				
Mean	50.08		34.71		42.40		542		475		508					
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Sowing (A)	**		0.11		0.68		1.29		*		8.13		49.45		7.83	
Variety (B)	**		0.19		0.56		1.11		**		8.58		24.86		4.13	
B within A	**		0.27		0.79				N.S.		12.14		35.16			
A within B			0.28		0.81						13.96		40.44			
	Grains/earhead						1000 Grains weight, g									
WH 1124	23.44	8	20.93	2	22.18	3	39.17	4	35.47	6	37.32	4				
HD 3091	23.45	7	18.71	8	21.08	8	39.54	1	37.45	2	38.49	2				
WH 1021 (c)	24.59	1	19.44	6	22.02	6	38.00	8	36.06	4	37.03	7				
PBW 590 (c)	24.46	2	19.82	5	22.14	4	38.29	6	35.25	8	36.77	8				
HD 3059 (I)	23.87	3	20.81	3	22.34	2	38.17	7	35.95	5	37.06	6				
DBW 90	23.64	5	21.97	1	22.80	1	39.27	2	35.27	7	37.27	5				
PBW 373 (c)	23.66	4	18.84	7	21.25	7	39.23	3	39.70	1	39.46	1				
DBW 71 (I)	23.63	6	20.59	4	22.11	5	38.89	5	36.57	3	37.73	3				
Mean	23.84		20.14		21.99		38.82		36.46		37.64					
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Sowing (A)	**		0.26		1.57		5.76		*		0.18		1.08		2.30	
Variety (B)	N.S.		0.37		1.08		4.15		**		0.40		1.16		2.60	
B within A	*		0.53		1.52				*		0.56		1.63			
A within B			0.56		1.61						0.56		1.61			
Date of sowing:	12.12.2012		05.01.2013				Date of harvesting:		05.01.2013		06.04.2013					

Table 2.3.2.		North Western Plains Zone				IR-LS-TAS-DOS		Durgapura				2012-13		
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk		
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk				
	Yield, q/ha						Earhead/sq.m.							
WH 1124	37.22	7	29.04	2	33.13	6	394	8	348	2	371	6		
HD 3091	40.11	5	26.35	3	33.23	5	432	5	328	3	380	3		
WH 1021 (c)	44.90	1	31.04	1	37.97	1	467	2	378	1	423	1		
PBW 590 (c)	39.23	6	24.46	6	31.84	7	408	6	306	6	357	7		
HD 3059 (I)	36.90	8	23.01	8	29.96	8	398	7	300	8	349	8		
DBW 90	42.77	4	25.47	5	34.12	3	437	4	312	5	375	5		
PBW 373 (c)	44.62	2	26.28	4	35.45	2	469	1	324	4	397	2		
DBW 71 (I)	43.39	3	24.21	7	33.80	4	452	3	304	7	378	4		
Mean	41.14		26.23		33.69		432		325		379			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	**				0.66	4.02	9.60	**				3.84	23.36	4.97
Variety (B)	*				1.38	3.99	10.01	**				9.06	26.25	5.86
B within A	N.S.				1.95	5.64		*				12.82	37.13	
A within B					1.94	5.61						12.59	36.46	
	Grains/earhead						1000 Grains weight, g							
WH 1124	24.04	7	24.52	3	24.28	5	39.27	1	34.30	3	36.78	2		
HD 3091	26.51	2	25.81	1	26.16	1	35.03	8	31.33	8	33.18	8		
WH 1021 (c)	26.58	1	25.41	2	25.99	2	36.13	7	32.90	7	34.52	7		
PBW 590 (c)	25.35	4	22.63	7	23.99	7	37.97	6	35.43	1	36.70	3		
HD 3059 (I)	23.89	8	21.89	8	22.89	8	38.97	3	35.03	2	37.00	1		
DBW 90	25.42	3	24.14	4	24.78	3	38.60	5	33.93	6	36.27	6		
PBW 373 (c)	24.72	5	23.85	5	24.28	4	38.63	4	34.00	4	36.32	5		
DBW 71 (I)	24.70	6	23.53	6	24.12	6	38.97	2	34.00	4	36.48	4		
Mean	25.15		23.97		24.56		37.95		33.87		35.91			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	N.S.				0.81	4.91	16.09	N.S.				0.76	4.60	10.31
Variety (B)	N.S.				1.11	3.21	11.05	N.S.				1.01	2.93	6.90
B within A	N.S.				1.57	4.54		N.S.				1.43	4.14	
A within B					1.67	4.85						1.54	4.45	
Date of sowing:	11.12.2012				01.01.2013		Date of harvesting:	01.01.2013				15.04.2013		

Table 2.3.3.		North Western Plains Zone				IR-LS-TAS-DOS		Gurdaspur				2012-13		
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk		
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk				
	Yield, q/ha						Earhead/sq.m.							
WH 1124	38.55	2	32.09	3	35.32	2	346	2	311	7	329	6		
HD 3091	36.08	6	31.20	5	33.64	7	327	7	345	2	336	3		
WH 1021 (c)	36.39	5	31.90	4	34.15	4	315	8	322	6	318	8		
PBW 590 (c)	36.01	7	32.86	2	34.43	3	337	3	311	8	324	7		
HD 3059 (I)	40.69	1	34.63	1	37.66	1	336	4	325	5	331	5		
DBW 90	37.08	4	30.73	6	33.90	6	332	6	353	1	343	2		
PBW 373 (c)	38.13	3	29.69	8	33.91	5	335	5	332	3	333	4		
DBW 71 (I)	34.29	8	30.14	7	32.21	8	356	1	329	4	343	1		
Mean	37.15		31.65		34.40		335		329		332			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	N.S.				1.25	7.62	17.83	N.S.				5.88	35.76	8.67
Variety (B)	N.S.				1.19	3.44	8.47	N.S.				14.51	42.02	10.70
B within A	N.S.				1.68	4.87		N.S.				20.52	59.43	
A within B					2.01	5.82						20.07	58.14	
	Grains/earhead						1000 Grains weight, g							
WH 1124	29.55	3	27.93	2	28.74	3	38.33	7	37.53	4	37.93	6		
HD 3091	31.32	1	27.01	5	29.17	2	35.87	8	34.07	8	34.97	8		
WH 1021 (c)	29.19	5	27.48	4	28.34	4	39.67	4	36.27	7	37.97	5		
PBW 590 (c)	27.45	6	27.69	3	27.57	5	39.13	5	38.07	2	38.60	4		
HD 3059 (I)	30.56	2	28.47	1	29.52	1	39.93	2	37.40	5	38.67	3		
DBW 90	29.42	4	23.93	6	26.68	6	38.40	6	36.80	6	37.60	7		
PBW 373 (c)	27.35	7	23.66	7	25.50	7	41.67	1	37.87	3	39.77	1		
DBW 71 (I)	24.11	8	22.98	8	23.55	8	39.73	3	39.80	1	39.77	1		
Mean	28.62		26.14		27.38		39.09		37.23		38.16			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	N.S.				0.51	3.11	9.13	**				0.03	0.16	0.33
Variety (B)	N.S.				1.44	4.17	12.89	**				0.70	2.01	4.46
B within A	N.S.				2.04	5.90		N.S.				0.98	2.85	
A within B					1.97	5.71						0.92	2.67	
Date of sowing:	11.12.2012				01.01.2013		Date of harvesting:	01.01.2013				04.05.2013		

Table 2.3.4.		North Western Plains Zone				IR-LS-TAS-DOS		Hisar				2012-13		
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk		
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk				
	Yield, q/ha						Earhead/sq.m.							
WH 1124	42.52	2	36.66	2	39.59	2	444	5	368	6	406	5		
HD 3091	40.82	4	34.96	4	37.89	4	450	3	420	3	435	3		
WH 1021 (c)	39.12	5	34.01	6	36.56	5	417	6	346	8	382	8		
PBW 590 (c)	43.08	1	38.93	1	41.01	1	453	2	425	2	439	2		
HD 3059 (I)	37.98	7	33.64	7	35.81	7	413	7	398	5	406	6		
DBW 90	38.74	6	34.20	5	36.47	6	447	4	408	4	427	4		
PBW 373 (c)	36.28	8	28.91	8	32.60	8	409	8	357	7	383	7		
DBW 71 (I)	42.14	3	35.34	3	38.74	3	462	1	428	1	445	1		
Mean	40.08		34.58		37.33		437		394		415			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	*				0.59	3.57	7.69	**				2.60	15.85	3.07
Variety (B)	*				1.56	4.51	10.22	*				15.29	44.29	9.02
B within A	N.S.				2.20	6.38		N.S.				21.63	62.64	
A within B					2.14	6.21						20.40	59.08	
	Grains/earhead						1000 Grains weight, g							
WH 1124	25.81	4	29.48	3	27.64	3	37.46	2	34.22	1	35.84	2		
HD 3091	30.48	1	30.00	2	30.24	1	29.83	8	27.85	8	28.84	8		
WH 1021 (c)	26.37	2	32.89	1	29.63	2	35.46	6	29.80	6	32.63	6		
PBW 590 (c)	24.52	7	27.41	5	25.96	6	38.92	1	33.41	2	36.16	1		
HD 3059 (I)	25.45	5	26.70	6	26.08	5	36.10	4	31.52	5	33.81	5		
DBW 90	23.75	8	26.09	7	24.92	8	36.46	3	32.25	4	34.36	3		
PBW 373 (c)	24.77	6	28.46	4	26.61	4	35.99	5	28.64	7	32.32	7		
DBW 71 (I)	25.89	3	24.71	8	25.30	7	35.27	7	33.38	3	34.32	4		
Mean	25.88		28.22		27.05		35.69		31.38		33.54			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	**				0.13	0.80	2.37	**				0.18	1.07	2.56
Variety (B)	**				0.94	2.72	8.49	**				0.62	1.79	4.51
B within A	N.S.				1.33	3.84		N.S.				0.87	2.53	
A within B					1.25	3.61						0.84	2.42	
Date of sowing:	15.12.2012		07.01.2013		Date of harvesting:		07.01.2013		28.04.2013					

Table 2.3.5.		North Western Plains Zone				IR-LS-TAS-DOS		Karnal				2012-13		
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk		
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk				
	Yield, q/ha						Earhead/sq.m.							
WH 1124	49.21	5	42.79	5	46.00	6	492	3	465	5	478	4		
HD 3091	52.31	2	41.31	7	46.81	4	485	5	442	6	463	6		
WH 1021 (c)	51.25	3	45.22	2	48.23	3	487	4	503	1	495	2		
PBW 590 (c)	47.42	7	42.33	6	44.88	7	420	8	432	7	426	8		
HD 3059 (I)	55.12	1	44.91	3	50.02	1	445	7	425	8	435	7		
DBW 90	50.41	4	46.15	1	48.28	2	467	6	485	2	476	5		
PBW 373 (c)	40.06	8	34.63	8	37.35	8	543	1	483	3	513	1		
DBW 71 (I)	49.07	6	43.21	4	46.14	5	498	2	472	4	485	3		
Mean	49.36		42.57		45.96		480		463		471			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	*				0.66	4.04	7.07	N.S.				5.08	30.94	5.28
Variety (B)	**				1.01	2.94	5.40	**				15.92	46.12	8.27
B within A	N.S.				1.43	4.15		N.S.				22.52	65.22	
A within B					1.50	4.33						21.67	62.76	
	Grains/earhead						1000 Grains weight, g							
WH 1124	27.76	6	24.64	6	26.20	6	36.17	3	37.45	3	36.81	3		
HD 3091	33.26	1	30.07	1	31.67	1	32.54	8	31.06	8	31.80	8		
WH 1021 (c)	29.72	5	25.88	4	27.80	5	35.54	5	34.82	5	35.18	5		
PBW 590 (c)	31.85	3	28.89	2	30.37	2	35.53	6	34.61	6	35.07	6		
HD 3059 (I)	33.03	2	27.59	3	30.31	3	37.66	2	38.37	1	38.02	2		
DBW 90	30.11	4	25.81	5	27.96	4	36.08	4	37.06	4	36.57	4		
PBW 373 (c)	21.99	8	22.56	8	22.27	8	33.71	7	31.79	7	32.75	7		
DBW 71 (I)	25.20	7	24.03	7	24.61	7	39.39	1	38.21	2	38.80	1		
Mean	29.11		26.18		27.65		35.83		35.42		35.63			
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test				S.E.m	C.D.	C.V.(%)
Sowing (A)	**				0.11	0.69	2.00	*				0.04	0.27	0.61
Variety (B)	**				1.07	3.10	9.47	**				0.47	1.36	3.23
B within A	N.S.				1.51	4.38		N.S.				0.66	1.93	
A within B					1.42	4.11						0.62	1.81	
Date of sowing:	12.12.2012		02.01.2013		Date of harvesting:		02.01.2013		12.04.2013					

Table 2.3.6.		North Western Plains Zone				IR-LS-TAS-DOS		Ludhiana				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
WH 1124	50.22	3	37.33	1	43.78	1	382	1	267	5	324	2	
HD 3091	51.89	1	33.89	3	42.89	2	358	3	268	4	313	4	
WH 1021 (c)	44.89	7	22.00	8	33.44	8	335	8	231	8	283	8	
PBW 590 (c)	43.22	8	30.00	6	36.61	7	350	5	266	6	308	6	
HD 3059 (I)	51.56	2	30.89	5	41.22	4	345	7	253	7	299	7	
DBW 90	48.00	4	33.11	4	40.56	5	372	2	327	1	350	1	
PBW 373 (c)	47.56	5	26.89	7	37.22	6	346	6	286	2	316	3	
DBW 71 (I)	47.56	6	35.11	2	41.33	3	357	4	269	3	313	5	
Mean	48.11		31.15		39.63		356		271		313		
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.48		2.91		5.92	**		3.83		23.32	6.00
Variety (B)	**		0.72		2.07		4.42	*		10.65		30.86	8.33
B within A	**		1.01		2.93			N.S.		15.07		43.64	
A within B			1.06		3.07					14.61		42.30	
	Grains/earhead						1000 Grains weight, g						
WH 1124	29.96	5	36.85	3	33.40	3	44.00	6	38.49	1	41.24	1	
HD 3091	33.51	1	40.08	1	36.79	1	43.33	7	31.56	7	37.44	7	
WH 1021 (c)	31.57	3	28.13	7	29.85	6	42.50	8	34.16	5	38.33	6	
PBW 590 (c)	27.94	8	30.38	6	29.16	7	44.40	5	37.38	2	40.89	2	
HD 3059 (I)	32.75	2	37.01	2	34.88	2	45.80	1	33.15	6	39.47	5	
DBW 90	29.06	7	36.45	4	32.75	4	44.43	3	28.43	8	36.43	8	
PBW 373 (c)	30.98	4	25.34	8	28.16	8	44.43	3	37.30	3	40.87	3	
DBW 71 (I)	29.75	6	35.73	5	32.74	5	44.97	2	36.65	4	40.81	4	
Mean	30.69		33.74		32.22		44.23		34.64		39.44		
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.53		3.21		8.03	**		0.44		2.70	5.52
Variety (B)	**		1.30		3.76		9.88	**		0.81		2.34	5.02
B within A	**		1.84		5.32			**		1.14		3.31	
A within B			1.80		5.21					1.16		3.35	
Date of sowing:	13.12.2012		05.01.2013		Date of harvesting:		05.01.2013		30.04.2013				

Table 2.3.7.		North Western Plains Zone				IR-LS-TAS-DOS		Nagina				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk			
	Yield, q/ha						Earhead/sq.m.						
WH 1124	41.44	2	33.36	1	37.40	1	329	1	313	1	321	1	
HD 3091	36.65	8	31.48	2	34.06	6	315	6	241	2	278	2	
WH 1021 (c)	39.11	6	27.31	8	33.21	8	325	3	214	8	270	6	
PBW 590 (c)	39.52	5	28.70	5	34.11	5	320	4	231	4	275	4	
HD 3059 (I)	41.34	3	28.71	4	35.02	2	316	5	233	3	275	5	
DBW 90	40.31	4	28.41	6	34.36	4	315	7	222	7	269	7	
PBW 373 (c)	37.62	7	29.68	3	33.65	7	310	8	227	6	268	8	
DBW 71 (I)	41.45	1	28.29	7	34.87	3	326	2	229	5	278	3	
Mean	39.68		29.49		34.59		320		239		279		
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**		0.29		1.78		4.14	**		2.84		17.28	4.98
Variety (B)	**		0.66		1.90		4.66	**		4.76		13.78	4.17
B within A	**		0.93		2.69			**		6.73		19.48	
A within B			0.92		2.66					6.90		20.00	
	1000 Grains weight, g						1000 Grains weight, g						
WH 1124	33.21	4	30.48	8	31.84	8	37.95	1	35.04	3	36.49	2	
HD 3091	30.86	8	37.87	2	34.37	6	37.71	3	34.44	5	36.07	5	
WH 1021 (c)	31.92	7	36.56	4	34.24	7	37.68	7	35.24	2	36.46	3	
PBW 590 (c)	32.82	5	36.20	5	34.51	4	37.70	6	34.37	8	36.03	7	
HD 3059 (I)	34.66	1	35.87	6	35.27	2	37.70	5	34.37	7	36.04	6	
DBW 90	33.97	2	37.05	3	35.51	1	37.71	3	34.55	4	36.13	4	
PBW 373 (c)	32.26	6	38.01	1	35.14	3	37.67	8	34.40	6	36.03	8	
DBW 71 (I)	33.61	3	35.13	7	34.37	5	37.82	2	35.25	1	36.53	1	
Mean	32.92		35.90		34.41		37.74		34.71		36.22		
	F. Test				S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.		0.74		4.48		10.47	**		0.04		0.26	0.58
Variety (B)	N.S.		0.75		2.17		5.34	**		0.09		0.25	0.59
B within A	**		1.06		3.07			**		0.12		0.36	
A within B			1.24		3.58					0.12		0.36	
Date of sowing:	11.12.2012		07.01.2013		Date of harvesting:		07.01.2013		28.04.2013				

Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk
	Late	Rk	Very Late	Rk			Late	Rk	Very Late	Rk		
Yield, q/ha												
WH 1124	44.53	6	41.00	4	42.77	6	469	2	432	6	450	5
HD 3091	48.33	1	46.27	1	47.30	1	517	1	496	1	506	1
WH 1021 (c)	43.10	7	40.93	5	42.02	7	432	5	470	3	451	4
PBW 590 (c)	46.53	2	41.43	3	43.98	2	348	8	378	8	363	8
HD 3059 (l)	46.43	3	40.90	6	43.67	4	389	7	410	7	399	7
DBW 90	45.10	5	42.87	2	43.98	2	463	3	469	5	466	2
PBW 373 (c)	39.50	8	37.53	8	38.52	8	439	4	479	2	459	3
DBW 71 (l)	45.67	4	40.77	7	43.22	5	417	6	470	3	444	6
Mean	44.90		41.46		43.18		434		450		442	
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)	
Sowing (A)	N.S.		0.80	4.87	9.08		N.S.		3.30	20.06	3.65	
Variety (B)	**		0.78	2.26	4.42		**		17.08	49.47	9.46	
B within A	N.S.		1.10	3.19			N.S.		24.15	69.96		
A within B			1.31	3.78					22.83	66.13		
Grains/earhead												
WH 1124	27.21	6	26.83	5	27.02	6	35.23	5	35.67	2	35.45	4
HD 3091	29.92	3	30.23	3	30.08	3	31.40	8	31.00	7	31.20	8
WH 1021 (c)	26.25	8	26.00	7	26.13	7	38.13	3	33.90	4	36.02	2
PBW 590 (c)	35.66	1	34.15	1	34.90	1	37.53	4	32.83	5	35.18	5
HD 3059 (l)	30.46	2	31.44	2	30.95	2	39.27	2	32.40	6	35.83	3
DBW 90	29.44	4	27.03	4	28.24	4	33.20	6	34.20	3	33.70	6
PBW 373 (c)	27.40	5	26.67	6	27.04	5	33.03	7	29.70	8	31.37	7
DBW 71 (l)	26.97	7	23.62	8	25.29	8	40.77	1	36.77	1	38.77	1
Mean	29.16		28.25		28.71		36.07		33.31		34.69	
	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)	
Sowing (A)	N.S.		0.26	1.56	4.38		*		0.25	1.50	3.49	
Variety (B)	**		1.42	4.11	12.11		**		0.84	2.43	5.93	
B within A	N.S.		2.01	5.81			*		1.19	3.44		
A within B			1.89	5.49					1.14	3.29		
Date of sowing:	12.12.2012		02.01.2013		Date of harvesting:		02.01.2013		25.04.2013			

Table 2.4.1.		North Western Plains Zone						RIR-TS-TAS		Agra						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	26.84	5	32.66	5	39.58	5	33.03	5	384	5	442	5	452	5	426	5	
HD 3070	32.06	2	38.26	2	46.78	2	39.03	2	420	2	473	2	481	2	458	2	
HD 3043 (c)	30.05	3	34.21	3	43.73	3	35.99	3	410	3	472	3	477	3	453	3	
C 306 (c)	20.21	7	23.26	7	25.65	7	23.04	7	333	7	392	7	421	7	382	7	
PBW 660	24.22	6	31.69	6	37.81	6	31.24	6	353	6	430	6	443	6	409	6	
PBW 175 (c)	36.45	1	45.60	1	47.51	1	43.19	1	430	1	482	1	490	1	467	1	
DBW 74	27.52	4	33.98	4	40.38	4	33.96	4	398	4	453	4	465	4	439	4	
Mean	28.19		34.24		40.21		34.21		390		449		461		433		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	**		0.39		1.54		5.26		**		1.92		7.54		2.03		
Variety (B)	**		0.46		1.32		4.02		**		1.97		5.66		1.37		
B within A	**		0.79		2.28				**		3.42		9.80				
A within B			0.83		2.39						3.70		10.62				
Earhead/sq.m.																	
1000 Grains weight, g																	
WH 1080 (c)	22.65	4	22.57	3	25.98	2	23.74	3	30.85	5	32.75	5	33.74	6	32.45	5	
HD 3070	25.83	1	26.77	1	31.41	1	28.00	1	29.55	6	30.20	7	30.98	7	30.24	7	
HD 3043 (c)	22.30	5	20.35	5	23.87	4	22.18	5	32.86	4	35.64	4	38.44	4	35.65	4	
C 306 (c)	15.95	7	15.48	7	14.49	7	15.31	7	38.10	1	38.39	2	42.04	2	39.51	2	
PBW 660	23.67	3	23.80	2	25.32	3	24.26	2	28.96	7	30.99	6	33.75	5	31.23	6	
PBW 175 (c)	23.89	2	22.55	4	22.45	5	22.97	4	35.48	2	41.98	1	43.21	1	40.23	1	
DBW 74	20.14	6	20.35	6	21.41	6	20.64	6	34.37	3	36.83	3	40.51	3	37.24	3	
Mean	22.06		21.70		23.56		22.44		32.88		35.25		37.53		35.22		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	*		0.26		1.01		5.26		**		0.11		0.45		1.49		
Variety (B)	**		0.29		0.84		3.92		**		0.14		0.40		1.19		
B within A	**		0.51		1.46				**		0.24		0.69				
A within B			0.54		1.54						0.25		0.72				
Date of sowing:	02.11.2012						Date of harvesting:						06.04.2013				

Table 2.4.2.		North Western Plains Zone						RIR-TS-TAS		Delhi						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	39.29	3	42.38	3	44.05	3	41.90	3	292	7	345	5	355	5	331	5	
HD 3070	41.19	2	44.52	1	45.95	2	43.89	2	324	5	368	4	399	3	364	4	
HD 3043 (c)	39.05	4	41.43	4	42.86	4	41.11	4	535	1	452	2	549	1	512	1	
C 306 (c)	37.62	5	40.24	5	42.14	5	40.00	5	325	4	432	3	363	4	373	3	
PBW 660	36.19	6	39.05	6	41.19	6	38.81	6	308	6	327	6	353	6	329	6	
PBW 175 (c)	41.43	1	44.29	2	46.43	1	44.05	1	444	2	515	1	525	2	495	2	
DBW 74	36.19	6	38.81	7	40.71	7	38.57	7	327	3	311	7	331	7	323	7	
Mean	38.71		41.53		43.33		41.19		365		393		411		389		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	**		0.17		0.68		1.93		**		2.09		8.20		2.46		
Variety (B)	**		0.23		0.67		1.70		**		28.06		80.52		21.61		
B within A	N.S.		0.40		1.16				N.S.		48.60		139.46				
A within B			0.41		1.18						45.04		129.25				
Earhead/sq.m.																	
1000 Grains weight, g																	
WH 1080 (c)	48.39	1	42.56	1	38.15	3	43.03	1	28.76	6	30.80	5	34.01	3	31.19	4	
HD 3070	44.61	2	40.93	3	38.59	2	41.38	2	28.66	7	30.10	7	30.83	7	29.86	7	
HD 3043 (c)	23.46	7	32.27	5	23.91	6	26.55	6	31.28	3	31.95	3	32.73	4	31.99	3	
C 306 (c)	37.16	5	29.65	6	36.88	5	34.57	5	32.91	2	33.49	2	34.07	2	33.49	2	
PBW 660	40.27	3	38.82	4	37.04	4	38.71	4	30.30	4	31.11	4	31.80	5	31.07	5	
PBW 175 (c)	26.66	6	23.62	7	23.69	7	24.65	7	35.67	1	36.57	1	37.43	1	36.56	1	
DBW 74	38.64	4	41.37	2	39.80	1	39.93	3	29.97	5	30.62	6	31.37	6	30.65	6	
Mean	37.03		35.60		34.01		35.55		31.08		32.09		33.18		32.12		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	N.S.		0.98		3.85		12.64		*		0.35		1.37		4.97		
Variety (B)	**		2.85		8.17		24.02		**		0.31		0.89		2.89		
B within A	N.S.		4.93		14.14				N.S.		0.54		1.54				
A within B			4.67		13.39						0.61		1.74				
Date of sowing:	20.11.2012						Date of harvesting:						10.04.2013				

Table 2.4.3.		North Western Plains Zone						RIR-TS-TAS		Durgapura						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	35.55	1	43.19	1	45.49	2	41.41	1	324	2	384	1	396	2	368	1	
HD 3070	32.66	5	37.13	6	39.93	6	36.57	6	297	5	330	6	347	6	325	6	
HD 3043 (c)	34.20	4	42.60	2	42.56	4	39.79	3	311	4	379	2	370	4	354	3	
C 306 (c)	34.66	3	39.32	5	45.77	1	39.92	2	315	3	350	5	398	1	355	2	
PBW 660	24.90	7	29.22	7	31.89	7	28.67	7	237	7	260	7	277	7	258	7	
PBW 175 (c)	34.98	2	39.49	4	42.85	3	39.11	4	325	1	351	4	373	3	350	4	
DBW 74	32.40	6	39.55	3	41.94	5	37.97	5	295	6	352	3	365	5	337	5	
Mean	32.76		38.64		41.49		37.63		301		344		361		335		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	**		0.69		2.72		8.45		**		6.76		26.52		9.24		
Variety (B)	**		1.36		3.89		10.81		**		11.92		34.21		10.67		
B within A	N.S.		2.35		6.74				N.S.		20.65		59.25				
A within B			2.28		6.55						20.28		58.18				
Grains/earhead																	
WH 1080 (c)	31.52	4	29.90	6	31.35	4	30.93	4	34.92	4	37.60	2	36.74	4	36.42	4	
HD 3070	30.86	5	30.05	5	30.97	6	30.62	5	35.79	3	37.50	3	37.14	2	36.81	3	
HD 3043 (c)	29.94	6	30.07	4	31.17	5	30.39	6	36.75	2	37.38	4	36.89	3	37.01	2	
C 306 (c)	32.82	2	31.88	3	32.18	3	32.29	3	33.51	5	35.27	5	35.76	5	34.85	5	
PBW 660	27.70	7	28.32	7	28.68	7	28.23	7	38.10	1	39.74	1	40.14	1	39.33	1	
PBW 175 (c)	32.45	3	32.17	2	33.29	1	32.63	2	33.33	6	35.08	6	34.75	7	34.39	6	
DBW 74	33.67	1	32.74	1	32.97	2	33.13	1	32.70	7	34.35	7	34.90	6	33.98	7	
Mean	31.28		30.73		31.52		31.18		35.01		36.70		36.62		36.11		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	*		0.24		0.94		3.51		*		0.24		0.93		2.99		
Variety (B)	**		0.62		1.77		5.95		**		0.70		2.01		5.81		
B within A	N.S.		1.07		3.07				N.S.		1.21		3.48				
A within B			1.02		2.93						1.15		3.29				
Date of sowing:	05.11.2012						Date of harvesting:	22.03.2013									

Table 2.4.4.		North Western Plains Zone						RIR-TS-TAS		Gurdaspur						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	32.65	5	36.31	5	35.71	4	34.89	5	308	3	324	6	346	2	326	3	
HD 3070	38.25	1	42.01	1	40.14	1	40.13	1	316	2	366	1	338	5	340	2	
HD 3043 (c)	34.69	2	37.16	4	38.61	2	36.82	3	264	5	322	7	339	4	308	6	
C 306 (c)	26.70	7	22.53	7	23.81	6	24.35	7	263	6	348	3	344	3	319	4	
PBW 660	33.08	4	40.29	3	37.33	3	36.90	2	266	4	325	4	336	6	309	5	
PBW 175 (c)	32.01	6	27.89	6	23.47	7	27.79	6	349	1	360	2	356	1	355	1	
DBW 74	33.16	3	40.73	2	34.01	5	35.97	4	246	7	324	5	319	7	296	7	
Mean	32.93		35.27		33.30		33.84		288		339		340		322		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	N.S.		0.93		3.66		12.63		**		4.86		19.08		6.92		
Variety (B)	**		1.23		3.53		10.89		**		9.17		26.32		8.55		
B within A	*		2.13		6.11				N.S.		15.89		45.59				
A within B			2.18		6.25						15.49		44.45				
Grains/earhead																	
WH 1080 (c)	22.18	5	27.33	3	23.47	5	24.33	5	48.33	4	41.47	5	44.20	3	44.67	3	
HD 3070	28.18	2	27.79	2	29.62	1	28.53	1	43.07	7	41.40	6	40.33	5	41.60	7	
HD 3043 (c)	30.86	1	26.89	5	26.45	3	28.07	3	44.13	6	44.07	4	43.33	4	43.84	5	
C 306 (c)	21.76	6	13.98	7	17.38	6	17.71	6	46.87	5	45.67	3	40.00	7	44.18	4	
PBW 660	24.51	4	26.90	4	25.16	4	25.52	4	50.87	2	46.80	2	44.27	2	47.31	2	
PBW 175 (c)	16.91	7	15.84	6	13.37	7	15.37	7	55.00	1	49.33	1	49.33	1	51.22	1	
DBW 74	26.51	3	31.41	1	26.76	2	28.23	2	50.80	3	40.07	7	40.07	6	43.64	6	
Mean	24.42		24.31		23.17		23.97		48.44		44.11		43.08		45.21		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	N.S.		0.91		3.56		17.32		**		0.35		1.39		3.59		
Variety (B)	**		1.24		3.56		15.54		**		1.12		3.21		7.43		
B within A	N.S.		2.15		6.17				N.S.		1.94		5.56				
A within B			2.19		6.28						1.83		5.25				
Date of sowing:	01.11.2012						Date of harvesting:	03.05.2013									

Table 2.4.5.		North Western Plains Zone						RIR-TS-TAS		Hisar						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	40.65	4	50.68	4	53.06	4	48.13	4	417	2	457	2	477	2	450	2	
HD 3070	46.43	2	54.76	2	54.93	3	52.04	2	382	7	421	6	442	5	415	6	
HD 3043 (c)	41.84	3	51.87	3	55.78	2	49.83	3	402	3	470	1	489	1	454	1	
C 306 (c)	33.16	7	35.37	7	36.39	7	34.98	7	386	6	412	7	426	7	408	7	
PBW 660	36.56	6	44.73	5	52.38	5	44.56	5	388	5	424	5	437	6	416	5	
PBW 175 (c)	36.90	5	44.22	6	51.87	6	44.33	6	417	1	441	3	460	3	440	3	
DBW 74	50.17	1	58.84	1	61.22	1	56.75	1	401	4	425	4	446	4	424	4	
Mean	40.82		48.64		52.24		47.23		399		436		454		430		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	**		1.19		4.67		11.55		*		9.27		36.38		9.88		
Variety (B)	**		1.18		3.39		7.49		**		9.22		26.47		6.44		
B within A	N.S.		2.04		5.86				N.S.		15.98		45.84				
A within B			2.24		6.41						17.45		50.08				
Grains/earhead																	
WH 1080 (c)	25.50	4	26.67	3	26.87	4	26.35	3	38.25	5	41.72	5	41.62	5	40.53	5	
HD 3070	35.75	1	36.20	1	34.22	1	35.39	1	34.00	7	35.89	7	36.24	7	35.38	7	
HD 3043 (c)	25.76	3	25.97	4	26.37	5	26.03	4	40.36	3	42.45	2	43.22	3	42.01	3	
C 306 (c)	22.77	6	20.63	7	20.76	7	21.39	7	37.76	6	41.63	6	40.94	6	40.11	6	
PBW 660	23.09	5	25.03	5	27.61	3	25.24	5	40.90	2	42.16	3	43.59	2	42.22	2	
PBW 175 (c)	20.04	7	22.00	6	24.04	6	22.03	6	44.08	1	45.55	1	47.52	1	45.72	1	
DBW 74	31.68	2	33.11	2	32.42	2	32.40	2	39.36	4	41.96	4	42.34	4	41.22	4	
Mean	26.37		27.09		27.47		26.98		39.24		41.62		42.21		41.03		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	*		0.29		1.12		4.85		*		0.55		2.18		6.20		
Variety (B)	**		0.66		1.90		7.36		**		0.44		1.25		3.19		
B within A	N.S.		1.15		3.29				N.S.		0.76		2.17				
A within B			1.10		3.15						0.89		2.56				
Date of sowing:	30.10.2012						Date of harvesting:	10.04.2013									

Table 2.4.6.		North Western Plains Zone						RIR-TS-TAS		Jammu						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	29.57	3	30.26	4	32.39	5	30.74	4	287	7	308	7	314	6	303	7	
HD 3070	37.41	1	42.40	1	45.15	1	41.65	1	312	2	319	2	328	4	319	3	
HD 3043 (c)	33.49	2	34.28	2	37.09	2	34.95	2	315	1	318	3	328	3	321	1	
C 306 (c)	27.55	5	26.41	7	26.82	7	26.93	7	299	4	317	4	316	5	311	4	
PBW 660	28.31	4	31.42	3	33.88	4	31.20	3	297	5	309	5	313	7	307	6	
PBW 175 (c)	26.68	6	29.70	5	34.24	3	30.21	5	289	6	309	5	334	1	311	4	
DBW 74	24.83	7	27.58	6	30.20	6	27.53	6	304	3	325	1	331	2	320	2	
Mean	29.69		31.72		34.25		31.89		300		315		323		313		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	**		0.44		1.74		6.36		**		1.95		7.64		2.85		
Variety (B)	**		0.68		1.96		6.43		*		4.07		11.67		3.90		
B within A	N.S.		1.18		3.40				N.S.		7.05		20.22				
A within B			1.18		3.39						6.81		19.53				
Grains/earhead																	
WH 1080 (c)	29.25	2	27.21	3	28.00	3	28.15	3	35.23	5	36.13	5	36.87	5	36.08	5	
HD 3070	31.01	1	33.65	1	34.06	1	32.90	1	38.67	3	39.53	3	40.47	3	39.56	3	
HD 3043 (c)	28.49	3	27.98	2	28.85	2	28.44	2	37.33	4	38.57	4	39.23	4	38.38	4	
C 306 (c)	26.91	4	23.42	7	23.42	7	24.58	6	34.30	6	35.60	6	36.23	6	35.38	6	
PBW 660	24.15	6	24.55	5	25.87	5	24.86	5	39.40	2	41.47	1	41.90	1	40.92	1	
PBW 175 (c)	23.03	7	23.45	6	24.67	6	23.72	7	40.13	1	40.97	2	41.63	2	40.91	2	
DBW 74	24.71	5	25.50	4	26.88	4	25.70	4	33.17	7	33.33	7	34.00	7	33.50	7	
Mean	26.79		26.54		27.39		26.91		36.89		37.94		38.62		37.82		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	N.S.		0.47		1.84		7.99		*		0.38		1.48		4.57		
Variety (B)	**		0.66		1.89		7.34		**		0.27		0.77		2.12		
B within A	N.S.		1.14		3.27				N.S.		0.46		1.33				
A within B			1.15		3.31						0.57		1.64				
Date of sowing:	21.11.2012						Date of harvesting:	26.05.2013									

Table 2.4.7.		North Western Plains Zone						RIR-TS-TAS		Karnal						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	24.15	7	25.40	7	31.68	2	27.08	7	420	4	420	3	419	3	420	4	
HD 3070	31.58	3	30.80	2	33.37	1	31.92	1	414	6	411	4	461	1	429	2	
HD 3043 (c)	30.20	6	29.93	5	28.22	4	29.45	5	427	3	378	6	381	6	395	6	
C 306 (c)	33.83	2	30.23	3	27.00	6	30.35	3	417	5	440	2	401	5	419	5	
PBW 660	30.54	5	27.69	6	28.15	5	28.79	6	458	2	393	5	418	4	423	3	
PBW 175 (c)	36.61	1	31.40	1	26.18	7	31.40	2	518	1	489	1	451	2	486	1	
DBW 74	31.28	4	29.99	4	29.01	3	30.09	4	366	7	372	7	351	7	363	7	
Mean	31.17		29.35		29.09		29.87		431		415		412		419		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	N.S.		0.97		3.81		14.89		*		5.54		###		6.06		
Variety (B)	N.S.		1.30		3.73		13.05		**		15.33		###		10.97		
B within A	N.S.		2.25		6.46				N.S.		26.55		###				
A within B			2.30		6.60						25.20		72				
Earhead/sq.m.																	
1000 Grains weight, g																	
WH 1080 (c)	17.92	6	17.09	6	20.48	4	18.50	6	32.11	7	35.56	7	37.31	3	34.99	6	
HD 3070	22.32	2	21.02	2	21.51	1	21.62	2	34.30	4	35.69	6	34.32	7	34.77	7	
HD 3043 (c)	20.77	4	21.73	1	20.50	3	21.00	3	34.22	5	36.40	5	36.44	6	35.69	5	
C 306 (c)	20.98	3	17.24	5	18.01	6	18.74	5	38.60	2	39.94	2	37.31	4	38.61	2	
PBW 660	19.53	5	18.43	4	18.40	5	18.79	4	34.18	6	38.25	4	36.96	5	36.46	4	
PBW 175 (c)	15.93	7	14.26	7	13.83	7	14.67	7	44.63	1	45.51	1	41.80	1	43.98	1	
DBW 74	23.04	1	21.01	3	20.97	2	21.68	1	37.26	3	38.28	3	39.39	2	38.31	3	
Mean	20.07		18.68		19.10		19.28		36.47		38.52		37.65		37.55		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	*		0.40		1.58		9.54		*		0.45		1.77		5.50		
Variety (B)	**		0.75		2.15		11.64		**		0.70		2.00		5.56		
B within A	N.S.		1.30		3.72				N.S.		1.21		3.46				
A within B			1.27		3.63						1.20		3.45				
Date of sowing:	01.11.2012						Date of harvesting:	06.04.2013									

Table 2.4.8.		North Western Plains Zone						RIR-TS-TAS		Ludhiana						2012-13	
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk	
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk			
Yield, q/ha																	
WH 1080 (c)	38.78	6	43.90	4	44.99	5	42.56	5	335	1	367	6	409	4	370	3	
HD 3070	44.44	2	54.47	1	54.36	1	51.09	1	331	2	380	1	402	5	371	2	
HD 3043 (c)	43.25	3	49.02	3	52.29	2	48.18	3	313	5	380	2	394	6	362	6	
C 306 (c)	39.65	4	41.39	6	41.29	7	40.78	7	317	3	376	3	409	2	367	4	
PBW 660	48.80	1	50.54	2	49.46	3	49.60	2	311	6	368	5	409	2	363	5	
PBW 175 (c)	39.65	4	40.41	7	43.57	6	41.21	6	315	4	368	4	433	1	372	1	
DBW 74	37.47	7	43.03	5	47.60	4	42.70	4	289	7	365	7	386	7	347	7	
Mean	41.72		46.11		47.65		45.16		316		372		406		365		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	*		1.00		3.92		10.13		**		3.91		15.35		4.91		
Variety (B)	**		1.16		3.32		7.67		N.S.		6.66		19.11		5.48		
B within A	N.S.		2.00		5.74				N.S.		11.53		33.10				
A within B			2.10		6.04						11.37		32.63				
Earhead/sq.m.																	
1000 Grains weight, g																	
WH 1080 (c)	27.87	7	27.98	6	27.80	5	27.88	5	41.73	4	42.90	2	39.83	4	41.49	3	
HD 3070	35.33	2	36.65	1	37.93	1	36.64	1	39.27	7	39.10	6	35.90	7	38.09	7	
HD 3043 (c)	33.99	3	32.14	3	33.73	2	33.29	2	40.50	5	40.33	4	39.70	5	40.18	5	
C 306 (c)	29.64	5	26.78	7	21.98	7	26.13	7	42.30	3	41.70	3	45.90	1	43.30	1	
PBW 660	36.23	1	32.31	2	28.51	4	32.35	3	43.43	1	42.93	1	42.53	2	42.97	2	
PBW 175 (c)	29.56	6	28.04	5	25.01	6	27.54	6	42.70	2	39.77	5	40.23	3	40.90	4	
DBW 74	32.59	4	30.37	4	32.51	3	31.82	4	40.33	6	38.87	7	38.27	6	39.16	6	
Mean	32.17		30.61		29.64		30.81		41.47		40.80		40.34		40.87		
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Irrigation (A)	N.S.		0.82		3.22		12.20		N.S.		0.73		2.87		8.20		
Variety (B)	**		1.40		4.02		13.65		**		0.88		2.53		6.47		
B within A	N.S.		2.43		6.97				N.S.		1.53		4.38				
A within B			2.39		6.87						1.59		4.57				
Date of sowing:	31.10.2012						Date of harvesting:	18.04.2013									

Table 2.4.9.		North Western Plains Zone						RIR-TS-TAS		Pantnagar						2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations						Mean	Rk								
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk										
Yield, q/ha																								
WH 1080 (c)	33.37	7	41.87	4	42.37	4	39.20	5	Earhead/sq.m.								338	5	353	7	389	7	360	7
HD 3070	39.23	1	45.50	2	46.13	2	43.62	2	330	7	453	2	475	4	419	4	407	2	413	3	503	3	441	2
HD 3043 (c)	34.57	5	41.40	5	41.67	5	39.21	4	384	3	388	5	517	2	430	3	332	6	376	6	398	6	369	6
C 306 (c)	35.07	4	38.23	7	39.50	7	37.60	7	417	1	505	1	542	1	488	1	371	4	388	4	405	5	388	5
PBW 660	33.40	6	42.90	3	45.40	3	40.57	3	368	4	411	4	461	4	414	4	1000 Grains weight, g							
PBW 175 (c)	37.30	3	38.77	6	39.77	6	38.61	6	36.77	6	37.80	7	39.43	6	38.00	6	36.37	7	37.87	6	38.57	7	37.60	7
DBW 74	37.43	2	47.87	1	56.17	1	47.16	1	37.57	5	38.53	5	40.57	5	38.89	5	39.47	3	40.67	3	42.03	4	40.72	4
Mean	35.77		42.36		44.43		40.85		40.63	2	40.80	2	46.70	1	42.71	2	44.73	1	44.33	1	44.43	3	44.50	1
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		38.47	4	40.47	4	46.60	2	41.84	3
Irrigation (A)	**		0.58		2.28		6.51		**		4.02		15.78		4.45		39.14		40.07		42.62		40.61	
Variety (B)	**		0.92		2.65		6.79		**		12.95		37.17		9.40		F. Test		S.E.m		C.D.		C.V.(%)	
B within A	**		1.60		4.59				N.S.		22.44		64.38				**		0.82		2.35		6.05	
A within B			1.59		4.57				N.S.		1.42		4.07				N.S.		1.37		3.94			
Date of sowing:		29.10.2012						Date of harvesting:		16.04.2013														

Table 2.5.1.		North Western Plains Zone						RF-TAS-LON		Agra						2012-13								
Varieties	Nitrogen levels, kg/ha						Mean	Rk	Nitrogen levels, kg/ha						Mean	Rk								
	40	Rk	60	Rk	80	Rk			40	Rk	60	Rk	80	Rk										
Yield, q/ha																								
WH 1126	30.99	4	32.72	4	33.45	4	32.39	4	Earhead/sq.m.								435	4	436	4	437	4	436	4
WH 1098	31.75	3	32.99	3	34.00	3	32.91	3	473	3	474	3	475	3	474	3	487	2	487	2	489	2	488	2
PBW 675	32.43	2	33.88	2	34.88	2	33.73	2	421	5	389	5	389	5	400	5	296	9	297	9	298	9	297	9
PBW 644 (c)	30.66	5	32.52	6	33.32	5	32.17	5	309	8	310	8	311	8	310	8	319	7	318	7	321	7	319	7
PBW 674	27.25	9	29.18	10	31.53	9	29.32	9	287	10	279	11	278	11	281	11	287	10	279	11	278	11	281	11
DBW 74	29.02	8	30.41	9	33.05	8	30.83	8	338	6	339	6	340	6	339	6	286	11	287	10	288	10	287	10
WH 1080 (c)	29.37	7	30.48	8	33.25	6	31.03	7	513	1	507	1	508	1	509	1	378		375		376		376	
WH 1127	25.42	11	31.50	7	28.89	11	28.60	10	F. Test		S.E.m		C.D.		C.V.(%)		N.S.		2.01		7.89		3.07	
PBW 175 (c)	30.52	6	32.52	5	33.19	7	32.08	6	**		4.06		11.48		3.24		N.S.		4.06		11.48		3.24	
PBW 660	26.34	10	28.77	11	30.45	10	28.52	11	N.S.		7.03		19.88				N.S.		7.03		19.88			
C 306 (c)	41.13	1	42.52	1	45.01	1	42.89	1	N.S.		7.00		20.20						7.00		20.20			
Mean	30.44		32.50		33.73		32.22		378		375		376		376		1000 Grains weight, g							
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		38.43	8	37.60	7	37.37	8	37.80	9
Nitrogen (A)	**		0.18		0.70		3.17		N.S.		2.01		7.89		3.07		38.90	3	37.50	9	37.37	8	37.92	7
Variety (B)	**		0.43		1.20		3.96		**		4.06		11.48		3.24		38.67	4	38.13	3	37.67	6	38.16	4
B within A	N.S.		0.74		2.08				N.S.		7.03		19.88				38.17	9	37.47	10	36.93	11	37.52	11
A within B			0.72		2.09				N.S.		7.00		20.20				38.47	7	37.57	8	37.40	7	37.81	8
WH 1126	18.54	9	19.97	9	20.51	9	19.67	9	39.07	2	37.80	6	37.97	5	38.28	3	38.57	6	39.03	1	38.49	3	38.70	2
WH 1098	17.30	10	18.60	10	19.19	10	18.36	10	38.57	6	39.03	1	38.49	3	38.70	2	37.73	10	37.22	11	38.17	4	37.71	10
PBW 675	17.24	11	18.23	11	18.95	11	18.14	11	39.37	1	38.33	2	38.56	2	38.75	1	39.37	1	38.33	2	38.56	2	38.75	1
PBW 644 (c)	19.29	8	22.35	7	23.18	7	21.61	8	38.65	5	38.07	4	37.37	8	38.03	6	37.47	11	38.07	4	38.90	1	38.14	5
PBW 674	23.98	3	26.29	3	28.38	1	26.22	2	38.50		37.89		37.83		38.07		F. Test		S.E.m		C.D.		C.V.(%)	
DBW 74	24.09	1	26.03	4	28.01	3	26.04	4	**		0.07		0.26		0.99		N.S.		0.40		1.14		3.18	
WH 1080 (c)	24.09	2	24.62	6	26.92	5	25.21	5	N.S.		0.70		1.98				N.S.		0.70		1.98			
WH 1127	23.52	5	30.17	1	27.26	4	26.98	1	N.S.		0.67		1.93						0.67		1.93			
PBW 175 (c)	22.99	6	25.07	5	25.36	6	24.47	6	1000 Grains weight, g						38.50		37.89		37.83		38.07			
PBW 660	23.85	4	26.38	2	28.32	2	26.19	3	F. Test		S.E.m		C.D.		C.V.(%)		38.43	8	37.60	7	37.37	8	37.80	9
C 306 (c)	21.43	7	22.05	8	22.79	8	22.09	7	**		0.07		0.26		0.99		38.90	3	37.50	9	37.37	8	37.92	7
Mean	21.49		23.61		24.44		23.18		N.S.		0.40		1.14		3.18		38.67	4	38.13	3	37.67	6	38.16	4
	F. Test		S.E.m		C.D.		C.V.(%)		N.S.		0.70		1.98				38.17	9	37.47	10	36.93	11	37.52	11
Nitrogen (A)	**		0.05		0.20		1.28		N.S.		0.40		1.14		3.18		38.47	7	37.57	8	37.40	7	37.81	8
Variety (B)	**		0.46		1.31		5.98		N.S.		0.70		1.98				39.07	2	37.80	6	37.97	5	38.28	3
B within A	N.S.		0.80		2.26				N.S.		0.67		1.93				38.57	6	39.03	1	38.49	3	38.70	2
A within B			0.76		2.21				N.S.		0.67		1.93				38.57	6	39.03	1	38.49	3	38.70	2
Date of sowing:		02.11.2012						Date of harvesting:		06.04.2013														

Table 2.5.2.		North Western Plains Zone						RF-TAS-LON		Durgapura						2012-13	
Varieties	Nitrogen levels, kg/ha								Nitrogen levels, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk	
Yield, q/ha																	
WH 1126	31.35	1	35.65	1	37.12	1	34.71	1	288	1	324	1	334	1	316	1	
WH 1098	29.61	5	33.58	5	34.72	4	32.63	5	272	5	306	5	312	4	297	5	
PBW 675	26.16	10	29.99	10	30.75	10	28.96	10	241	10	273	10	277	10	263	10	
PBW 644 (c)	29.45	6	33.00	7	34.37	6	32.27	7	271	6	300	7	309	6	294	7	
PBW 674	28.44	9	32.23	8	34.18	8	31.62	8	262	9	293	8	308	8	288	8	
DBW 74	29.15	7	34.58	2	34.58	5	32.77	3	268	7	315	2	311	5	298	3	
WH 1080 (c)	29.05	8	34.36	3	34.32	7	32.58	6	267	8	313	3	309	7	296	6	
WH 1127	25.45	11	29.61	11	30.30	11	28.45	11	234	11	269	11	273	11	259	11	
PBW 175 (c)	29.82	4	31.65	9	32.47	9	31.31	9	274	4	288	9	292	9	285	9	
PBW 660	30.01	3	33.28	6	34.78	3	32.69	4	276	3	303	6	313	3	297	4	
C 306 (c)	30.35	2	34.34	4	35.60	2	33.43	2	279	2	312	4	320	2	304	2	
Mean	28.99		32.93		33.93		31.95		267		300		305		291		
Nitrogen (A)	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Variety (B)	*		0.66		2.59		11.86		*		5.99		23.51		11.84		
B within A	N.S.		1.27		3.60		11.94		*		11.56		32.70		11.93		
A within B			2.20		6.23				N.S.		20.02		56.63				
			2.20		6.36						20.01		57.78				
Earhead/sq.m.																	
1000 Grains weight, g																	
WH 1126	28.06	5	26.91	10	27.88	6	27.62	6	38.80	7	40.87	2	39.93	6	39.87	6	
WH 1098	27.47	8	27.03	8	27.54	9	27.35	8	39.77	4	40.77	4	40.37	3	40.30	4	
PBW 675	26.65	10	27.05	7	27.73	7	27.14	10	40.83	2	40.63	5	40.10	5	40.52	2	
PBW 644 (c)	29.22	4	28.69	4	28.62	4	28.84	4	37.23	8	38.33	8	38.87	8	38.14	8	
PBW 674	25.73	11	25.48	11	25.51	11	25.57	11	42.33	1	43.20	1	43.63	1	43.06	1	
DBW 74	29.51	3	28.94	3	29.61	2	29.35	3	37.03	9	38.13	9	37.77	10	37.64	9	
WH 1080 (c)	29.97	2	29.46	2	29.32	3	29.58	2	36.33	10	37.33	10	37.93	9	37.20	10	
WH 1127	28.05	6	27.88	5	28.04	5	27.99	5	38.83	6	39.50	7	39.70	7	39.34	7	
PBW 175 (c)	27.93	7	26.97	9	27.02	10	27.31	9	39.00	5	40.80	3	41.17	2	40.32	3	
PBW 660	27.35	9	27.14	6	27.58	8	27.36	7	39.83	3	40.50	6	40.30	4	40.21	5	
C 306 (c)	30.96	1	30.05	1	29.96	1	30.32	1	35.17	11	36.60	11	37.10	11	36.29	11	
Mean	28.26		27.78		28.07		28.04		38.65		39.70		39.72		39.35		
Nitrogen (A)	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Variety (B)	N.S.		0.29		1.15		5.99		N.S.		0.40		1.55		5.77		
B within A	N.S.		0.49		1.39		5.26		N.S.		0.68		1.93		5.21		
A within B			0.85		2.41				N.S.		1.18		3.35				
			0.86		2.49						1.20		3.45				
Date of sowing:	04.11.2012						Date of harvesting:						23.03.2013				

Table 2.5.3.		North Western Plains Zone						RF-TAS-LON		Gurdaspur						2012-13	
Varieties	Nitrogen levels, kg/ha								Nitrogen levels, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk	
Yield, q/ha																	
WH 1126	37.50	1	38.44	4	38.78	1	38.24	1	295	7	352	3	319	5	322	4	
WH 1098	36.65	2	35.37	5	36.39	4	36.14	4	333	3	341	4	327	4	334	2	
PBW 675	31.29	7	29.54	10	31.21	10	30.68	9	337	2	356	2	304	7	332	3	
PBW 644 (c)	33.15	4	39.29	3	37.67	3	36.70	3	286	8	319	7	274	10	293	10	
PBW 674	28.91	11	30.19	9	29.17	11	29.42	11	300	6	340	5	305	6	315	6	
DBW 74	30.61	9	40.14	1	33.93	6	34.89	5	277	11	312	8	283	9	291	11	
WH 1080 (c)	31.43	6	34.86	7	32.23	7	32.84	7	279	10	305	11	329	3	304	8	
WH 1127	35.71	3	39.37	2	38.27	2	37.78	2	325	4	329	6	272	11	309	7	
PBW 175 (c)	30.44	10	27.04	11	31.63	9	29.71	10	354	1	380	1	360	1	364	1	
PBW 660	32.14	5	34.95	6	35.63	5	34.24	6	283	9	307	10	302	8	297	9	
C 306 (c)	30.70	8	31.97	8	32.06	8	31.58	8	311	5	308	9	339	2	320	5	
Mean	32.59		34.65		34.27		33.84		307		332		310		316		
Nitrogen (A)	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Variety (B)	N.S.		0.90		3.54		15.30		N.S.		7.06		27.73		12.82		
B within A	**		0.95		2.70		8.46		**		9.13		25.82		8.65		
A within B			1.65		4.67				N.S.		15.81		44.71				
			1.81		5.24						16.65		48.07				
Earhead/sq.m.																	
1000 Grains weight, g																	
WH 1126	29.96	1	25.84	7	29.50	4	28.44	5	42.67	6	42.40	5	41.53	7	42.20	6	
WH 1098	29.89	2	29.09	4	30.37	3	29.78	2	36.80	11	36.20	11	36.67	11	36.56	11	
PBW 675	20.98	9	18.85	9	22.87	9	20.90	9	44.67	3	44.13	4	44.93	3	44.58	3	
PBW 644 (c)	26.45	7	28.18	5	31.49	2	28.71	4	44.07	4	44.60	3	43.93	4	44.20	4	
PBW 674	19.03	10	17.57	10	19.31	10	18.64	10	51.07	1	50.40	1	50.00	1	50.49	1	
DBW 74	27.72	4	31.56	1	28.76	5	29.35	3	40.00	9	41.47	7	42.27	6	41.24	8	
WH 1080 (c)	29.22	3	29.38	3	25.79	7	28.13	6	39.13	10	39.20	10	38.47	10	38.93	10	
WH 1127	27.28	5	30.27	2	35.69	1	31.08	1	40.27	8	39.60	9	39.33	9	39.73	9	
PBW 175 (c)	18.15	11	14.92	11	18.46	11	17.18	11	47.60	2	47.87	2	48.17	2	47.88	2	
PBW 660	27.04	6	27.07	6	27.50	6	27.20	7	42.07	7	42.27	6	43.13	5	42.49	5	
C 306 (c)	23.12	8	25.39	8	23.54	8	24.02	8	42.73	5	41.07	8	40.33	8	41.38	7	
Mean	25.35		25.28		26.66		25.77		42.82		42.65		42.62		42.70		
Nitrogen (A)	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)		
Variety (B)	N.S.		0.81		3.18		18.04		N.S.		0.13		0.50		1.70		
B within A	**		1.05		2.98		12.26		**		0.48		1.37		3.39		
A within B			1.82		5.16				N.S.		0.84		2.37				
			1.92		5.54						0.81		2.33				
Date of sowing:	02.11.2012						Date of harvesting:						23.04.2013				

Table 2.5.4. North Western Plains Zone		RF-TAS-LON		Hisar		2012-13			
Varieties	Nitrogen levels, kg/ha				Nitrogen levels, kg/ha				
	40	Rk	60	Rk	80	Rk	Mean	Rk	
Yield, q/ha				Earhead/sq.m.					
WH 1126	37.24	8	42.52	8	44.22	6	41.33	8	
WH 1098	38.27	7	43.35	5	46.60	2	42.74	4	
PBW 675	38.95	6	43.18	6	43.88	7	42.00	6	
PBW 644 (c)	34.69	10	38.95	10	40.82	10	38.15	10	
PBW 674	33.84	11	37.93	11	38.27	11	36.68	11	
DBW 74	41.50	2	44.56	3	45.07	4	43.71	2	
WH 1080 (c)	40.48	3	42.84	7	42.52	8	41.94	7	
WH 1127	39.12	5	45.24	1	46.77	1	43.71	3	
PBW 175 (c)	41.67	1	45.07	2	45.92	3	44.22	1	
PBW 660	36.39	9	39.97	9	41.65	9	39.34	9	
C 306 (c)	39.63	4	43.71	4	44.73	5	42.69	5	
Mean	38.34		42.48		43.68		41.50		
Nitrogen (A)	F. Test	S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)	*	0.79	3.11	10.97	*	5.72	22.45	8.65	
B within A	**	1.13	3.19	8.16	**	11.20	31.67	8.84	
A within B	N.S.	1.96	5.53		N.S.	19.40	54.86		
		2.03	5.85			19.36	55.90		
Grains/earhead				1000 Grains weight, g					
WH 1126	26.65	4	27.51	4	27.68	3	27.28	4	
WH 1098	27.45	3	27.91	2	28.89	2	28.08	2	
PBW 675	23.43	9	23.96	8	23.74	8	23.71	8	
PBW 644 (c)	26.08	5	27.00	6	26.37	4	26.48	5	
PBW 674	21.25	11	21.09	11	20.63	11	20.99	11	
DBW 74	29.26	1	29.66	1	29.41	1	29.45	1	
WH 1080 (c)	29.22	2	27.52	3	25.95	6	27.56	3	
WH 1127	25.71	6	27.02	5	26.09	5	26.27	6	
PBW 175 (c)	23.55	8	22.93	9	22.98	9	23.15	9	
PBW 660	23.13	10	22.48	10	22.39	10	22.67	10	
C 306 (c)	24.32	7	24.38	7	24.19	7	24.30	7	
Mean	25.46		25.59		25.30		25.45		
Nitrogen (A)	F. Test	S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)	N.S.	0.37	1.44	8.31	*	0.31	1.21	4.07	
B within A	**	0.92	2.61	10.86	**	0.45	1.26	3.08	
A within B	N.S.	1.60	4.51		N.S.	0.77	2.19		
		1.57	4.52			0.80	2.31		
Date of sowing:	29.10.2012			Date of harvesting:	09.04.2013				

Table 2.5.5. North Western Plains Zone		RF-TAS-LON		Ludhiana		2012-13			
Varieties	Nitrogen levels, kg/ha				Nitrogen levels, kg/ha				
	40	Rk	60	Rk	80	Rk	Mean	Rk	
Yield, q/ha				Earhead/sq.m.					
WH 1126	38.89	3	42.13	4	46.53	1	42.52	2	
WH 1098	40.28	2	42.36	3	44.68	4	42.44	3	
PBW 675	34.14	10	36.92	9	43.75	6	38.27	9	
PBW 644 (c)	38.43	4	42.48	2	41.44	8	40.78	4	
PBW 674	37.96	5	40.28	5	38.43	10	38.89	8	
DBW 74	33.10	11	34.84	11	35.42	11	34.45	11	
WH 1080 (c)	37.50	7	39.58	6	45.02	3	40.70	5	
WH 1127	40.97	1	43.40	1	45.25	2	43.21	1	
PBW 175 (c)	34.26	9	36.92	9	39.24	9	36.81	10	
PBW 660	36.81	8	38.19	8	43.87	5	39.62	7	
C 306 (c)	37.73	6	38.91	7	43.63	7	40.09	6	
Mean	37.28		39.64		42.48		39.80		
Nitrogen (A)	F. Test	S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)	**	0.46	1.82	6.69	*	4.39	17.22	8.68	
B within A	**	1.01	2.85	7.59	**	5.51	15.59	5.70	
A within B	N.S.	1.74	4.93		N.S.	9.55	27.01		
		1.73	4.99			10.11	29.18		
Grains/earhead				1000 Grains weight, g					
WH 1126	33.34	8	37.64	4	40.71	2	37.23	4	
WH 1098	43.32	2	40.32	2	36.59	5	40.07	2	
PBW 675	32.85	9	34.13	7	34.74	7	33.90	9	
PBW 644 (c)	36.80	5	38.32	3	37.60	3	37.57	3	
PBW 674	36.78	6	37.28	5	33.64	9	35.90	5	
DBW 74	37.40	3	33.95	9	31.87	10	34.41	8	
WH 1080 (c)	33.42	7	33.73	10	34.00	8	33.72	10	
WH 1127	46.56	1	44.15	1	41.08	1	43.93	1	
PBW 175 (c)	30.20	11	28.20	11	29.41	11	29.27	11	
PBW 660	32.73	10	33.99	8	37.05	4	34.59	7	
C 306 (c)	37.04	4	34.27	6	35.83	6	35.71	6	
Mean	36.40		36.00		35.68		36.03		
Nitrogen (A)	F. Test	S.E.m	C.D.	C.V.(%)	F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)	N.S.	0.95	3.75	15.23	N.S.	0.31	1.21	4.58	
B within A	**	1.48	4.20	12.36	**	0.94	2.67	7.34	
A within B	N.S.	2.57	7.27		N.S.	1.63	4.62		
		2.63	7.60			1.59	4.59		
Date of sowing:	31.10.2012			Date of harvesting:	16.04.2013				

Table 3.1.1 North Eastern Plains Zone IR-TS-TAS-DOS

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NW 5054	40.27	1	34.73	1	37.50	1
WH 1120	32.80	7	28.97	9	30.88	9
PBW 661	32.60	9	29.70	4	31.15	5
K1006	33.13	4	29.17	7	31.15	5
HD 3076	33.13	4	29.13	8	31.13	7
HD2733 (c)	32.90	6	29.20	6	31.05	8
K0307 (c)	38.03	2	29.77	3	33.90	2
DBW 39 (c)	33.30	3	29.30	5	31.30	3
RAJ 4229 (I)	32.77	8	29.83	2	31.30	3
Mean	34.33		29.98		32.15	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	**	0.14	0.84	2.24		
Variety (B)	**	0.24	0.70	1.85		
B within A	**	0.34	0.99			
A within B		0.35	1.01			
Grains/earhead						
NW 5054	26.0	9	25.79	9	25.9	9
WH 1120	27.8	6	27.40	6	27.6	6
PBW 661	26.8	8	26.26	8	26.6	8
K1006	28.5	3	27.97	4	28.2	3
HD 3076	27.61	7	27.10	7	27.36	7
HD2733 (c)	28.74	2	28.37	2	28.56	2
K0307 (c)	27.86	5	28.04	3	27.95	5
DBW 39 (c)	30.93	1	30.51	1	30.72	1
RAJ 4229 (I)	28.34	4	27.89	5	28.12	4
Mean	28.07		27.70		27.89	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	0.07	0.43	1.32		
Variety (B)	**	0.22	0.63	1.91		
B within A	N.S.	0.31	0.89			
A within B		0.30	0.86			
Date of Sowing:	25.11.2012		17.12.2012			

Burdwan 2012-13

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Earhead/sq.m.						
NW 5054	352	1	306	1	329	1
WH 1120	277	7	249	9	263	9
PBW 661	275	9	255	4	265	5
K1006	279	4	251	6	265	6
HD 3076	279	6	251	6	265	8
HD2733 (c)	279	5	251	6	265	7
K0307 (c)	330	2	257	2	294	2
DBW 39 (c)	282	3	252	5	267	4
RAJ 4229 (I)	277	7	257	2	267	3
Mean	292		259		276	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	**	1.61	9.80	3.04		
Variety (B)	**	2.36	6.81	2.10		
B within A	**	3.34	9.64			
A within B		3.54	10.21			
1000 Grains weight, g						
NW 5054	44.03	2	44.07	2	44.05	2
WH 1120	42.50	4	42.40	4	42.45	4
PBW 661	44.17	1	44.30	1	44.23	1
K1006	41.70	5	41.63	5	41.67	5
HD 3076	43.07	3	42.90	3	42.98	3
HD2733 (c)	41.03	8	41.07	8	41.05	8
K0307 (c)	41.40	7	41.33	7	41.37	7
DBW 39 (c)	38.13	9	38.17	9	38.15	9
RAJ 4229 (I)	41.70	5	41.63	5	41.67	5
Mean	41.97		41.94		41.96	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	0.05	0.31	0.63		
Variety (B)	**	0.34	0.98	1.98		
B within A	N.S.	0.48	1.39			
A within B		0.46	1.32			
Date of Sowing:	25.11.2012		17.12.2012		Date of Harvesting:	05.04.2013

Table 3.1.2 North Eastern Plains Zone IR-TS-TAS-DOS

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NW 5054	43.45	3	39.12	2	41.29	2
WH 1120	42.27	5	34.50	5	38.38	5
PBW 661	46.84	1	30.27	9	38.55	4
K1006	36.42	8	34.79	4	35.61	8
HD 3076	33.26	9	32.71	7	32.98	9
HD2733 (c)	42.82	4	32.06	8	37.44	6
K0307 (c)	46.16	2	41.73	1	43.94	1
DBW 39 (c)	40.04	6	37.80	3	38.92	3
RAJ 4229 (I)	39.51	7	33.68	6	36.59	7
Mean	41.20		35.18		38.19	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	*	0.52	3.15	7.04		
Variety (B)	**	0.76	2.18	4.84		
B within A	**	1.07	3.08			
A within B		1.13	3.27			
Grains/earhead						
NW 5054	35.0	3	32.91	9	33.9	9
WH 1120	34.9	4	37.31	5	36.1	3
PBW 661	34.2	6	36.92	6	35.6	5
K1006	35.6	2	36.15	8	35.9	4
HD 3076	32.46	8	36.15	7	34.30	8
HD2733 (c)	31.27	9	38.56	3	34.92	7
K0307 (c)	33.25	7	37.70	4	35.47	6
DBW 39 (c)	36.61	1	41.99	2	39.30	1
RAJ 4229 (I)	34.28	5	43.19	1	38.73	2
Mean	34.17		37.87		36.02	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	*	0.54	3.31	7.85		
Variety (B)	N.S.	2.04	5.90	13.90		
B within A	N.S.	2.89	8.34			
A within B		2.78	8.02			
Date of Sowing:	23.11.2012		21.12.2012			

Coochbehar 2012-13

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Earhead/sq.m.						
NW 5054	325	3	313	2	319	2
WH 1120	296	5	279	3	287	4
PBW 661	338	1	245	9	292	3
K1006	280	8	277	4	279	7
HD 3076	275	9	259	6	267	9
HD2733 (c)	320	4	252	7	286	5
K0307 (c)	338	2	322	1	330	1
DBW 39 (c)	295	7	268	5	282	6
RAJ 4229 (I)	296	5	248	8	272	8
Mean	307		274		290	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	6.45	39.23	11.53		
Variety (B)	*	13.89	40.07	11.72		
B within A	N.S.	19.64	56.67			
A within B		19.61	56.58			
1000 Grains weight, g						
NW 5054	38.25	7	38.28	1	38.26	2
WH 1120	41.50	2	33.45	8	37.48	4
PBW 661	40.54	4	33.91	5	37.23	5
K1006	37.33	9	35.11	3	36.22	7
HD 3076	37.52	8	35.25	2	36.38	6
HD2733 (c)	43.20	1	33.52	7	38.36	1
K0307 (c)	41.11	3	34.64	4	37.87	3
DBW 39 (c)	38.33	6	33.86	6	36.10	8
RAJ 4229 (I)	39.39	5	31.63	9	35.51	9
Mean	39.68		34.40		37.04	
F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	**	0.10	0.62	1.43		
Variety (B)	N.S.	0.70	2.02	4.63		
B within A	**	0.99	2.86			
A within B		0.94	2.71			
Date of Sowing:	23.11.2012		21.12.2012		Date of Harvesting:	02.04.2013

Table 3.1.3		North Eastern Plains Zone				IR-TS-TAS-DOS		Faizabad				2012-13	
Variety	Sowing Time				Mean	Rk	Sowing Time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
Yield, q/ha													
NW 5054	54.76	1	46.00	2	50.38	1	429	1	395	3	412	1	
WH 1120	48.98	5	42.94	9	45.96	8	411	3	380	7	396	4	
PBW 661	48.13	9	43.03	8	45.58	9	364	9	336	8	350	9	
K1006	48.89	6	44.56	4	46.73	6	392	6	395	2	394	5	
HD 3076	48.30	8	45.24	3	46.77	5	366	8	383	6	374	7	
HD2733 (c)	52.98	3	46.34	1	49.66	2	401	4	398	1	400	3	
K0307 (c)	54.52	2	44.05	5	49.29	3	422	2	392	4	407	2	
DBW 39 (c)	50.51	4	43.88	6	47.20	4	393	5	388	5	391	6	
RAJ 4229 (I)	48.47	7	43.45	7	45.96	7	387	7	331	9	359	8	
Mean	50.62		44.39		47.50		396		378		387		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	**	0.25	1.51	2.72			*	2.85	17.37	3.83			
Variety (B)	**	0.70	2.02	3.61			**	4.98	14.36	3.15			
B within A	*	0.99	2.86				**	7.04	20.30				
A within B		0.97	2.79					7.22	20.84				
Grains/earhead													
NW 5054	32.6	8	32.20	8	32.4	8	39.10	2	36.52	2	37.81	2	
WH 1120	34.2	7	32.77	7	33.5	7	34.87	5	34.57	3	34.72	4	
PBW 661	39.8	1	38.73	2	39.2	1	33.38	8	33.14	6	33.26	8	
K1006	36.2	4	35.68	4	36.0	5	34.50	6	31.67	8	33.08	9	
HD 3076	39.37	2	35.68	5	37.52	3	33.54	7	33.14	5	33.34	7	
HD2733 (c)	32.32	9	29.79	9	31.06	9	41.00	1	39.12	1	40.06	1	
K0307 (c)	35.58	6	34.20	6	34.89	6	36.70	3	33.05	7	34.88	3	
DBW 39 (c)	36.02	5	36.21	3	36.11	4	35.74	4	31.24	9	33.49	6	
RAJ 4229 (I)	37.62	3	39.10	1	38.36	2	33.35	9	33.70	4	33.52	5	
Mean	35.97		34.93		35.45		35.80		34.02		34.91		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	0.19	1.18	2.85			*	0.25	1.52	3.73			
Variety (B)	**	1.12	3.24	7.76			**	0.76	2.19	5.33			
B within A	N.S.	1.59	4.58				N.S.	1.07	3.10				
A within B		1.51	4.36					1.04	3.01				
Date of Sowing:	22.11.2012				22.12.2012				Date of Harvesting: 28.4.2013				10.5.2013

Table 3.1.4		North Eastern Plains Zone				IR-TS-TAS-DOS		IARI, Samastipur				2012-13	
Variety	Sowing Time				Mean	Rk	Sowing Time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
Yield, q/ha													
NW 5054	54.81	5	45.56	1	50.19	3	399	8	422	4	411	7	
WH 1120	53.73	7	39.70	7	46.71	7	442	4	397	7	419	5	
PBW 661	49.84	8	35.72	9	42.78	9	319	9	302	9	310	9	
K1006	55.51	4	41.74	4	48.62	4	453	2	441	3	447	2	
HD 3076	59.58	2	42.85	2	51.22	1	425	6	406	6	416	6	
HD2733 (c)	60.21	1	41.36	6	50.79	2	479	1	457	1	468	1	
K0307 (c)	54.42	6	41.60	5	48.01	6	426	5	445	2	435	3	
DBW 39 (c)	59.40	3	37.31	8	48.36	5	405	7	374	8	390	8	
RAJ 4229 (I)	48.68	9	42.11	3	45.39	8	449	3	416	5	432	4	
Mean	55.13		40.88		48.01		422		407		414		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	**	0.81	4.92	8.75			N.S.	14.76	89.85	18.52			
Variety (B)	*	1.65	4.76	8.41			**	12.83	37.01	7.59			
B within A	N.S.	2.33	6.73				N.S.	18.14	52.35				
A within B		2.34	6.76					22.60	65.19				
Grains/earhead													
NW 5054	30.9	8	28.36	4	29.6	7	44.83	1	38.54	2	41.68	1	
WH 1120	31.8	5	27.72	6	29.8	6	38.25	7	36.59	4	37.42	6	
PBW 661	36.6	2	34.46	1	35.5	1	42.89	4	35.64	6	39.26	4	
K1006	31.0	7	31.55	2	31.3	3	39.69	5	30.48	9	35.09	9	
HD 3076	32.26	4	29.79	3	31.02	4	43.55	2	35.49	7	39.52	3	
HD2733 (c)	29.27	9	23.00	9	26.13	9	43.27	3	39.19	1	41.23	2	
K0307 (c)	34.39	3	27.08	8	30.74	5	37.25	8	34.87	8	36.06	7	
DBW 39 (c)	38.48	1	27.42	7	32.95	2	38.37	6	36.90	3	37.64	5	
RAJ 4229 (I)	31.10	6	27.87	5	29.49	8	35.42	9	36.48	5	35.95	8	
Mean	32.87		28.58		30.73		40.39		36.02		38.21		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	1.42	8.61	23.94			*	0.67	4.09	9.14			
Variety (B)	N.S.	1.82	5.26	14.54			**	0.97	2.80	6.23			
B within A	N.S.	2.58	7.44				**	1.37	3.97				
A within B		2.81	8.12					1.46	4.21				
Date of Sowing:	18.11.2012				17.12.2012				Date of Harvesting: 3.4.2013				7.4.2013

Table 3.1.5 North Eastern Plains Zone IR-TS-TAS-DOS

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NW 5054	51.81	9	36.85	8	44.33	9
WH 1120	55.52	4	38.50	6	47.01	6
PBW 661	58.26	2	39.28	4	48.77	2
K1006	54.29	5	37.31	7	45.80	7
HD 3076	54.10	6	40.25	3	47.18	5
HD2733 (c)	57.19	3	38.89	5	48.04	3
K0307 (c)	53.22	8	35.82	9	44.52	8
DBW 39 (c)	58.97	1	41.35	2	50.16	1
RAJ 4229 (I)	53.85	7	42.05	1	47.95	4
Mean	55.25		38.92		47.08	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.32	1.92	3.48		
Variety (B)	**	0.82	2.36	4.25		
B within A	N.S.	1.15	3.33			
A within B		1.13	3.27			
Grains/earhead						
NW 5054	32.4	8	29.41	2	30.9	7
WH 1120	36.2	1	29.23	3	32.7	1
PBW 661	32.8	7	27.83	9	30.3	8
K1006	35.4	2	28.42	8	31.9	2
HD 3076	30.61	9	29.50	1	30.05	9
HD2733 (c)	34.58	4	29.06	5	31.82	4
K0307 (c)	35.08	3	28.71	7	31.89	3
DBW 39 (c)	33.37	6	28.80	6	31.09	6
RAJ 4229 (I)	33.91	5	29.14	4	31.52	5
Mean	33.82		28.90		31.36	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.12	0.72	1.96		
Variety (B)	N.S.	0.63	1.81	4.91		
B within A	*	0.89	2.56			
A within B		0.85	2.44			
Date of Sowing:	20.11.2012		19.12.2012			

Kanpur 2012-13

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Earhead/sq.m.						
407	8		375	5	391	7
407	7		376	4	392	5
417	3		378	2	398	2
409	6		370	9	390	9
410	5		373	7	391	6
415	4		375	5	395	3
418	2		370	8	394	4
418	1		379	1	399	1
404	9		376	3	390	8
412			375		393	
	F. Test	S.E.m	C.D.	C.V.(%)		
	**	0.91	5.53	1.20		
	N.S.	2.35	6.78	1.46		
	N.S.	3.33	9.59			
		3.26	9.42			
1000 Grains weight, g						
39.33	5		33.43	9	36.38	7
37.70	7		35.07	7	36.38	8
42.63	2		37.33	3	39.98	2
37.50	8		35.47	6	36.48	6
43.17	1		36.60	4	39.88	3
39.83	4		35.70	5	37.77	5
36.33	9		33.77	8	35.05	9
42.27	3		37.90	2	40.08	1
39.30	6		38.37	1	38.83	4
39.79			35.96		37.87	
	F. Test	S.E.m	C.D.	C.V.(%)		
	**	0.16	0.97	2.18		
	**	0.39	1.12	2.51		
	**	0.55	1.58			
		0.54	1.56			
Date of Sowing:	20.11.2012		19.12.2012		Date of Harvesting:	22.04.2013

Table 3.1.6 North Eastern Plains Zone IR-TS-TAS-DOS

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NW 5054	36.10	7	32.37	7	34.23	7
WH 1120	39.57	2	34.00	2	36.78	1
PBW 661	35.63	9	32.60	6	34.12	8
K1006	40.03	1	32.37	7	36.20	2
HD 3076	39.10	3	33.07	3	36.08	3
HD2733 (c)	37.93	4	34.23	1	36.08	3
K0307 (c)	37.70	5	28.67	9	33.18	9
DBW 39 (c)	36.33	6	32.97	5	34.65	5
RAJ 4229 (I)	36.10	7	33.07	3	34.58	6
Mean	37.61		32.59		35.10	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.50	3.02	7.36		
Variety (B)	N.S.	1.38	3.98	9.63		
B within A	N.S.	1.95	5.63			
A within B		1.91	5.50			
Grains/earhead						
NW 5054	28.8	8	32.65	6	30.7	8
WH 1120	29.5	7	37.89	1	33.7	1
PBW 661	31.7	3	34.34	2	33.0	3
K1006	30.1	6	33.58	3	31.8	6
HD 3076	26.35	9	29.70	9	28.02	9
HD2733 (c)	30.66	5	32.18	7	31.42	7
K0307 (c)	31.50	4	32.88	5	32.19	5
DBW 39 (c)	32.75	2	33.45	4	33.10	2
RAJ 4229 (I)	33.86	1	31.19	8	32.53	4
Mean	30.57		33.10		31.84	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.54	3.31	8.89		
Variety (B)	N.S.	1.82	5.26	14.04		
B within A	N.S.	2.58	7.44			
A within B		2.49	7.19			
Date of Sowing:	20.11.2012		15.12.2012			

Kalyani 2012-13

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Earhead/sq.m.						
281	8		267	5	274	8
311	2		258	7	285	4
276	9		245	8	261	9
319	1		277	3	298	1
307	3		280	2	293	3
302	5		290	1	296	2
305	4		245	8	275	6
288	6		260	6	274	7
283	7		270	4	277	5
297			266		281	
	F. Test	S.E.m	C.D.	C.V.(%)		
	*	3.21	19.54	5.93		
	N.S.	10.56	30.48	9.20		
	N.S.	14.94	43.10			
		14.45	41.68			
1000 Grains weight, g						
44.67	2		37.33	5	41.00	2
43.33	3		35.00	8	39.17	4
41.33	5		39.33	2	40.33	3
42.00	4		35.00	8	38.50	8
48.33	1		40.67	1	44.50	1
41.33	5		36.67	6	39.00	5
39.33	8		35.67	7	37.50	9
39.67	7		38.00	4	38.83	6
38.00	9		39.33	2	38.67	7
42.00			37.44		39.72	
	F. Test	S.E.m	C.D.	C.V.(%)		
	N.S.	0.78	4.72	10.14		
	**	1.04	3.01	6.44		
	*	1.48	4.26			
		1.59	4.60			
Date of Sowing:	20.11.2012		15.12.2012		Date of Harvesting:	31.03.2013

Table 3.1.7		North Eastern Plains Zone				IR-TS-TAS-DOS		RAU, PUSA				2012-13	
Variety	Sowing Time				Mean	Rk	Sowing Time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
Yield, q/ha													
NW 5054	42.02	6	39.43	5	40.73	5	322	6	315	6	319	6	
WH 1120	45.38	2	42.10	3	43.74	2	338	2	325	2	332	2	
PBW 661	42.63	4	39.38	6	41.01	4	327	5	320	5	324	5	
K1006	37.53	9	35.20	9	36.37	9	311	9	302	9	307	9	
HD 3076	38.65	8	36.35	8	37.50	8	315	8	308	8	312	8	
HD2733 (c)	46.40	1	44.85	1	45.63	1	341	1	331	1	336	1	
K0307 (c)	42.63	4	38.25	7	40.44	6	328	4	321	4	325	4	
DBW 39 (c)	39.26	7	41.55	4	40.41	7	318	7	311	7	315	7	
RAJ 4229 (I)	43.04	3	42.65	2	42.85	3	332	3	322	3	327	3	
Mean	41.95		39.97		40.96		326		317		322		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	**	0.05	0.33	0.69			**	0.16	1.00	0.26			
Variety (B)	**	1.09	3.14	6.51			**	1.11	3.22	0.85			
B within A	N.S.	1.54	4.44				N.S.	1.58	4.55				
A within B		1.45	4.19					1.49	4.31				
Grains/earhead													
NW 5054	31.5	6	30.89	6	31.2	6	40.61	6	39.88	6	40.25	6	
WH 1120	33.1	3	32.23	5	32.7	3	41.98	2	40.87	2	41.43	2	
PBW 661	33.5	2	32.60	4	33.1	2	40.88	5	40.05	5	40.47	5	
K1006	31.2	7	30.15	8	30.7	8	38.33	9	37.92	9	38.13	9	
HD 3076	28.61	9	28.31	9	28.46	9	39.75	8	38.87	8	39.31	8	
HD2733 (c)	33.78	1	34.59	1	34.19	1	42.65	1	41.15	1	41.90	1	
K0307 (c)	32.50	4	30.60	7	31.55	5	41.20	4	40.18	4	40.69	4	
DBW 39 (c)	29.38	8	32.75	3	31.07	7	40.25	7	39.38	7	39.82	7	
RAJ 4229 (I)	31.87	5	32.78	2	32.32	4	41.55	3	40.45	3	41.00	3	
Mean	31.71		31.66		31.69		40.80		39.86		40.33		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	0.24	1.44	3.89			N.S.	0.27	1.62	3.42			
Variety (B)	*	0.94	2.70	7.25			**	0.58	1.67	3.51			
B within A	N.S.	1.33	3.82				N.S.	0.82	2.36				
A within B		1.27	3.67					0.82	2.35				
Date of Sowing:	23.11.2012				20.12.2012		Date of Harvesting: 07.04.2013				18.04.2013		

Table 3.1.8		North Eastern Plains Zone				IR-TS-TAS-DOS		Ranchi				2012-13	
Variety	Sowing Time				Mean	Rk	Sowing Time				Mean	Rk	
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk			
Yield, q/ha													
NW 5054	40.55	3	34.24	2	37.39	2	334	3	292	2	313	2	
WH 1120	42.53	2	28.59	8	35.56	3	358	1	247	8	303	3	
PBW 661	39.79	4	37.34	1	38.57	1	320	4	322	1	321	1	
K1006	42.58	1	27.28	9	34.93	4	345	2	230	9	288	5	
HD 3076	36.23	6	31.42	4	33.83	6	278	6	273	4	276	6	
HD2733 (c)	34.47	8	32.20	3	33.34	7	274	8	270	5	272	7	
K0307 (c)	38.54	5	30.98	5	34.76	5	314	5	276	3	295	4	
DBW 39 (c)	34.92	7	29.48	7	32.20	9	275	7	258	7	266	8	
RAJ 4229 (I)	33.85	9	30.87	6	32.36	8	250	9	261	6	256	9	
Mean	38.16		31.38		34.77		305		270		288		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	*	0.68	4.14	10.17			N.S.	10.24	62.33	18.50			
Variety (B)	**	1.19	3.44	8.41			**	8.87	25.60	7.56			
B within A	**	1.69	4.87				**	12.55	36.21				
A within B		1.73	4.99					15.65	45.15				
Grains/earhead													
NW 5054	31.2	6	30.69	3	31.0	5	38.82	6	38.34	6	38.58	6	
WH 1120	29.3	9	28.88	7	29.1	9	40.71	3	40.03	3	40.37	3	
PBW 661	30.6	8	28.73	8	29.7	7	40.93	2	40.28	2	40.61	2	
K1006	32.4	3	31.54	1	32.0	2	38.21	7	37.61	8	37.91	8	
HD 3076	33.24	2	29.69	6	31.46	3	39.31	5	38.83	5	39.07	5	
HD2733 (c)	31.36	5	30.26	4	30.81	6	40.20	4	39.64	4	39.92	4	
K0307 (c)	32.29	4	30.13	5	31.21	4	37.97	9	37.33	9	37.65	9	
DBW 39 (c)	30.93	7	28.16	9	29.55	8	41.16	1	40.59	1	40.88	1	
RAJ 4229 (I)	35.39	1	31.33	2	33.36	1	38.21	8	37.70	7	37.96	7	
Mean	31.86		29.93		30.90		39.50		38.93		39.21		
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)	N.S.	0.80	4.88	13.49			**	0.04	0.23	0.50			
Variety (B)	**	0.70	2.02	5.55			**	0.23	0.66	1.42			
B within A	N.S.	0.99	2.86				N.S.	0.32	0.93				
A within B		1.23	3.55					0.31	0.88				
Date of Sowing:	18.11.2012				15.12.2012		Date of Harvesting: 08.04.2013				04.05.2013		

Table 3.1.9 North Eastern Plains Zone IR-TS-TAS-DOS

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NW 5054	49.32	1	43.78	1	46.55	1
WH 1120	45.25	7	39.12	7	42.19	7
PBW 661	45.58	6	40.14	6	42.86	6
K1006	46.96	3	41.50	3	44.23	3
HD 3076	46.00	5	40.46	5	43.23	5
HD2733 (c)	45.25	8	39.12	8	42.18	8
K0307 (c)	42.86	9	38.78	9	40.82	9
DBW 39 (c)	47.64	2	43.51	2	45.58	2
RAJ 4229 (I)	46.27	4	40.82	4	43.55	4
Mean	46.13		40.80		43.46	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.47	2.87	5.63		
Variety (B)	*	1.14	3.30	6.45		
B within A	N.S.	1.62	4.67			
A within B		1.60	4.61			
Grains/earhead						
NW 5054	47.4	6	46.56	7	47.0	7
WH 1120	47.3	7	46.19	9	46.8	9
PBW 661	47.9	5	49.50	3	48.7	3
K1006	48.2	4	46.28	8	47.2	6
HD 3076	48.82	2	47.70	5	48.26	4
HD2733 (c)	49.19	1	50.69	2	49.94	1
K0307 (c)	48.51	3	50.83	1	49.67	2
DBW 39 (c)	47.09	8	48.02	4	47.56	5
RAJ 4229 (I)	46.47	9	47.29	6	46.88	8
Mean	47.88		48.12		48.00	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.57	3.48	6.20		
Variety (B)	N.S.	0.82	2.37	4.19		
B within A	N.S.	1.16	3.35			
A within B		1.23	3.56			
Date of Sowing:	21.11.2012		22.12.2012		Date of Harvesting: 26.04.2013	

Sabour 2012-13

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Earhead/sq.m.						
NW 5054	260	1	245	1	253	1
WH 1120	245	7	237	3	241	5
PBW 661	246	6	225	7	236	7
K1006	250	3	236	4	243	3
HD 3076	248	5	229	6	239	6
HD2733 (c)	242	8	220	8	231	8
K0307 (c)	241	9	218	9	229	9
DBW 39 (c)	255	2	238	2	247	2
RAJ 4229 (I)	249	4	233	5	241	4
Mean	248		231		240	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	1.33	8.12	2.89		
Variety (B)	**	3.26	9.41	3.33		
B within A	N.S.	4.61	13.31			
A within B		4.55	13.13			
1000 Grains weight, g						
NW 5054	40.00	1	38.33	1	39.17	1
WH 1120	39.00	4	36.00	6	37.50	5
PBW 661	38.67	6	36.00	6	37.33	7
K1006	39.00	4	38.00	2	38.50	3
HD 3076	38.00	7	37.00	4	37.50	5
HD2733 (c)	38.00	7	35.00	8	36.50	8
K0307 (c)	36.67	9	35.00	8	35.83	9
DBW 39 (c)	39.67	3	38.00	2	38.83	2
RAJ 4229 (I)	40.00	1	37.00	4	38.50	3
Mean	38.78		36.70		37.74	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.18	1.12	2.52		
Variety (B)	**	0.44	1.26	2.84		
B within A	N.S.	0.62	1.79			
A within B		0.61	1.77			
Date of Sowing:	21.11.2012		22.12.2012		Date of Harvesting: 26.04.2013	

Table 3.1.10 North Eastern Plains Zone IR-TS-TAS-DOS

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Yield, q/ha						
NW 5054	35.89	9	31.17	8	33.53	9
WH 1120	41.67	5	39.44	2	40.55	3
PBW 661	46.39	2	38.48	3	42.44	2
K1006	44.63	3	30.85	9	37.74	6
HD 3076	50.02	1	39.56	1	44.79	1
HD2733 (c)	40.91	7	34.11	6	37.51	7
K0307 (c)	43.49	4	36.22	4	39.86	4
DBW 39 (c)	41.36	6	32.41	7	36.89	8
RAJ 4229 (I)	40.40	8	35.20	5	37.80	5
Mean	42.75		35.27		39.01	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.05	0.30	0.66		
Variety (B)	**	0.34	0.97	2.11		
B within A	**	0.48	1.37			
A within B		0.45	1.30			
Grains/earhead						
NW 5054	21.3	9	26.62	7	24.0	8
WH 1120	26.0	6	31.52	4	28.8	6
PBW 661	29.2	3	32.54	3	30.9	2
K1006	25.8	7	26.36	8	26.1	7
HD 3076	29.06	4	30.33	5	29.70	4
HD2733 (c)	21.95	8	25.12	9	23.53	9
K0307 (c)	29.74	1	37.45	1	33.59	1
DBW 39 (c)	29.71	2	28.96	6	29.34	5
RAJ 4229 (I)	26.64	5	33.00	2	29.82	3
Mean	26.61		30.21		28.41	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.32	1.96	5.89		
Variety (B)	**	0.83	2.38	7.12		
B within A	*	1.17	3.37			
A within B		1.15	3.31			
Date of Sowing:	21.11.2012		19.12.2012		Date of Harvesting: 12.04.2013	

Varanasi 2012-13

Variety	Sowing Time				Mean	Rk
	Timely	Rk	Late	Rk		
Earhead/sq.m.						
NW 5054	403	4	348	6	375	4
WH 1120	416	3	406	2	411	3
PBW 661	376	7	339	7	357	7
K1006	453	2	417	1	435	1
HD 3076	385	6	365	4	375	5
HD2733 (c)	472	1	374	3	423	2
K0307 (c)	365	8	314	9	340	9
DBW 39 (c)	338	9	350	5	344	8
RAJ 4229 (I)	393	5	331	8	362	6
Mean	400		360		380	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	1.71	10.44	2.34		
Variety (B)	**	8.31	23.98	5.35		
B within A	**	11.75	33.91			
A within B		11.21	32.35			
1000 Grains weight, g						
NW 5054	41.85	3	33.66	4	37.76	4
WH 1120	38.51	8	30.85	8	34.68	8
PBW 661	42.36	2	35.23	3	38.79	2
K1006	38.17	9	28.13	9	33.15	9
HD 3076	44.95	1	35.85	2	40.40	1
HD2733 (c)	39.54	6	36.49	1	38.01	3
K0307 (c)	40.12	5	30.93	7	35.53	6
DBW 39 (c)	41.49	4	32.17	6	36.83	5
RAJ 4229 (I)	38.60	7	32.20	5	35.40	7
Mean	40.62		32.83		36.73	
	F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.28	1.69	3.92		
Variety (B)	**	0.57	1.63	3.77		
B within A	**	0.80	2.31			
A within B		0.80	2.32			
Date of Sowing:	21.11.2012		19.12.2012		Date of Harvesting: 12.04.2013	

Table 3.2.1 North Eastern Plains Zone					IR-LS-TAS-DOS		Burdwan			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	27.67	3	19.47	6	23.57	6	247	5	191	6	219	6
HD 2985 (c)	26.70	6	24.00	5	25.35	5	242	6	233	5	238	5
HD 2733 (c)	27.23	5	24.07	4	25.65	4	252	3	238	4	245	3
HI 1563 (c)	29.50	1	24.47	3	26.98	1	266	1	242	2	254	2
NW 2036 (c)	28.33	2	24.63	2	26.48	2	264	2	245	1	255	1
Raj 4250	27.53	4	24.70	1	26.12	3	248	4	242	3	245	4
Mean	27.83		23.56		25.69		253		232		243	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.14	0.83	2.25			*	1.76	10.71	3.08		
Variety (B)	**	0.40	1.18	3.81			**	4.06	11.98	4.10		
B within A	**	0.57	1.67				**	5.74	16.94			
A within B		0.53	1.57					5.53	16.31			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	27.13	6	27.15	4	27.14	4	41.33	1	37.47	3	39.40	1
HD 2985 (c)	28.43	3	29.73	1	29.08	3	38.77	4	34.60	5	36.68	4
HD 2733 (c)	29.72	2	28.53	3	29.13	2	36.37	5	35.40	4	35.88	5
HI 1563 (c)	27.56	5	26.45	6	27.01	6	40.30	2	38.17	2	39.23	3
NW 2036 (c)	30.15	1	29.21	2	29.68	1	35.57	6	34.43	6	35.00	6
Raj 4250	27.60	4	26.60	5	27.10	5	40.30	2	38.43	1	39.37	2
Mean	28.43		27.94		28.19		38.77		36.42		37.59	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.09	0.56	1.38			**	0.15	0.89	1.66		
Variety (B)	**	0.21	0.63	1.84			**	0.27	0.80	1.77		
B within A	**	0.30	0.88				**	0.39	1.14			
A within B		0.29	0.85					0.38	1.12			
Date of Sowing:	20.12.2012		02.01.2013		Date of Harvesting:			14.04.2013		14.04.2013		

Table 3.2.2 North Eastern Plains Zone					IR-LS-TAS-DOS		Coochbehar			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	26.86	6	22.84	6	24.85	6	247	6	170	6	208	6
HD 2985 (c)	31.75	4	26.40	5	29.08	5	272	3	218	5	245	5
HD 2733 (c)	44.72	1	39.30	1	42.01	1	305	1	273	1	289	1
HI 1563 (c)	31.65	5	27.06	4	29.35	4	272	3	222	4	247	4
NW 2036 (c)	40.99	2	34.63	2	37.81	2	288	2	263	2	276	2
Raj 4250	38.35	3	33.35	3	35.85	3	270	5	232	3	251	3
Mean	35.72		30.60		33.16		276		230		253	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.20	1.22	2.57			N.S.	17.05	103.76	28.63		
Variety (B)	**	0.74	2.19	5.49			**	12.75	37.62	12.36		
B within A	N.S.	1.05	3.10				N.S.	18.03	53.20			
A within B		0.98	2.89					23.70	69.92			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	28.56	6	41.66	3	35.11	5	38.33	3	33.12	3	35.72	3
HD 2985 (c)	35.25	2	42.86	2	39.05	2	33.57	6	28.80	6	31.19	6
HD 2733 (c)	33.37	5	36.67	6	35.02	6	44.40	1	39.33	1	41.86	1
HI 1563 (c)	34.41	3	47.39	1	40.90	1	34.21	5	29.57	5	31.89	5
NW 2036 (c)	37.49	1	40.39	4	38.94	3	38.22	4	32.72	4	35.47	4
Raj 4250	34.14	4	39.72	5	36.93	4	42.36	2	36.31	2	39.34	2
Mean	33.87		41.45		37.66		38.52		33.31		35.91	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	3.26	19.81	36.68			**	0.23	1.38	2.68		
Variety (B)	N.S.	3.06	9.04	19.93			**	0.60	1.77	4.09		
B within A	N.S.	4.33	12.78				N.S.	0.85	2.50			
A within B		5.12	15.11					0.81	2.38			
Date of Sowing:	20.12.2012		04.01.2013		Date of Harvesting:			13.04.2013		25.04.2013		

Table 3.2.3 North Eastern Plains Zone					IR-LS-TAS-DOS		Faizabad			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	48.94	1	40.35	1	44.64	1	478	2	444	2	461	2
HD 2985 (c)	46.96	2	36.19	4	41.57	4	458	3	427	5	443	4
HD 2733 (c)	46.30	3	35.05	6	40.68	6	489	1	447	1	468	1
HI 1563 (c)	44.97	6	38.64	3	41.81	3	435	5	431	4	433	5
NW 2036 (c)	45.92	4	36.18	5	41.05	5	422	6	418	6	420	6
Raj 4250	45.16	5	39.69	2	42.43	2	453	4	442	3	448	3
Mean	46.38		37.68		42.03		456		435		445	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.63	3.82	6.33			*	2.36	14.37	2.25		
Variety (B)	**	0.62	1.84	3.64			*	8.89	26.22	4.89		
B within A	*	0.88	2.61				N.S.	12.57	37.08			
A within B		1.02	3.02					11.71	34.56			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	28.41	5	25.34	6	26.88	5	36.18	2	36.19	1	36.19	2
HD 2985 (c)	31.41	2	27.69	4	29.55	4	32.73	4	30.60	4	31.66	4
HD 2733 (c)	30.38	4	29.32	2	29.85	3	31.26	5	27.00	6	29.13	6
HI 1563 (c)	31.33	3	29.10	3	30.22	2	33.16	3	30.91	3	32.03	3
NW 2036 (c)	35.85	1	29.93	1	32.89	1	30.32	6	28.95	5	29.63	5
Raj 4250	26.12	6	25.80	5	25.96	6	38.99	1	34.80	2	36.89	1
Mean	30.58		27.87		29.22		33.77		31.41		32.59	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.63	3.84	9.17			**	0.16	0.96	2.05		
Variety (B)	**	1.03	3.03	8.62			**	0.92	2.71	6.92		
B within A	N.S.	1.45	4.29				N.S.	1.30	3.84			
A within B		1.47	4.34					1.20	3.54			
Date of Sowing:	20.12.2012		7.1.2013		Date of Harvesting:		10.5.2013		12.5.2013			

Table 3.2.4 North Eastern Plains Zone					IR-LS-TAS-DOS		IARI, Samastipur			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	33.82	6	27.34	4	30.58	5	492	2	311	6	401	3
HD 2985 (c)	37.03	3	27.37	3	32.20	3	449	3	362	2	405	2
HD 2733 (c)	38.04	1	30.64	1	34.34	1	576	1	421	1	498	1
HI 1563 (c)	36.29	4	26.13	6	31.21	4	439	5	351	4	395	5
NW 2036 (c)	33.90	5	26.57	5	30.23	6	406	6	317	5	361	6
Raj 4250	37.89	2	30.22	2	34.06	2	442	4	354	3	398	4
Mean	36.16		28.04		32.10		467		353		410	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.94	5.75	12.48			N.S.	40.95	249.20	42.39		
Variety (B)	*	1.00	2.94	7.61			**	19.04	56.18	11.38		
B within A	N.S.	1.41	4.16				N.S.	26.93	79.45			
A within B		1.60	4.71					47.76	140.91			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	17.38	6	30.11	2	23.75	5	39.62	1	31.03	3	35.33	1
HD 2985 (c)	27.38	2	29.89	3	28.63	2	30.27	5	27.11	6	28.69	5
HD 2733 (c)	19.69	5	24.20	6	21.95	6	34.32	2	31.99	2	33.16	3
HI 1563 (c)	25.55	4	26.09	5	25.82	4	33.37	4	30.93	4	32.15	4
NW 2036 (c)	29.49	1	33.96	1	31.73	1	28.48	6	27.60	5	28.04	6
Raj 4250	25.57	3	27.09	4	26.33	3	33.95	3	32.70	1	33.33	2
Mean	24.18		28.56		26.37		33.34		30.23		31.78	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	3.35	20.38	53.89			N.S.	1.04	6.32	13.86		
Variety (B)	**	1.53	4.52	14.22			**	1.21	3.57	9.32		
B within A	N.S.	2.16	6.39				N.S.	1.71	5.05			
A within B		3.89	11.47					1.88	5.53			
Date of Sowing:	15.12.2012		02.01.2013		Date of Harvesting:		07.04.2013		22.04.2013			

Table 3.2.5 North Eastern Plains Zone					IR-LS-TAS-DOS		Kanpur			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	39.13	3	32.83	3	35.98	3	410	4	371	2	391	2
HD 2985 (c)	36.05	6	31.25	4	33.65	6	408	5	365	6	386	5
HD 2733 (c)	37.60	5	31.05	5	34.33	5	412	3	365	5	389	4
HI 1563 (c)	40.00	2	33.15	2	36.58	2	414	2	367	4	391	3
NW 2036 (c)	38.94	4	29.80	6	34.37	4	404	6	368	3	386	6
Raj 4250	42.32	1	36.23	1	39.28	1	415	1	377	1	396	1
Mean	39.01		32.39		35.70		411		369		390	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.07	0.41	0.80			**	1.19	7.27	1.30		
Variety (B)	**	0.84	2.48	5.78			N.S.	2.83	8.35	1.78		
B within A	N.S.	1.19	3.51				N.S.	4.00	11.81			
A within B		1.09	3.21					3.84	11.34			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	25.62	4	25.09	4	25.36	4	37.27	4	35.23	3	36.25	4
HD 2985 (c)	24.76	5	26.29	2	25.52	3	35.70	6	32.63	6	34.17	6
HD 2733 (c)	23.88	6	24.24	5	24.06	5	38.27	2	35.10	4	36.68	3
HI 1563 (c)	26.32	1	26.97	1	26.65	1	36.67	5	33.53	5	35.10	5
NW 2036 (c)	25.79	3	22.33	6	24.06	6	37.43	3	36.33	2	36.88	2
Raj 4250	25.96	2	25.69	3	25.82	2	39.27	1	37.43	1	38.35	1
Mean	25.39		25.10		25.25		37.43		35.04		36.24	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.09	0.56	1.54			**	0.08	0.48	0.92		
Variety (B)	N.S.	0.70	2.06	6.78			**	0.31	0.92	2.11		
B within A	N.S.	0.99	2.91				N.S.	0.44	1.30			
A within B		0.91	2.67					0.41	1.21			
Date of Sowing:	20.12.2012		03.01.2013		Date of Harvesting:			23.04.2013		26.04.2013		

Table 3.2.6 North Eastern Plains Zone					IR-LS-TAS-DOS		Kalyani			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	30.63	5	25.83	5	28.23	5	294	5	241	5	268	5
HD 2985 (c)	31.40	4	26.33	4	28.87	4	298	4	250	4	274	4
HD 2733 (c)	33.20	2	26.77	2	29.98	2	334	1	268	2	301	2
HI 1563 (c)	28.60	6	25.50	6	27.05	6	285	6	238	6	261	6
NW 2036 (c)	33.97	1	27.53	1	30.75	1	331	2	279	1	305	1
Raj 4250	32.43	3	26.53	3	29.48	3	308	3	256	3	282	3
Mean	31.71		26.42		29.06		308		255		282	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.97	5.88	14.10			*	7.59	46.20	11.43		
Variety (B)	N.S.	0.82	2.43	6.95			N.S.	13.69	40.39	11.90		
B within A	N.S.	1.17	3.44				N.S.	19.36	57.12			
A within B		1.44	4.24					19.24	56.75			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	28.34	1	30.50	1	29.42	1	37.00	5	36.00	3	36.50	5
HD 2985 (c)	27.66	2	29.61	2	28.64	2	38.33	3	36.00	3	37.17	3
HD 2733 (c)	27.63	3	28.59	4	28.11	3	36.33	6	35.33	6	35.83	6
HI 1563 (c)	26.06	6	28.83	3	27.45	4	39.00	2	37.33	2	38.17	2
NW 2036 (c)	26.81	4	27.57	5	27.19	5	38.33	3	36.00	3	37.17	3
Raj 4250	26.14	5	26.60	6	26.37	6	40.67	1	39.67	1	40.17	1
Mean	27.11		28.62		27.86		38.28		36.72		37.50	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.30	1.86	4.64			*	0.17	1.04	1.94		
Variety (B)	N.S.	1.80	5.30	15.80			**	0.55	1.63	3.60		
B within A	N.S.	2.54	7.50				N.S.	0.78	2.30			
A within B		2.34	6.90					0.73	2.16			
Date of Sowing:	15.12.2012		02.01.2013		Date of Harvesting:			07.04.2013		13.04.2013		

Table 3.2.7 North Eastern Plains Zone					IR-LS-TAS-DOS	RAU, PUSA				2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time						
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk	Mean	Rk		
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	41.03	2	36.50	2	38.77	2	292	2	280	2	286	2
HD 2985 (c)	39.35	5	33.35	5	36.35	5	285	5	272	5	279	5
HD 2733 (c)	39.70	4	33.72	4	36.71	4	287	4	275	4	281	4
HI 1563 (c)	43.50	1	36.70	1	40.10	1	295	1	283	1	289	1
NW 2036 (c)	33.30	6	31.40	6	32.35	6	281	6	267	6	274	6
Raj 4250	39.80	3	35.75	3	37.78	3	290	3	277	3	284	3
Mean	39.45		34.57		37.01		288		276		282	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.78	4.75	8.95			**	0.42	2.59	0.64		
Variety (B)	N.S.	1.65	4.88	10.94			**	0.97	2.87	0.84		
B within A	N.S.	2.34	6.90				N.S.	1.37	4.05			
A within B		2.27	6.70					1.32	3.91			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	33.91	4	34.01	1	33.96	3	41.50	2	38.50	2	40.00	2
HD 2985 (c)	36.25	1	32.36	5	34.30	1	38.35	6	37.65	5	38.00	5
HD 2733 (c)	34.07	3	32.52	4	33.30	5	40.65	4	37.92	4	39.29	4
HI 1563 (c)	34.97	2	32.99	3	33.98	2	42.30	1	39.25	1	40.78	1
NW 2036 (c)	30.81	6	32.21	6	31.51	6	38.69	5	36.75	6	37.72	6
Raj 4250	33.50	5	33.88	2	33.69	4	41.10	3	38.15	3	39.63	3
Mean	33.92		32.99		33.46		40.43		38.04		39.23	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.49	2.99	6.22			N.S.	0.56	3.39	6.02		
Variety (B)	N.S.	1.43	4.22	10.48			*	0.64	1.90	4.02		
B within A	N.S.	2.02	5.97				N.S.	0.91	2.69			
A within B		1.91	5.64					1.00	2.95			
Date of Sowing:	18.12.2012		04.01.2013				Date of Harvesting:	10.04.2013			15.04.2013	

Table 3.2.8 North Eastern Plains Zone					IR-LS-TAS-DOS	Ranchi				2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time						
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk	Mean	Rk		
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	35.02	1	27.98	2	31.50	2	294	1	228	2	261	1
HD 2985 (c)	33.57	3	26.42	3	29.99	3	269	2	208	4	239	3
HD 2733 (c)	30.96	5	22.79	6	26.88	6	251	5	168	6	210	6
HI 1563 (c)	34.50	2	29.12	1	31.81	1	264	3	252	1	258	2
NW 2036 (c)	29.71	6	25.02	4	27.37	4	235	6	217	3	226	5
Raj 4250	31.18	4	23.45	5	27.31	5	256	4	197	5	227	4
Mean	32.49		25.80		29.14		262		212		237	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	1.39	8.48	20.29			N.S.	9.83	59.84	17.64		
Variety (B)	*	1.17	3.44	9.80			**	9.87	29.13	10.22		
B within A	N.S.	1.65	4.86				N.S.	13.96	41.19			
A within B		2.05	6.05					16.10	47.49			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	29.84	3	30.31	2	30.07	1	39.83	6	40.55	5	40.19	6
HD 2985 (c)	27.29	6	27.32	6	27.30	6	45.68	1	46.66	1	46.17	1
HD 2733 (c)	28.66	4	31.49	1	30.07	2	43.34	2	43.10	2	43.22	2
HI 1563 (c)	32.20	1	27.74	5	29.97	3	40.70	4	41.72	3	41.21	4
NW 2036 (c)	31.15	2	28.11	4	29.63	4	40.62	5	40.95	4	40.79	5
Raj 4250	28.50	5	29.61	3	29.05	5	42.65	3	40.18	6	41.41	3
Mean	29.61		29.10		29.35		42.14		42.19		42.17	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.58	3.51	8.34			N.S.	0.23	1.42	2.35		
Variety (B)	**	0.46	1.37	3.88			**	0.30	0.90	1.77		
B within A	**	0.66	1.94				**	0.43	1.27			
A within B		0.83	2.45					0.46	1.35			
Date of Sowing:	17.12.2012		07.01.2013				Date of Harvesting:	22.04.2013			03.05.2013	

Table 3.2.9 North Eastern Plains Zone					IR-LS-TAS-DOS		Sabour			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	38.01	6	32.29	6	35.15	6	233	4	208	6	221	4
HD 2985 (c)	40.82	3	33.63	3	37.23	3	234	3	212	3	223	3
HD 2733 (c)	41.57	2	34.01	2	37.79	2	236	2	215	2	226	2
HI 1563 (c)	39.68	4	32.96	4	36.32	4	230	5	210	4	220	5
NW 2036 (c)	38.93	5	32.51	5	35.72	5	229	6	210	4	220	6
Raj 4250	43.46	1	34.77	1	39.12	1	240	1	219	1	229	1
Mean	40.41		33.36		36.89		234		212		223	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	*	0.55	3.32	6.28			**	0.71	4.31	1.35		
Variety (B)	*	0.85	2.52	5.66			*	2.08	6.15	2.29		
B within A	N.S.	1.21	3.56				N.S.	2.95	8.70			
A within B		1.23	3.63					2.78	8.21			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	44.02	6	44.38	1	44.20	4	37.00	4	35.00	6	36.00	6
HD 2985 (c)	45.92	5	42.87	4	44.40	3	38.00	2	37.00	3	37.50	3
HD 2733 (c)	46.34	3	41.62	6	43.98	6	38.00	2	38.00	1	38.00	2
HI 1563 (c)	46.65	1	43.64	2	45.14	1	37.00	4	36.00	4	36.50	4
NW 2036 (c)	45.94	4	43.04	3	44.49	2	37.00	4	36.00	4	36.50	4
Raj 4250	46.50	2	41.76	5	44.13	5	39.00	1	38.00	1	38.50	1
Mean	45.90		42.88		44.39		37.67		36.67		37.17	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.51	3.09	4.86			N.S.	0.48	2.90	5.44		
Variety (B)	N.S.	0.68	2.01	3.76			*	0.51	1.52	3.39		
B within A	N.S.	0.96	2.85				N.S.	0.73	2.14			
A within B		1.02	3.00					0.82	2.41			
Date of Sowing:	22.12.2012		07.01.2013		Date of Harvesting:		01.05.2013		09.05.2013			

Table 3.2.10 North Eastern Plains Zone					IR-LS-TAS-DOS		Varanasi			2012-13		
Variety	Sowing Time			Mean	Rk	Sowing Time			Mean	Rk		
	Late	Rk	Very Late Rk			Late	Rk	Very Late Rk				
Yield, q/ha					Earhead/sq.m.							
DBW 14 (c)	34.20	5	26.17	5	30.18	5	415	3	359	3	387	3
HD 2985 (c)	34.51	4	23.73	6	29.12	6	392	4	357	4	375	4
HD 2733 (c)	35.58	3	28.88	4	32.23	3	438	1	370	2	404	1
HI 1563 (c)	40.63	1	29.18	3	34.91	1	416	2	371	1	394	2
NW 2036 (c)	33.48	6	29.63	2	31.56	4	332	6	323	6	328	6
Raj 4250	37.00	2	29.72	1	33.36	2	369	5	332	5	351	5
Mean	35.90		27.88		31.89		394		352		373	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	**	0.36	2.19	4.79			N.S.	10.21	62.16	11.62		
Variety (B)	**	0.49	1.46	3.79			**	10.52	31.04	6.91		
B within A	**	0.70	2.06				N.S.	14.88	43.90			
A within B		0.73	2.16					17.00	50.14			
Grains/earhead					1000 Grains weight, g							
DBW 14 (c)	23.11	5	26.16	6	24.63	6	36.29	3	28.08	2	32.18	2
HD 2985 (c)	29.17	2	28.00	4	28.59	3	30.18	5	23.85	6	27.02	6
HD 2733 (c)	22.15	6	29.38	3	25.76	5	36.79	2	26.83	3	31.81	3
HI 1563 (c)	27.86	3	31.74	2	29.80	2	35.34	4	25.03	4	30.19	4
NW 2036 (c)	33.62	1	37.02	1	35.32	1	30.11	6	24.97	5	27.54	5
Raj 4250	25.67	4	27.45	5	26.56	4	39.16	1	32.62	1	35.89	1
Mean	26.93		29.96		28.44		34.64		26.90		30.77	
	F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Sowing (A)	N.S.	0.63	3.86	9.46			*	0.66	3.99	9.05		
Variety (B)	**	1.21	3.58	10.45			**	0.74	2.19	5.92		
B within A	N.S.	1.72	5.06				N.S.	1.05	3.10			
A within B		1.69	4.98					1.16	3.43			
Date of Sowing:	15.12.2012		07.01.2013		Date of Harvesting:		27.04.2013		--			

Table 3.3.1 North Eastern Plains Zone		RF-TAS-LON		Burdwan 2012-13												
Variety	Nitrogen level, kg/ha				Nitrogen level, kg/ha											
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	17.35	4	20.92	3	20.24	4	19.50	4	233	4	247	3	254	3	245	3
WH 1127	20.92	1	23.30	1	22.96	1	22.39	1	242	2	253	2	257	2	251	2
K 8027 (c)	18.37	3	20.07	4	20.75	3	19.73	3	237	3	243	4	245	4	242	4
C 306 (c)	19.39	2	21.60	2	21.09	2	20.69	2	248	1	256	1	261	1	255	1
MEAN	19.01		21.47		21.26		20.58		240		250		254		248	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.13		0.51		2.20		*		1.92		7.52		2.68	
Variety (B)	**		0.15		0.44		2.16		**		2.50		7.43		3.03	
B within A	*		0.26		0.76				N.S.		4.33		12.87			
A within B			0.26		0.77						4.21		12.52			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	17.86	4	19.66	3	18.17	4	18.56	4	41.67	2	43.17	1	43.83	1	42.89	1
WH 1127	21.30	1	21.65	1	21.63	1	21.53	1	40.67	4	42.50	3	41.33	4	41.50	4
K 8027 (c)	18.20	3	19.21	4	19.67	2	19.03	3	42.67	1	43.00	2	43.00	2	42.89	1
C 306 (c)	19.06	2	20.13	2	19.18	3	19.46	2	41.00	3	42.00	4	42.17	3	41.72	3
MEAN	19.11		20.16		19.66		19.64		41.50		42.67		42.58		42.25	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.25		0.98		4.42		**		0.11		0.42		0.87	
Variety (B)	**		0.23		0.68		3.52		**		0.24		0.71		1.70	
B within A	N.S.		0.40		1.18				N.S.		0.42		1.24			
A within B			0.43		1.27						0.38		1.12			
Date of Sowing:	12.11.2012				Date of Harvesting:				18.03.2013							

Table 3.3.2 North Eastern Plains Zone		RF-TAS-LON		Coochbehar 2012-13												
Variety	Nitrogen level, kg/ha				Nitrogen level, kg/ha											
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	20.31	3	29.24	3	30.68	3	26.74	3	193	3	215	3	224	3	211	3
WH 1127	20.74	2	32.36	1	34.50	2	29.20	1	200	2	221	2	235	1	219	2
K 8027 (c)	18.64	4	23.16	4	25.64	4	22.48	4	183	4	198	4	212	4	198	4
C 306 (c)	20.92	1	31.23	2	34.87	1	29.00	2	215	1	225	1	229	2	223	1
MEAN	20.15		29.00		31.42		26.86		198		215		225		213	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.29		1.16		3.80		N.S.		12.03		47.24		19.61	
Variety (B)	**		0.42		1.25		4.70		N.S.		7.62		22.63		10.75	
B within A	**		0.73		2.17				N.S.		13.19		39.19			
A within B			0.70		2.07						16.59		49.30			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	27.86	2	34.77	2	35.27	1	32.63	1	39.26	3	39.43	4	39.35	4	39.35	3
WH 1127	25.61	3	35.42	1	34.70	2	31.91	2	40.60	2	41.96	2	42.37	2	41.64	2
K 8027 (c)	28.30	1	30.05	4	30.23	4	29.53	3	37.50	4	39.83	3	40.31	3	39.21	4
C 306 (c)	21.92	4	31.24	3	32.71	3	28.62	4	44.43	1	45.12	1	46.74	1	45.43	1
MEAN	25.92		32.87		33.23		30.67		40.45		41.58		42.19		41.41	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		2.42		9.50		27.33		N.S.		0.49		1.91		4.06	
Variety (B)	N.S.		1.22		3.62		11.91		**		0.49		1.46		3.56	
B within A	N.S.		2.11		6.27				N.S.		0.85		2.53			
A within B			3.03		9.01						0.88		2.62			
Date of Sowing:	12.11.2012				Date of Harvesting:				01.04.2013							

Table 3.3.3 North Eastern Plains Zone		RF-TAS-LON		Faizabad 2012-13												
Variety	Nitrogen level, kg/ha				Nitrogen level, kg/ha											
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	26.62	2	31.97	1	35.12	2	31.24	2	314	1	323	1	339	1	325	1
WH 1127	27.89	1	31.21	2	36.40	1	31.83	1	272	2	308	2	316	2	298	2
K 8027 (c)	25.34	3	29.85	4	34.78	3	29.99	3	267	3	278	3	305	4	283	3
C 306 (c)	23.98	4	30.36	3	31.29	4	28.54	4	264	4	273	4	308	3	282	4
MEAN	25.96		30.85		34.40		30.40		279		295		317		297	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.65		2.55		7.41		*		6.72		26.38		7.83	
Variety (B)	**		0.52		1.55		5.16		**		6.13		18.21		6.19	
B within A	N.S.		0.91		2.69				N.S.		10.61		31.53			
A within B			1.02		3.03						11.38		33.83			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	24.27	4	26.52	4	27.18	4	25.99	4	35.03	2	37.69	2	38.27	3	37.00	2
WH 1127	27.22	3	26.78	3	29.43	1	27.81	3	38.06	1	37.98	1	39.29	1	38.44	1
K 8027 (c)	28.43	1	30.07	2	29.38	2	29.29	1	33.49	3	35.78	3	38.81	2	36.03	3
C 306 (c)	27.54	2	31.88	1	27.97	3	29.13	2	33.04	4	34.92	4	36.38	4	34.78	4
MEAN	26.86		28.82		28.49		28.06		34.91		36.59		38.19		36.56	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.69		2.70		8.49		*		0.57		2.22		5.35	
Variety (B)	*		0.76		2.25		8.11		**		0.57		1.68		4.64	
B within A	N.S.		1.31		3.90				N.S.		0.98		2.91			
A within B			1.33		3.95						1.02		3.03			
Date of Sowing:	10.11.2012				Date of Harvesting:				23.4.2013							

Table 3.3.4 North Eastern Plains Zone		RF-TAS-LON		IARI, PUSA 2012-13												
Variety	Nitrogen level, kg/ha				Nitrogen level, kg/ha											
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	27.83	4	30.76	3	30.23	4	29.61	4	287	2	280	1	287	1	284	1
WH 1127	39.91	1	39.61	1	38.35	1	39.29	1	272	3	270	2	273	2	272	2
K 8027 (c)	29.33	3	29.42	4	32.87	2	30.54	3	247	4	251	3	246	4	248	4
C 306 (c)	30.35	2	31.74	2	31.43	3	31.17	2	298	1	233	4	255	3	262	3
MEAN	31.85		32.88		33.22		32.65		276		258		265		266	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.79		3.10		8.38		N.S.		13.17		51.70		17.12	
Variety (B)	**		0.80		2.39		7.40		N.S.		8.99		26.70		10.12	
B within A	N.S.		1.39		4.14				N.S.		15.57		46.25			
A within B			1.44		4.29						18.84		55.99			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	27.94	4	26.42	4	25.08	4	26.48	4	35.16	4	42.18	2	44.19	3	40.51	4
WH 1127	36.56	1	35.25	1	33.85	1	35.22	1	40.59	1	42.46	1	42.28	4	41.78	1
K 8027 (c)	34.08	2	30.15	3	30.21	2	31.48	2	36.18	3	40.23	4	45.45	2	40.62	3
C 306 (c)	30.17	3	32.83	2	27.42	3	30.14	3	36.38	2	41.53	3	45.51	1	41.14	2
MEAN	32.19		31.16		29.14		30.83		37.08		41.60		44.36		41.01	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		2.97		11.65		33.34		N.S.		2.20		8.64		18.59	
Variety (B)	*		1.71		5.09		16.68		N.S.		1.42		4.21		10.37	
B within A	N.S.		2.97		8.82				N.S.		2.46		7.30			
A within B			3.93		11.67						3.06		9.10			
Date of Sowing:	10.11.2012				Date of Harvesting:				3.4.2013							

Table 3.3.5 North Eastern Plains Zone RF-TAS-LON								Kanpur 2012-13								
Variety	Nitrogen level, kg/ha							Nitrogen level, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	23.51	2	27.60	2	29.56	2	26.89	2	332	2	335	2	338	2	335	2
WH 1127	25.40	1	28.17	1	32.50	1	28.69	1	336	1	337	1	340	1	338	1
K 8027 (c)	21.30	4	23.65	4	27.18	4	24.04	4	326	4	327	4	328	4	327	4
C 306 (c)	22.50	3	25.62	3	28.10	3	25.41	3	328	3	330	3	331	3	330	3
MEAN	23.18		26.26		29.34		26.26		331		332		334		332	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.29		1.14		3.83		N.S.		1.49		5.85		1.55	
Variety (B)	**		0.63		1.88		7.24		*		2.23		6.63		2.01	
B within A	N.S.		1.10		3.26				N.S.		3.86		11.48			
A within B			0.99		2.95						3.66		10.88			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	18.36	1	20.61	1	22.33	3	20.43	2	38.60	4	40.10	4	39.20	2	39.30	3
WH 1127	18.30	2	20.02	2	24.64	1	20.99	1	41.40	1	41.70	2	38.80	3	40.63	2
K 8027 (c)	16.08	4	17.26	4	19.81	4	17.72	4	40.73	2	41.93	1	41.80	1	41.49	1
C 306 (c)	17.64	3	19.05	3	22.94	2	19.88	3	38.93	3	40.73	3	37.00	4	38.89	4
MEAN	17.60		19.24		22.43		19.75		39.92		41.12		39.20		40.08	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.18		0.69		3.10		*		0.32		1.24		2.74	
Variety (B)	**		0.56		1.65		8.45		**		0.32		0.94		2.38	
B within A	N.S.		0.96		2.86				*		0.55		1.63			
A within B			0.85		2.54						0.57		1.70			
Date of Sowing:	10.11.2012							Date of Harvesting:	16.04.2013							

Table 3.3.6 North Eastern Plains Zone RF-TAS-LON								Kalyani 2012-13								
Variety	Nitrogen level, kg/ha							Nitrogen level, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	17.47	3	20.07	2	23.07	2	20.20	2	191	2	222	2	238	2	217	2
WH 1127	19.13	1	20.77	1	23.57	1	21.16	1	211	1	232	1	251	1	231	1
K 8027 (c)	17.27	4	19.13	4	21.23	4	19.21	4	168	4	195	4	211	4	191	4
C 306 (c)	17.97	2	19.83	3	21.47	3	19.76	3	185	3	206	3	229	3	207	3
MEAN	17.96		19.95		22.33		20.08		189		214		232		212	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.73		2.86		12.57		**		2.94		11.55		4.82	
Variety (B)	N.S.		0.83		2.47		12.44		**		5.82		17.29		8.25	
B within A	N.S.		1.44		4.29				N.S.		10.08		29.95			
A within B			1.45		4.30						9.21		27.37			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	22.07	3	21.27	3	22.45	2	21.93	3	41.67	4	43.00	4	43.67	4	42.78	4
WH 1127	20.69	4	20.30	4	21.15	4	20.72	4	44.00	1	44.33	1	45.33	1	44.56	1
K 8027 (c)	24.39	1	23.33	1	23.14	1	23.62	1	42.33	3	43.33	3	44.33	2	43.33	3
C 306 (c)	22.54	2	21.99	2	21.36	3	21.96	2	43.00	2	43.67	2	44.00	3	43.56	2
MEAN	22.43		21.72		22.03		22.06		42.75		43.58		44.33		43.56	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.74		2.91		11.62		N.S.		0.55		2.14		4.34	
Variety (B)	N.S.		1.54		4.56		20.88		N.S.		1.02		3.04		7.06	
B within A	N.S.		2.66		7.90				N.S.		1.77		5.27			
A within B			2.42		7.19						1.63		4.84			
Date of Sowing:	15.11.2012							Date of Harvesting:	23.03.2013							

Table 3.3.7 North Eastern Plains Zone RF-TAS-LON								RAU, PUSA 2012-13								
Variety	Nitrogen level, kg/ha							Nitrogen level, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	29.75	1	32.68	1	35.55	1	32.66	1	245	1	256	1	263	1	255	1
WH 1127	28.26	3	30.35	3	33.36	3	30.66	3	226	3	244	3	251	3	240	3
K 8027 (c)	28.85	2	31.10	2	34.32	2	31.42	2	230	2	249	2	255	2	245	2
C 306 (c)	27.38	4	29.55	4	32.65	4	29.86	4	205	4	215	4	224	4	215	4
MEAN	28.56		30.92		33.97		31.15		227		241		248		239	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.82		3.20		9.07		**		0.73		2.85		1.05	
Variety (B)	N.S.		1.06		3.16		10.23		**		1.51		4.49		1.90	
B within A	N.S.		1.84		5.47				N.S.		2.62		7.77			
A within B			1.79		5.32						2.38		7.07			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	31.96	4	31.44	3	31.29	4	31.56	4	38.35	1	40.65	1	43.25	1	40.75	1
WH 1127	33.67	2	31.62	2	31.75	3	32.34	2	37.15	3	39.35	3	41.85	3	39.45	3
K 8027 (c)	33.53	3	31.43	4	31.96	2	32.30	3	37.65	2	39.78	2	42.10	2	39.84	2
C 306 (c)	36.75	1	36.60	1	36.73	1	36.69	1	36.28	4	37.55	4	39.65	4	37.83	4
MEAN	33.98		32.77		32.93		33.23		37.36		39.33		41.71		39.47	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.83		3.27		8.68		*		0.71		2.80		6.26	
Variety (B)	*		1.24		3.69		11.22		**		0.34		1.01		2.57	
B within A	N.S.		2.15		6.40				N.S.		0.59		1.74			
A within B			2.04		6.07						0.88		2.60			
Date of Sowing:	27.11.2012							Date of Harvesting:	05.04.2013							

Table 3.3.8 North Eastern Plains Zone RF-TAS-LON								Ranchi 2012-13								
Variety	Nitrogen level, kg/ha							Nitrogen level, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	24.99	2	29.73	2	32.91	3	29.21	3	258	2	264	3	290	3	271	3
WH 1127	24.54	4	28.79	4	35.53	1	29.62	2	253	3	280	2	331	1	288	2
K 8027 (c)	24.62	3	34.31	1	35.21	2	31.38	1	248	4	326	1	319	2	298	1
C 306 (c)	26.21	1	29.26	3	26.31	4	27.26	4	267	1	263	4	244	4	258	4
MEAN	25.09		30.52		32.49		29.37		257		283		296		279	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		1.78		6.99		21.00		N.S.		16.37		64.25		20.34	
Variety (B)	N.S.		1.08		3.21		11.03		N.S.		10.65		31.63		11.46	
B within A	N.S.		1.87		5.56				N.S.		18.44		54.79			
A within B			2.41		7.15						22.87		67.94			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	27.32	1	29.44	1	28.80	1	28.52	1	35.38	4	38.50	3	39.55	3	37.81	3
WH 1127	26.82	2	29.11	2	26.82	4	27.59	2	36.24	3	35.21	4	39.87	2	37.11	4
K 8027 (c)	25.51	4	26.12	4	27.34	3	26.32	4	38.82	1	40.25	1	40.52	1	39.86	1
C 306 (c)	25.77	3	28.09	3	28.44	2	27.43	3	38.02	2	39.81	2	38.08	4	38.64	2
MEAN	26.36		28.19		27.85		27.47		37.11		38.44		39.51		38.35	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.36		1.42		4.56		**		0.23		0.89		2.05	
Variety (B)	N.S.		0.57		1.70		6.25		**		0.33		0.99		2.61	
B within A	N.S.		0.99		2.95				**		0.58		1.72			
A within B			0.93		2.77						0.55		1.63			
Date of Sowing:	15.11.2012							Date of Harvesting:	04.04.2013							

Table 3.3.9 North Eastern Plains Zone		RF-TAS-LON		Sabour 2012-13												
Variety	Nitrogen level, kg/ha				Nitrogen level, kg/ha											
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	22.77	3	27.51	3	30.10	3	26.79	3	195	3	198	3	208	3	200	3
WH 1127	22.18	4	26.92	4	29.58	4	26.23	4	190	4	193	4	200	4	194	4
K 8027 (c)	23.96	2	31.65	2	30.76	2	28.79	2	199	2	205	2	212	2	205	2
C 306 (c)	25.85	1	32.53	1	32.83	1	30.40	1	209	1	217	1	222	1	216	1
MEAN	23.69		29.65		30.82		28.05		198		203		211		204	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.65		2.56		8.04		*		1.68		6.59		2.85	
Variety (B)	*		0.94		2.81		10.10		**		2.69		7.98		3.95	
B within A	N.S.		1.64		4.86				N.S.		4.65		13.82			
A within B			1.56		4.63						4.36		12.96			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	30.67	2	33.84	4	35.24	2	33.25	4	38.00	4	41.00	2	41.00	3	40.00	3
WH 1127	30.17	4	34.79	3	36.95	1	33.97	2	38.67	3	40.00	4	40.00	4	39.56	4
K 8027 (c)	30.58	3	37.57	1	35.05	4	34.40	1	39.33	2	41.00	2	41.33	2	40.56	2
C 306 (c)	30.87	1	35.63	2	35.14	3	33.88	3	40.00	1	42.00	1	42.00	1	41.33	1
MEAN	30.57		35.46		35.60		33.87		39.00		41.00		41.08		40.36	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.57		2.22		5.78		**		0.22		0.86		1.87	
Variety (B)	N.S.		0.54		1.59		4.75		*		0.43		1.26		3.16	
B within A	N.S.		0.93		2.76				N.S.		0.74		2.19			
A within B			0.98		2.92						0.67		2.00			
Date of Sowing:	10.11.2012				Date of Harvesting:				06.04.2013							

Table 3.3.10 North Eastern Plains Zone		RF-TAS-LON		Shillongani 2012-13												
Variety	Nitrogen level, kg/ha				Nitrogen level, kg/ha											
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	17.70	1	18.53	1	19.57	1	18.60	1	151	1	159	1	162	1	157	1
WH 1127	17.57	2	18.30	2	19.00	2	18.29	2	129	3	138	3	145	4	137	3
K 8027 (c)	16.43	3	17.70	3	18.90	3	17.68	3	132	2	147	2	153	2	144	2
C 306 (c)	15.20	4	16.10	4	17.17	4	16.16	4	127	4	135	4	147	3	136	4
MEAN	16.73		17.66		18.66		17.68		135		145		152		144	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.06		0.25		1.25		**		1.12		4.41		2.71	
Variety (B)	**		0.31		0.91		5.22		**		1.78		5.29		3.72	
B within A	N.S.		0.53		1.58				N.S.		3.08		9.17			
A within B			0.47		1.38						2.90		8.61			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	27.89	4	27.08	3	26.60	3	27.19	3	42.13	4	43.00	4	45.47	4	43.53	4
WH 1127	28.88	2	27.50	2	26.86	1	27.75	1	47.47	1	48.20	1	48.93	2	48.20	1
K 8027 (c)	29.29	1	26.67	4	26.73	2	27.57	2	42.60	2	45.23	2	46.07	3	44.63	3
C 306 (c)	28.40	3	27.64	1	22.82	4	26.29	4	42.50	3	43.50	3	51.37	1	45.79	2
MEAN	28.62		27.22		25.75		27.20		43.68		44.98		47.96		45.54	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.27		1.07		3.47		**		0.24		0.96		1.85	
Variety (B)	N.S.		0.64		1.91		7.11		**		0.62		1.83		4.06	
B within A	N.S.		1.12		3.32				*		1.07		3.17			
A within B			1.00		2.98						0.96		2.84			
Date of Sowing:	21.11.2012				Date of Harvesting:				20.03.2013							

Table 3.3.11 North Eastern Plains Zone								RF-TAS-LON				Varanasi 2012-13				
Variety	Nitrogen level, kg/ha							Nitrogen level, kg/ha								
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha								Earheads/sq.m.								
HD 2888 (c)	21.30	3	22.94	4	25.69	3	23.31	3	196	2	210	4	184	4	197	4
WH 1127	21.60	2	22.96	3	26.52	1	23.69	2	194	3	214	2	246	1	218	1
K 8027 (c)	20.87	4	23.46	2	25.48	4	23.27	4	199	1	227	1	215	3	214	2
C 306 (c)	22.07	1	24.20	1	26.18	2	24.15	1	193	4	211	3	233	2	212	3
MEAN	21.46		23.39		25.97		23.61		196		215		219		210	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.36		1.40		5.23		N.S.		8.53		33.48		14.06	
Variety (B)	N.S.		0.31		0.91		3.89		N.S.		7.81		23.22		11.16	
B within A	N.S.		0.53		1.58				N.S.		13.53		40.21			
A within B			0.58		1.73						14.50		43.07			
Grains/Earhead								1000 Grains weight, g								
HD 2888 (c)	26.69	2	26.57	2	34.04	1	29.10	1	40.80	3	41.21	4	42.97	4	41.66	4
WH 1127	25.45	3	24.46	3	24.66	4	24.86	4	43.93	1	44.43	1	44.40	3	44.26	1
K 8027 (c)	24.75	4	23.78	4	26.12	2	24.89	3	42.33	2	44.33	2	45.45	1	44.04	2
C 306 (c)	28.88	1	27.22	1	25.04	3	27.05	2	39.60	4	42.20	3	44.93	2	42.24	3
MEAN	26.44		25.51		27.47		26.47		41.67		43.04		44.44		43.05	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		1.27		4.97		16.57		**		0.18		0.71		1.46	
Variety (B)	*		1.07		3.19		12.15		**		0.25		0.73		1.71	
B within A	N.S.		1.86		5.52				**		0.43		1.26			
A within B			2.05		6.08						0.41		1.22			
Date of Sowing:	--							Date of Harvesting:	--							

Table 4.1.1. Central Zone		IR-TS-TAD-DOS					Bilaspur				2012-13	
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Rk	Late			Rk	Timely	Rk			Late	Rk
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	37.67	7	32.38	6	35.03	7	236	8	146	8	191	8
MPO 1215(dc)	42.03	4	30.62	7	36.33	6	292	3	171	6	232	4
HI 8725(d)	40.40	5	35.81	3	38.10	4	276	6	185	3	231	6
HI 8724(d)	43.15	2	38.40	2	40.78	2	327	1	215	2	271	2
HI 8727(d)	42.52	3	35.15	4	38.84	3	288	4	184	4	236	3
HI 8498(dc)	35.31	8	30.00	8	32.65	8	266	7	168	7	217	7
GW 322(c)	39.87	6	34.20	5	37.04	5	286	5	177	5	231	5
HI 1544 (c)	45.39	1	40.92	1	43.15	1	322	2	226	1	274	1
Mean	40.79		34.68		37.74		287		184		235	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)		F. Test	S.E.m	C.D.	C.V.(%)		
Variety (B)		*	0.54	3.27	6.98		**	3.84	23.37	8.00		
B within A		**	0.96	2.78	6.24		**	7.10	20.56	7.39		
A within B		N.S.	1.36	3.94			N.S.	10.04	29.08			
			1.38	4.00				10.15	29.39			
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	38.45	1	52.97	1	45.71	1	41.43	8	42.08	6	41.76	7
MPO 1215(dc)	30.70	4	46.76	3	38.73	3	47.30	5	38.67	7	42.99	6
HI 8725(d)	31.73	2	39.28	6	35.51	4	46.51	6	49.28	3	47.90	5
HI 8724(d)	24.27	6	35.38	7	29.83	7	55.03	3	51.42	2	53.23	2
HI 8727(d)	29.56	5	41.06	5	35.31	5	50.11	4	46.63	4	48.37	4
HI 8498(dc)	30.72	3	48.89	2	39.81	2	43.98	7	36.79	8	40.39	8
GW 322(c)	24.14	7	44.62	4	34.38	6	58.27	2	43.90	5	51.09	3
HI 1544 (c)	22.88	8	32.32	8	27.60	8	61.60	1	56.27	1	58.94	1
Mean	29.06		42.66		35.86		50.53		45.63		48.08	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)		F. Test	S.E.m	C.D.	C.V.(%)		
Variety (B)		**	0.15	0.92	2.07		*	0.66	3.99	6.68		
B within A		**	1.78	5.15	12.15		**	1.10	3.18	5.59		
A within B		N.S.	2.52	7.29			**	1.55	4.49			
			2.36	6.83				1.59	4.61			
Date of sowing	09.11.2012			06.12.2012			Date of harvesting 15.3.2013			7.4.2013		

Table 4.1.2. Central Zone		IR-TS-TAD-DOS					Gwalior				2012-13	
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Rk	Late			Rk	Timely	Rk			Late	Rk
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	70.97	2	57.75	3	64.36	2	471	2	432	2	452	2
MPO 1215(dc)	69.95	3	54.72	4	62.34	4	439	6	373	5	406	4
HI 8725(d)	72.87	1	62.00	1	67.44	1	474	1	455	1	465	1
HI 8724(d)	62.42	6	52.92	6	57.67	6	441	5	361	6	401	5
HI 8727(d)	65.26	5	51.51	8	58.39	5	444	3	350	7	397	6
HI 8498(dc)	66.93	4	59.52	2	63.22	3	444	3	402	3	423	3
GW 322(c)	54.72	8	52.93	5	53.83	8	324	8	349	8	337	8
HI 1544 (c)	58.08	7	52.00	7	55.04	7	367	7	384	4	376	7
Mean	65.15		55.42		60.28		426		388		407	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)		F. Test	S.E.m	C.D.	C.V.(%)		
Variety (B)		**	0.39	2.35	3.13		*	2.84	17.26	3.41		
B within A		**	0.78	2.26	3.16		**	6.25	18.09	3.76		
A within B		**	1.10	3.19			**	8.83	25.59			
			1.10	3.19				8.74	25.31			
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	38.88	3	45.64	4	42.26	3	38.81	6	29.32	6	34.06	6
MPO 1215(dc)	32.72	6	42.23	6	37.47	7	48.73	2	35.03	3	41.88	2
HI 8725(d)	32.80	5	42.39	5	37.59	6	46.90	3	32.23	4	39.57	3
HI 8724(d)	31.76	7	46.23	3	38.99	4	44.59	4	31.77	5	38.18	5
HI 8727(d)	35.25	4	40.89	7	38.07	5	41.71	5	36.10	2	38.90	4
HI 8498(dc)	28.22	8	38.33	8	33.27	8	53.57	1	38.69	1	46.13	1
GW 322(c)	44.64	1	56.42	1	50.53	1	37.84	8	26.89	8	32.37	8
HI 1544 (c)	41.25	2	46.70	2	43.98	2	38.56	7	29.05	7	33.81	7
Mean	35.69		44.85		40.27		43.84		32.38		38.11	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)		F. Test	S.E.m	C.D.	C.V.(%)		
Variety (B)		**	0.36	2.17	4.33		**	0.08	0.47	1.00		
B within A		**	1.22	3.54	7.44		**	0.60	1.74	3.85		
A within B		N.S.	1.73	5.01			**	0.85	2.45			
			1.66	4.80				0.80	2.31			
Date of sowing	11.11.2012			6.12.2012			Date of harvesting 12.4.2013			17.4.2013		

Table 4.1.3. Central Zone		IR-TS-TAD-DOS					Indore				2012-13	
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Rk	Late			Rk	Timely	Rk			Late	Rk
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	61.17	1	51.03	3	56.10	1	376	3	337	7	356	5
MPO 1215(dc)	57.13	2	51.17	2	54.15	2	362	4	346	5	354	6
HI 8725(d)	53.13	6	52.30	1	52.72	5	346	6	283	8	314	8
HI 8724(d)	57.03	3	50.33	5	53.68	3	360	5	371	4	365	2
HI 8727(d)	56.17	4	49.43	6	52.80	4	390	1	338	6	364	3
HI 8498(dc)	48.37	8	47.47	7	47.92	8	296	8	374	3	335	7
GW 322(c)	53.93	5	47.10	8	50.52	7	334	7	393	1	364	3
HI 1544 (c)	53.13	6	51.00	4	52.07	6	378	2	378	2	378	1
Mean	55.01		49.98		52.49		355		352		354	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		*	0.40	2.43	3.73			N.S.	1.71	10.43	2.37	
B within A		**	0.95	2.75	4.42			**	7.63	22.09	5.28	
A within B		*	1.34	3.88				**	10.79	31.24		
			1.32	3.81					10.23	29.64		
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	34.65	2	35.80	2	35.23	1	47.01	6	42.40	7	44.70	6
MPO 1215(dc)	28.69	7	27.32	7	28.01	7	55.09	3	54.17	1	54.63	1
HI 8725(d)	27.48	8	37.73	1	32.61	3	55.97	1	49.29	3	52.63	3
HI 8724(d)	32.65	3	30.38	4	31.52	4	48.56	5	44.93	5	46.75	5
HI 8727(d)	29.68	6	30.30	5	29.99	6	48.64	4	48.58	4	48.61	4
HI 8498(dc)	29.73	5	23.56	8	26.64	8	55.38	2	53.88	2	54.63	2
GW 322(c)	36.02	1	30.11	6	33.06	2	44.85	7	39.79	8	42.32	8
HI 1544 (c)	32.35	4	30.41	3	31.38	5	43.67	8	44.55	6	44.11	7
Mean	31.41		30.70		31.05		49.89		47.20		48.55	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		N.S.	0.30	1.84	4.76			**	0.19	1.16	1.93	
B within A		**	1.08	3.12	8.49			**	0.36	1.05	1.83	
A within B		**	1.52	4.41				**	0.51	1.49		
			1.46	4.22					0.52	1.50		
Date of sowing	10.11.2012		07.12.2012			Date of harvesting 4.4.2013						

Table 4.1.4. Central Zone		IR-TS-TAD-DOS					Junagarh				2012-13	
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Rk	Late			Rk	Timely	Rk			Late	Rk
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	27.28	4	23.50	5	25.39	4	275	4	295	4	285	3
MPO 1215(dc)	23.76	5	22.21	7	22.98	6	294	3	233	7	264	5
HI 8725(d)	21.17	8	21.80	8	21.48	8	233	8	248	6	240	7
HI 8724(d)	29.05	3	25.50	2	27.28	2	261	5	297	3	279	4
HI 8727(d)	29.08	2	23.88	3	26.48	3	260	6	249	5	254	6
HI 8498(dc)	22.82	6	22.28	6	22.55	7	247	7	199	8	223	8
GW 322(c)	29.69	1	31.19	1	30.44	1	317	2	353	1	335	1
HI 1544 (c)	22.55	7	23.71	4	23.13	5	329	1	317	2	323	2
Mean	25.68		24.26		24.97		277		274		275	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		N.S.	0.25	1.51	4.88			N.S.	4.45	27.11	7.93	
B within A		**	0.94	2.72	9.22			**	5.65	16.37	5.03	
A within B		N.S.	1.33	3.85				**	8.00	23.16		
			1.27	3.67					8.71	25.21		
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	28.05	1	21.21	5	24.63	1	35.37	8	37.67	7	36.52	8
MPO 1215(dc)	17.75	7	22.16	4	19.96	6	45.37	3	43.13	3	44.25	3
HI 8725(d)	19.69	5	19.92	7	19.81	7	46.17	2	44.13	2	45.15	1
HI 8724(d)	26.21	3	22.76	3	24.48	2	42.53	4	37.70	6	40.12	6
HI 8727(d)	27.72	2	20.76	6	24.24	3	40.40	6	46.20	1	43.30	4
HI 8498(dc)	19.39	6	26.53	1	22.96	5	47.57	1	42.37	4	44.97	2
GW 322(c)	23.91	4	24.42	2	24.16	4	39.17	7	36.30	8	37.73	7
HI 1544 (c)	16.73	8	18.73	8	17.73	8	40.93	5	39.93	5	40.43	5
Mean	22.43		22.06		22.25		42.19		40.93		41.56	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		N.S.	0.39	2.38	8.61			N.S.	0.27	1.62	3.14	
B within A		**	0.71	2.07	7.86			**	0.54	1.55	3.16	
A within B		**	1.01	2.92				**	0.76	2.20		
			1.02	2.96					0.76	2.19		
Date of sowing	7.11.2012		5.12.2012			Date of harvesting 26.2.2013				20.3.2013		

Table 4.1.5. Central Zone		IR-TS-TAD-DOS					Kota				2012-13	
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Late	Rk			Timely	Late	Rk				
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	64.80	1	52.05	2	58.42	1	314	5	262	6	288	4
MPO 1215(dc)	52.58	4	41.32	8	46.95	6	261	8	307	2	284	6
HI 8725(d)	53.67	3	51.72	3	52.70	3	289	6	226	7	258	8
HI 8724(d)	59.17	2	54.97	1	57.07	2	409	1	280	3	344	2
HI 8727(d)	51.79	5	49.43	4	50.61	4	336	4	266	5	301	3
HI 8498(dc)	51.56	6	45.96	5	48.76	5	266	7	269	4	267	7
GW 322(c)	44.64	8	43.37	7	44.01	8	398	2	358	1	378	1
HI 1544 (c)	46.64	7	45.39	6	46.02	7	354	3	219	8	287	5
Mean	53.11		48.03		50.57		329		273		301	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		**	0.54	3.27	5.21			**	2.62	15.93	4.26	
B within A		**	0.49	1.43	2.40			**	6.34	18.37	5.16	
A within B		**	0.70	2.03				**	8.97	25.98		
			0.85	2.45					8.79	25.46		
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	51.29	1	46.81	3	49.05	1	40.20	7	42.40	5	41.30	7
MPO 1215(dc)	41.41	2	29.57	8	35.49	6	48.60	3	45.47	4	47.03	4
HI 8725(d)	38.22	4	47.90	2	43.06	2	48.53	4	47.80	2	48.17	3
HI 8724(d)	34.03	5	46.74	4	40.38	4	42.53	6	42.07	6	42.30	5
HI 8727(d)	30.39	7	39.77	5	35.08	7	50.67	1	46.73	3	48.70	2
HI 8498(dc)	38.42	3	36.57	6	37.50	5	50.53	2	48.00	1	49.27	1
GW 322(c)	31.04	6	32.44	7	31.74	8	36.27	8	37.40	8	36.83	8
HI 1544 (c)	29.44	8	52.29	1	40.86	3	44.80	5	39.60	7	42.20	6
Mean	36.78		41.51		39.15		45.27		43.68		44.48	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		*	0.57	3.47	7.14			N.S.	0.28	1.69	3.06	
B within A		**	0.82	2.37	5.12			**	0.35	1.03	1.95	
A within B		**	1.16	3.35				**	0.50	1.45		
			1.22	3.54					0.54	1.58		
Date of sowing:	11.11.2012			9.12.2012			Date of harvesting 19.4.2013			25.4.2013		

Table 4.1.6. Central Zone		IR-TS-TAD-DOS					Powarkheda				2012-13	
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Late	Rk			Timely	Late	Rk				
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	70.74	1	56.83	2	63.79	1	453	5	446	5	450	5
MPO 1215(dc)	59.83	7	45.23	7	52.53	7	535	1	523	1	529	1
HI 8725(d)	60.88	5	48.97	5	54.93	5	512	3	486	4	499	4
HI 8724(d)	70.16	2	54.42	3	62.29	2	531	2	513	3	522	2
HI 8727(d)	63.26	4	44.89	8	54.08	6	428	7	445	6	437	6
HI 8498(dc)	63.56	3	52.53	4	58.05	4	497	4	517	2	507	3
GW 322(c)	51.83	8	48.36	6	50.10	8	429	6	420	8	424	7
HI 1544 (c)	60.20	6	58.09	1	59.15	3	427	8	420	7	424	8
Mean	62.56		51.17		56.86		476		471		474	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		**	0.18	1.12	1.58			N.S.	6.50	39.57	6.72	
B within A		**	0.76	2.21	3.29			**	8.75	25.33	4.52	
A within B		**	1.08	3.13				N.S.	12.37	35.82		
			1.03	2.97					13.27	38.44		
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	38.24	1	36.24	2	37.24	1	40.83	7	35.23	8	38.03	7
MPO 1215(dc)	24.29	7	18.22	8	21.25	8	46.07	3	47.50	1	46.78	2
HI 8725(d)	27.95	5	22.40	7	25.18	6	42.53	6	45.03	2	43.78	5
HI 8724(d)	30.66	3	26.17	4	28.41	3	43.17	5	40.57	5	41.87	6
HI 8727(d)	28.96	4	27.23	3	28.09	4	51.10	2	37.53	7	44.32	4
HI 8498(dc)	23.23	8	24.18	6	23.70	7	55.10	1	42.17	4	48.63	1
GW 322(c)	26.59	6	25.85	5	26.22	5	45.50	4	44.57	3	45.03	3
HI 1544 (c)	37.62	2	36.80	1	37.21	2	37.53	8	37.57	6	37.55	8
Mean	29.69		27.14		28.41		45.23		41.27		43.25	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		N.S.	0.44	2.66	7.54			**	0.04	0.24	0.44	
B within A		**	0.66	1.90	5.66			**	0.28	0.80	1.57	
A within B		**	0.93	2.69				**	0.39	1.14		
			0.97	2.82					0.37	1.07		
Date of sowing:	23.11.2012			21.12.2012			Date of harvesting 14.4.2013			15.4.2013		

Table 4.1.7.		Central Zone					IR-TS-TAD-DOS		Sagar			2012-13	
Variety	Sowing time				Mean	Rk	xc	Sowing time			Mean	Rk	
	Timely	Rk	Late	Rk				Timely	Rk	Late			Rk
Yield, q/ha													
HI 8713(dl)	50.00	6	43.71	6	46.85	6		327	6	276	6	301	6
MPO 1215(dc)	49.32	7	42.52	7	45.92	7		322	7	268	7	295	7
HI 8725(d)	53.06	3	47.45	3	50.25	3		348	3	305	3	327	3
HI 8724(d)	51.70	4	46.26	4	48.98	4		344	4	299	4	322	4
HI 8727(d)	45.75	8	42.52	7	44.13	8		305	8	259	8	282	8
HI 8498(dc)	56.63	2	48.47	2	52.55	2		355	2	315	2	335	2
GW 322(c)	51.02	5	44.56	5	47.79	5		339	5	282	5	310	5
HI 1544 (c)	58.50	1	49.32	1	53.91	1		363	1	324	1	343	1
Mean	52.00		45.60		48.80			338		291		314	
Earhead/sq.m.													
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Variety (B)	**		0.42	2.58	4.25		**		3.13	19.06	4.88		
B within A	N.S.		1.86	5.38			N.S.		9.81	28.42			
A within B			1.79	5.18					9.70	28.09			
Grains/earhead													
HI 8713(dl)	34.75	1	39.79	1	37.27	1		44.03	8	39.79	8	41.91	8
MPO 1215(dc)	28.89	6	31.42	7	30.15	6		52.99	3	51.08	2	52.04	2
HI 8725(d)	28.06	8	31.74	6	29.90	7		54.36	2	49.17	3	51.77	3
HI 8724(d)	31.65	4	32.39	5	32.02	5		47.92	5	47.72	5	47.82	5
HI 8727(d)	31.02	5	34.27	3	32.65	4		48.55	4	48.08	4	48.32	4
HI 8498(dc)	28.62	7	29.62	8	29.12	8		55.93	1	52.05	1	53.99	1
GW 322(c)	32.06	3	34.32	2	33.19	3		47.33	6	46.24	6	46.79	6
HI 1544 (c)	34.23	2	33.25	4	33.74	2		47.00	7	45.95	7	46.48	7
Mean	31.16		33.35		32.26			49.76		47.51		48.64	
1000 Grains weight, g													
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Variety (B)	*		0.22	1.34	3.34		**		0.13	0.77	1.27		
B within A	N.S.		1.75	5.08			N.S.		2.00	5.79			
A within B			1.65	4.79					1.87	5.43			
Date of sowing	10.11.2012				6.12.2012		Date of harvesting 20.4.2013				22.4.2013		

Table 4.1.8.		Central Zone					IR-TS-TAD-DOS		Udaipur			2012-13	
Variety	Sowing time				Mean	Rk	xc	Sowing time			Mean	Rk	
	Timely	Rk	Late	Rk				Timely	Rk	Late			Rk
Yield, q/ha													
HI 8713(dl)	44.97	1	40.87	1	42.92	1		331	2	315	2	323	2
MPO 1215(dc)	39.85	4	36.94	4	38.40	4		280	6	277	6	278	6
HI 8725(d)	41.98	3	38.48	3	40.23	3		280	7	269	7	274	7
HI 8724(d)	42.43	2	38.94	2	40.69	2		349	1	330	1	340	1
HI 8727(d)	38.37	6	34.71	5	36.54	6		307	3	289	5	298	4
HI 8498(dc)	39.35	5	33.86	6	36.60	5		301	5	294	4	298	5
GW 322(c)	36.49	7	31.90	7	34.19	7		306	4	303	3	305	3
HI 1544 (c)	35.53	8	30.71	8	33.12	8		254	8	233	8	243	8
Mean	39.87		35.80		37.83			301		289		295	
Earhead/sq.m.													
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Variety (B)	N.S.		0.97	5.89	12.54		N.S.		4.38	26.64	7.27		
B within A	**		1.37	3.96	8.86		**		7.73	22.40	6.42		
A within B	N.S.		1.94	5.61			N.S.		10.94	31.67			
Grains/earhead													
HI 8713(dl)	25.16	7	25.71	6	25.43	7		54.07	1	50.46	1	52.26	1
MPO 1215(dc)	27.71	4	26.64	4	27.18	4		51.53	4	50.13	2	50.83	3
HI 8725(d)	27.82	3	29.22	1	28.52	2		53.96	2	49.30	4	51.63	2
HI 8724(d)	23.89	8	23.79	8	23.84	8		51.76	3	49.74	3	50.75	4
HI 8727(d)	26.71	6	27.49	3	27.10	5		46.76	6	43.83	6	45.30	6
HI 8498(dc)	29.74	1	26.63	5	28.19	3		44.08	7	43.07	8	43.57	7
GW 322(c)	27.14	5	24.40	7	25.77	6		43.90	8	43.20	7	43.55	8
HI 1544 (c)	29.08	2	28.57	2	28.82	1		48.12	5	46.11	5	47.12	5
Mean	27.16		26.56		26.86			49.27		46.98		48.13	
1000 Grains weight, g													
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)		
Variety (B)	N.S.		0.67	4.10	12.29		*		0.33	2.02	3.38		
B within A	N.S.		1.41	4.08			N.S.		0.81	2.35			
A within B			1.48	4.29					0.83	2.40			
Date of sowing	07.11.2012				3.12.2012		Date of harvesting 10.4.2013				13.4.2013		

Table 4.1.9. Central Zone		IR-TS-TAD-DOS					Vijapur				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk
	Timely	Rk	Late	Rk			Timely	Rk	Late	Rk		
Yield, q/ha						Earhead/sq.m.						
HI 8713(dl)	39.23	1	31.69	6	35.46	3	293	6	321	4	307	5
MPO 1215(dc)	39.04	2	33.59	3	36.31	2	306	3	322	3	314	3
HI 8725(d)	31.35	8	43.83	1	37.59	1	301	4	321	5	311	4
HI 8724(d)	35.58	4	33.51	4	34.55	4	289	8	317	6	303	7
HI 8727(d)	36.35	3	32.24	5	34.30	5	293	5	316	7	305	6
HI 8498(dc)	33.08	6	30.75	7	31.92	7	292	7	311	8	302	8
GW 322(c)	34.28	5	27.69	8	30.99	8	325	2	326	2	325	2
HI 1544 (c)	31.57	7	36.55	2	34.06	6	326	1	334	1	330	1
Mean	35.06		33.73		34.40		303		321		312	
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)	
Variety (B)	N.S.		0.44	2.70	6.33		N.S.		3.28	19.94	5.14	
B within A	**		0.94	2.72	6.68		**		4.81	13.94	3.78	
A within B	**		1.33	3.84			N.S.		6.81	19.71		
			1.32	3.82					7.16	20.74		
Grains/earhead						1000 Grains weight, g						
HI 8713(dl)	25.57	2	28.92	2	27.24	1	52.44	5	34.23	7	43.33	7
MPO 1215(dc)	26.69	1	22.79	6	24.74	3	48.08	7	45.81	3	46.95	5
HI 8725(d)	17.98	8	26.65	4	22.31	7	58.01	2	51.29	1	54.65	2
HI 8724(d)	24.50	3	24.29	5	24.39	4	50.45	6	43.84	5	47.15	4
HI 8727(d)	23.52	5	22.50	7	23.01	6	52.88	3	45.49	4	49.19	3
HI 8498(dc)	18.80	6	20.16	8	19.48	8	60.24	1	49.17	2	54.71	1
GW 322(c)	24.41	4	26.88	3	25.65	2	43.24	8	31.77	8	37.51	8
HI 1544 (c)	18.39	7	30.00	1	24.20	5	52.67	4	36.47	6	44.57	6
Mean	22.48		25.27		23.88		52.25		42.26		47.26	
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)	
Variety (B)	N.S.		0.52	3.17	10.69		**		0.39	2.38	4.06	
B within A	**		0.91	2.63	9.33		**		0.72	2.09	3.74	
A within B	**		1.29	3.72			**		1.02	2.96		
			1.31	3.80					1.03	2.99		
Date of sowing	8.11.2012			7.12.2012			Date of harvesting 11.3.2013			28.3.2013		

Table 4.2.1. Central Zone		IR-LS-TAS-DOS					Bilaspur				2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk
	Late	Rk	Very late	Rk			Late	Rk	Very late	Rk		
Yield, q/ha						Earhead/sq.m.						
RAJ 4238(l)	38.16	4	34.55	1	36.36	2	190	5	164	2	177	3
MP 3336(l)	38.86	3	33.78	2	36.32	3	197	4	170	1	184	1
MP 4010(c)	32.18	7	28.38	7	30.28	7	172	7	140	6	156	7
GW 322(c)	39.37	2	30.61	6	34.99	5	206	2	146	5	176	4
HD 2932(c)	38.01	5	33.52	3	35.76	4	203	3	162	3	183	2
HD 2864(c)	33.98	6	32.23	4	33.11	6	184	6	156	4	170	6
HD 3095	43.49	1	31.98	5	37.73	1	211	1	132	7	171	5
Mean	37.72		32.15		34.94		195		153		174	
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)	
Variety (B)	*		0.75	4.56	9.82		**		0.96	5.86	2.54	
B within A	**		0.93	2.72	6.53		**		2.96	8.63	4.17	
A within B	*		1.32	3.85			**		4.18	12.21		
			1.43	4.18					3.99	11.64		
Grains/earhead						1000 Grains weight, g						
RAJ 4238(l)	41.32	3	49.56	5	45.44	4	48.53	5	42.75	3	45.64	5
MP 3336(l)	38.09	4	46.46	7	42.28	6	51.87	4	43.39	2	47.63	2
MP 4010(c)	46.88	1	54.32	2	50.60	2	40.29	7	37.70	6	39.00	7
GW 322(c)	34.51	7	53.32	3	43.92	5	55.64	2	39.57	5	47.61	3
HD 2932(c)	34.87	6	47.59	6	41.23	7	53.75	3	44.05	1	48.90	1
HD 2864(c)	44.83	2	49.63	4	47.23	3	41.32	6	41.77	4	41.55	6
HD 3095	36.69	5	67.90	1	52.30	1	56.43	1	35.90	7	46.17	4
Mean	39.60		52.68		46.14		49.69		40.73		45.21	
Sowing (A)	F. Test		S.E.m	C.D.	C.V.(%)		F. Test		S.E.m	C.D.	C.V.(%)	
Variety (B)	*		1.41	8.60	14.04		*		0.74	4.53	7.54	
B within A	**		2.22	6.48	11.79		**		1.35	3.95	7.34	
A within B	**		3.14	9.17			**		1.92	5.59		
			3.23	9.44					1.92	5.61		
Date of sowing:	07.12.2012			26.12.2012			Date of harvesting 08.04.2013			26.04.2013		

Variety	Central Zone					IR-LS-TAS-DOS					Gwalior					2012-13				
	Sowing time					Sowing time					Sowing time									
	Late	Rk	Very late	Rk		Mean	Rk	Late	Rk	Very late	Rk		Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk
	Yield, q/ha					Earhead/sq.m.					Earhead/sq.m.									
RAJ 4238(I)	55.13	5	52.21	4	53.67	4	363	4	341	6	352	6	352	6	363	4	341	6	352	6
MP 3336(I)	53.05	6	44.17	7	48.61	7	352	7	338	7	345	7	345	7	352	7	338	7	345	7
MP 4010(c)	55.18	4	49.20	6	52.19	5	371	3	349	5	360	4	360	4	371	3	349	5	360	4
GW 322(c)	53.00	7	49.64	5	51.32	6	361	5	352	4	357	5	357	5	361	5	352	4	357	5
HD 2932(c)	61.45	1	52.60	3	57.03	2	462	1	360	3	411	1	411	1	462	1	360	3	411	1
HD 2864(c)	56.50	3	55.17	2	55.83	3	355	6	365	2	360	3	360	3	355	6	365	2	360	3
HD 3095	60.86	2	55.29	1	58.08	1	390	2	372	1	381	2	381	2	390	2	372	1	381	2
Mean	56.45		51.18		53.82		379		354		367		367		379		354		367	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)					F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		N.S.	1.40	8.50	11.89			*	2.39	14.56	2.99				*	2.39	14.56	2.99		
Variety (B)		**	0.72	2.10	3.28			**	5.69	16.61	3.80			**	5.69	16.61	3.80			
B within A		**	1.02	2.97				**	8.05	23.49				**	8.05	23.49				
A within B			1.69	4.92					7.83	22.84					7.83	22.84				
	Grains/earhead					1000 Grains weight, g					1000 Grains weight, g									
RAJ 4238(I)	48.00	3	54.97	5	51.49	4	32.05	4	27.90	1	29.98	3	29.98	3	32.05	4	27.90	1	29.98	3
MP 3336(I)	53.70	1	62.17	1	57.94	1	28.30	6	21.09	7	24.70	7	24.70	7	28.30	6	21.09	7	24.70	7
MP 4010(c)	45.34	6	51.58	7	48.46	7	33.01	3	27.36	3	30.19	2	30.19	2	33.01	3	27.36	3	30.19	2
GW 322(c)	53.59	2	58.49	4	56.04	2	27.38	7	24.13	6	25.76	6	25.76	6	27.38	7	24.13	6	25.76	6
HD 2932(c)	43.45	7	58.96	3	51.21	5	30.62	5	24.76	5	27.69	5	27.69	5	30.62	5	24.76	5	27.69	5
HD 2864(c)	47.22	4	59.72	2	53.47	3	33.93	1	25.35	4	29.64	4	29.64	4	33.93	1	25.35	4	29.64	4
HD 3095	46.80	5	54.44	6	50.62	6	33.39	2	27.38	2	30.39	1	30.39	1	33.39	2	27.38	2	30.39	1
Mean	48.30		57.19		52.75		31.24		25.42		28.33		28.33		31.24		25.42		28.33	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)					F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		*	1.10	6.71	9.57			*	0.67	4.07	10.82				*	0.67	4.07	10.82		
Variety (B)		**	1.56	4.56	7.25			**	0.47	1.36	4.03			**	0.47	1.36	4.03			
B within A		N.S.	2.21	6.44				*	0.66	1.93				*	0.66	1.93				
A within B			2.32	6.78					0.91	2.64					0.91	2.64				
Date of sowing:	6.12.2012					27.12.2012					Date of harvesting 18.4.2013					20.4.2013				

Variety	Central Zone					IR-LS-TAS-DOS					Indore					2012-13				
	Sowing time					Sowing time					Sowing time									
	Late	Rk	Very late	Rk		Mean	Rk	Late	Rk	Very late	Rk		Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk
	Yield, q/ha					Earhead/sq.m.					Earhead/sq.m.									
RAJ 4238(I)	52.30	1	43.40	2	47.85	1	398	1	331	2	364	1	364	1	398	1	331	2	364	1
MP 3336(I)	45.27	5	41.57	4	43.42	4	324	7	259	6	291	6	291	6	324	7	259	6	291	6
MP 4010(c)	43.80	6	35.27	7	39.53	7	333	6	250	7	291	7	291	7	333	6	250	7	291	7
GW 322(c)	46.67	3	48.83	1	47.75	2	378	2	295	4	336	3	336	3	378	2	295	4	336	3
HD 2932(c)	46.17	4	39.67	6	42.92	5	355	3	317	3	336	4	336	4	355	3	317	3	336	4
HD 2864(c)	42.30	7	40.67	5	41.48	6	338	5	282	5	310	5	310	5	338	5	282	5	310	5
HD 3095	46.83	2	42.07	3	44.45	3	344	4	337	1	340	2	340	2	344	4	337	1	340	2
Mean	46.19		41.64		43.91		353		296		324		324		353		296		324	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)					F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		*	0.60	3.64	6.25			*	5.58	33.96	7.89				*	5.58	33.96	7.89		
Variety (B)		**	0.69	2.03	3.87			**	13.58	39.65	10.26			**	13.58	39.65	10.26			
B within A		**	0.98	2.87				N.S.	19.21	56.07				N.S.	19.21	56.07				
A within B			1.09	3.18					18.64	54.41					18.64	54.41				
	Grains/earhead					1000 Grains weight, g					1000 Grains weight, g									
RAJ 4238(I)	29.24	7	28.37	7	28.80	7	45.00	2	46.27	1	45.64	1	45.64	1	45.00	2	46.27	1	45.64	1
MP 3336(I)	34.07	1	39.12	2	36.60	1	41.35	5	41.37	6	41.36	5	41.36	5	41.35	5	41.37	6	41.36	5
MP 4010(c)	29.43	6	31.25	4	30.34	4	45.41	1	45.54	2	45.47	2	45.47	2	45.41	1	45.54	2	45.47	2
GW 322(c)	30.71	3	41.99	1	36.35	2	40.39	7	40.04	7	40.21	7	40.21	7	40.39	7	40.04	7	40.21	7
HD 2932(c)	30.36	5	29.26	5	29.81	6	43.07	3	43.46	3	43.26	3	43.26	3	43.07	3	43.46	3	43.26	3
HD 2864(c)	30.62	4	35.21	3	32.91	3	41.00	6	41.55	5	41.27	6	41.27	6	41.00	6	41.55	5	41.27	6
HD 3095	31.82	2	28.83	6	30.33	5	43.05	4	43.43	4	43.24	4	43.24	4	43.05	4	43.43	4	43.24	4
Mean	30.89		33.43		32.16		42.75		43.09		42.92		42.92		42.75		43.09		42.92	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)					F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		N.S.	0.54	3.30	7.73			N.S.	0.49	2.99	5.24				N.S.	0.49	2.99	5.24		
Variety (B)		**	1.53	4.48	11.69			**	0.35	1.03	2.00			**	0.35	1.03	2.00			
B within A		*	2.17	6.34				N.S.	0.50	1.45				N.S.	0.50	1.45				
A within B			2.08	6.08					0.67	1.96					0.67	1.96				
Date of sowing:	7.12.2012					27.12.2012					Date of harvesting 4.4.2013					16.4.2013				

Variety	Central Zone					IR-LS-TAS-DOS					Junagarh							
	Sowing time					Sowing time					Sowing time							
	Late	Rk	Very late	Rk	Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk
	Yield, q/ha					Earhead/sq.m.					Earhead/sq.m.							
RAJ 4238(I)	54.39	1	28.46	1	41.42	1	420	3	405	1	412	1	420	3	405	1	412	1
MP 3336(I)	38.44	2	24.29	5	31.36	2	331	7	346	6	338	6	331	7	346	6	338	6
MP 4010(c)	34.47	6	24.68	4	29.58	5	407	4	359	5	383	4	407	4	359	5	383	4
GW 322(c)	37.56	3	20.41	7	28.99	6	334	6	280	7	307	7	334	6	280	7	307	7
HD 2932(c)	35.79	5	26.11	2	30.95	4	346	5	401	2	374	5	346	5	401	2	374	5
HD 2864(c)	36.17	4	26.08	3	31.12	3	427	2	362	4	395	3	427	2	362	4	395	3
HD 3095	34.46	7	23.47	6	28.97	7	449	1	368	3	408	2	449	1	368	3	408	2
Mean	38.75		24.78		31.77		388		360		374		388		360		374	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		**	0.67	4.11	9.73			*	2.19	13.30	2.68			*	2.19	13.30	2.68	
Variety (B)		**	0.67	1.96	5.19			**	7.30	21.32	4.79			**	7.30	21.32	4.79	
B within A		**	0.95	2.78				**	10.33	30.15				**	10.33	30.15		
A within B			1.11	3.24					9.81	28.63					9.81	28.63		
	Grains/earhead					1000 Grains weight, g					1000 Grains weight, g							
RAJ 4238(I)	27.31	1	20.35	5	23.83	3	47.53	1	34.60	1	41.07	1	47.53	1	34.60	1	41.07	1
MP 3336(I)	27.17	2	23.52	2	25.35	2	42.70	2	29.93	6	36.32	4	42.70	2	29.93	6	36.32	4
MP 4010(c)	22.63	5	22.26	3	22.44	5	37.50	7	31.27	5	34.38	7	37.50	7	31.27	5	34.38	7
GW 322(c)	26.67	3	25.99	1	26.33	1	42.27	3	28.07	7	35.17	6	42.27	3	28.07	7	35.17	6
HD 2932(c)	25.76	4	19.91	7	22.83	4	40.27	5	32.73	3	36.50	3	40.27	5	32.73	3	36.50	3
HD 2864(c)	20.45	6	21.63	4	21.04	6	41.40	4	33.40	2	37.40	2	41.40	4	33.40	2	37.40	2
HD 3095	19.26	7	20.19	6	19.73	7	39.90	6	31.67	4	35.78	5	39.90	6	31.67	4	35.78	5
Mean	24.18		21.98		23.08		41.65		31.67		36.66		41.65		31.67		36.66	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		N.S.	0.41	2.50	8.17			**	0.20	1.23	2.52			**	0.20	1.23	2.52	
Variety (B)		**	0.58	1.69	6.13			**	0.71	2.06	4.72			**	0.71	2.06	4.72	
B within A		**	0.82	2.38				**	1.00	2.91				**	1.00	2.91		
A within B			0.86	2.51					0.95	2.76					0.95	2.76		
Date of sowing:	05.12.2012			31.12.2012			Date of harvesting			18.03.2013			20.03.2013					

Variety	Central Zone					IR-LS-TAS-DOS					Kota							
	Sowing time					Sowing time					Sowing time							
	Late	Rk	Very late	Rk	Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk
	Yield, q/ha					Earhead/sq.m.					Earhead/sq.m.							
RAJ 4238(I)	43.26	2	38.40	3	40.83	3	124	7	222	5	173	7	124	7	222	5	173	7
MP 3336(I)	43.93	1	39.69	2	41.81	1	304	2	292	2	298	1	304	2	292	2	298	1
MP 4010(c)	35.93	5	32.20	6	34.06	6	250	5	224	4	237	5	250	5	224	4	237	5
GW 322(c)	35.69	6	33.43	5	34.56	5	305	1	232	3	269	3	305	1	232	3	269	3
HD 2932(c)	43.21	3	34.95	4	39.08	4	239	6	219	6	229	6	239	6	219	6	229	6
HD 2864(c)	41.96	4	41.65	1	41.81	2	276	4	310	1	293	2	276	4	310	1	293	2
HD 3095	33.71	7	31.68	7	32.69	7	303	3	181	7	242	4	303	3	181	7	242	4
Mean	39.67		36.00		37.84		257		240		249		257		240		249	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		*	0.33	2.00	3.98			N.S.	3.04	18.47	5.60			N.S.	3.04	18.47	5.60	
Variety (B)		**	0.42	1.24	2.75			**	3.46	10.09	3.41			**	3.46	10.09	3.41	
B within A		**	0.60	1.75				**	4.89	14.27				**	4.89	14.27		
A within B			0.65	1.88					5.45	15.90					5.45	15.90		
	Grains/earhead					1000 Grains weight, g					1000 Grains weight, g							
RAJ 4238(I)	85.66	1	50.40	2	68.03	1	41.00	1	34.40	3	37.70	3	41.00	1	34.40	3	37.70	3
MP 3336(I)	37.62	4	43.19	5	40.40	4	38.40	4	31.47	6	34.93	4	38.40	4	31.47	6	34.93	4
MP 4010(c)	35.25	5	38.20	7	36.72	7	40.87	2	37.67	1	39.27	1	40.87	2	37.67	1	39.27	1
GW 322(c)	31.77	6	45.31	4	38.54	5	36.80	5	31.87	4	34.33	5	36.80	5	31.87	4	34.33	5
HD 2932(c)	51.05	2	51.21	1	51.13	2	35.47	7	31.27	7	33.37	7	35.47	7	31.27	7	33.37	7
HD 2864(c)	42.38	3	42.42	6	42.40	3	35.93	6	31.67	5	33.80	6	35.93	6	31.67	5	33.80	6
HD 3095	28.59	7	48.31	3	38.45	6	38.93	3	36.53	2	37.73	2	38.93	3	36.53	2	37.73	2
Mean	44.62		45.58		45.10		38.20		33.55		35.88		38.20		33.55		35.88	
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Sowing (A)		N.S.	0.86	5.25	8.76			**	0.03	0.18	0.37			**	0.03	0.18	0.37	
Variety (B)		**	1.11	3.25	6.04			**	0.22	0.66	1.53			**	0.22	0.66	1.53	
B within A		**	1.57	4.59				**	0.32	0.93				**	0.32	0.93		
A within B			1.69	4.94					0.30	0.86					0.30	0.86		
Date of sowing:	4.12.2012			24.12.2012			Date of harvesting			20.4.2013			25.4.2013					

Table 4.2.6. Central Zone IR-LS-TAS-DOS Powarkheda 2012-13

Variety	Sowing time					Mean	Rk	Sowing time					Mean	Rk
	Late	Rk	Very late	Rk				Late	Rk	Very late	Rk			
Yield, q/ha														
RAJ 4238(I)	45.04	3	31.89	5	38.47	4	526	1	426	1	476	1		
MP 3336(I)	41.47	5	31.48	6	36.48	6	467	3	370	3	419	3		
MP 4010(c)	38.96	7	30.93	7	34.95	7	452	4	352	4	402	4		
GW 322(c)	46.57	2	33.65	4	40.11	3	480	2	381	2	430	2		
HD 2932(c)	40.62	6	34.65	3	37.64	5	444	5	348	5	396	5		
HD 2864(c)	41.49	4	39.11	1	40.30	2	432	7	317	7	375	7		
HD 3095	50.39	1	39.04	2	44.72	1	442	6	338	6	390	6		
Mean	43.51		34.39		38.95		463		362		413			
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)		**	0.53	3.21	6.21			**	1.49	9.05	1.65			
Variety (B)		**	0.62	1.80	3.87			**	4.85	14.14	2.88			
B within A		**	0.87	2.54				N.S.	6.85	20.00				
A within B			0.96	2.81					6.52	19.02				
Grains/earhead														
RAJ 4238(I)	22.64	5	21.13	6	21.89	6	37.90	4	35.70	5	36.80	5		
MP 3336(I)	26.29	3	25.00	4	25.64	3	33.83	7	34.07	6	33.95	7		
MP 4010(c)	18.05	7	18.29	7	18.17	7	47.73	1	48.07	1	47.90	1		
GW 322(c)	26.62	2	26.25	3	26.44	2	36.57	6	33.70	7	35.13	6		
HD 2932(c)	24.45	4	24.28	5	24.36	5	37.53	5	41.10	3	39.32	4		
HD 2864(c)	20.96	6	29.27	2	25.12	4	45.80	2	42.17	2	43.98	2		
HD 3095	26.64	1	29.97	1	28.31	1	42.83	3	38.53	4	40.68	3		
Mean	23.66		24.89		24.27		40.31		39.05		39.68			
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)		N.S.	0.56	3.39	10.52			N.S.	0.38	2.32	4.40			
Variety (B)		**	0.67	1.94	6.72			**	0.41	1.21	2.56			
B within A		**	0.94	2.75				**	0.59	1.71				
A within B			1.03	3.02					0.66	1.93				
Date of sowing:	09.12.2012		31.12.2012			Date of harvesting		15.4.2013		30.4.2013				

Variety	Sowing time					Mean	Rk	Sowing time					Mean	Rk
	Late	Rk	Very late	Rk				Late	Rk	Very late	Rk			
Yield, q/ha														
RAJ 4238(I)	50.08	3	44.22	3	47.15	3	305	3	258	3	282	3		
MP 3336(I)	53.86	1	49.13	1	51.49	1	339	1	282	1	311	1		
MP 4010(c)	44.60	6	37.60	6	41.10	6	272	6	240	6	256	6		
GW 322(c)	51.02	2	46.86	2	48.94	2	318	2	273	2	295	2		
HD 2932(c)	42.33	7	34.77	7	38.55	7	264	7	234	7	249	7		
HD 2864(c)	48.75	4	42.90	4	45.82	4	287	4	250	4	269	4		
HD 3095	46.49	5	39.87	5	43.18	5	280	5	243	5	261	5		
Mean	48.16		42.19		45.18		295		254		275			
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)		N.S.	1.16	7.05	11.74			*	4.50	27.38	7.51			
Variety (B)		**	1.52	4.45	8.26			**	5.30	15.47	4.73			
B within A		N.S.	2.15	6.29				N.S.	7.49	21.88				
A within B			2.31	6.73					8.27	24.14				
Grains/earhead														
RAJ 4238(I)	34.67	3	38.61	3	36.64	3	47.44	4	44.32	4	45.88	4		
MP 3336(I)	35.03	2	41.85	1	38.44	2	45.45	6	41.67	6	43.56	6		
MP 4010(c)	32.25	7	32.70	7	32.47	7	50.80	1	48.23	1	49.51	1		
GW 322(c)	35.86	1	41.53	2	38.70	1	44.87	7	41.37	7	43.12	7		
HD 2932(c)	34.35	6	33.86	6	34.11	6	46.73	5	43.77	5	45.25	5		
HD 2864(c)	34.53	5	36.34	5	35.43	5	49.40	2	47.05	2	48.23	2		
HD 3095	34.58	4	36.56	4	35.57	4	48.29	3	45.03	3	46.66	3		
Mean	34.47		37.35		35.91		47.57		44.49		46.03			
		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)			
Sowing (A)		N.S.	0.62	3.75	7.87			*	0.23	1.41	2.31			
Variety (B)		**	1.14	3.31	7.75			**	1.05	3.07	5.60			
B within A		N.S.	1.61	4.69				N.S.	1.49	4.34				
A within B			1.61	4.70					1.40	4.08				
Date of sowing:	6.12.2012		24.12.2012			Date of harvesting		24.4.2013		28.4.2013				

Table 4.2.8. Central Zone IR-LS-TAS-DOS Udaipur 2012-13

Variety	Sowing time					Mean	Rk	Sowing time					Mean	Rk
	Late	Rk	Very late	Rk				Late	Rk	Very late	Rk			

Variety	Late	Rk	Very late	Rk	Mean	Rk	Late	Rk	Very late	Rk	Mean	Rk
Yield, q/ha						Earhead/sq.m.						
RAJ 4238(I)	43.86	1	34.93	1	39.40	1	400	2	380	2	390	2
MP 3336(I)	36.76	5	30.36	7	33.56	6	412	1	386	1	399	1
MP 4010(c)	37.24	4	30.43	6	33.83	5	341	7	329	7	335	7
GW 322(c)	36.00	6	33.13	4	34.57	4	355	6	332	6	343	6
HD 2932(c)	40.22	2	34.02	2	37.12	2	362	5	351	4	357	4
HD 2864(c)	34.41	7	31.22	5	32.82	7	365	4	335	5	350	5
HD 3095	38.28	3	33.78	3	36.03	3	367	3	352	3	359	3
Mean	38.11		32.55		35.33		372		352		362	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		*	0.44	2.70	5.76			**	0.76	4.65	0.97	
B within A		**	0.93	2.71	6.43			**	5.08	14.83	3.44	
A within B		N.S.	1.31	3.83				N.S.	7.19	20.97		
			1.29	3.77					6.70	19.55		
Grains/earhead						1000 Grains weight, g						
RAJ 4238(I)	22.90	4	19.42	4	21.16	4	47.94	2	47.44	3	47.69	2
MP 3336(I)	18.62	7	17.23	7	17.93	7	47.88	3	45.64	5	46.76	3
MP 4010(c)	25.36	2	19.92	3	22.64	3	43.11	5	46.42	4	44.77	5
GW 322(c)	23.97	3	23.53	1	23.75	2	42.40	6	42.68	6	42.54	6
HD 2932(c)	27.79	1	23.52	2	25.65	1	39.94	7	41.21	7	40.58	7
HD 2864(c)	21.66	5	18.86	6	20.26	5	43.62	4	49.52	2	46.57	4
HD 3095	21.04	6	19.25	5	20.15	6	49.66	1	49.92	1	49.79	1
Mean	23.05		20.25		21.65		44.94		46.12		45.53	
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)	
Variety (B)		*	0.32	1.98	6.87			*	0.14	0.84	1.39	
B within A		**	0.68	1.98	7.67			**	0.28	0.82	1.50	
A within B		N.S.	0.96	2.80				**	0.40	1.15		
			0.94	2.76					0.39	1.14		
Date of sowing:	03.12.2012		24.12.2012		Date of harvesting			13.4.2013		19.4.2013		

Table 4.2.9. Central Zone		IR-LS-TAS-DOS					Vijapur					2012-13	
Variety	Sowing time				Mean	Rk	Sowing time				Mean	Rk	
	Late	Rk	Very late	Rk			Late	Rk	Very late	Rk			
Yield, q/ha						Earhead/sq.m.							
RAJ 4238(I)	50.13	4	30.01	4	40.07	4	494	2	349	7	422	2	
MP 3336(I)	45.69	5	30.02	3	37.86	5	428	3	398	2	413	3	
MP 4010(c)	43.57	6	28.90	5	36.24	6	418	4	394	3	406	4	
GW 322(c)	40.78	7	27.53	7	34.16	7	383	6	360	6	372	7	
HD 2932(c)	53.06	3	28.68	6	40.87	3	383	7	383	5	383	6	
HD 2864(c)	53.97	2	36.77	2	45.37	2	415	5	389	4	402	5	
HD 3095	55.04	1	38.62	1	46.83	1	496	1	466	1	481	1	
Mean	48.89		31.50		40.20		431		391		411		
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Variety (B)		**	0.27	1.67	3.13			*	4.43	26.95	4.94		
B within A		**	0.85	2.49	5.19			**	7.01	20.46	4.18		
A within B		**	1.21	3.52				**	9.91	28.94			
			1.15	3.35					10.19	29.75			
Grains/earhead						1000 Grains weight, g							
RAJ 4238(I)	25.40	6	26.62	3	26.01	5	39.95	3	32.47	3	36.21	3	
MP 3336(I)	27.83	4	24.34	5	26.08	4	38.43	5	30.97	5	34.70	5	
MP 4010(c)	23.43	7	20.56	7	22.00	7	44.57	1	35.75	2	40.16	1	
GW 322(c)	31.66	3	27.42	2	29.54	3	33.65	7	27.92	7	30.79	7	
HD 2932(c)	37.33	1	24.52	4	30.93	2	37.15	6	30.55	6	33.85	6	
HD 2864(c)	32.71	2	29.61	1	31.16	1	39.77	4	32.05	4	35.91	4	
HD 3095	26.97	5	22.70	6	24.83	6	41.15	2	36.53	1	38.84	2	
Mean	29.34		25.11		27.22		39.24		32.32		35.78		
Sowing (A)		F. Test	S.E.m	C.D.	C.V.(%)			F. Test	S.E.m	C.D.	C.V.(%)		
Variety (B)		**	0.30	1.82	5.04			**	0.31	1.91	4.01		
B within A		**	0.58	1.71	5.26			**	0.52	1.53	3.59		
A within B		**	0.83	2.41				N.S.	0.74	2.17			
			0.82	2.40					0.76	2.20			
Date of sowing:	7.12.2012		26.12.2012		Date of harvesting			30.3.2013		15.4.2013			

Table 4.3.1. Central Zone		RIR-TS-TAS						Bilaspur 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
Yield, q/ha																
MPO 1255(d)	17.81	4	19.40	6	27.15	6	21.45	5	134	5	159	4	209	3	168	3
HI 8731(d)	18.29	3	24.53	3	31.60	3	24.81	3	143	3	165	3	191	4	166	4
MP 3288(c)	15.51	6	20.60	5	27.43	5	21.18	6	114	6	132	6	167	6	138	6
HI 8627(c)	20.13	2	27.49	2	33.56	2	27.06	2	158	2	185	2	220	2	187	2
A-9-30-1(c)	17.59	5	23.15	4	29.65	4	23.46	4	140	4	155	5	172	5	156	5
HI 1500(c)	24.30	1	29.05	1	36.69	1	30.01	1	178	1	200	1	259	1	212	1
Mean	18.94		24.04		31.01		24.66		144		166		203		171	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.56		2.21		9.67		**		0.79		3.11		1.96	
Variety (B)	**		0.63		1.81		7.62		**		1.61		4.64		2.82	
B within A	N.S.		1.09		3.13				**		2.79		8.04			
A within B			1.14		3.29						2.66		7.69			
Grains/earhead																
MPO 1255(d)	49.00	3	39.27	5	37.41	4	41.89	4	27.23	3	31.05	5	35.03	4	31.10	4
HI 8731(d)	47.65	4	45.08	3	41.96	3	44.90	3	27.01	4	33.27	3	39.56	3	33.28	3
MP 3288(c)	56.02	1	51.82	1	49.95	1	52.59	1	24.39	6	30.25	6	33.07	6	29.24	6
HI 8627(c)	46.50	5	39.90	4	36.96	5	41.12	5	27.81	2	37.60	2	41.37	2	35.59	2
A-9-30-1(c)	49.91	2	47.73	2	49.61	2	49.08	2	25.43	5	31.59	4	34.75	5	30.59	5
HI 1500(c)	45.95	6	36.37	6	32.93	6	38.42	6	29.71	1	40.18	1	43.21	1	37.70	1
Mean	49.17		43.36		41.47		44.67		26.93		33.99		37.83		32.92	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	*		1.04		4.08		9.88		**		0.37		1.47		4.83	
Variety (B)	**		2.05		5.91		13.75		**		0.86		2.49		7.84	
B within A	N.S.		3.55		10.24				N.S.		1.49		4.30			
A within B			3.40		9.82						1.41		4.08			
Date of sowing:	29.10.2012						Date of harvesting: 02.03.2013									

Table 4.3.2. Central Zone		RIR-TS-TAS						Gwalior 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
Yield, q/ha																
MPO 1255(d)	22.73	4	40.78	3	43.59	3	35.70	4	264	4	370	3	391	4	342	4
HI 8731(d)	25.95	2	41.88	2	44.48	2	37.44	2	279	3	372	2	395	2	349	3
MP 3288(c)	26.71	1	42.55	1	43.39	4	37.55	1	290	1	380	1	392	3	354	1
HI 8627(c)	23.53	3	40.10	4	47.53	1	37.06	3	280	2	361	4	413	1	351	2
A-9-30-1(c)	18.68	5	33.07	5	36.99	6	29.58	5	232	5	343	5	342	6	306	5
HI 1500(c)	17.73	6	30.70	6	37.89	5	28.77	6	220	6	340	6	344	5	301	6
Mean	22.56		38.18		42.31		34.35		261		361		379		334	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.28		1.11		3.49		**		2.00		7.86		2.55	
Variety (B)	**		0.49		1.43		4.32		**		3.89		11.22		3.49	
B within A	**		0.86		2.48				*		6.73		19.44			
A within B			0.83		2.40						6.46		18.66			
Grains/earhead																
MPO 1255(d)	20.38	6	25.99	4	26.16	5	24.18	6	42.36	1	42.40	2	42.90	2	42.55	2
HI 8731(d)	22.04	3	25.85	5	26.01	6	24.63	5	42.14	2	43.64	1	43.35	1	43.04	1
MP 3288(c)	23.18	1	30.70	1	28.93	3	27.60	1	39.76	3	36.51	4	38.49	4	38.25	4
HI 8627(c)	21.76	4	30.58	2	28.98	2	27.10	2	38.63	4	36.47	5	39.78	3	38.29	3
A-9-30-1(c)	20.88	5	26.09	3	28.76	4	25.24	4	38.60	5	37.05	3	37.61	5	37.75	5
HI 1500(c)	22.32	2	25.04	6	30.55	1	25.97	3	36.12	6	36.25	6	36.03	6	36.14	6
Mean	21.76		27.38		28.23		25.79		39.60		38.72		39.69		39.34	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.43		1.69		7.10		N.S.		0.40		1.59		4.36	
Variety (B)	**		0.62		1.80		7.25		**		0.57		1.65		4.35	
B within A	*		1.08		3.12				N.S.		0.99		2.85			
A within B			1.08		3.11						0.99		2.85			
Date of sowing:	17.11.2012						Date of harvesting: 10.4.2013									

Table 4.3.3. Central Zone		RIR-TS-TAS						Indore 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
Yield, q/ha																
MPO 1255(d)	15.93	6	28.13	5	30.90	6	24.99	5	189	6	218	5	223	6	210	6
HI 8731(d)	18.17	5	30.00	3	36.47	3	28.21	3	208	3	279	2	285	2	257	2
MP 3288(c)	19.50	1	34.77	2	37.53	2	30.60	2	212	2	299	1	328	1	280	1
HI 8627(c)	19.10	2	41.17	1	44.07	1	34.78	1	194	5	234	4	242	5	223	5
A-9-30-1(c)	18.60	3	23.50	6	31.83	5	24.64	6	243	1	255	3	256	4	251	3
HI 1500(c)	18.60	3	29.00	4	32.33	4	26.64	4	207	4	215	6	268	3	230	4
Mean	18.32		31.09		35.52		28.31		209		250		267		242	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		1.34		5.25		20.04		**		1.86		7.32		3.27	
Variety (B)	**		0.61		1.77		6.48		**		5.48		15.83		6.80	
B within A	**		1.06		3.06				**		9.49		27.42			
A within B			1.65		4.76						8.87		25.60			
Grains/earhead																
MPO 1255(d)	15.64	6	23.78	4	22.86	4	20.76	4	54.12	1	54.82	1	60.66	2	56.53	1
HI 8731(d)	16.59	4	20.95	5	21.55	6	19.70	6	53.13	2	51.49	3	59.54	3	54.72	3
MP 3288(c)	21.71	1	26.77	3	22.72	5	23.73	3	42.42	6	43.49	6	50.31	5	45.41	6
HI 8627(c)	19.16	3	32.41	1	30.06	1	27.21	1	51.43	3	54.27	2	60.69	1	55.46	2
A-9-30-1(c)	16.47	5	20.90	6	24.18	3	20.52	5	46.64	4	44.16	5	51.49	4	47.43	4
HI 1500(c)	19.38	2	29.36	2	24.55	2	24.43	2	46.54	5	45.94	4	49.07	6	47.18	5
Mean	18.16		25.70		24.32		22.72		49.05		49.03		55.29		51.12	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.91		3.58		17.01		**		0.44		1.71		3.62	
Variety (B)	**		0.60		1.74		7.95		**		0.44		1.27		2.58	
B within A	**		1.04		3.01				**		0.76		2.20			
A within B			1.32		3.81						0.82		2.37			
Date of sowing:	26.10.2012						Date of harvesting:						13.3.2013			

Table 4.3.4. Central Zone		RIR-TS-TAS						Junagarh 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
Yield, q/ha																
MPO 1255(d)	2.21	4	4.27	3	6.33	5	4.27	5	138	4	148	6	168	6	151	6
HI 8731(d)	2.28	3	3.81	5	7.76	4	4.62	3	150	3	152	5	177	5	160	4
MP 3288(c)	3.45	1	8.64	1	9.56	1	7.22	1	178	2	234	1	237	3	216	2
HI 8627(c)	1.67	5	2.89	6	6.23	6	3.60	6	125	6	165	4	188	4	159	5
A-9-30-1(c)	1.57	6	3.92	4	8.25	3	4.58	4	129	5	198	3	239	2	189	3
HI 1500(c)	2.86	2	5.85	2	8.61	2	5.77	2	190	4	214	2	259	1	221	1
Mean	2.34		4.90		7.79		5.01		152		185		211		183	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.06		0.24		5.25		**		2.90		11.37		6.72	
Variety (B)	**		0.08		0.23		4.82		**		2.87		8.30		4.72	
B within A	**		0.14		0.40				**		4.98		14.37			
A within B			0.14		0.41						5.39		15.56			
Grains/earhead																
MPO 1255(d)	5.31	2	6.57	2	10.66	2	8.18	2	30.40	4	33.67	3	35.50	6	33.19	4
HI 8731(d)	4.88	3	7.68	4	11.95	1	8.16	3	31.23	3	32.87	4	36.60	4	33.57	3
MP 3288(c)	9.96	1	10.47	1	9.98	3	8.80	1	32.73	1	35.33	1	40.47	1	36.18	1
HI 8627(c)	4.53	5	5.47	6	9.25	5	6.42	6	29.20	5	32.10	5	35.90	5	32.40	5
A-9-30-1(c)	4.45	6	6.18	5	9.29	4	6.64	5	27.27	6	32.07	6	37.20	3	32.18	6
HI 1500(c)	4.80	4	7.92	3	8.82	6	7.18	4	31.37	2	34.57	2	37.67	2	34.53	2
Mean	4.99		7.71		9.99		7.56		30.37		33.43		37.22		33.67	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.13		0.51		7.34		**		0.27		1.07		3.43	
Variety (B)	**		0.15		0.42		5.78		**		0.34		0.98		3.02	
B within A	**		0.25		0.73				*		0.59		1.70			
A within B			0.26		0.76						0.60		1.74			
Date of sowing:	7.11.2012						Date of harvesting:						18.2.2013			

Table 4.3.5. Central Zone		RIR-TS-TAS						Kota 2012-13								
Varieties	Number of irrigations					Mean	Rk	Number of irrigations					Mean	Rk		
	No	Rk	One	Rk	Two			Rk	No	Rk	One	Rk			Two	Rk
	Yield, q/ha							Earhead/sq.m.								
MPO 1255(d)	29.05	6	45.53	4	45.11	4	39.90	4	262	5	286	4	312	4	286	5
HI 8731(d)	29.26	5	51.73	2	52.39	3	44.46	3	265	4	335	2	327	3	309	3
MP 3288(c)	35.46	2	49.34	3	57.53	2	47.44	2	312	2	324	3	334	2	323	2
HI 8627(c)	36.64	1	54.85	1	58.58	1	50.02	1	327	1	341	1	344	1	337	1
A-9-30-1(c)	29.53	4	38.68	6	45.01	5	37.74	5	310	3	274	6	292	5	292	4
HI 1500(c)	30.84	3	39.51	5	42.38	6	37.58	6	245	6	282	5	274	6	267	6
Mean	31.80		46.61		50.17		42.86		287		307		314		303	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.35		1.39		3.50		**		1.78		6.98		2.49	
Variety (B)	**		0.51		1.47		3.55		**		2.41		6.97		2.39	
B within A	**		0.88		2.54				**		4.18		12.07			
A within B			0.88		2.53						4.21		12.16			
	Grains/earhead							1000 Grains weight, g								
MPO 1255(d)	19.83	6	27.96	4	24.69	6	24.16	6	56.00	1	57.00	1	58.67	1	57.22	1
HI 8731(d)	19.87	5	27.57	5	28.58	5	25.34	5	55.67	2	56.00	2	56.00	2	55.89	2
MP 3288(c)	25.61	2	34.61	1	40.11	1	33.44	1	44.33	5	44.00	6	43.00	6	43.78	6
HI 8627(c)	20.38	4	29.82	3	32.53	4	27.57	4	55.00	3	54.00	3	52.33	3	53.78	3
A-9-30-1(c)	21.51	3	30.08	2	34.31	3	28.63	3	44.33	5	47.00	5	45.00	4	45.44	5
HI 1500(c)	26.76	1	26.44	6	34.44	2	29.21	2	47.00	4	53.00	4	45.00	4	48.33	4
Mean	22.33		29.41		32.44		28.06		50.39		51.83		50.00		50.74	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.22		0.88		3.37		**		0.09		0.37		0.78	
Variety (B)	**		0.40		1.14		4.22		**		0.11		0.33		0.68	
B within A	**		0.68		1.98				**		0.20		0.57			
A within B			0.66		1.92						0.20		0.59			
Date of sowing:	3.11.2012					Date of harvesting:					6.4.2013					

Table 4.3.6. Central Zone		RIR-TS-TAS						Powarkheda 2012-13								
Varieties	Number of irrigations					Mean	Rk	Number of irrigations					Mean	Rk		
	No	Rk	One	Rk	Two			Rk	No	Rk	One	Rk			Two	Rk
	Yield, q/ha							Earhead/sq.m.								
MPO 1255(d)	27.21	1	35.37	1	41.49	1	34.69	1	260	1	271	1	273	1	268	1
HI 8731(d)	22.10	5	31.97	3	33.35	4	29.14	5	256	4	262	3	265	3	261	3
MP 3288(c)	24.48	4	31.97	3	33.16	6	29.87	4	260	2	257	5	255	6	257	6
HI 8627(c)	26.70	3	34.69	2	37.92	2	33.10	2	258	3	263	2	268	2	263	2
A-9-30-1(c)	20.23	6	26.87	6	33.33	5	26.81	6	253	6	257	6	263	4	258	5
HI 1500(c)	27.21	2	31.29	5	36.80	3	31.76	3	254	5	258	4	262	5	258	4
Mean	24.65		32.03		36.01		30.90		257		261		264		261	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.34		1.34		4.68		N.S.		3.26		12.78		5.30	
Variety (B)	**		0.61		1.77		5.97		N.S.		2.57		7.41		2.95	
B within A	N.S.		1.06		3.07				N.S.		4.44		12.83			
A within B			1.03		2.97						5.20		15.02			
	Grains/earhead							1000 Grains weight, g								
MPO 1255(d)	20.63	4	22.49	3	33.36	1	25.50	1	50.87	1	58.13	1	45.53	6	51.51	3
HI 8731(d)	18.26	5	21.06	5	20.50	6	19.94	6	47.50	2	58.03	2	61.43	1	55.66	1
MP 3288(c)	22.64	2	24.46	2	25.45	3	24.18	3	41.67	6	50.78	6	51.17	4	47.87	6
HI 8627(c)	21.88	3	24.96	1	25.09	4	23.98	4	47.33	3	52.93	4	56.53	2	52.27	2
A-9-30-1(c)	17.28	6	20.22	6	24.37	5	20.62	5	46.33	4	51.83	5	52.00	3	50.06	4
HI 1500(c)	23.95	1	21.91	4	29.34	2	25.07	2	45.03	5	55.47	3	47.83	5	49.44	5
Mean	20.77		22.52		26.35		23.21		46.46		54.53		52.42		51.13	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.50		1.97		9.15		**		0.11		0.45		0.95	
Variety (B)	**		0.58		1.68		7.53		**		0.35		1.02		2.07	
B within A	**		1.01		2.91				**		0.61		1.77			
A within B			1.05		3.03						0.57		1.65			
Date of sowing:	3.11.2012					Date of harvesting:					18.03.13					

Table 4.3.7. Central Zone		RIR-TS-TAS						Sagar 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
	Yield, q/ha								Earhead/sq.m.							
MPO 1255(d)	22.11	1	29.76	1	38.78	1	30.22	1	242	1	300	1	366	1	303	1
HI 8731(d)	16.84	5	21.43	5	29.25	5	22.51	5	205	5	276	5	302	5	261	5
MP 3288(c)	19.39	3	26.02	3	32.65	3	26.02	3	221	3	284	3	319	3	275	3
HI 8627(c)	20.41	2	29.25	2	36.39	2	28.68	2	232	2	293	2	335	2	287	2
A-9-30-1(c)	14.46	6	20.58	6	26.87	6	20.63	6	188	6	237	6	255	6	226	6
HI 1500(c)	17.52	4	21.77	4	31.12	4	23.47	4	213	4	278	4	304	4	265	4
Mean	18.45		24.80		32.51		25.25		217		278		314		270	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.11		0.44		1.87		**		0.90		3.53		1.42	
Variety (B)	**		0.69		2.00		8.25		**		4.03		11.65		4.49	
B within A	N.S.		1.20		3.47				*		6.99		20.18			
A within B			1.10		3.19						6.44		18.60			
	Grains/earhead								1000 Grains weight, g							
MPO 1255(d)	20.19	5	19.65	4	19.82	6	19.89	6	45.57	1	50.48	1	53.54	1	49.86	1
HI 8731(d)	21.76	2	18.87	5	24.93	2	21.85	2	37.98	5	41.22	5	38.95	5	39.39	5
MP 3288(c)	20.43	4	20.36	3	21.40	5	20.73	5	42.92	3	44.94	3	47.85	3	45.24	3
HI 8627(c)	19.99	6	20.64	2	21.85	4	20.83	4	44.35	2	48.45	2	49.80	2	47.53	2
A-9-30-1(c)	22.47	1	23.92	1	28.35	1	24.92	1	34.40	6	36.37	6	37.19	6	35.99	6
HI 1500(c)	20.78	3	18.71	6	23.83	3	21.11	3	39.99	4	41.95	4	42.92	4	41.62	4
Mean	20.94		20.36		23.36		21.55		40.87		43.90		45.04		43.27	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.16		0.64		3.22		**		0.48		1.87		4.68	
Variety (B)	**		0.81		2.34		11.26		**		0.78		2.26		5.42	
B within A	N.S.		1.40		4.05				N.S.		1.36		3.91			
A within B			1.29		3.72						1.33		3.83			
Date of sowing:	8.11.2012						Date of harvesting: 15.4.2013									

Table 4.3.8. Central Zone		RIR-TS-TAS						Udaipur 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
	Yield, q/ha								Earhead/sq.m.							
MPO 1255(d)	11.36	6	14.58	6	20.91	6	15.61	6	145	4	208	4	223	6	192	4
HI 8731(d)	12.65	3	15.73	4	23.00	4	17.13	4	150	2	216	3	231	3	199	2
MP 3288(c)	12.55	5	19.82	3	24.04	3	18.80	3	151	1	239	1	238	1	209	1
HI 8627(c)	12.63	4	15.06	5	22.15	5	16.61	5	142	5	220	2	228	4	197	3
A-9-30-1(c)	13.80	2	24.02	2	24.65	2	20.83	2	148	3	203	6	223	5	192	6
HI 1500(c)	14.35	1	24.38	1	26.18	1	21.64	1	136	6	205	5	234	2	192	5
Mean	12.89		18.93		23.49		18.44		146		215		229		197	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.32		1.27		7.44		**		5.97		23.43		12.87	
Variety (B)	**		0.41		1.18		6.65		N.S.		6.92		19.97		10.55	
B within A	**		0.71		2.04				N.S.		11.98		34.59			
A within B			0.72		2.09						12.46		35.97			
	Grains/earhead								1000 Grains weight, g							
MPO 1255(d)	20.70	5	16.98	5	21.63	6	19.77	6	38.00	5	41.82	3	43.64	1	41.16	4
HI 8731(d)	20.25	6	17.29	4	23.28	5	20.27	5	41.74	3	42.20	2	43.08	3	42.34	2
MP 3288(c)	22.97	3	20.30	3	24.42	3	22.57	3	37.13	6	40.88	6	41.37	6	39.80	6
HI 8627(c)	23.73	2	16.71	6	23.44	4	21.29	4	38.06	4	41.48	5	42.17	4	40.57	5
A-9-30-1(c)	21.97	4	27.72	2	26.28	2	25.33	2	42.44	1	42.50	1	43.54	2	42.83	1
HI 1500(c)	24.90	1	30.40	1	26.57	1	27.29	1	42.39	2	41.62	4	42.11	5	42.04	3
Mean	22.42		21.57		24.27		22.75		39.96		41.75		42.65		41.46	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	*		0.83		3.24		15.38		*		0.63		2.48		6.46	
Variety (B)	**		1.23		3.54		16.18		*		0.71		2.04		5.10	
B within A	N.S.		2.13		6.14				N.S.		1.22		3.53			
A within B			2.11		6.09						1.28		3.70			
Date of sowing:	04 .11.2012						Date of harvesting: 21.3.2013									

Table 4.3.9. Central Zone		RIR-TS-TAS						Vijapur 2012-13								
Varieties	Number of irrigations						Mean	Rk	Number of irrigations							
	No	Rk	One	Rk	Two	Rk			No	Rk	One	Rk	Two	Rk	Mean	Rk
Yield, q/ha													Earhead/sq.m.			
MPO 1255(d)	5.57	6	12.86	6	14.66	6	11.03	6	65	6	138	3	119	6	107	6
HI 8731(d)	5.94	5	13.95	5	22.68	5	14.19	5	99	3	127	5	150	5	125	4
MP 3288(c)	6.81	3	15.76	3	22.72	4	15.10	3	81	5	127	5	162	4	123	5
HI 8627(c)	5.97	4	14.67	4	22.77	3	14.47	4	82	4	133	4	172	3	129	3
A-9-30-1(c)	7.61	2	15.93	2	22.78	2	15.44	2	105	2	154	2	188	2	149	2
HI 1500(c)	10.08	1	18.45	1	23.51	1	17.35	1	110	1	160	1	203	1	158	1
Mean	7.00		15.27		21.52		14.60		90		140		166		132	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	**		0.77		3.02		22.40		**		5.46		21.43		17.55	
Variety (B)	**		0.64		1.86		13.24		**		7.61		21.99		17.31	
B within A	N.S.		1.12		3.22				N.S.		13.19		38.08			
A within B			1.28		3.69						13.22		38.17			
Grains/earhead													1000 Grains weight, g			
MPO 1255(d)	16.78	4	18.87	6	25.68	6	20.44	6	53.32	1	50.62	1	47.74	3	50.56	1
HI 8731(d)	11.28	6	23.42	5	32.90	1	22.53	4	52.85	2	49.29	2	48.97	2	50.37	2
MP 3288(c)	20.45	2	26.40	2	32.39	2	26.41	1	41.38	6	46.80	3	43.33	6	43.84	4
HI 8627(c)	15.04	5	24.25	4	27.97	3	22.42	5	48.50	3	45.25	4	49.93	1	47.89	3
A-9-30-1(c)	16.80	3	24.94	3	27.57	4	23.10	3	43.24	4	42.43	6	44.32	4	43.33	5
HI 1500(c)	22.34	1	27.88	1	26.53	5	25.58	2	43.03	5	42.49	5	44.05	5	43.19	6
Mean	17.11		24.30		28.84		23.42		47.06		46.15		46.39		46.53	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Irrigation (A)	*		1.94		7.62		35.18		N.S.		0.33		1.31		3.04	
Variety (B)	N.S.		1.64		4.74		21.03		**		0.60		1.75		3.90	
B within A	N.S.		2.84		8.21				**		1.05		3.03			
A within B			3.24		9.36						1.01		2.93			
Date of sowing:	1.11.2012						Date of harvesting:						22.3.2013			

Table 4.4.1. Central Zone		RF-TAS-LON						Bilaspur 2012-13								
Varieties	Nitrogen levels, kg/ha						Mean	Rk	Nitrogen levels, kg/ha							
	40	Rk	60	Rk	80	Rk			40	Rk	60	Rk	80	Rk	Mean	Rk
Yield, q/ha													Earhead/sq.m.			
MPO 1255(d)	14.02	6	16.40	6	21.16	6	17.19	6	128	6	152	6	189	6	157	6
HI 8731(d)	18.03	2	21.53	3	22.43	5	20.66	4	192	1	196	2	243	2	210	2
MP 3288(c)	17.00	3	23.30	2	26.56	3	22.29	2	166	3	183	3	203	3	184	3
HI 8627(c)	15.57	4	20.15	4	26.59	2	20.77	3	162	4	182	4	202	4	182	4
A-9-30-1(c)	15.18	5	18.60	5	24.65	4	19.47	5	129	5	177	5	198	5	168	5
HI 1500(c)	20.53	1	25.04	1	27.69	1	24.42	1	190	2	218	1	273	1	227	1
Mean	16.72		20.84		24.85		20.80		161		185		218		188	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.66		2.59		13.46		**		1.51		5.94		3.41	
Variety (B)	**		0.74		2.15		10.73		**		2.34		6.76		3.74	
B within A	N.S.		1.29		3.72				**		4.06		11.71			
A within B			1.35		3.89						4.00		11.55			
Grains/earhead													1000 Grains weight, g			
MPO 1255(d)	32.60	2	30.58	2	29.25	4	30.81	1	33.70	6	35.47	6	38.03	6	35.73	6
HI 8731(d)	24.63	6	27.00	4	20.96	6	24.20	6	38.39	2	41.07	3	44.51	2	41.32	2
MP 3288(c)	28.84	3	32.55	1	30.88	3	30.76	2	35.67	3	39.69	4	42.60	3	39.32	3
HI 8627(c)	28.25	4	28.35	3	32.21	1	29.60	4	34.53	4	39.03	5	40.97	4	38.18	5
A-9-30-1(c)	34.95	1	24.19	6	31.52	2	30.22	3	34.09	5	43.75	2	39.50	5	39.11	4
HI 1500(c)	26.84	5	24.42	5	21.53	5	24.26	5	40.25	1	47.32	1	47.35	1	44.97	1
Mean	29.35		27.85		27.73		28.31		36.11		41.06		42.16		39.77	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		1.21		4.74		18.11		**		0.50		1.95		5.31	
Variety (B)	**		1.54		4.43		16.27		**		0.85		2.45		6.40	
B within A	N.S.		2.66		7.68				N.S.		1.47		4.25			
A within B			2.71		7.83						1.43		4.14			
Date of sowing:	29.10.2012						Date of harvesting:						02.03.2013			

Table 4.4.2. Central Zone		RF-TAS-LON						Gwalior 2012-13								
Varieties	Nitrogen levels, kg/ha						Nitrogen levels, kg/ha									
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
	Yield, q/ha						Earhead/sq.m.									
MPO 1255(d)	24.42	3	26.23	4	23.64	4	24.77	4	256	3	275	4	251	6	261	4
HI 8731(d)	26.07	2	28.67	3	28.06	2	27.60	2	259	2	286	3	287	2	277	3
MP 3288(c)	23.50	4	31.30	1	29.84	1	28.21	1	243	6	311	1	300	1	285	1
HI 8627(c)	26.95	1	29.29	2	26.33	3	27.52	3	277	1	295	2	277	3	283	2
A-9-30-1(c)	22.42	5	23.99	5	22.97	5	23.13	5	248	5	264	5	265	4	259	5
HI 1500(c)	21.03	6	23.46	6	21.83	6	22.11	6	250	4	262	6	264	5	259	6
Mean	24.07		27.16		25.44		25.56		255		282		274		271	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.29		1.15		4.86		**		2.44		9.56		3.82	
Variety (B)	**		0.65		1.88		7.66		**		4.13		11.92		4.58	
B within A	N.S.		1.13		3.26				**		7.15		20.64			
A within B			1.07		3.10						6.96		20.11			
	Grains/earhead						1000 Grains weight, g									
MPO 1255(d)	22.30	6	24.06	5	22.25	6	22.87	5	42.80	3	39.71	2	42.63	1	41.71	2
HI 8731(d)	22.36	5	22.87	6	22.99	5	22.74	6	45.28	1	43.92	1	42.51	2	43.90	1
MP 3288(c)	27.94	1	29.25	1	29.78	1	28.99	1	34.71	4	34.59	4	33.66	4	34.32	4
HI 8627(c)	22.74	4	26.68	4	25.67	4	25.03	4	42.85	2	37.22	3	37.18	3	39.08	3
A-9-30-1(c)	27.92	2	28.82	2	26.01	3	27.58	2	33.16	6	31.60	6	33.29	5	32.68	6
HI 1500(c)	25.30	3	27.24	3	26.09	2	26.21	3	33.29	5	32.99	5	32.20	6	32.83	5
Mean	24.76		26.49		25.46		25.57		38.68		36.67		36.91		37.42	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	N.S.		0.70		2.74		11.56		*		0.66		2.57		7.43	
Variety (B)	**		0.94		2.72		11.06		**		0.62		1.80		5.00	
B within A	N.S.		1.63		4.71				N.S.		1.08		3.12			
A within B			1.65		4.75						1.18		3.42			
Date of sowing:	18.11.2012						Date of harvesting: 10.4.2013									

Table 4.4.3. Central Zone		RF-TAS-LON						Indore 2012-13								
Varieties	Nitrogen levels, kg/ha						Nitrogen levels, kg/ha									
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
	Yield, q/ha						Earhead/sq.m.									
MPO 1255(d)	12.97	6	14.03	6	17.60	5	14.87	5	180	6	191	6	195	6	189	6
HI 8731(d)	15.60	4	18.37	4	18.10	4	17.36	4	209	5	193	5	223	3	208	5
MP 3288(c)	17.40	2	20.50	1	23.07	1	20.32	1	261	1	248	1	232	1	247	1
HI 8627(c)	17.03	3	20.07	2	19.90	2	19.00	3	219	4	203	4	226	2	216	4
A-9-30-1(c)	13.87	5	14.93	5	14.83	6	14.54	6	240	2	204	3	206	5	217	3
HI 1500(c)	19.10	1	19.20	3	19.03	3	19.11	2	220	3	221	2	220	4	220	2
Mean	15.99		17.85		18.76		17.53		222		210		217		216	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.58		2.27		13.97		N.S.		3.54		13.89		6.94	
Variety (B)	**		0.51		1.48		8.78		**		6.02		17.37		8.35	
B within A	N.S.		0.89		2.57				N.S.		10.42		30.09			
A within B			1.00		2.87						10.15		29.31			
	Grains/earhead						1000 Grains weight, g									
MPO 1255(d)	13.27	6	13.47	6	17.37	3	14.70	6	55.01	1	55.07	1	52.18	2	54.09	1
HI 8731(d)	13.88	4	17.95	4	15.61	6	15.81	4	53.75	2	53.02	2	51.98	3	52.92	2
MP 3288(c)	15.40	2	19.10	2	22.77	1	19.09	2	43.29	6	43.43	6	43.92	6	43.55	6
HI 8627(c)	14.71	3	19.03	3	17.05	4	16.93	3	53.17	3	52.30	3	52.25	1	52.57	3
A-9-30-1(c)	13.27	5	15.99	5	15.61	5	14.96	5	43.99	5	46.35	4	46.14	4	45.49	4
HI 1500(c)	19.71	1	19.40	1	19.57	2	19.56	1	44.26	4	45.34	5	44.31	5	44.64	5
Mean	15.04		17.49		18.00		16.84		48.91		49.25		48.46		48.88	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.61		2.38		15.29		N.S.		0.33		1.29		2.86	
Variety (B)	**		0.73		2.10		12.97		**		0.62		1.80		3.82	
B within A	N.S.		1.26		3.64				N.S.		1.08		3.11			
A within B			1.30		3.76						1.04		2.99			
Date of sowing:	26.10.2012						Date of harvesting: 13.3.2013									

Table 4.4.4. Central Zone		RF-TAS-LON						Kota 2012-13								
Varieties	Nitrogen levels, kg/ha						Nitrogen levels, kg/ha									
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
	Yield, q/ha						Earhead/sq.m.									
MPO 1255(d)	30.26	2	31.53	4	33.39	3	31.73	3	244	2	263	4	345	1	284	2
HI 8731(d)	20.78	6	22.37	6	25.60	6	22.92	6	189	6	248	6	278	4	238	5
MP 3288(c)	29.41	3	33.89	2	30.62	4	31.31	4	212	3	282	3	272	5	255	4
HI 8627(c)	29.28	4	34.84	1	36.81	1	33.64	1	202	4	319	1	335	2	285	1
A-9-30-1(c)	25.26	5	30.40	5	29.87	5	28.51	5	198	5	250	5	253	6	234	6
HI 1500(c)	30.79	1	32.69	3	34.67	2	32.72	2	255	1	285	2	290	3	277	3
Mean	27.63		30.95		31.83		30.14		217		274		296		262	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.16		0.62		2.24		**		1.78		6.98		2.88	
Variety (B)	**		0.39		1.14		3.92		**		3.71		10.73		4.25	
B within A	**		0.68		1.97				**		6.43		18.58			
A within B			0.64		1.86						6.14		17.72			
	Grains/earhead						1000 Grains weight, g									
MPO 1255(d)	26.00	5	22.77	3	20.26	5	23.01	5	47.70	4	52.80	2	47.80	4	49.43	3
HI 8731(d)	21.54	6	20.18	6	16.44	6	19.39	6	51.00	2	44.80	6	56.00	1	50.60	2
MP 3288(c)	31.46	1	20.55	5	25.43	2	25.81	2	44.20	5	58.93	1	44.33	6	49.16	4
HI 8627(c)	26.90	3	20.69	4	22.75	4	23.44	4	53.97	1	52.80	3	48.67	2	51.81	1
A-9-30-1(c)	26.10	4	24.32	2	24.65	3	25.02	3	48.80	3	49.93	4	48.27	3	49.00	5
HI 1500(c)	27.99	2	24.39	1	26.13	1	26.17	1	43.10	6	47.13	5	45.80	5	45.34	6
Mean	26.66		22.15		22.61		23.81		48.13		51.07		48.48		49.22	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.37		1.44		6.52		*		0.40		1.56		3.43	
Variety (B)	**		0.49		1.42		6.19		**		0.61		1.77		3.74	
B within A	**		0.85		2.46				**		1.06		3.07			
A within B			0.86		2.48						1.05		3.03			
Date of sowing:	28.10.2012						Date of harvesting: 4.4.2013									

Table 4.4.5. Central Zone		RF-TAS-LON						Powarkheda 2012-13								
Varieties	Nitrogen levels, kg/ha						Nitrogen levels, kg/ha									
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
	Yield, q/ha						Earhead/sq.m.									
MPO 1255(d)	28.57	1	32.57	1	33.43	2	31.52	2	272	1	283	1	282	1	279	1
HI 8731(d)	23.80	4	27.34	4	30.71	5	27.28	4	266	2	268	2	273	2	269	2
MP 3288(c)	22.27	6	25.67	5	31.73	4	26.56	5	251	3	255	4	262	5	256	4
HI 8627(c)	25.68	2	29.86	2	41.83	1	32.46	1	249	5	254	5	264	4	256	5
A-9-30-1(c)	22.43	5	24.79	6	27.21	6	24.81	6	229	6	248	6	255	6	244	6
HI 1500(c)	24.48	3	27.72	3	33.33	3	28.51	3	250	4	259	3	267	3	259	3
Mean	24.54		27.99		33.04		28.52		253		261		267		260	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.16		0.63		2.38		**		1.63		6.38		2.65	
Variety (B)	**		0.58		1.68		6.13		**		2.21		6.37		2.54	
B within A	**		1.01		2.92				N.S.		3.82		11.04			
A within B			0.94		2.70						3.85		11.12			
	Grains/earhead						1000 Grains weight, g									
MPO 1255(d)	25.27	1	22.35	4	23.01	4	23.54	4	41.57	6	51.60	2	51.47	1	48.21	2
HI 8731(d)	17.19	6	19.55	6	22.16	6	19.63	6	52.18	1	52.17	1	50.80	2	51.72	1
MP 3288(c)	19.66	5	23.00	3	28.30	3	23.65	3	45.13	4	43.70	5	42.80	6	43.88	5
HI 8627(c)	22.02	3	25.79	1	33.75	1	27.19	1	46.93	3	45.50	4	46.90	3	46.44	4
A-9-30-1(c)	20.29	4	21.88	5	22.84	5	21.67	5	48.37	2	45.70	3	46.77	4	46.94	3
HI 1500(c)	23.31	2	24.72	2	29.03	2	25.68	2	42.10	5	43.33	6	42.93	5	42.79	6
Mean	21.29		22.88		26.51		23.56		46.05		47.00		46.94		46.66	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.25		0.99		4.55		N.S.		0.39		1.54		3.56	
Variety (B)	**		0.48		1.40		6.16		**		0.47		1.37		3.05	
B within A	**		0.84		2.42				**		0.82		2.37			
A within B			0.81		2.33						0.85		2.44			
Date of sowing:	3.11.2012						Date of harvesting: 17.3.2013									

Table 4.4.6. Central Zone		RF-TAS-LON						Sagar 2012-13								
Varieties	Nitrogen levels, kg/ha						Nitrogen levels, kg/ha									
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
	Yield, q/ha						Earhead/sq.m.									
MPO 1255(d)	20.07	1	21.94	1	23.47	1	21.83	1	210	1	218	1	222	1	217	1
HI 8731(d)	17.18	5	18.71	5	20.24	5	18.71	5	167	5	181	5	189	5	179	5
MP 3288(c)	18.54	3	20.92	3	23.13	3	20.86	3	181	3	195	3	202	3	193	3
HI 8627(c)	19.90	2	21.43	2	23.30	2	21.54	2	200	2	210	2	215	2	208	2
A-9-30-1(c)	16.97	6	18.54	6	19.63	6	18.38	6	155	6	179	6	187	6	174	6
HI 1500(c)	18.37	4	20.75	4	22.11	4	20.41	4	174	4	192	4	201	4	189	4
Mean	18.50		20.38		21.98		20.29		181		196		203		193	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	**		0.09		0.37		1.96		**		0.40		1.57		0.88	
Variety (B)	**		0.60		1.73		8.88		**		6.16		17.80		9.57	
B within A	N.S.		1.04		3.01				N.S.		10.68		30.83			
A within B			0.95		2.76						9.75		28.17			
	Grains/earhead						1000 Grains weight, g									
MPO 1255(d)	22.78	6	21.70	6	22.43	6	22.30	6	44.01	1	46.52	1	47.13	1	45.89	1
HI 8731(d)	27.46	2	25.82	3	25.90	3	26.39	2	37.50	5	40.30	5	41.48	5	39.76	5
MP 3288(c)	24.63	4	24.13	4	25.25	4	24.67	4	42.14	3	44.48	3	45.41	3	44.01	3
HI 8627(c)	23.36	5	22.89	5	23.42	5	23.22	5	42.71	2	44.99	2	46.16	2	44.62	2
A-9-30-1(c)	31.48	1	28.51	1	28.16	1	29.38	1	34.83	6	36.36	6	37.27	6	36.15	6
HI 1500(c)	26.79	3	26.03	2	25.94	2	26.26	3	39.73	4	41.49	4	42.33	4	41.18	4
Mean	26.08		24.85		25.18		25.37		40.15		42.36		43.30		41.94	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.17		0.66		2.83		**		0.28		1.08		2.80	
Variety (B)	**		1.01		2.90		11.89		**		0.57		1.63		4.04	
B within A	N.S.		1.74		5.03				N.S.		0.98		2.83			
A within B			1.60		4.62						0.94		2.70			
Date of sowing:	30.10.2012						Date of harvesting: 12.4.2013									

Table 4.4.7. Central Zone		RF-TAS-LON						Udaipur 2012-13								
Varieties	Nitrogen levels, kg/ha						Nitrogen levels, kg/ha									
	40	Rk	60	Rk	80	Rk	Mean	Rk	40	Rk	60	Rk	80	Rk	Mean	Rk
	Yield, q/ha						Earhead/sq.m.									
MPO 1255(d)	6.70	6	6.87	6	8.48	5	7.35	6	175	4	138	5	146	4	153	5
HI 8731(d)	9.88	3	10.03	4	12.07	3	10.66	4	154	5	174	3	157	3	161	3
MP 3288(c)	10.59	2	10.88	3	11.29	4	10.92	3	186	1	228	2	160	2	191	2
HI 8627(c)	9.38	5	9.55	5	7.99	6	8.98	5	177	3	129	6	145	5	150	6
A-9-30-1(c)	12.19	1	12.72	2	13.12	2	12.67	1	139	6	232	1	226	1	199	1
HI 1500(c)	9.45	4	12.79	1	15.16	1	12.47	2	183	2	165	4	132	6	160	4
Mean	9.70		10.47		11.35		10.51		169		178		161		169	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.25		0.99		10.18		*		4.91		19.27		12.31	
Variety (B)	**		0.33		0.96		9.50		**		6.57		18.97		11.65	
B within A	**		0.58		1.66				**		11.38		32.86			
A within B			0.58		1.68						11.49		33.18			
	Grains/earhead						1000 Grains weight, g									
MPO 1255(d)	10.14	6	12.82	5	14.21	4	12.39	6	38.57	6	38.96	6	40.86	4	39.46	6
HI 8731(d)	17.15	2	14.51	3	19.49	2	17.05	2	39.43	5	39.90	5	39.90	6	39.74	5
MP 3288(c)	14.38	3	11.77	6	17.67	3	14.60	5	39.95	3	40.63	4	40.78	5	40.45	4
HI 8627(c)	13.46	4	18.35	1	13.55	6	15.12	4	39.83	4	40.66	3	40.95	3	40.48	3
A-9-30-1(c)	21.84	1	13.30	4	13.90	5	16.34	3	40.61	2	41.30	2	41.57	1	41.16	2
HI 1500(c)	12.74	5	18.34	2	27.95	1	19.68	1	40.92	1	42.17	1	41.26	2	41.45	1
Mean	14.95		14.85		17.79		15.86		39.88		40.60		40.89		40.46	
	F. Test		S.E.m		C.D.		C.V.(%)		F. Test		S.E.m		C.D.		C.V.(%)	
Nitrogen (A)	*		0.40		1.56		10.65		*		0.18		0.70		1.87	
Variety (B)	**		0.79		2.29		14.98		**		0.21		0.61		1.57	
B within A	**		1.37		3.96				N.S.		0.37		1.06			
A within B			1.31		3.80						0.38		1.10			
Date of sowing:	03.11.2012						Date of harvesting: 21.3.2013									

Table 5.1.1. Peninsular Zone		IR-TS-TAD-DOS		Dharwad		2012-13						
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Rk	Late			Rk	Timely	Rk			Late	Rk
Yield, q/ha					Earhead/sq.m.							
WHD 948 (dl)	41.65	2	31.70	2	36.67	2	238	3	224	2	231	3
MACS 6478	38.41	5	30.23	4	34.32	5	230	6	218	6	224	6
MACS 6222 (c)	37.71	6	29.42	7	33.57	6	226	7	220	5	223	7
NIDW 295 (dc)	36.41	7	30.06	5	33.23	7	240	2	224	2	232	2
UAS 428 (dc)	43.88	1	32.50	1	38.19	1	244	1	236	1	240	1
UAS 334	38.81	4	29.99	6	34.40	4	232	5	218	6	225	5
GW 322 (c)	39.55	3	30.26	3	34.90	3	236	4	222	4	229	4
Mean	39.49		30.59		35.04		235		223		229	
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.	
Sowing (A)	*		0.84		5.12		N.S.		2.54		15.47	
Variety (B)	**		0.75		2.19		N.S.		5.57		16.27	
B within A	N.S.		1.06		3.10		N.S.		7.88		23.01	
A within B			1.29		3.78				7.73		22.56	
Grains/earhead					1000 Grains weight, g							
WHD 948 (dl)	43.16	3	39.63	1	41.39	1	40.71	2	35.70	4	38.20	3
MACS 6478	42.51	5	38.60	4	40.56	4	39.42	5	36.22	2	37.82	4
MACS 6222 (c)	42.60	4	37.17	6	39.89	6	39.31	6	36.11	3	37.71	6
NIDW 295 (dc)	38.52	7	35.56	7	37.04	7	39.93	4	37.81	1	38.87	1
UAS 428 (dc)	44.02	1	38.73	3	41.38	2	40.89	1	35.56	5	38.23	2
UAS 334	43.17	2	38.82	2	41.00	3	38.91	7	35.53	6	37.22	7
GW 322 (c)	41.67	6	38.59	5	40.13	5	40.27	3	35.33	7	37.80	5
Mean	42.24		38.16		40.20		39.92		36.04		37.98	
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.	
Sowing (A)	N.S.		1.02		6.21		*		0.48		2.93	
Variety (B)	N.S.		1.60		4.68		N.S.		0.47		1.37	
B within A	N.S.		2.27		6.62		N.S.		0.66		1.94	
A within B			2.33		6.81				0.78		2.28	
Date of sowing:	07.11.2012		27.11.2012		Date of harvesting:		15.03.2013		25.03.2013			

Table 5.1.2. Peninsular Zone		IR-TS-TAD-DOS		Niphad		2012-13						
Variety	Sowing time			Mean	Rk	Sowing time			Mean	Rk		
	Timely	Rk	Late			Rk	Timely	Rk			Late	Rk
Yield, q/ha					Earhead/sq.m.							
WHD 948 (dl)	39.37	7	35.39	2	37.38	5	403	4	388	6	396	5
MACS 6478	40.90	4	32.03	7	36.47	7	405	3	396	3	401	3
MACS 6222 (c)	42.20	2	34.79	3	38.50	1	400	5	392	5	396	4
NIDW 295 (dc)	41.42	3	32.81	6	37.11	6	411	1	397	2	404	2
UAS 428 (dc)	40.36	6	36.05	1	38.21	2	391	6	396	3	394	6
UAS 334	40.57	5	34.47	4	37.52	4	408	2	401	1	404	1
GW 322 (c)	42.42	1	32.84	5	37.63	3	390	7	384	7	387	7
Mean	41.03		34.06		37.55		401		394		397	
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.	
Sowing (A)	**		0.20		1.20		*		0.89		5.39	
Variety (B)	N.S.		1.08		3.14		**		2.87		8.39	
B within A	N.S.		1.52		4.45		N.S.		4.06		11.86	
A within B			1.42		4.16				3.86		11.28	
Grains/earhead					1000 Grains weight, g							
WHD 948 (dl)	18.63	7	17.87	7	18.25	7	52.39	1	50.99	1	51.69	1
MACS 6478	23.50	4	19.09	5	21.29	5	42.95	4	42.36	4	42.66	4
MACS 6222 (c)	25.00	2	21.40	2	23.20	2	42.21	5	41.45	5	41.83	5
NIDW 295 (dc)	22.27	6	18.93	6	20.60	6	45.30	2	43.69	3	44.50	2
UAS 428 (dc)	23.19	5	20.77	4	21.98	4	44.56	3	43.75	2	44.16	3
UAS 334	23.65	3	20.79	3	22.22	3	42.04	6	41.42	6	41.73	6
GW 322 (c)	27.66	1	22.13	1	24.89	1	39.33	7	38.62	7	38.98	7
Mean	23.41		20.14		21.78		44.11		43.18		43.65	
	F. Test		S.E.m		C.D.		F. Test		S.E.m		C.D.	
Sowing (A)	**		0.05		0.29		*		0.14		0.86	
Variety (B)	**		0.61		1.78		**		0.16		0.46	
B within A	N.S.		0.86		2.52		N.S.		0.22		0.65	
A within B			0.80		2.34				0.25		0.73	
Date of sowing:	07.11.2012		30.11.2012		Date of harvesting:		03.03.2013		24.03.2013			