ADVANCE VARIETAL TRIALS

I. Grain Appearance

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IV. Sedimentation Value

V. Grain Hardness Index

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Table 1: Grain appearance score (Max-10) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	5.6	5.8	5.6	**5.7**
2	VL2041(I) (C)	102	6.0	6.2	5.8	**6.0**
3	HPW349 (C)	105	5.6	5.6	5.4	**5.5**
4	VL892 (C)	107	6.0	6.0	5.8	**5.9**
5	HS562 (C)	109	5.8	6.2	6.0	**6.0**
6	VL3028	103	5.2	5.8	5.8	**5.6**
7	HPW484	104	5.6	5.8	6.4	**5.9**
8	HS691	106	6.0	6.4	6.2	**6.2**
9	HS692	108	5.6	6.4	6.0	**6.0**
Mean			**5.7**	**6.0**	**5.9**	**5.9**

Table 2: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	76.6	81.8	73.7	**77.4**
2	VL2041(I) (C)	102	77.6	79.3	77.2	**78.0**
3	HPW349 (C)	105	77.2	82.3	74.0	**77.8**
4	VL892 (C)	107	75.9	80.8	75.1	**77.3**
5	HS562 (C)	109	75.8	80.9	78.1	**78.3**
6	VL3028	103	72.2	80.5	73.0	**75.2**
7	HPW484	104	73.4	79.1	75.0	**75.8**
8	HS691	106	78.6	80.9	77.9	**79.1**
9	HS692	108	76.1	81.7	75.4	**77.7**
Mean			**75.9**	**80.8**	**75.5**	**77.4**

Table 3: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	11.9	9.1	12.4	**11.1**
2	VL2041(I) (C)	102	11.3	7.7	10.3	**9.7**
3	HPW349 (C)	105	12.1	9.4	11.1	**10.9**
4	VL892 (C)	107	12.7	9.8	11.7	**11.4**
5	HS562 (C)	109	11.9	8.6	10.9	**10.5**
6	VL3028	103	11.6	9.5	11.1	**10.7**
7	HPW484	104	11.1	8.6	10.9	**10.2**
8	HS691	106	11.7	9.8	11.0	**10.8**
	HS692	108	13.2	10.5	12.0	**11.9**
Mean			**11.9**	**9.2**	**11.3**	**10.8**

Table 4: Sedimentation value (ml) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	38	35	50	**41**
2	VL2041(I) (C)	102	51	36	54	**47**
3	HPW349 (C)	105	57	45	67	**56**
4	VL892 (C)	107	40	34	43	**39**
5	HS562 (C)	109	42	42	55	**47**
6	VL3028	103	42	39	53	**44**
7	HPW484	104	48	34	53	**45**
8	HS691	106	44	39	46	**43**
9	HS692	108	40	38	43	**40**
Mean			**45**	**38**	**52**	**45**

Table 5: Phenol test (Max-10) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	7.5	5.0	7.0	**6.5**
2	VL2041(I) (C)	102	3.0	3.0	3.0	**3.0**
3	HPW349 (C)	105	4.5	5.0	5.0	**4.8**
4	VL892 (C)	107	4.0	5.5	6.0	**5.2**
5	HS562 (C)	109	7.0	5.0	7.0	**6.3**
6	VL3028	103	4.0	4.5	4.0	**4.2**
7	HPW484	104	3.0	3.5	3.5	**3.3**
8	HS691	106	5.5	4.5	5.0	**5.0**
9	HS692	108	2.5	3.5	2.0	**2.7**
Mean			**4.6**	**4.4**	**4.7**	**4.6**

Table 6: Hardness index of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101		69.9		**69.9**
2	VL2041(I) (C)	102		27.7		**27.7**
3	HPW349 (C)	105		70.5		**70.5**
4	VL892 (C)	107		73.4		**73.4**
5	HS562 (C)	109		78.2		**78.2**
6	VL3028	103		59.4		**59.4**
7	HPW484	104		57.0		**57.0**
8	HS691	106		83.6		**83.6**
9	HS692	108		67.3		**67.3**
Mean				**65.2**		**65.2**

Table 7: Grain iron content (ppm) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	41.8	37.6	35.6	**38.3**
2	VL2041(I) (C)	102	39.7	38.2	40.1	**39.3**
3	HPW349 (C)	105	34.5	35.1	36.3	**35.3**
4	VL892 (C)	107	39.6	42.2	39.9	**40.6**
5	HS562 (C)	109	35.9	37.1	39.2	**37.4**
6	VL3028	103	42.8	40.2	40.9	**41.3**
7	HPW484	104	42.9	38.9	41.8	**41.2**
8	HS691	106	42.5	38.2	45	**41.9**
9	HS692	108	39.9	39.8	42.5	**40.7**
Mean			**40.0**	**38.6**	**40.1**	**39.6**

Table 8: Grain zinc content (ppm) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) AVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	VL907 (C)	101	39.9	39.1	27.8	**35.6**
2	VL2041(I) (C)	102	41.4	34.4	25.1	**33.6**
3	HPW349 (C)	105	37.3	37.1	23.0	**32.5**
4	VL892 (C)	107	45.8	39.2	33.3	**39.4**
5	HS562 (C)	109	36.9	31.7	26.4	**31.7**
6	VL3028	103	41.0	39.2	23.9	**34.7**
7	HPW484	104	35.6	32.3	23.8	**30.6**
8	HS691	106	42.5	41.1	32.6	**38.7**
9	HS692	108	45.7	45.1	29.8	**40.2**
Mean			**40.7**	**37.7**	**27.3**	**35.2**

Table 9: Grain appearance score (Max-10) of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	6.0	6.6	6.2	6.4	6.4	5.6	**6.2**
2	HD2967 (C)	103	5.6	6.6	5.0	6.2	6.0	5.6	**5.8**
3	DBW187 (C)	104	5.0	5.8	5.6	6.2	6.6	5.4	**5.8**
4	HD3086 (C)	105	5.4	6.2	5.8	6.6	6.0	5.4	**5.9**
5	PBW826(I) (C)	108	6.2	6.0	5.6	6.0	6.8	5.4	**6.0**
6	DBW222 (C)	110	5.4	6.0	5.6	6.2	6.4	5.4	**5.8**
7	HD3470	101	5.8	5.8	5.8	6.0	6.6	5.8	**6.0**
8	UP3102	102	5.4	5.6	5.2	5.4	6.2	5.4	**5.5**
9	PBW887	106	5.6	6.2	6.0	6.2	6.4	5.4	**6.0**
10	HI1668	107	5.8	6.2	6.0	6.8	7.4	5.4	**6.3**
11	DBW386	109	6.2	6.4	5.6	6.4	6.6	5.8	**6.2**
12	PBW889	111	5.6	6.4	6.0	6.6	6.2	5.8	**6.1**
13	HD3471	112	5.6	6.0	6.0	6.4	6.4	5.2	**5.9**
Mean			**5.7**	**6.1**	**5.7**	**6.3**	**6.5**	**5.5**	**6.0**
Irrigated Late Sown									
1	DBW173 (C)	201	5.6	5.4	5.6	6.0	6.0	5.8	**5.7**
2	HD3059 (C)	203	5.2	5.6	5.6	6.0	5.6	5.4	**5.6**
3	JKW261 (C)	204	5.4	5.6	5.6	5.6	5.2	5.2	**5.4**
4	PBW771 (C)	207	5.6	5.6	5.8	5.8	6.4	5.6	**5.8**
5	K2108	202	5.4	5.8	5.4	6.2	5.6	5.4	**5.6**
6	PBW893	205	5.8	5.8	5.8	5.8	6.6	5.8	**5.9**
7	HD3428	206	5.6	5.8	5.6	6.4	6.2	5.8	**5.9**
Mean			**5.5**	**5.7**	**5.6**	**6.0**	**5.9**	**5.6**	**5.7**
Restricted Irrigated Timely Sown									
1	WH1402*	305	6.0	6.4	6.0	5.6	6.2	5.8	**6.0**
2	DBW296 (C)	302	5.8	6.6	5.8	5.6	6.4	5.4	**5.9**
3	HI1654(I) (C)	306	6.4	5.8	5.6	5.4	6.6	5.6	**5.9**
4	HD3369(I) (C)	307	6.2	5.8	6.0	5.8	6.4	5.8	**6.0**
5	PBW644 (C)	308	6.2	6.0	6.0	6.0	6.4	5.4	**6.0**
6	HI1653(I) (C)	311	6.6	6.4	6.4	5.6	7.0	6.2	**6.4**
7	NIAW3170 (C)	312	6.4	6.0	5.8	5.8	6.8	5.6	**6.1**
8	UP3111	301	5.6	6.0	6.4	5.4	6.8	5.8	**6.0**
9	WH1311	303	6.4	5.8	5.6	5.6	6.6	5.4	**5.9**
10	DBW397	304	6.2	6.6	5.6	5.8	6.8	5.6	**6.1**
11	PBW899	309	5.8	5.8	6.2	5.6	6.4	5.4	**5.9**
12	DBW398	310	6.4	5.8	6.2	6.4	6.8	5.6	**6.2**
Mean			**6.2**	**6.1**	**6.0**	**5.7**	**6.6**	**5.6**	**6.0**

Table 10: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	77.0	79.2	78.2	81.6	78.1	73.1	**77.9**
2	HD2967 (C)	103	75.3	79.8	75.5	80.2	77.5	72.2	**76.8**
3	DBW187 (C)	104	72.8	76.2	75.0	80.2	78.2	71.4	**75.6**
4	HD3086 (C)	105	76.6	78.5	79.8	80.6	77.9	70.5	**77.3**
5	PBW826(I) (C)	108	75.8	80.3	79.3	80.6	79.2	72.4	**77.9**
6	DBW222 (C)	110	76.1	77.6	76.4	79.0	76.6	71.0	**76.1**
7	HD3470	101	78.5	78.8	78.6	80.7	80.3	74.9	**78.6**
8	UP3102	102	76.9	79.7	80.2	80.9	79.4	71.6	**78.1**
9	PBW887	106	75.1	77.2	78.2	79.3	79.1	71.5	**76.7**
10	HI1668	107	75.1	76.4	76.1	79.7	78.2	68.2	**75.6**
11	DBW386	109	78.4	80.1	78.8	81.2	79.4	76.4	**79.1**
12	PBW889	111	76.9	78.3	77.6	81.8	80.0	75.0	**78.3**
13	HD3471	112	74.9	76.9	76.3	79.6	76.5	70.3	**75.8**
Mean			**76.1**	**78.4**	**77.7**	**80.4**	**78.5**	**72.2**	**77.2**
Irrigated Late Sown									
1	DBW173 (C)	201	73.3	70.9	71.2	79.9	72.9	75.2	**73.9**
2	HD3059 (C)	203	73.0	71.3	71.8	80.7	74.0	74.5	**74.2**
3	JKW261 (C)	204	73.6	71.1	72.7	79.5	69.9	74.4	**73.5**
4	PBW771 (C)	207	73.7	68.0	74.3	80.1	75.5	74.0	**74.3**
5	K2108	202	74.5	72.0	72.0	79.3	73.0	70.2	**73.5**
6	PBW893	205	78.2	73.5	76.5	82.1	77.7	79.3	**77.9**
7	HD3428	206	76.4	72.1	72.9	82.0	74.3	76.9	**75.8**
Mean			**74.7**	**71.3**	**73.1**	**80.5**	**73.9**	**74.9**	**74.7**
Restricted Irrigated Timely Sown									
1	WH1402*	305	76.9	78.9	76.3	81.7	80.2	71.9	**77.7**
2	DBW296 (C)	302	77.6	78.5	74.6	79.4	79.0	68.4	**76.3**
3	HI1654(I) (C)	306	78.0	79.2	73.5	80.1	79.8	73.5	**77.4**
4	HD3369(I) (C)	307	78.9	77.9	75.7	79.4	79.5	72.0	**77.2**
5	PBW644 (C)	308	76.8	78.4	74.6	79.6	78.6	68.8	**76.1**
6	HI1653(I) (C)	311	77.1	75.9	74.1	78.8	77.7	72.0	**75.9**
7	NIAW3170 (C)	312	73.6	75.4	71.5	78.0	76.1	68.0	**73.8**
8	UP3111	301	76.2	76.3	74.3	77.7	77.5	70.8	**75.5**
9	WH1311	303	76.5	77.3	73.1	79.5	78.2	71.8	**76.1**
10	DBW397	304	78.5	79.1	75.3	80.7	78.9	71.5	**77.3**
11	PBW899	309	75.5	78.4	74.2	78.0	77.4	67.2	**75.1**
12	DBW398	310	72.7	75.2	71.0	77.2	76.2	66.0	**73.1**
Mean			**76.5**	**77.5**	**74.0**	**79.2**	**78.3**	**70.2**	**75.9**

Table 11: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	11.7	10.9	12.6	9.1	11.4	11.7	**11.2**
2	HD2967 (C)	103	12.1	11.3	13.7	8.7	12.5	11.7	**11.6**
3	DBW187 (C)	104	12.4	12.5	13.5	9.2	11.3	12.0	**11.8**
4	HD3086 (C)	105	12.9	12.0	13.8	9.7	12.2	13.1	**12.3**
5	PBW826(I) (C)	108	10.4	10.1	12.4	8.5	10.6	13.4	**10.9**
6	DBW222 (C)	110	11.2	10.6	12.5	9.3	10.8	12.6	**11.1**
7	HD3470	101	11.9	11.5	12.6	9.4	10.7	11.9	**11.3**
8	UP3102	102	12.3	11.1	13.1	8.8	11.5	12.7	**11.6**
9	PBW887	106	12.6	11.6	14.0	7.7	11.6	13.0	**11.7**
10	HI1668	107	11.7	10.1	13.4	8.8	11.2	13.9	**11.5**
11	DBW386	109	10.9	10.2	12.5	8.1	11.6	11.7	**10.8**
12	PBW889	111	12.3	11.6	13.5	10.3	12.0	12.3	**12.0**
13	HD3471	112	11.8	10.3	13.5	8.9	11.9	13.0	**11.6**
Mean			**11.9**	**11.1**	**13.2**	**9.0**	**11.5**	**12.5**	**11.5**
Irrigated Late Sown									
1	DBW173 (C)	201	12.0	12.9	13.3	11.4	13.3	15.2	**13.0**
2	HD3059 (C)	203	12.5	12.2	13.2	11.5	12.9	15.3	**13.0**
3	JKW261 (C)	204	10.3	11.5	12.2	9.8	11.8	13.9	**11.6**
4	PBW771 (C)	207	11.6	11.1	13.5	12.1	12.4	15.7	**12.7**
5	K2108	202	12.0	11.7	13.7	11.1	13.2	16.3	**13.0**
6	PBW893	205	12.0	13.5	14.6	12.5	13.6	16.3	**14.0**
7	HD3428	206	12.3	11.5	13.9	11.3	12.9	14.9	**12.8**
Mean			**11.8**	**12.0**	**13.7**	**11.4**	**12.9**	**15.4**	**12.9**
Restricted Irrigated Timely Sown									
1	WH1402*	305	11.3	11.6	12.2	8.3	10.4	13.9	**11.3**
2	DBW296 (C)	302	11.6	10.9	11.7	9.3	10.5	13.6	**11.3**
3	HI1654(I) (C)	306	11.5	10.3	13.9	9.9	10.0	13.1	**11.5**
4	HD3369(I) (C)	307	11.7	10.5	13.1	9.3	10.1	13.0	**11.3**
5	PBW644 (C)	308	11.1	10.3	11.7	8.7	10.0	13.9	**10.9**
6	HI1653(I) (C)	311	11.5	11.9	12.3	9.2	10.8	13.1	**11.4**
7	NIAW3170 (C)	312	12.1	11.3	12.7	10.4	11.0	13.2	**11.8**
8	UP3111	301	11.2	10.8	10.6	9.4	10.4	12.3	**10.8**
9	WH1311	303	11.3	11.1	12.5	8.5	10.2	12.6	**11.0**
10	DBW397	304	12.3	11.5	13.3	9.4	11.3	14.5	**12.1**
11	PBW899	309	11.6	12.4	11.8	9.3	10.5	15.0	**11.8**
12	DBW398	310	11.7	11.0	12.2	9.0	9.9	13.8	**11.3**
Mean			**11.6**	**11.1**	**12.3**	**9.2**	**10.4**	**13.5**	**11.4**

Table 12: Sedimentation value (ml) of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	53	61	64	50	58	65	**59**
2	HD2967 (C)	103	62	64	63	48	67	60	**61**
3	DBW187 (C)	104	72	74	73	53	73	71	**69**
4	HD3086 (C)	105	70	67	65	50	71	69	**65**
5	PBW826(I) (C)	108	52	60	69	50	56	70	**60**
6	DBW222 (C)	110	57	60	69	56	60	67	**61**
7	HD3470	101	65	62	68	47	62	60	**61**
8	UP3102	102	67	67	71	48	60	58	**62**
9	PBW887	106	67	70	69	46	71	70	**65**
10	HI1668	107	64	63	73	56	71	64	**65**
11	DBW386	109	53	54	71	49	65	60	**59**
12	PBW889	111	63	59	69	51	68	67	**63**
13	HD3471	112	70	61	71	59	68	67	**66**
Mean			**63**	**63**	**69**	**51**	**65**	**65**	**63**
Irrigated Late Sown									
1	DBW173 (C)	201	65	70	69	66	67	61	**66**
2	HD3059 (C)	203	61	63	65	67	66	68	**65**
3	JKW261 (C)	204	47	55	55	50	55	57	**53**
4	PBW771 (C)	207	38	37	39	42	38	46	**40**
5	K2108	202	58	66	65	60	66	59	**62**
6	PBW893	205	60	65	57	59	60	55	**59**
7	HD3428	206	55	52	63	57	65	65	**59**
Mean			**55**	**58**	**59**	**57**	**60**	**59**	**58**
Restricted Irrigated Timely Sown									
1	WH1402*	305	63	69	73	54	66	71	**66**
2	DBW296 (C)	302	55	53	57	52	53	70	**57**
3	HI1654(I) (C)	306	67	55	73	52	52	71	**61**
4	HD3369(I) (C)	307	73	67	73	63	70	72	**70**
5	PBW644 (C)	308	55	49	67	46	47	64	**55**
6	HI1653(I) (C)	311	71	67	73	57	58	73	**67**
7	NIAW3170 (C)	312	54	49	60	55	48	72	**56**
8	UP3111	301	52	53	57	48	57	67	**56**
9	WH1311	303	69	60	70	44	62	68	**62**
10	DBW397	304	67	58	70	51	63	68	**63**
11	PBW899	309	50	45	61	48	47	58	**51**
12	DBW398	310	64	52	71	54	50	67	**60**
Mean			**62**	**56**	**67**	**52**	**56**	**68**	**60**

Table 13: Phenol test (Max-10) of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	6.5	6.0	6.5	6.0	6.0	6.5	**6.3**
2	HD2967 (C)	103	5.5	7.0	6.0	5.5	5.0	6.5	**5.9**
3	DBW187 (C)	104	7.5	7.5	7.5	7.5	7.0	9.0	**7.7**
4	HD3086 (C)	105	7.0	7.0	6.5	7.0	6.5	8.0	**7.0**
5	PBW826(I) (C)	108	7.5	7.5	7.0	6.0	6.5	9.0	**7.3**
6	DBW222 (C)	110	8.0	6.5	6.5	5.5	6.0	7.5	**6.7**
7	HD3470	101	6.5	7.5	7.0	6.5	6.0	7.5	**6.8**
8	UP3102	102	6.5	8.0	7.5	6.0	6.5	6.5	**6.8**
9	PBW887	106	7.0	7.5	7.0	7.5	7.0	7.0	**7.2**
10	HI1668	107	7.5	7.0	7.0	7.0	6.5	8.5	**7.3**
11	DBW386	109	7.0	7.0	6.5	6.5	6.0	7.0	**6.7**
12	PBW889	111	4.0	5.0	4.5	3.5	4.5	7.0	**4.8**
13	HD3471	112	8.0	7.5	8.0	7.5	6.0	9.0	**7.7**
Mean			**6.8**	**7.0**	**6.7**	**6.3**	**6.1**	**7.6**	**6.8**
Irrigated Late Sown									
1	DBW173 (C)	201	6.5	6.0	6.0	6.0	5.5	6.0	**6.0**
2	HD3059 (C)	203	7.0	6.5	5.5	5.5	5.5	9.0	**6.5**
3	JKW261 (C)	204	7.0	6.0	5.0	5.0	5.0	7.0	**5.8**
4	PBW771 (C)	207	6.5	6.0	5.5	5.0	5.5	7.0	**5.9**
5	K2108	202	6.0	6.0	5.5	5.0	5.0	7.0	**5.8**
6	PBW893	205	7.0	7.5	5.5	5.5	5.0	7.0	**6.3**
7	HD3428	206	6.5	6.0	5.0	5.5	5.0	5.0	**5.5**
Mean			**6.6**	**6.3**	**5.4**	**5.4**	**5.2**	**6.9**	**6.0**
Restricted Irrigated Timely Sown									
1	WH1402*	305	7.0	7.0	7.0	5.0	6.0	5.0	**6.2**
2	DBW296 (C)	302	6.0	6.0	6.0	5.5	5.0	8.0	**6.1**
3	HI1654(I) (C)	306	6.5	7.0	7.0	5.5	5.0	6.0	**6.2**
4	HD3369(I) (C)	307	5.5	6.5	6.0	5.5	6.5	7.5	**6.3**
5	PBW644 (C)	308	7.0	6.5	5.5	6.0	6.0	8.0	**6.5**
6	HI1653(I) (C)	311	7.5	8.0	8.5	6.5	6.5	8.0	**7.5**
7	NIAW3170 (C)	312	7.5	7.5	7.0	6.5	6.0	6.0	**6.8**
8	UP3111	301	6.5	7.0	8.5	6.0	5.5	7.5	**6.8**
9	WH1311	303	6.0	7.0	6.5	5.5	5.5	6.5	**6.2**
10	DBW397	304	7.5	7.5	8.0	6.0	6.0	9.0	**7.3**
11	PBW899	309	7.0	7.5	5.5	6.0	5.5	7.5	**6.5**
12	DBW398	310	4.0	5.0	3.5	3.0	4.5	3.5	**3.9**
Mean			**6.5**	**6.9**	**6.6**	**5.6**	**5.7**	**6.9**	**6.3**

Table 14: Hardness index of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113					69		69
2	HD2967 (C)	103					81		81
3	DBW187 (C)	104					68		68
4	HD3086 (C)	105					75		75
5	PBW826(I) (C)	108					69		69
6	DBW222 (C)	110					80		80
7	HD3470	101					68		68
8	UP3102	102					79		79
9	PBW887	106					60		60
10	HI1668	107					66		66
11	DBW386	109					72		72
12	PBW889	111					66		66
13	HD3471	112					74		74
Mean							**71**		**71**
Irrigated Late Sown									
1	DBW173 (C)	201					64		64
2	HD3059 (C)	203					65		65
3	JKW261 (C)	204					66		66
4	PBW771 (C)	207					77		77
5	K2108	202					62		62
6	PBW893	205					60		60
7	HD3428	206					69		69
Mean							**66**		**66**
Restricted Irrigated Timely Sown									
1	WH1402*	305					64		64
2	DBW296 (C)	302					29		29
3	HI1654(I) (C)	306					34		34
4	HD3369(I) (C)	307					56		56
5	PBW644 (C)	308					75		75
6	HI1653(I) (C)	311					61		61
7	NIAW3170 (C)	312					29		29
8	UP3111	301					54		54
9	WH1311	303					61		61
10	DBW397	304					65		65
11	PBW899	309					69		69
12	DBW398	310					48		48
Mean							**54**		**54**

Table 15: Grain iron content (ppm) of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	36.5	42.3	61.8	33.6	33.3	39.2	**41.1**
2	HD2967 (C)	103	40.1	37.9	39.2	33	38.7	41.3	**38.4**
3	DBW187 (C)	104	38.8	37.8	42.0	30.7	35.5	41.8	**37.8**
4	HD3086 (C)	105	34.8	38.5	40.7	33.8	39.0	39.1	**37.7**
5	PBW826(I) (C)	108	36.8	36.2	43.6	33.1	33.0	40.8	**37.3**
6	DBW222 (C)	110	29.4	35.7	38.7	28.7	35.0	40.5	**34.7**
7	HD3470	101	35.3	37.9	54.4	29.5	31.3	41.7	**38.4**
8	UP3102	102	33.4	40.1	35.4	39.8	39.0	39.9	**37.9**
9	PBW887	106	40.9	39.7	45.5	31.2	42.4	37.4	**39.5**
10	HI1668	107	31.6	35.9	41.2	36.9	37.5	40.0	**37.2**
11	DBW386	109	35.8	34.0	44.1	35.9	41.1	39.8	**38.5**
12	PBW889	111	34.9	41.5	58.6	36.5	38.3	39.9	**41.6**
13	HD3471	112	40.2	38.5	50.0	30.3	35.4	41.0	**39.2**
Mean			**36.0**	**38.2**	**45.8**	**33.3**	**36.9**	**40.2**	**38.4**
Irrigated Late Sown									
1	DBW173 (C)	201	36.7	42.3	39.7	34.6	40.6	40.4	**39.1**
2	HD3059 (C)	203	31.8	35.3	38.2	36.5	36.5	43.6	**37.0**
3	JKW261 (C)	204	34.7	38.7	41.2	35.0	37.6	40.4	**37.9**
4	PBW771 (C)	207	37.1	36.9	44.0	35.3	41.8	41.7	**39.5**
5	K2108	202	30.0	45.5	49.8	36.7	35.1	41.0	**39.7**
6	PBW893	205	35.4	41.9	46.5	39.6	37.8	44.6	**41.0**
7	HD3428	206	42.5	42.3	40.2	37.4	41.4	42.1	**41.0**
Mean			**35.5**	**40.4**	**42.8**	**36.4**	**38.7**	**42.0**	**39.3**
Restricted Irrigated Timely Sown									
1	WH1402*	305	37.3	36.2	35.7	36.1	39.2	41.3	**37.6**
2	DBW296 (C)	302	37.6	45.7	40.9	33.4	40.6	47.8	**41.0**
3	HI1654(I) (C)	306	35.3	37.5	40.9	34.4	43.9	40.8	**38.8**
4	HD3369(I) (C)	307	35.9	40.0	51.5	33.8	48.4	44.2	**42.3**
5	PBW644 (C)	308	31.9	43.1	40.2	34.3	42.2	44.2	**39.3**
6	HI1653(I) (C)	311	36.8	41.0	39.4	36.8	42.0	37.3	**38.9**
7	NIAW3170 (C)	312	33.8	41.3	38.3	36.4	42.6	45.5	**39.7**
8	UP3111	301	31.8	37.3	39.6	31.7	37.3	38.5	**36.0**
9	WH1311	303	35.0	43.6	36.7	31.1	39.1	42.7	**38.0**
10	DBW397	304	41.1	39.9	35.5	34.7	45.2	47.2	**40.6**
11	PBW899	309	33.5	45.6	36.5	31.4	40.5	39.9	**37.9**
12	DBW398	310	30.6	40.8	38.1	33.8	41.9	42.7	**38.0**
Mean			**35.1**	**41.0**	**39.4**	**34.0**	**41.9**	**42.7**	**39.0**

Table 16: Grain zinc content (ppm) of *T. aestivum* genotypes in North Western Plains Zone (NWPZ) AVTs

S. No.	Entries	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
Irrigated Timely Sown									
1	HD3386*	113	44.9	31.6	59.5	38.9	30.6	45.4	**41.8**
2	HD2967 (C)	103	44.0	35.1	58.3	35.5	36.7	47.3	**42.8**
3	DBW187 (C)	104	41.9	26.6	47.6	30.9	29.1	39.3	**35.9**
4	HD3086 (C)	105	59.0	33.4	54.2	30.9	36.0	42.1	**42.6**
5	PBW826(I) (C)	108	60.5	34.5	58.1	33.8	33.1	54.3	**45.7**
6	DBW222 (C)	110	55.2	33.5	50.8	27.9	32.5	38.1	**39.7**
7	HD3470	101	52.0	31.3	53.1	32.4	30.8	46.9	**41.1**
8	UP3102	102	56.3	34.5	46.6	35.5	34.5	42.2	**41.6**
9	PBW887	106	55.6	32.1	64.4	33.6	35.8	45.8	**44.6**
10	HI1668	107	36.1	26.4	44.1	29.5	31.7	42.2	**35.0**
11	DBW386	109	57.7	29.4	53.7	33.4	33.5	41.6	**41.6**
12	PBW889	111	55.1	37.2	61.6	36.9	42.2	51.2	**47.4**
13	HD3471	112	44.6	27.6	46.5	28.9	32.7	39.6	**36.7**
Mean			**51.0**	**31.8**	**53.7**	**32.9**	**33.8**	**44.3**	**41.3**
Irrigated Late Sown									
1	DBW173 (C)	201	71.8	31.0	49.2	36.3	34.8	49.4	**40.1**
2	HD3059 (C)	203	67.2	28.3	51.3	45.4	32.7	50.8	**41.7**
3	JKW261 (C)	204	68.3	30.0	52.7	42.1	36.1	46.8	**41.5**
4	PBW771 (C)	207	88.8	32.6	61.3	51.5	45.0	50.2	**48.1**
5	K2108	202	67.5	31.2	56.3	42.6	34.1	47.0	**42.2**
6	PBW893	205	61.4	33.4	65.0	51.5	40.3	63.1	**50.7**
7	HD3428	206	72.9	29.7	58.6	44.8	33.1	52.1	**43.7**
Mean			**71.1***	**30.9**	**56.3**	**44.9**	**36.6**	**51.3**	**44.0**
Restricted Irrigated Timely Sown									
1	WH1402*	305	25.0	33.3	54.7	38.5	32.0	43.4	**37.8**
2	DBW296 (C)	302	28.0	33.6	57.0	33.1	33.0	47.9	**38.8**
3	HI1654(I) (C)	306	23.3	27.9	59.8	34.2	30.1	42.1	**36.2**
4	HD3369(I) (C)	307	28.2	34.6	56.4	33.7	38.6	47.5	**39.8**
5	PBW644 (C)	308	21.8	35.1	67.7	35.9	30.7	54.4	**40.9**
6	HI1653(I) (C)	311	21.8	30.3	53.5	31.5	25.4	34.7	**32.9**
7	NIAW3170 (C)	312	22.7	32.4	65.8	42.5	37.5	44.5	**40.9**
8	UP3111	301	22.5	20.7	59.2	34.9	33.0	38.3	**34.8**
9	WH1311	303	24.4	35.4	65.0	35.0	35.0	41.1	**39.3**
10	DBW397	304	31.5	36.0	59.6	35.2	34.5	45.6	**40.4**
11	PBW899	309	23.3	34.0	49.6	34.2	31.4	49.6	**37.0**
12	DBW398	310	23.3	35.1	61.3	37.8	34.2	49.3	**40.2**
Mean			**24.7**	**32.4**	**59.1**	**35.5**	**33.0**	**44.9**	**38.3**

*Exceptionally high values at Ludhiana under ILS condition and hence not used in overall mean

Table 17: Grain appearance score (Max-10) of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	6.2	6.0	5.4	5.2	**5.7**
2	PBW826(I) (C)	102	6.6	6.2	5.8	5.4	**6.0**
3	DBW187 (C)	104	6.2	5.8	6.0	5.2	**5.8**
4	HD3086 (C)	105	6.2	5.8	6.0	5.4	**5.9**
5	DBW222 (C)	107	6.2	6.0	5.6	5.4	**5.8**
6	HD2967 (C)	109	6.0	5.2	5.6	5.4	**5.6**
7	HD3249 (C)	110	6.6	5.6	5.8	5.4	**5.9**
8	HD3471	101	6.8	5.6	5.4	5.8	**5.9**
9	HD3470	103	6.4	5.8	5.6	5.4	**5.8**
10	DBW386	108	6.0	6.0	5.8	5.6	**5.9**
Mean			**6.3**	**5.8**	**5.7**	**5.4**	**5.8**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	5.6	5.2	6.2	5.4	**5.6**
2	HD3171 (C)	302	5.6	5.2	5.8	5.6	**5.6**
3	K1317 (C)	303	5.8	5.4	6.4	5.6	**5.8**
4	HD3293 (C)	304	6.2	5.4	5.8	5.8	**5.8**
5	DBW252 (C)	305	5.6	5.0	6.0	5.4	**5.5**
6	DBW398	306	6.0	5.0	6.0	5.4	**5.6**
Mean			**5.8**	**5.2**	**6.0**	**5.5**	**5.6**

Table 18: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	73.1	76.4	75.8	73.1	**74.6**
2	PBW826(I) (C)	102	75.6	75.8	79.4	74.0	**76.2**
3	DBW187 (C)	104	73.5	74.6	78.2	72.2	**74.6**
4	HD3086 (C)	105	73.6	76.3	79.6	71.8	**75.3**
5	DBW222 (C)	107	73.2	73.7	75.7	73.8	**74.1**
6	HD2967 (C)	109	73.2	72.9	77.1	73.1	**74.1**
7	HD3249 (C)	110	74.9	76.2	78.0	73.6	**75.7**
8	HD3471	101	75.5	75.1	76.6	74.6	**75.5**
9	HD3470	103	75.6	78.0	78.6	73.4	**76.4**
10	DBW386	108	75.2	76.4	78.4	75.2	**76.3**
Mean			**74.3**	**75.5**	**77.7**	**73.5**	**75.3**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	76.4	70.4	80.3	74.3	**75.4**
2	HD3171 (C)	302	76.4	69.8	78.4	74.6	**74.8**
3	K1317 (C)	303	79.2	73.5	81.0	75.4	**77.3**
4	HD3293 (C)	304	74.4	70.0	78.1	73.8	**74.1**
5	DBW252 (C)	305	75.6	71.1	78.7	73.1	**74.6**
6	DBW398	306	74.2	67.1	77.5	67.1	**71.5**
Mean			**76.0**	**70.3**	**79.0**	**73.1**	**74.6**

Table 19: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	12.0	11.2	13.0	10.8	**11.7**
2	PBW826(I) (C)	102	11.8	10.6	10.8	11.0	**11.1**
3	DBW187 (C)	104	12.1	11.3	11.9	10.9	**11.6**
4	HD3086 (C)	105	10.9	11.3	11.7	10.4	**11.1**
5	DBW222 (C)	107	11.4	11.1	11.2	10.9	**11.2**
6	HD2967 (C)	109	11.7	11.2	11.7	10.9	**11.4**
7	HD3249 (C)	110	11.5	10.9	11.1	10.5	**11.0**
8	HD3471	101	11.2	11.6	11.4	10.6	**11.2**
9	HD3470	103	11.0	11.1	11.3	10.1	**10.9**
10	DBW386	108	11.3	11.4	10.5	10.1	**10.8**
Mean			**11.5**	**11.2**	**11.5**	**10.6**	**11.2**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	11.9	12.1	11.3	10.8	**11.5**
2	HD3171 (C)	302	12.1	11.5	10.5	11.1	**11.3**
3	K1317 (C)	303	12.5	12.1	12.0	11.7	**12.1**
4	HD3293 (C)	304	11.2	11.9	11.0	10.5	**11.1**
5	DBW252 (C)	305	12.9	12.0	10.8	11.3	**11.8**
6	DBW398	306	10.8	12.2	9.5	11.1	**10.9**
Mean			**11.9**	**12.0**	**10.8**	**11.1**	**11.4**

Table 20: Sedimentation value (ml) of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	67	71	73	67	**70**
2	PBW826(I) (C)	102	60	69	69	71	**67**
3	DBW187 (C)	104	73	72	71	59	**69**
4	HD3086 (C)	105	58	68	70	63	**65**
5	DBW222 (C)	107	66	63	67	59	**64**
6	HD2967 (C)	109	62	56	68	59	**61**
7	HD3249 (C)	110	70	71	70	60	**68**
8	HD3471	101	72	68	72	63	**69**
9	HD3470	103	63	67	69	55	**63**
10	DBW386	108	58	65	63	55	**60**
Mean			**65**	**67**	**69**	**61**	**66**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	71	67	72	63	**69**
2	HD3171 (C)	302	67	69	67	65	**67**
3	K1317 (C)	303	50	52	53	52	**52**
4	HD3293 (C)	304	48	59	52	50	**52**
5	DBW252 (C)	305	71	70	68	67	**69**
6	DBW398	306	55	60	57	59	**58**
Mean			**60**	**63**	**62**	**59**	**61**

Table 21: Phenol test (Max-10) of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	7.5	8.5	6.0	5.0	**6.8**
2	PBW826(I) (C)	102	7.5	8.5	6.0	6.5	**7.1**
3	DBW187 (C)	104	8.5	8.0	7.0	5.0	**7.1**
4	HD3086 (C)	105	7.0	8.0	6.0	6.5	**6.9**
5	DBW222 (C)	107	6.5	8.0	5.0	5.5	**6.3**
6	HD2967 (C)	109	8.0	7.5	4.0	5.5	**6.3**
7	HD3249 (C)	110	8.0	8.5	7.0	5.0	**7.1**
8	HD3471	101	8.0	9.0	6.5	5.5	**7.3**
9	HD3470	103	8.0	8.5	6.5	5.0	**7.0**
10	DBW386	108	6.5	8.5	5.5	5.0	**6.4**
Mean			**7.6**	**8.3**	**6.0**	**5.5**	**6.8**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	7.5	8.5	6.0	5.5	**6.9**
2	HD3171 (C)	302	7.0	7.0	6.0	4.5	**6.1**
3	K1317 (C)	303	6.0	6.0	6.0	3.0	**5.3**
4	HD3293 (C)	304	7.0	8.0	3.5	5.0	**5.9**
5	DBW252 (C)	305	7.5	6.5	6.0	4.5	**6.1**
6	DBW398	306	5.5	5.0	3.0	3.0	**4.1**
Mean			**6.8**	**6.8**	**5.1**	**4.3**	**5.7**

Table 22: Hardness index of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	59				**59**
2	PBW826(I) (C)	102	59				**59**
3	DBW187 (C)	104	57				**57**
4	HD3086 (C)	105	55				**55**
5	DBW222 (C)	107	55				**55**
6	HD2967 (C)	109	57				**57**
7	HD3249 (C)	110	58				**58**
8	HD3471	101	57				**57**
9	HD3470	103	59				**59**
10	DBW386	108	52				**52**
Mean			**57**				**57**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	71				**71**
2	HD3171 (C)	302	64				**64**
3	K1317 (C)	303	73				**73**
4	HD3293 (C)	304	60				**60**
5	DBW252 (C)	305	77				**77**
6	DBW398	306	49				**49**
Mean			**65**				**65**

Table 23: Grain iron content (ppm) of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	38.2	33.0	34.7	44.5	**37.6**
2	PBW826(I) (C)	102	35.2	33.7	39.2	45.2	**38.3**
3	DBW187 (C)	104	36.5	34.9	36.7	42.3	**37.6**
4	HD3086 (C)	105	41.8	34.4	35.7	50.2	**40.5**
5	DBW222 (C)	107	39.0	31.0	37.4	45.8	**38.3**
6	HD2967 (C)	109	33.9	32.6	34.1	44.3	**36.2**
7	HD3249 (C)	110	36.0	35.4	38.4	51.4	**40.3**
8	HD3471	101	36.6	32.4	36.5	50.2	**38.9**
9	HD3470	103	35.2	34.9	38.6	48.8	**39.4**
10	DBW386	108	40.7	31.5	40.2	39.5	**38.0**
Mean			**37.3**	**33.4**	**37.2**	**46.2**	**38.5**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	54.4	52.5	37.2	48.3	**46.6**
2	HD3171 (C)	302	49.1	79.4	39.5	43.9	**44.2**
3	K1317 (C)	303	37.9	55.4	38.8	48.5	**41.7**
4	HD3293 (C)	304	48.8	66.7	32.9	58.2	**46.6**
5	DBW252 (C)	305	45.2	54.3	31.8	43.1	**40.0**
6	DBW398	306	39.4	76.3	35.7	45.4	**40.2**
Mean			**45.8**	**64.1***	**36.0**	**47.9**	**43.2**

***Fe content exceptionally high at Varanasi centre under RITS condition and hence not used in calculation of mean**

Table 24: Grain zinc content (ppm) of *T. aestivum* genotypes in North Eastern Plains Zone (NEPZ) AVTs

S. No.	Entries	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
Irrigated Timely Sown							
1	HD3388*	106	29.5	32.3	32.5	17.2	**27.9**
2	PBW826(I) (C)	102	28.7	33.3	33.6	17.2	**28.2**
3	DBW187 (C)	104	22.0	31.3	32.3	18.2	**26.0**
4	HD3086 (C)	105	26.5	33.9	38.6	15.2	**28.6**
5	DBW222 (C)	107	25.8	30.0	32.6	15.9	**26.1**
6	HD2967 (C)	109	28.2	33.1	30.3	18.5	**27.5**
7	HD3249 (C)	110	23.3	31.4	32.7	20.9	**27.1**
8	HD3471	101	23.6	31.3	36.0	15.4	**26.6**
9	HD3470	103	27.7	39.6	33.7	18.2	**29.8**
10	DBW386	108	27.7	32.9	42.2	19.9	**30.7**
Mean			**26.3**	**32.9**	**34.5**	**17.7**	**27.8**
Restricted Irrigated Timely Sown							
1	HI1612 (C)	301	39.4	44.4	38.5	24.7	**36.8**
2	HD3171 (C)	302	40.7	36.0	34.8	21.6	**33.3**
3	K1317 (C)	303	28.7	40.0	31.7	18.7	**29.8**
4	HD3293 (C)	304	36.3	36.4	32.4	23.9	**32.3**
5	DBW252 (C)	305	32.2	40.2	33.5	19.7	**31.4**
6	DBW398	306	33.3	35.8	30.5	19.7	**29.8**
Mean			**35.1**	**38.8**	**33.6**	**21.4**	**32.2**

Table 25: Grain appearance score (Max-10) of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	7.2	8.2	7.2	6.8	**7.4**
2	NWS2194*	104	7.0	7.4	6.8	6.2	**6.9**
3	HI1650(I) (C)	102	7.4	8.4	8.2	6.6	**7.7**
4	GW513 (C)	105	7.4	8.6	6.8	6.8	**7.4**
5	MACS6768(I) (C)	106	7.6	8.2	8.2	6.6	**7.7**
6	HI1636 (C)	109	7.8	8.2	8.4	6.6	**7.8**
7	GW322 (C)	110	7.0	8.0	6.8	6.4	**7.1**
8	HI1669	101	7.0	8.0	7.6	5.8	**7.1**
9	UAS3020	107	7.0	8.0	8.0	5.6	**7.2**
10	HI1670	108	6.8	8.2	8.0	5.8	**7.2**
Mean			**7.2**	**8.1**	**7.6**	**6.3**	**7.3**
Irrigated Late Sown							
1	CG1029 (C)	201	7.2	7.8	6.4	8.0	**7.4**
2	MP4010 (C)	202	6.2	6.4	6.4	6.4	**6.4**
3	HD2932 (C)	203	5.8	6.8	6.0	6.6	**6.3**
4	HI1634 (C)	209	6.2	7.0	7.6	7.0	**7.0**
5	HI1674	204	7.4	7.0	7.4	7.0	**7.2**
6	HI1673	205	6.0	6.6	7.2	6.6	**6.6**
7	HI1675	206	7.8	7.6	8.2	7.0	**7.7**
8	MP3557	207	7.2	6.4	7.8	6.6	**7.0**
9	AKAW5104	208	6.8	6.4	6.6	6.4	**6.6**
10	Filler	210	6.0	7.0	7.2	6.6	**6.7**
Mean			**6.7**	**6.9**	**7.1**	**6.8**	**6.9**
Restricted Irrigated Timely Sown							
1	DBW359*	302	8.6	8.4	8.0	7.2	**8.1**
2	CG1040*	306	7.8	8.0	7.8	6.4	**7.5**
3	MP3288 (C)	301	7.6	7.4	7.4	6.8	**7.3**
4	CG1036(I) (C)	304	7.8	8.0	7.2	6.8	**7.5**
5	HI1655(I) (C)	305	7.4	8.0	7.4	6.8	**7.4**
6	DBW110 (C)	308	7.6	7.8	8.0	6.4	**7.5**
7	DBW441	307	7.0	7.8	7.4	6.6	**7.2**
8	DBW442	303	6.8	7.6	7.4	6.2	**7.0**
Mean			**7.6**	**7.9**	**7.6**	**6.7**	**7.4**

Table 26: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	79.4	82.1	78.4	78.7	**79.7**
2	NWS2194*	104	77.7	80.4	76.1	75.9	**77.5**
3	HI1650(I) (C)	102	81.9	84.7	81.3	81.9	**82.5**
4	GW513 (C)	105	81.2	83.1	80.8	81.8	**81.7**
5	MACS6768(I) (C)	106	83.3	84.0	81.0	81.9	**82.6**
6	HI1636 (C)	109	78.8	82.0	79.0	79.6	**79.9**
7	GW322 (C)	110	79.5	81.6	78.6	79.3	**79.8**
8	HI1669	101	82.2	84.8	81.7	81.2	**82.5**
9	UAS3020	107	79.1	80.6	78.7	77.1	**78.9**
10	HI1670	108	83.3	84.6	83.6	82.5	**83.5**
Mean			**80.6**	**82.8**	**79.9**	**80.0**	**80.8**
Irrigated Late Sown							
1	CG1029 (C)	201	80.0	80.1	81.8	81.5	**80.9**
2	MP4010 (C)	202	77.3	79.2	82.6	79.4	**79.6**
3	HD2932 (C)	203	77.8	78.5	81.0	77.7	**78.8**
4	HI1634 (C)	209	76.5	80.0	82.6	81.3	**80.1**
5	HI1674	204	80.1	80.1	82.5	79.9	**80.7**
6	HI1673	205	76.4	79.2	82.7	79.1	**79.4**
7	HI1675	206	82.6	81.6	84.3	82.2	**82.7**
8	MP3557	207	77.9	79.1	82.0	80.5	**79.9**
9	AKAW5104	208	78.8	79.9	82.5	79.6	**80.2**
10	Filler	210	75.7	77.3	79.8	77.1	**77.5**
Mean			**78.3**	**79.5**	**82.2**	**79.8**	**80.0**
Restricted Irrigated Timely Sown							
1	DBW359*	302	83.2	83.9	82.6	83.4	**83.3**
2	CG1040*	306	77.6	82.0	77.8	79.6	**79.3**
3	MP3288 (C)	301	79.6	81.8	79.6	81.6	**80.7**
4	CG1036(I) (C)	304	79.5	83.4	79.6	81.1	**80.9**
5	HI1655(I) (C)	305	77.6	80.8	79.6	79.4	**79.4**
6	DBW110 (C)	308	77.9	81.7	78.3	79.8	**79.4**
7	DBW441	307	77.6	82.3	78.1	81.1	**79.8**
8	DBW442	303	76.7	81.0	79.1	80.7	**79.4**
Mean			**78.7**	**82.1**	**79.3**	**80.8**	**80.3**

Table 27: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	12.7	13.9	12.1	13.3	**13.0**
2	NWS2194*	104	11.8	12.8	11.7	12.1	**12.1**
3	HI1650(I) (C)	102	11.7	13.1	11.0	11.6	**11.8**
4	GW513 (C)	105	10.7	12.3	10.9	10.4	**11.1**
5	MACS6768(I) (C)	106	12.3	13.9	10.9	11.7	**12.2**
6	HI1636 (C)	109	11.6	12.5	11.3	11.8	**11.8**
7	GW322 (C)	110	11.6	11.6	10.8	10.7	**11.2**
8	HI1669	101	11.5	13.0	10.6	11.8	**11.7**
9	UAS3020	107	12.0	12.2	11.0	11.8	**11.8**
10	HI1670	108	11.7	12.8	11.0	11.6	**11.8**
Mean			**11.8**	**12.8**	**11.1**	**11.7**	**11.8**
Irrigated Late Sown							
1	CG1029 (C)	201	11.9	14.0	9.7	12.2	**11.9**
2	MP4010 (C)	202	12.1	14.4	10.2	12.5	**12.3**
3	HD2932 (C)	203	12.5	15.1	8.6	11.2	**11.9**
4	HI1634 (C)	209	12.2	13.5	10.5	12.9	**12.3**
5	HI1674	204	11.8	13.7	9.6	11.6	**11.7**
6	HI1673	205	11.9	12.7	9.3	12.0	**11.5**
7	HI1675	206	11.4	13.4	10.7	12.5	**12.0**
8	MP3557	207	12.6	14.6	9.4	13.2	**12.5**
9	AKAW5104	208	11.4	13.3	9.2	12.4	**11.6**
10	Filler	210	12.2	14.4	10.8	13.3	**12.7**
Mean			**12.0**	**13.9**	**9.8**	**12.4**	**12.0**
Restricted Irrigated Timely Sown							
1	DBW359*	302	11.3	13.2	10.5	9.0	**11.0**
2	CG1040*	306	12.0	12.4	10.9	10.1	**11.3**
3	MP3288 (C)	301	11.9	12.5	10.6	9.3	**11.1**
4	CG1036(I) (C)	304	11.5	13.2	9.8	9.3	**11.0**
5	HI1655(I) (C)	305	10.9	12.5	10.2	9.4	**10.8**
6	DBW110 (C)	308	11.7	13.1	11.2	10.2	**11.6**
7	DBW441	307	12.0	12.5	11.1	9.3	**11.2**
8	DBW442	303	12.4	12.8	10.3	9.2	**11.2**
Mean			**11.7**	**12.8**	**10.6**	**9.5**	**11.1**

Table 28: Sedimentation value (ml) of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	53	58	60	63	**59**
2	NWS2194*	104	66	69	70	72	**69**
3	HI1650(I) (C)	102	40	47	47	46	**45**
4	GW513 (C)	105	53	40	44	43	**45**
5	MACS6768(I) (C)	106	39	44	43	42	**42**
6	HI1636 (C)	109	45	44	46	46	**45**
7	GW322 (C)	110	41	35	43	42	**40**
8	HI1669	101	47	45	51	50	**48**
9	UAS3020	107	48	43	48	48	**47**
10	HI1670	108	48	52	50	53	**51**
Mean			**48**	**48**	**50**	**50**	**49**
Irrigated Late Sown							
1	CG1029 (C)	201	44	36	40	43	**41**
2	MP4010 (C)	202	45	40	44	47	**44**
3	HD2932 (C)	203	58	49	48	50	**51**
4	HI1634 (C)	209	53	46	46	54	**50**
5	HI1674	204	41	43	44	45	**43**
6	HI1673	205	48	43	45	46	**45**
7	HI1675	206	52	44	50	51	**49**
8	MP3557	207	70	63	55	71	**65**
9	AKAW5104	208	49	47	47	52	**49**
10	Filler	210	63	66	59	72	**65**
Mean			**52**	**48**	**48**	**53**	**50**
Restricted Irrigated Timely Sown							
1	DBW359*	302	46	46	42	50	**46**
2	CG1040*	306	54	59	53	51	**54**
3	MP3288 (C)	301	46	52	48	44	**47**
4	CG1036(I) (C)	304	61	73	50	54	**59**
5	HI1655(I) (C)	305	44	47	42	43	**44**
6	DBW110 (C)	308	53	61	52	60	**57**
7	DBW441	307	55	59	54	50	**54**
8	DBW442	303	62	61	50	48	**55**
Mean			**53**	**57**	**49**	**50**	**52**

Table 29: Phenol test (Max-10) of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	7.5	6.0	7.5	6.5	**6.9**
2	NWS2194*	104	7.0	6.5	6.5	6.0	**6.5**
3	HI1650(I) (C)	102	7.5	6.5	5.5	6.5	**6.5**
4	GW513 (C)	105	3.0	2.5	1.5	2.0	**2.3**
5	MACS6768(I) (C)	106	5.5	5.0	5.0	5.0	**5.1**
6	HI1636 (C)	109	4.5	4.5	3.5	3.5	**4.0**
7	GW322 (C)	110	5.0	5.0	4.0	7.0	**5.3**
8	HI1669	101	3.0	3.5	1.5	2.5	**2.6**
9	UAS3020	107	7.0	6.5	7.5	7.0	**7.0**
10	HI1670	108	3.5	3.5	1.5	1.5	**2.5**
Mean			**5.4**	**5.0**	**4.4**	**4.8**	**4.9**
Irrigated Late Sown							
1	CG1029 (C)	201	5.5	5.0	5.0	7.5	**5.8**
2	MP4010 (C)	202	5.0	4.5	4.5	5.0	**4.8**
3	HD2932 (C)	203	4.0	4.0	2.5	4.5	**3.8**
4	HI1634 (C)	209	5.5	6.0	4.5	6.5	**5.6**
5	HI1674	204	3.0	2.5	2.5	4.5	**3.1**
6	HI1673	205	6.5	5.5	4.5	6.0	**5.6**
7	HI1675	206	3.5	3.0	3.0	5.0	**3.6**
8	MP3557	207	4.0	4.5	4.0	6.0	**4.6**
9	AKAW5104	208	5.5	5.0	4.5	6.5	**5.4**
10	Filler	210	9.0	8.5	5.5	7.5	**7.6**
Mean			**5.2**	**4.9**	**4.1**	**5.9**	**5.0**
Restricted Irrigated Timely Sown							
1	DBW359*	302	2.5	2.0	1.0	4.5	**2.5**
2	CG1040*	306	7.0	6.0	7.0	6.0	**6.5**
3	MP3288 (C)	301	8.0	7.0	5.0	6.0	**6.5**
4	CG1036(I) (C)	304	3.5	3.0	2.0	4.0	**3.1**
5	HI1655(I) (C)	305	5.0	4.5	5.5	6.0	**5.3**
6	DBW110 (C)	308	5.0	4.5	7.0	6.5	**5.8**
7	DBW441	307	4.5	4.5	7.0	6.0	**5.5**
8	DBW442	303	6.0	5.0	7.0	6.0	**6.0**
Mean			**5.2**	**4.6**	**5.2**	**5.6**	**5.1**

Table 30: Hardness index of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103		77			**77**
2	NWS2194*	104		77			**77**
3	HI1650(I) (C)	102		82			**82**
4	GW513 (C)	105		78			**78**
5	MACS6768(I) (C)	106		82			**82**
6	HI1636 (C)	109		76			**76**
7	GW322 (C)	110		85			**85**
8	HI1669	101		78			**78**
9	UAS3020	107		87			**87**
10	HI1670	108		80			**80**
Mean				**80**			**80**
Irrigated Late Sown							
1	CG1029 (C)	201		79			**79**
2	MP4010 (C)	202		77			**77**
3	HD2932 (C)	203		73			**73**
4	HI1634 (C)	209		87			**87**
5	HI1674	204		75			**75**
6	HI1673	205		91			**91**
7	HI1675	206		78			**78**
8	MP3557	207		76			**76**
9	AKAW5104	208		88			**88**
10	Filler	210		80			**80**
Mean				**80**			**80**
Restricted Irrigated Timely Sown							
1	DBW359*	302		79			**79**
2	CG1040*	306		80			**80**
3	MP3288 (C)	301		86			**86**
4	CG1036(I) (C)	304		76			**76**
5	HI1655(I) (C)	305		85			**85**
6	DBW110 (C)	308		81			**81**
7	DBW441	307		70			**70**
8	DBW442	303		78			**78**
Mean				**79**			**79**

Table 31: Grain iron content (ppm) of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	39.2	43.5	39.3	34.9	**39.2**
2	NWS2194*	104	36.6	40.4	38.1	30.9	**36.5**
3	HI1650(I) (C)	102	38.9	41.2	36.2	30.8	**36.8**
4	GW513 (C)	105	36.4	35.2	35.3	29.6	**34.1**
5	MACS6768(I) (C)	106	36.8	44.6	38.0	39.4	**39.7**
6	HI1636 (C)	109	34.6	40.7	41.9	30.4	**36.9**
7	GW322 (C)	110	33.9	39.4	37.7	30.6	**35.4**
8	HI1669	101	36.2	37.3	39.7	31.6	**36.2**
9	UAS3020	107	36.2	41.8	39.3	31.6	**37.2**
10	HI1670	108	35.9	43.1	41.0	30.8	**37.7**
Mean			**36.5**	**40.7**	**38.7**	**32.1**	**37.0**
Irrigated Late Sown							
1	CG1029 (C)	201	30.3	43.6	39.2	39.6	**38.2**
2	MP4010 (C)	202	30.9	47.2	39.7	35.6	**38.4**
3	HD2932 (C)	203	35.8	40.2	38.1	35.4	**37.4**
4	HI1634 (C)	209	31.3	40.6	39.3	37.9	**37.3**
5	HI1674	204	32.8	43.4	42.9	38.1	**39.3**
6	HI1673	205	33.7	44.1	39.9	37.8	**38.9**
7	HI1675	206	33.9	43.2	45.7	42.0	**41.2**
8	MP3557	207	32.5	40.3	34.9	35.0	**35.7**
9	AKAW5104	208	30.8	37.7	42.9	39.5	**37.7**
10	Filler	210	30.3	43.2	41.7	34.4	**37.4**
Mean			**32.2**	**42.4**	**40.4**	**37.5**	**38.1**
Restricted Irrigated Timely Sown							
1	DBW359*	302	40.7	47.7	43.2	42.1	**43.4**
2	CG1040*	306	34.4	41.5	42.7	37.1	**38.9**
3	MP3288 (C)	301	35.3	36.1	40.9	38.6	**37.7**
4	CG1036(I) (C)	304	40.5	41.0	40.7	34.5	**39.2**
5	HI1655(I) (C)	305	38.5	40.2	37.8	36.9	**38.4**
6	DBW110 (C)	308	33.5	43.0	45.0	35.8	**39.3**
7	DBW441	307	42.5	43.1	43.1	36.2	**41.2**
8	DBW442	303	37.7	37.5	39.8	37.1	**38.0**
Mean			**37.9**	**41.3**	**41.7**	**37.3**	**39.5**

Table 32: Grain zinc content (ppm) of *T. aestivum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.Khera	Mean
Irrigated Timely Sown							
1	GW547*	103	46.3	46.6	39.3	37.9	**42.5**
2	NWS2194*	104	42.5	42.0	38.0	34.6	**39.3**
3	HI1650(I) (C)	102	40.0	39.3	33.4	38.2	**37.7**
4	GW513 (C)	105	43.4	34.4	34.9	31.8	**36.1**
5	MACS6768(I) (C)	106	50.6	42.2	36.3	47.7	**44.2**
6	HI1636 (C)	109	41.3	41.9	36.7	38.1	**39.5**
7	GW322 (C)	110	44.4	53.0	36.7	34.6	**42.2**
8	HI1669	101	45.5	44.2	39.4	33.1	**40.6**
9	UAS3020	107	50.1	40.9	39.8	40.2	**42.8**
10	HI1670	108	43.1	44.3	41.4	39.2	**42.0**
Mean			**44.7**	**42.9**	**37.6**	**37.5**	**40.7**
Irrigated Late Sown							
1	CG1029 (C)	201	41.3	43.0	34.0	42.7	**40.3**
2	MP4010 (C)	202	44.4	48.3	35.4	43.2	**42.8**
3	HD2932 (C)	203	46.4	42.1	34.1	36.5	**39.8**
4	HI1634 (C)	209	45.0	44.1	37.9	42.8	**42.5**
5	HI1674	204	46.1	43.8	36.3	44.9	**42.8**
6	HI1673	205	47.0	44.9	33.5	38.1	**40.9**
7	HI1675	206	49.6	44.3	37.3	48.6	**45.0**
8	MP3557	207	48.0	46.2	31.8	43.3	**42.3**
9	AKAW5104	208	47.4	42.1	40.2	42.1	**43.0**
10	Filler	210	41.7	38.7	32.8	34.4	**36.9**
Mean			**45.7**	**43.8**	**35.3**	**41.7**	**41.6**
Restricted Irrigated Timely Sown							
1	DBW359*	302	31.4	47.8	36.1	37.8	**38.3**
2	CG1040*	306	30.5	41.7	41.9	32.3	**36.6**
3	MP3288 (C)	301	32.7	39.5	35.6	38.4	**36.6**
4	CG1036(I) (C)	304	30.5	47.4	33.2	31.0	**35.5**
5	HI1655(I) (C)	305	31.9	48.0	36.7	31.5	**37.0**
6	DBW110 (C)	308	33.0	47.9	43.9	33.5	**39.6**
7	DBW441	307	33.5	43.7	42.7	29.5	**37.4**
8	DBW442	303	34.2	43.3	39.6	34.4	**37.9**
Mean			**32.2**	**44.9**	**38.7**	**33.6**	**37.3**

Table 33: Grain appearance score (Max-10) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	6.4	5.6	5.8	**5.9**
2	GW322 (C)	103	6.4	5.6	6.0	**6.0**
3	DBW187 (C)	116	6.2	5.6	6.0	**5.9**
4	MACS6222 (C)	118	6.2	6.0	6.2	**6.1**
5	PBW891	101	7.2	5.8	6.8	**6.6**
6	NIAW4153	102	6.6	6.4	7.0	**6.7**
7	HD3469	104	6.4	5.6	6.0	**6.0**
8	AKAW5100	105	7.0	5.8	6.2	**6.3**
9	DBW444	106	6.6	6.0	6.0	**6.2**
10	UAS3020	107	7.6	6.0	6.0	**6.5**
11	WH1306	109	7.2	5.8	6.4	**6.5**
12	MACS6809	110	7.0	5.6	6.0	**6.2**
13	AKAW5314	114	7.4	6.0	6.0	**6.5**
14	NIAW4183	115	6.4	6.4	7.2	**6.7**
15	PWU15	117	6.6	6.0	6.0	**6.2**
16	UAS3021	119	7.6	6.4	6.4	**6.8**
17	MP1386	120	6.8	5.4	6.4	**6.2**
18	NWS2222	121	6.8	5.4	5.8	**6.0**
19	MACS6811	122	7.0	6.0	6.0	**6.3**
20	DBW443	123	7.4	6.4	6.4	**6.7**
Mean			**6.8**	**5.9**	**6.2**	**6.3**
T. durum						
1	MACS4100(d)(I) (C)	111	7.2	5.6	5.6	**6.1**
2	MACS3949(d) (C)	113	6.8	6.8	6.6	**6.7**
3	HI8826(d)(I) (C)	124	7.8	6.6	6.8	**7.1**
4	HI8841(d)	108	8.0	6.0	6.2	**6.7**
Mean			**7.5**	**6.3**	**6.3**	**6.7**

Table 33 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	7.6	6.0	5.6	**6.4**
2	HD2932 (C)	204	7.4	5.6	5.4	**6.1**
3	RAJ4083 (C)	213	8.0	6.4	6.0	**6.8**
4	HI1633 (C)	223	7.6	5.8	6.2	**6.5**
5	MP1388	201	7.8	5.8	5.6	**6.4**
6	GW538	203	7.8	5.8	5.8	**6.5**
7	DBW395	205	7.6	6.0	6.0	**6.5**
8	MACS6805	206	7.4	5.4	5.6	**6.1**
9	HI1672	207	8.2	5.6	5.8	**6.5**
10	HI1674	208	8.0	5.6	6.4	**6.7**
11	UAS3023	209	6.6	5.6	4.8	**5.7**
12	AKAW5104	210	7.8	5.8	5.6	**6.4**
13	LOK79	211	7.8	6.2	6.2	**6.7**
14	HI1675	212	8.0	5.8	6.2	**6.7**
15	UAS3022	214	7.6	5.6	5.9	**6.4**
16	MP3557	215	6.6	6.0	5.8	**6.1**
17	NIAW4120	216	7.8	6.4	6.2	**6.8**
18	GW542	217	8.4	6.2	6.6	**7.1**
19	MP3556	218	6.6	5.6	6.2	**6.1**
20	PBW897	219	7.4	6.2	5.6	**6.4**
21	WH1310	220	6.4	6.2	5.4	**6.0**
22	HI1673	221	6.8	6.0	5.6	**6.1**
23	MACS6814	222	8.0	6.2	5.8	**6.7**
24	NIAW4114	224	7.6	6.0	6.2	**6.6**
25	DBW394	225	6.8	5.8	6.0	**6.2**
Mean			**7.5**	**5.9**	**5.9**	**6.4**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	5.4	5.8	6.8	**6.0**
2	DBW359*	306	6.0	6.0	6.6	**6.2**
3	HI1665*	307	6.4	6.2	6.4	**6.3**
4	NIAW3170 (C)	301	5.2	5.4	6.2	**5.6**
5	HI1605 (C)	310	5.8	5.4	5.8	**5.7**
6	DBW397	303	6.0	6.2	6.8	**6.3**
Mean			**5.8**	**5.8**	**6.4**	**6.0**
T. durum						
1	UAS478(d)*	305	5.6	5.8	6.4	**5.9**
2	HI8840(d)*	312	6.6	6.2	6.6	**6.5**
3	NIDW1149(d) (C)	309	6.8	6.2	8.0	**7.0**
4	UAS446(d) (C)	311	6.6	5.6	6.2	**6.1**
5	UAS481(d)	304	5.2	5.8	5.8	**5.6**
6	DDW61(d)	308	5.8	6.0	6.8	**6.2**
Mean			**6.1**	**5.9**	**6.6**	**6.2**

Table 34: Hectolitre weight (Kg/hl) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	81.9	81.9	81.3	**81.7**
2	GW322 (C)	103	78.9	80.2	80.0	**79.7**
3	DBW187 (C)	116	76.9	79.6	80.0	**78.8**
4	MACS6222 (C)	118	79.9	81.5	80.6	**80.7**
5	PBW891	101	79.3	78.7	79.2	**79.1**
6	NIAW4153	102	76.3	77.2	78.1	**77.2**
7	HD3469	104	81.4	82.2	80.5	**81.4**
8	AKAW5100	105	80.8	80.5	80.4	**80.6**
9	DBW444	106	76.9	77.2	77.3	**77.1**
10	UAS3020	107	79.3	78.1	76.1	**77.8**
11	WH1306	109	80.8	80.9	80.2	**80.6**
12	MACS6809	110	81.8	82.6	81.5	**82.0**
13	AKAW5314	114	82.5	82.3	80.9	**81.9**
14	NIAW4183	115	73.7	76.7	77.9	**76.1**
15	PWU15	117	80.9	81.4	80.9	**81.1**
16	UAS3021	119	80.1	80.4	80.1	**80.2**
17	MP1386	120	79.4	79.0	78.9	**79.1**
18	NWS2222	121	81.5	80.2	80.2	**80.6**
19	MACS6811	122	80.0	81.4	79.8	**80.4**
20	DBW443	123	80.5	81.4	80.4	**80.8**
Mean			**79.6**	**80.2**	**79.7**	**79.8**
T. durum						
1	MACS4100(d)(I) (C)	111	80.8	81.9	76.9	**79.9**
2	MACS3949(d) (C)	113	83.6	83.6	82.1	**83.1**
3	HI8826(d)(I) (C)	124	82.1	83.9	82.4	**82.8**
4	HI8841(d)	108	82.6	83.4	81.4	**82.5**
Mean			**82.3**	**83.2**	**80.7**	**82.1**

Table 34 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	79.9	80.4	76.5	**78.9**
2	HD2932 (C)	204	81.6	80.4	73.9	**78.6**
3	RAJ4083 (C)	213	81.8	81.4	78.0	**80.4**
4	HI1633 (C)	223	82.6	81.0	77.2	**80.3**
5	MP1388	201	78.5	79.8	77.6	**78.6**
6	GW538	203	83.4	82.9	80.4	**82.2**
7	DBW395	205	79.4	80.2	76.0	**78.5**
8	MACS6805	206	82.9	81.8	79.2	**81.3**
9	HI1672	207	82.9	81.2	80.0	**81.4**
10	HI1674	208	82.8	81.2	79.5	**81.2**
11	UAS3023	209	80.8	80.6	67.9	**76.4**
12	AKAW5104	210	82.1	82.0	78.4	**80.8**
13	LOK79	211	81.8	81.0	79.4	**80.7**
14	HI1675	212	83.1	82.2	81.3	**82.2**
15	UAS3022	214	81.1	79.0	80.2	**80.1**
16	MP3557	215	82.5	82.0	79.0	**81.2**
17	NIAW4120	216	76.5	77.2	72.6	**75.4**
18	GW542	217	82.5	82.5	78.4	**81.1**
19	MP3556	218	81.0	79.8	76.0	**78.9**
20	PBW897	219	81.2	81.0	75.6	**79.3**
21	WH1310	220	77.4	77.7	71.7	**75.6**
22	HI1673	221	81.3	81.4	78.2	**80.3**
23	MACS6814	222	80.7	80.5	77.4	**79.5**
24	NIAW4114	224	82.5	82.7	79.9	**81.7**
25	DBW394	225	80.6	80.6	77.1	**79.4**
Mean			**81.2**	**80.8**	**77.3**	**79.8**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	74.5	80.4	79.5	**78.1**
2	DBW359*	306	77.2	80.5	79.5	**79.1**
3	HI1665*	307	78.3	81.6	80.7	**80.2**
4	NIAW3170 (C)	301	74.1	79.6	79.4	**77.7**
5	HI1605 (C)	310	76.1	81.3	81.5	**79.6**
6	DBW397	303	76.9	80.3	79.0	**78.7**
Mean			**76.2**	**80.6**	**79.9**	**78.9**
T. durum						
1	UAS478(d)*	305	79.8	81.6	81.6	**81.0**
2	HI8840(d)*	312	79.3	83.1	82.3	**81.6**
3	NIDW1149(d) (C)	309	77.5	80.7	79.4	**79.2**
4	UAS446(d) (C)	311	80.1	81.8	81.5	**81.1**
5	UAS481(d)	304	79.5	82.1	81.9	**81.2**
6	DDW61(d)	308	77.8	81.4	80.6	**79.9**
Mean			**79.0**	**81.8**	**81.2**	**80.7**

Table 35: Protein content (%) at 12% moisture basis of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	14.1	13.8	12.3	**13.4**
2	GW322 (C)	103	13.1	11.7	10.4	**11.7**
3	DBW187 (C)	116	16.4	14.6	11.2	**14.0**
4	MACS6222 (C)	118	14.0	14.2	12.2	**13.5**
5	PBW891	101	12.6	13.5	11.5	**12.5**
6	NIAW4153	102	13.5	13.1	11.4	**12.7**
7	HD3469	104	14.5	15.0	11.5	**13.7**
8	AKAW5100	105	13.7	13.9	11.4	**13.0**
9	DBW444	106	16.6	15.2	13.1	**15.0**
10	UAS3020	107	12.4	12.9	10.1	**11.8**
11	WH1306	109	13.0	12.9	11.6	**12.5**
12	MACS6809	110	14.1	13.4	12.5	**13.3**
13	AKAW5314	114	14.0	14.2	11.5	**13.2**
14	NIAW4183	115	13.9	12.8	12.0	**12.9**
15	PWU15	117	14.2	14.7	13.0	**14.0**
16	UAS3021	119	13.2	13.6	11.0	**12.6**
17	MP1386	120	13.1	14.0	11.0	**12.7**
18	NWS2222	121	13.0	13.6	11.3	**12.6**
19	MACS6811	122	13.6	12.5	10.6	**12.2**
20	DBW443	123	14.2	15.1	12.4	**13.9**
Mean			**13.9**	**13.7**	**11.6**	**13.1**
T. durum						
1	MACS4100(d)(I) (C)	111	13.0	12.1	9.5	**11.5**
2	MACS3949(d) (C)	113	13.3	13.2	11.1	**12.5**
3	HI8826(d)(I) (C)	124	14.0	12.2	11.3	**12.5**
4	HI8841(d)	108	12.8	12.2	11.1	**12.0**
Mean			**13.3**	**12.4**	**10.7**	**12.1**

Table 35 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	13.0	12.4	12.5	**12.7**
2	HD2932 (C)	204	13.5	13.3	11.8	**12.9**
3	RAJ4083 (C)	213	12.4	14.1	12.7	**13.1**
4	HI1633 (C)	223	13.2	14.0	12.8	**13.3**
5	MP1388	201	13.1	13.2	13.3	**13.2**
6	GW538	203	13.5	14.1	13.2	**13.6**
7	DBW395	205	13.8	14.0	13.4	**13.7**
8	MACS6805	206	13.0	12.7	12.8	**12.8**
9	HI1672	207	12.7	14.1	13.1	**13.3**
10	HI1674	208	12.9	12.4	12.5	**12.6**
11	UAS3023	209	13.5	12.2	11.6	**12.4**
12	AKAW5104	210	11.0	13.0	12.3	**12.1**
13	LOK79	211	12.7	13.2	12.5	**12.8**
14	HI1675	212	12.7	14.0	13.1	**13.3**
15	UAS3022	214	12.8	14.0	13.0	**13.3**
16	MP3557	215	14.0	15.1	14.0	**14.4**
17	NIAW4120	216	12.8	12.8	12.5	**12.7**
18	GW542	217	12.9	13.0	11.6	**12.5**
19	MP3556	218	15.0	15.6	14.4	**15.0**
20	PBW897	219	14.4	13.9	13.1	**13.8**
21	WH1310	220	13.0	12.6	12.8	**12.8**
22	HI1673	221	11.8	13.4	12.3	**12.5**
23	MACS6814	222	13.1	13.3	13.5	**13.3**
24	NIAW4114	224	12.6	13.2	13.0	**12.9**
25	DBW394	225	14.3	13.9	13.3	**13.9**
Mean			**13.1**	**13.5**	**12.8**	**13.2**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	15.2	13.3	12.1	**13.5**
2	DBW359*	306	16.1	12.9	11.2	**13.4**
3	HI1665*	307	15.4	12.7	10.9	**13.0**
4	NIAW3170 (C)	301	16.0	14.3	12.3	**14.2**
5	HI1605 (C)	310	15.7	13.8	11.5	**13.7**
6	DBW397	303	15.1	14.1	13.1	**14.1**
Mean			**15.6**	**13.5**	**11.9**	**13.6**
T. durum						
1	UAS478(d)*	305	13.5	13.4	11.3	**12.8**
2	HI8840(d)*	312	13.9	12.2	11.7	**12.6**
3	NIDW1149(d) (C)	309	13.0	12.1	11.9	**12.3**
4	UAS446(d) (C)	311	13.6	13.1	11.8	**12.8**
5	UAS481(d)	304	15.1	13.1	11.6	**13.2**
6	DDW61(d)	308	14.5	12.1	12.0	**12.9**
Mean			**13.9**	**12.7**	**11.7**	**12.8**

Table 36: Sedimentation value (ml) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	42	40	44	**42**
2	GW322 (C)	103	47	41	42	**43**
3	DBW187 (C)	116	68	63	63	**65**
4	MACS6222 (C)	118	41	37	40	**39**
5	PBW891	101	73	62	64	**66**
6	NIAW4153	102	53	46	47	**49**
7	HD3469	104	57	54	67	**60**
8	AKAW5100	105	47	43	45	**45**
9	DBW444	106	50	46	56	**50**
10	UAS3020	107	69	56	66	**63**
11	WH1306	109	69	62	59	**63**
12	MACS6809	110	51	43	46	**47**
13	AKAW5314	114	47	43	43	**44**
14	NIAW4183	115	50	45	43	**46**
15	PWU15	117	52	49	52	**51**
16	UAS3021	119	69	52	58	**59**
17	MP1386	120	48	40	43	**44**
18	NWS2222	121	58	55	46	**53**
19	MACS6811	122	55	45	49	**50**
20	DBW443	123	59	51	62	**57**
Mean			**55**	**49**	**52**	**52**
T. durum						
1	MACS4100(d)(I) (C)	111	36	39	38	**38**
2	MACS3949(d) (C)	113	43	36	43	**41**
3	HI8826(d)(I) (C)	124	28	27	32	**29**
4	HI8841(d)	108	26	26	26	**26**
Mean			**34**	**32**	**35**	**34**

Table 36 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	53	42	50	**49**
2	HD2932 (C)	204	55	48	51	**52**
3	RAJ4083 (C)	213	53	48	58	**53**
4	HI1633 (C)	223	45	47	48	**47**
5	MP1388	201	62	47	57	**55**
6	GW538	203	44	43	43	**44**
7	DBW395	205	61	52	62	**58**
8	MACS6805	206	49	41	44	**45**
9	HI1672	207	52	49	51	**50**
10	HI1674	208	41	38	43	**41**
11	UAS3023	209	58	49	53	**54**
12	AKAW5104	210	45	46	54	**48**
13	LOK79	211	44	45	43	**44**
14	HI1675	212	48	45	45	**46**
15	UAS3022	214	61	52	54	**56**
16	MP3557	215	63	64	70	**65**
17	NIAW4120	216	52	48	50	**50**
18	GW542	217	40	38	42	**40**
19	MP3556	218	58	60	70	**62**
20	PBW897	219	62	61	65	**62**
21	WH1310	220	55	46	57	**53**
22	HI1673	221	46	44	48	**46**
23	MACS6814	222	51	48	54	**51**
24	NIAW4114	224	60	48	52	**53**
25	DBW394	225	70	61	68	**67**
Mean			**53**	**48**	**53**	**52**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	73	51	67	**63**
2	DBW359*	306	69	55	66	**63**
3	HI1665*	307	38	36	40	**38**
4	NIAW3170 (C)	301	69	47	62	**59**
5	HI1605 (C)	310	69	55	63	**62**
6	DBW397	303	67	49	61	**59**
Mean			**64**	**49**	**60**	**58**
T. durum						
1	UAS478(d)*	305	41	38	42	**40**
2	HI8840(d)*	312	38	36	43	**39**
3	NIDW1149(d) (C)	309	36	30	34	**33**
4	UAS446(d) (C)	311	48	40	48	**45**
5	UAS481(d)	304	36	33	40	**37**
6	DDW61(d)	308	38	39	46	**41**
Mean			**40**	**36**	**42**	**39**

Table 37: Phenol test (Max-10) of *T. aestivum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	6.5	6.0	6.5	**6.3**
2	GW322 (C)	103	7.0	7.5	4.5	**6.3**
3	DBW187 (C)	116	8.0	7.5	8.0	**7.8**
4	MACS6222 (C)	118	6.5	6.0	7.0	**6.5**
5	PBW891	101	3.0	3.5	3.0	**3.2**
6	NIAW4153	102	3.5	3.0	2.5	**3.0**
7	HD3469	104	8.5	8.0	8.5	**8.3**
8	AKAW5100	105	6.0	5.0	6.0	**5.7**
9	DBW444	106	5.0	4.0	3.0	**4.0**
10	UAS3020	107	7.5	6.0	6.0	**6.5**
11	WH1306	109	3.0	3.0	3.0	**3.0**
12	MACS6809	110	3.0	3.5	3.0	**3.2**
13	AKAW5314	114	3.0	3.0	3.0	**3.0**
14	NIAW4183	115	3.0	3.5	2.5	**3.0**
15	PWU15	117	3.0	5.5	3.5	**4.0**
16	UAS3021	119	6.0	6.0	6.5	**6.2**
17	MP1386	120	7.0	7.5	7.5	**7.3**
18	NWS2222	121	5.5	6.0	7.0	**6.2**
19	MACS6811	122	6.0	7.0	7.5	**6.8**
20	DBW443	123	9.0	9.0	8.5	**8.8**
Mean			**5.5**	**5.5**	**5.4**	**5.5**
T. durum						
1	MACS4100(d)(I) (C)	111	0.0	0.0	0.0	**0.0**
2	MACS3949(d) (C)	113	0.0	0.0	0.0	**0.0**
3	HI8826(d)(I) (C)	124	0.0	0.0	0.0	**0.0**
4	HI8841(d)	108	0.0	0.0	0.0	**0.0**
Mean			**0.0**	**0.0**	**0.0**	**0.0**

Table 37 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	8.0	8.5	7.0	**7.8**
2	HD2932 (C)	204	3.0	4.5	5.0	**4.2**
3	RAJ4083 (C)	213	5.5	5.0	7.0	**5.8**
4	HI1633 (C)	223	6.0	6.0	7.5	**6.5**
5	MP1388	201	5.0	5.5	6.0	**5.5**
6	GW538	203	7.0	6.5	6.5	**6.7**
7	DBW395	205	5.0	3.0	5.5	**4.5**
8	MACS6805	206	6.0	6.5	6.5	**6.3**
9	HI1672	207	3.0	3.5	2.5	**3.0**
10	HI1674	208	3.0	4.0	2.5	**3.2**
11	UAS3023	209	6.0	7.5	7.0	**6.8**
12	AKAW5104	210	6.0	7.0	6.5	**6.5**
13	LOK79	211	7.0	7.0	6.5	**6.8**
14	HI1675	212	3.5	4.0	3.0	**3.5**
15	UAS3022	214	6.0	7.0	6.8	**6.6**
16	MP3557	215	5.5	6.0	6.5	**6.0**
17	NIAW4120	216	3.5	4.0	3.5	**3.7**
18	GW542	217	3.5	4.0	3.0	**3.5**
19	MP3556	218	4.0	4.5	4.0	**4.2**
20	PBW897	219	8.0	7.5	8.0	**7.8**
21	WH1310	220	8.0	8.0	8.0	**8.0**
22	HI1673	221	7.5	8.0	7.0	**7.5**
23	MACS6814	222	7.0	7.5	7.0	**7.2**
24	NIAW4114	224	4.0	4.0	3.0	**3.7**
25	DBW394	225	8.0	8.0	8.0	**8.0**
Mean			**5.6**	**5.9**	**5.8**	**5.7**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	6.5	7.5	5.5	**6.5**
2	DBW359*	306	3.5	4.0	8.0	**5.2**
3	HI1665*	307	6.0	5.5	4.0	**5.2**
4	NIAW3170 (C)	301	7.5	7.0	5.5	**6.7**
5	HI1605 (C)	310	3.5	5.0	1.5	**3.3**
6	DBW397	303	7.0	7.5	6.0	**6.8**
Mean			**5.7**	**6.1**	**5.1**	**5.6**
T. durum						
1	UAS478(d)*	305	0.0	0.0	0.0	**0.0**
2	HI8840(d)*	312	0.0	0.0	0.0	**0.0**
3	NIDW1149(d) (C)	309	0.0	0.0	0.0	**0.0**
4	UAS446(d) (C)	311	0.0	0.0	0.0	**0.0**
5	UAS481(d)	304	0.0	0.0	0.0	**0.0**
6	DDW61(d)	308	0.0	0.0	0.0	**0.0**
Mean			**0.0**	**0.0**	**0.0**	**0.0**

Table 38: Yellow pigment (ppm) of *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
Mean						
T. durum						
1	MACS4100(d)(I) (C)	111	6.72	5.79	7.59	**6.70**
2	MACS3949(d) (C)	113	6.52	6.55	6.36	**6.48**
3	HI8826(d)(I) (C)	124	4.96	6.48	7.24	**6.23**
4	HI8841(d)	108	6.40	6.54	7.35	**6.76**
Mean			**6.15**	**6.34**	**7.13**	**6.54**

Table 38 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
Mean						
Restricted Irrigated Timely Sown						
T. aestivum						
1						
2						
3						
4						
5						
6						
Mean						
T. durum						
1	UAS478(d)*	305	7.06	7.32	6.72	**7.03**
2	HI8840(d)*	312	7.42	5.32	6.54	**6.43**
3	NIDW1149(d) (C)	309	6.06	5.65	6.04	**5.92**
4	UAS446(d) (C)	311	6.06	6.04	5.95	**6.02**
5	UAS481(d)	304	7.80	6.40	7.59	**7.26**
6	DDW61(d)	308	7.53	8.13	7.20	**7.62**
Mean			**6.99**	**6.48**	**6.67**	**6.71**

Table 39: Hardness index of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112		77		**77**
2	GW322 (C)	103		86		**86**
3	DBW187 (C)	116		80		**80**
4	MACS6222 (C)	118		82		**82**
5	PBW891	101		79		**79**
6	NIAW4153	102		79		**79**
7	HD3469	104		73		**73**
8	AKAW5100	105		89		**89**
9	DBW444	106		77		**77**
10	UAS3020	107		81		**81**
11	WH1306	109		78		**78**
12	MACS6809	110		83		**83**
13	AKAW5314	114		81		**81**
14	NIAW4183	115		77		**77**
15	PWU15	117		77		**77**
16	UAS3021	119		83		**83**
17	MP1386	120		86		**86**
18	NWS2222	121		83		**83**
19	MACS6811	122		74		**74**
20	DBW443	123		88		**88**
Mean				**81**		**81**
T. durum						
1	MACS4100(d)(I) (C)	111		94		**94**
2	MACS3949(d) (C)	113		89		**89**
3	HI8826(d)(I) (C)	124		90		**90**
4	HI8841(d)	108		96		**96**
Mean				**92**		**92**

Table 39 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202		84		**84**
2	HD2932 (C)	204		77		**77**
3	RAJ4083 (C)	213		79		**79**
4	HI1633 (C)	223		86		**86**
5	MP1388	201		79		**79**
6	GW538	203		70		**70**
7	DBW395	205		67		**67**
8	MACS6805	206		86		**86**
9	HI1672	207		69		**69**
10	HI1674	208		74		**74**
11	UAS3023	209		76		**76**
12	AKAW5104	210		84		**84**
13	LOK79	211		89		**89**
14	HI1675	212		72		**72**
15	UAS3022	214		90		**90**
16	MP3557	215		78		**78**
17	NIAW4120	216		74		**74**
18	GW542	217		79		**79**
19	MP3556	218		80		**80**
20	PBW897	219		73		**73**
21	WH1310	220		85		**85**
22	HI1673	221		84		**84**
23	MACS6814	222		78		**78**
24	NIAW4114	224		81		**81**
25	DBW394	225		83		**83**
Mean				**79**		**79**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302		85		**85**
2	DBW359*	306		86		**86**
3	HI1665*	307		83		**83**
4	NIAW3170 (C)	301		38		**38**
5	HI1605 (C)	310		77		**77**
6	DBW397	303		85		**85**
Mean				**76**		**76**
T. durum						
1	UAS478(d)*	305		98		**98**
2	HI8840(d)*	312		94		**94**
3	NIDW1149(d) (C)	309		78		**78**
4	UAS446(d) (C)	311		91		**91**
5	UAS481(d)	304		91		**91**
6	DDW61(d)	308		94		**94**
Mean				**91**		**91**

Table 40: Grain iron content (ppm) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	43.1	39.1	39.0	**40.4**
2	GW322 (C)	103	37.4	35.4	33.1	**35.3**
3	DBW187 (C)	116	41.6	37.1	37.8	**38.8**
4	MACS6222 (C)	118	42.0	39.5	36.5	**39.3**
5	PBW891	101	41.2	41.8	38.1	**40.4**
6	NIAW4153	102	44.2	33.9	36.2	**38.1**
7	HD3469	104	48.2	39.8	35.6	**41.2**
8	AKAW5100	105	44.4	38.8	33.4	**38.9**
9	DBW444	106	45.9	42.4	45.6	**44.6**
10	UAS3020	107	45.8	44.6	36.3	**42.2**
11	WH1306	109	41.3	41.3	38.6	**40.4**
12	MACS6809	110	46.2	37.4	39.0	**40.9**
13	AKAW5314	114	38.8	33.4	32.4	**34.9**
14	NIAW4183	115	41.5	31.4	34.0	**35.6**
15	PWU15	117	40.5	37.1	41.7	**39.8**
16	UAS3021	119	39.3	34.9	38.4	**37.5**
17	MP1386	120	43.6	37.9	41.6	**41.0**
18	NWS2222	121	35.5	35.9	31.5	**34.3**
19	MACS6811	122	41.2	34.7	35.1	**37.0**
20	DBW443	123	41.0	41.1	37.5	**39.9**
Mean			**42.1**	**37.9**	**37.1**	**39.0**
T. durum						
1	MACS4100(d)(I) (C)	111	40.1	34.1	36.2	**36.8**
2	MACS3949(d) (C)	113	38.5	35.5	34.5	**36.2**
3	HI8826(d)(I) (C)	124	39.3	34.6	34.2	**36.0**
4	HI8841(d)	108	41.4	36.0	37.3	**38.2**
Mean			**39.8**	**35.1**	**35.6**	**36.8**

Table 40 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	42.1	38.9	36.6	**39.2**
2	HD2932 (C)	204	41.7	33.4	35.4	**36.8**
3	RAJ4083 (C)	213	41.5	44.0	37.0	**40.8**
4	HI1633 (C)	223	45.6	40.2	41.1	**42.3**
5	MP1388	201	41.1	38.5	39.2	**39.6**
6	GW538	203	42.7	39.8	42.2	**41.6**
7	DBW395	205	44.2	34.8	38.2	**39.1**
8	MACS6805	206	44.3	40.7	39.5	**41.5**
9	HI1672	207	44.5	42.3	38.9	**41.9**
10	HI1674	208	42.1	40.7	38.5	**40.4**
11	UAS3023	209	39.9	39.8	33.2	**37.6**
12	AKAW5104	210	42.6	42.4	37.3	**40.8**
13	LOK79	211	45.7	40.0	39.7	**41.8**
14	HI1675	212	44.6	36.3	39.5	**40.1**
15	UAS3022	214	46.2	37.4	38.1	**40.6**
16	MP3557	215	45.0	35.4	35.3	**38.6**
17	NIAW4120	216	40.3	42.4	37.6	**40.1**
18	GW542	217	43.2	40.7	34.2	**39.4**
19	MP3556	218	47.3	38.8	34.3	**40.1**
20	PBW897	219	44.7	28.2	39.3	**37.4**
21	WH1310	220	47.1	32.4	33.5	**37.7**
22	HI1673	221	47.1	40.1	36.9	**41.4**
23	MACS6814	222	43.1	42.4	35.5	**40.3**
24	NIAW4114	224	46.0	38.6	37.4	**40.7**
25	DBW394	225	41.9	38.7	38.5	**39.7**
Mean			**43.8**	**38.7**	**37.5**	**40.0**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	40.2	41.5	37.6	**39.8**
2	DBW359*	306	39.1	41.7	37.5	**39.4**
3	HI1665*	307	40.8	42.0	40.9	**41.2**
4	NIAW3170 (C)	301	40.5	41.6	36.6	**39.6**
5	HI1605 (C)	310	39.2	37.9	38.5	**38.5**
6	DBW397	303	41.6	42.7	46.4	**43.6**
Mean			**40.2**	**41.2**	**39.6**	**40.4**
T. durum						
1	UAS478(d)*	305	40.7	40.8	37.8	**39.8**
2	HI8840(d)*	312	39.6	36.7	43.6	**40.0**
3	NIDW1149(d) (C)	309	40.8	39.5	40.3	**40.2**
4	UAS446(d) (C)	311	40.7	38.3	39.6	**39.5**
5	UAS481(d)	304	37.5	38.8	40.0	**38.8**
6	DDW61(d)	308	36.4	42.0	38.0	**38.8**
Mean			**39.3**	**39.4**	**39.9**	**39.5**

Table 41: Grain zinc content (ppm) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1	MP1378*	112	36.1	47.5	49.4	**44.3**
2	GW322 (C)	103	31.8	43.2	40.4	**38.5**
3	DBW187 (C)	116	40.1	42.6	35.2	**39.3**
4	MACS6222 (C)	118	30.6	46.1	44.5	**40.4**
5	PBW891	101	26.3	48.1	41.1	**38.5**
6	NIAW4153	102	39.5	35.8	37.5	**37.6**
7	HD3469	104	32.4	50.3	40.4	**41.0**
8	AKAW5100	105	33.9	46.5	39.8	**40.1**
9	DBW444	106	42.3	51.2	52.0	**48.5**
10	UAS3020	107	31.6	47.7	35.8	**38.4**
11	WH1306	109	29.6	44.1	43.7	**39.1**
12	MACS6809	110	36.2	40.4	47.2	**41.3**
13	AKAW5314	114	36.2	43.0	36.9	**38.7**
14	NIAW4183	115	28.5	34.2	46.2	**36.3**
15	PWU15	117	35.0	42.1	46.0	**41.0**
16	UAS3021	119	30.4	45.1	40.2	**38.6**
17	MP1386	120	35.0	46.5	45.3	**42.3**
18	NWS2222	121	24.0	39.1	33.8	**32.3**
19	MACS6811	122	33.3	39.5	38.7	**37.2**
20	DBW443	123	29.5	47.7	43.7	**40.3**
Mean			**33.1**	**44.0**	**41.9**	**39.7**
T. durum						
1	MACS4100(d)(I) (C)	111	34.9	47.1	43.2	**41.7**
2	MACS3949(d) (C)	113	34.3	43.5	43.3	**40.4**
3	HI8826(d)(I) (C)	124	41.6	44.1	42.7	**42.8**
4	HI8841(d)	108	29.9	45.3	47.1	**40.8**
Mean			**35.2**	**45.0**	**44.1**	**41.4**

Table 41 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1	HD3090 (C)	202	37.7	40.4	41.0	**39.7**
2	HD2932 (C)	204	42.2	41.4	42.5	**42.0**
3	RAJ4083 (C)	213	31.3	48.3	42.5	**40.7**
4	HI1633 (C)	223	42.6	47.5	45.0	**45.0**
5	MP1388	201	39.8	45.8	46.5	**44.0**
6	GW538	203	33.3	57.3	47.4	**46.0**
7	DBW395	205	34.3	46.8	44.3	**41.8**
8	MACS6805	206	38.2	47.3	44.8	**43.4**
9	HI1672	207	37.7	56.7	48.4	**47.6**
10	HI1674	208	36.2	43.3	44.4	**41.3**
11	UAS3023	209	37.9	46.6	42.7	**42.4**
12	AKAW5104	210	35.1	48.1	42.9	**42.0**
13	LOK79	211	32.3	44.8	41.2	**39.4**
14	HI1675	212	38.4	50.4	44.0	**44.3**
15	UAS3022	214	40.5	47.4	44.9	**44.3**
16	MP3557	215	43.3	49.5	43.7	**45.5**
17	NIAW4120	216	36.5	43.7	36.4	**38.9**
18	GW542	217	37.2	50.3	36.4	**41.3**
19	MP3556	218	40.3	49.4	41.2	**43.6**
20	PBW897	219	34.3	43.3	44.5	**40.7**
21	WH1310	220	40.5	39.6	43.8	**41.3**
22	HI1673	221	37.3	45.7	42.6	**41.9**
23	MACS6814	222	36.2	48.7	40.4	**41.8**
24	NIAW4114	224	37.2	43.0	43.3	**41.2**
25	DBW394	225	34.3	44.0	43.2	**40.5**
Mean			**37.4**	**46.8**	**43.1**	**42.4**
Restricted Irrigated Timely Sown						
T. aestivum						
1	NIAW4028*	302	38.9	44.0	37.6	**40.2**
2	DBW359*	306	49.8	45.9	37.5	**44.4**
3	HI1665*	307	41.7	50.4	40.9	**44.3**
4	NIAW3170 (C)	301	46.8	45.7	36.6	**43.0**
5	HI1605 (C)	310	42.5	45.0	38.5	**42.0**
6	DBW397	303	44.6	46.4	46.4	**45.8**
Mean			**44.1**	**46.2**	**39.6**	**43.3**
T. durum						
1	UAS478(d)*	305	47.0	47.8	37.8	**44.2**
2	HI8840(d)*	312	46.5	46.3	43.6	**45.5**
3	NIDW1149(d) (C)	309	41.7	46.8	40.3	**42.9**
4	UAS446(d) (C)	311	39.2	41.4	39.6	**40.1**
5	UAS481(d)	304	43.5	43.0	40.0	**42.2**
6	DDW61(d)	308	43.3	46.8	38.0	**42.7**
Mean			**43.5**	**45.4**	**39.9**	**42.9**

Table 42: Yellow berry (%) of *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Timely Sown						
T. aestivum						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
Mean						
T. durum						
1	MACS4100(d)(I) (C)	111	10	40	40	**30**
2	MACS3949(d) (C)	113	0	10	40	**17**
3	HI8826(d)(I) (C)	124	10	40	40	**30**
4	HI8841(d)	108	10	50	50	**37**
Mean			**8**	**35**	**43**	**28**

Table 42 cont.

S. No.	Entries	Code	Dharwad	Pune	Niphad	Mean
Irrigated Late Sown						
T. aestivum						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
Mean						
Restricted Irrigated Timely Sown						
T. aestivum						
1						
2						
3						
4						
5						
6						
Mean						
T. durum						
1	UAS478(d)*	305	10	40	30	**27**
2	HI8840(d)*	312	0	30	10	**13**
3	NIDW1149(d) (C)	309	0	40	10	**17**
4	UAS446(d) (C)	311	0	30	5	**12**
5	UAS481(d)	304	0	50	20	**23**
6	DDW61(d)	308	0	50	10	**20**
Mean			**2**	**40**	**14**	**19**

Table 43: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in Northern Hill Zone AVTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
	Rainfed, Timely Sown					
1	VL907 (C)	101	5+10	1	17+18	10
2	VL2041(I) (C)	102	2+12	N	7+9	5
3	HPW349 (C)	105	5+10	1	7	8
4	VL892 (C)	107	2+12	2*	7	6
5	HS562 (C)	109	5+10	1	17+18	10

Table 44: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in North Western Plains Zone AVTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
	Irrigated, Timely Sown					
1	HD3386*	113	2+12	2*	7+9	7
2	PBW826 (I) (C)	108	2+12	2*	7+8	8
3	DBW 222 (C)	110	5+10	2*	17+18	10
4	HD 3086 (C)	105	5+10	1	17+18	10
5	HD 2967 (C)	103	5+10	2*	17+18	10
6	DBW 187 (C)	104	5+10	2*	17+18	10
	Irrigated, Late Sown					
1	DBW 173 (C)	201	5+10	2*	17+18	10
2	HD 3059 (C)	203	5+10	2*	17+18	10
3	JKW 261 (C)	204	5+10	N	7	6
4	PBW 771 (C)	207	5+10	N	7+9	7
	Restricted Irrigation, Timely Sown					
1	WH1402*	305	5+10	2*	7+9	9
2	HI 1654 (I) (C)	306	2+12	2*	7+8	8
3	HD 3369 (I) (C)	307	2+12	2*	7+8	8
4	HI 1653 (I) (C)	311	2+12	2*	7	6
5	NIAW 3170 (C)	312	2+12	N	17+18	6
6	PBW 644 (C)	308	2+12	1	7+8	8
7	DBW 296 (C)	302	5+10	2*	13+16	10

Table 45: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in North Eastern Plains Zone AVTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
	Irrigated, Timely Sown					
1	HD3388*	106	5+10	2*	7+9	9
2	PBW 826 (I) (C)	102	2+12	2*	7+8	8
3	HD 3249 (C)	110	5+10	N	17+18	8
4	DBW 187 (C)	104	5+10	2*	17+18	10
5	HD 2967 (C)	109	5+10	2*	17+18	10
6	DBW 222 (C)	107	5+10	2*	17+18	10
7	HD 3086 (C)	105	5+10	1	17+18	10
	Restricted Irrigation, Timely Sown					
1	HI 1612 (C)	301	5+10	2*	7	8
2	K 1317 (C)	303	2+12	N	7	4
3	DBW 252 (C)	305	5+10	N	7	6
4	HD 3171 (C)	302	5+10	2*	7	8
5	HD 3293 (C)	304	5+10	2*	7	8

Table 46: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in Central Zone AVTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
	Irrigated, Timely Sown					
1	GW547*	103	2+12	2*	7+9	7
2	NWS2194*	104	5+10	1	7	8
3	HI 1650 (I) (C)	102	2+12	2*	7+9	7
4	MACS 6768 (I) (C)	106	2+12	2*	7+9	7
5	GW 322 (C)	110	2+12	2*	7+8	8
6	HI 1636 (C)	109	2+12	N	7+8	6
7	GW 513 (C)	105	5+10	N	17+18	8
	Irrigated, Late Sown					
1	CG1029 (C)	201	2+12	2*	7+8	8
2	MP4010 (C)	202	5+10	2*	7	8
3	HD2932 (C)	203	2+12	2*	17+18	8
4	HI1634 (C)	209	5+10	2*	7	8
	Restricted Irrigation, Timely Sown					
1	DBW359*	302	2+12	1	7+8	8
2	CG1040*	106	2+12	2*	7	6
3	CG 1036 (I) (C)	304	2+12	2*	7	6
4	HI 1655Q (I) (C)	305	2+12	2*	7	6
5	DBW 110 (C)	308	5+10	1	7	8
6	MP 3288 (C)	301	2+12	2*	7+9	7

Table 47: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in Peninsular Zone AVTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
	Irrigated, Timely Sown					
1	MP1378*	112	2+12	2*	7	6
2	DBW187 (C)	116	5+10	2*	17+18	10
3	GW 322 (C)	103	2+12	2*	7+8	8
4	MACS 6222 (C)	118	2+12	2*	7+9	7
	Irrigated, Late Sown					
1	HD 2932 (C)	204	2+12	2*	17+18	8
2	RAJ 4083 (C)	213	5+10	1	7+8	10
3	HD 3090 (C)	202	5+10	1	7	8
4	HI 1633 (C)	223	5+10	2*	7	8
	Restricted Irrigation, Timely Sown					
1	NIAW4028*	302	5+10	2*	6+8	8
2	DBW359*	306	5+10	2*	7	8
3	HI1665*	307	2+12	2*	7	6
4	HI 1605 (C)	310	5+10	2*	7	8
5	NIAW 3170 (C)	301	2+12	N	17+18	6

Table 48: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in North Western Plains Zone HYPTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
1	PBW 872 (I) (C)	101	2+12	2*	7+8	8
2	DBW 371 (I) (C)	102	2+12	2*	7+9	7
3	DBW 370 (I) (C)	105	2+12	2*	7+9	7
4	DBW 372 (I) (C)	104	2+12	2*	7	6
5	DBW 303 (C)	107	5+10	2*	7	8
6	DBW 187 (C)	103	5+10	2*	17+18	10

Table 49: High Molecular weight Glutenin Subunits of *T. aestivum* genotypes in Central Zone HYPTs

S. No.	Variety	Code	Glu-D1	Glu-A1	Glu-B1	Glu-1 Score
1	DBW377*	203	2+12	2*	7	6
2	GW 322 (C)	206	2+12	2*	7+8	8
3	DBW 303 (C)	201	5+10	2*	7	8
4	DBW 187 (C)	205	5+10	2*	17+18	10

Section B

SPECIAL TRIALS

High Yield Potential Trial (HYPT) (Tables 1-16)

Under this trial, 7 entries from 4 centres (Karnal, Ludhiana, Delhi and Hisar) in **NWPZ** and 6 entries from 4 centres in CZ (Vijapur, Junagarh, P'Kheda and Indore) were evaluated for grain appearance, hectolitre weight, protein content, sedimentation value, hardness index, phenol test and Iron & Zinc content and IInd year entries along with checks were evaluated for chapati, bread, biscuit, gluten content and pasta quality.

Table 1: Grain appearance score (Max-10) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	6.2	6.0	7.2	6.4	**6.5**
2	DBW371(I) (C)	102	6.6	5.6	7.0	6.4	**6.4**
3	DBW187 (C)	103	6.0	5.6	6.4	6.0	**6.0**
4	DBW372(I) (C)	104	5.8	5.8	6.8	6.0	**6.1**
5	DBW370(I) (C)	105	6.2	6.0	6.6	6.0	**6.2**
6	DBW303 (C)	107	5.8	5.2	5.8	6.2	**5.8**
7	DBW380	106	5.8	5.8	5.8	6.2	**5.9**
Mean			**6.1**	**5.7**	**6.5**	**6.2**	**6.1**

Table 2: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	77.8	78.3	79.7	78.8	**78.7**
2	DBW371(I) (C)	102	77.9	76.2	79.4	78.6	**78.0**
3	DBW187 (C)	103	75.1	74.7	76.2	77.1	**75.8**
4	DBW372(I) (C)	104	78.9	77.3	79.8	78.1	**78.5**
5	DBW370(I) (C)	105	74.9	75.6	76.7	75.8	**75.8**
6	DBW380	106	76.4	76.0	75.9	79.4	**76.9**
7	DBW303 (C)	107	78.7	74.9	78.7	79.2	**77.9**
Mean			**77.1**	**76.1**	**78.1**	**78.1**	**77.4**

Table 3: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	11.4	13.0	11.4	10.8	**11.7**
2	DBW371(I) (C)	102	11.4	14.1	11.7	11.3	**12.1**
3	DBW187 (C)	103	12.5	14.5	12.6	11.6	**12.8**
4	DBW372(I) (C)	104	12.0	14.1	11.7	12.5	**12.6**
5	DBW370(I) (C)	105	11.8	13.1	11.5	11.4	**11.9**
6	DBW303 (C)	107	11.7	13.6	12.5	11.5	**12.3**
7	DBW380	106	12.2	14.4	12.5	11.0	**12.5**
Mean			**11.9**	**13.8**	**12.0**	**11.4**	**12.3**

Table 4: Sedimentation value (ml) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	56	60	50	55	**55**
2	DBW371(I) (C)	102	60	67	55	55	**59**
3	DBW187 (C)	103	69	66	65	69	**67**
4	DBW372(I) (C)	104	65	61	55	57	**59**
5	DBW370(I) (C)	105	51	55	47	53	**52**
6	DBW303 (C)	107	61	62	57	62	**60**
7	DBW380	106	66	65	61	57	**62**
Mean			**61**	**62**	**56**	**58**	**59**

Table 5: Hardness index of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101				70	**70**
2	DBW371(I) (C)	102				68	**68**
3	DBW187 (C)	103				67	**67**
4	DBW372(I) (C)	104				72	**72**
5	DBW370(I) (C)	105				66	**66**
6	DBW303 (C)	107				68	**68**
7	DBW380	106				70	**70**
Mean						**69**	**69**

Table 6: Phenol test score (Max-10) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	7.5	7.5	6.5	6.5	**7.0**
2	DBW371(I) (C)	102	4.0	3.0	3.0	3.5	**3.4**
3	DBW187 (C)	103	7.5	6.5	6.5	6.5	**6.8**
4	DBW372(I) (C)	104	6.5	6.5	6.0	6.0	**6.3**
5	DBW370(I) (C)	105	5.5	3.0	4.0	5.0	**4.4**
6	DBW303 (C)	107	6.5	7.5	6.0	5.5	**6.4**
7	DBW380	106	7.5	7.5	6.5	6.0	**6.9**
Mean			**6.4**	**5.9**	**5.5**	**5.6**	**5.9**

Table 7: Grain iron content (ppm) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	40.4	49.2	35.0	35.1	**39.9**
2	DBW371(I) (C)	102	40.2	41.4	35.7	43.5	**40.2**
3	DBW187 (C)	103	34.0	45.3	35.2	40.7	**38.8**
4	DBW372(I) (C)	104	36.5	44.9	29.9	40.0	**37.8**
5	DBW370(I) (C)	105	36.4	52.3	33.3	35.9	**39.5**
6	DBW303 (C)	107	37.4	46.9	34.0	36.2	**38.6**
7	DBW380	106	40.2	47.6	35.1	37.3	**40.1**
Mean			**37.9**	**46.8**	**34.0**	**38.4**	**39.3**

Table 8: Grain zinc content (ppm) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Delhi	Hisar	Karnal	Mean
1	PBW872(I) (C)	101	51.3	58.2	40.1	30.2	**45.0**
2	DBW371(I) (C)	102	55.3	49.7	36.6	31.6	**43.3**
3	DBW187 (C)	103	53.3	60.0	36.4	28.5	**44.6**
4	DBW372(I) (C)	104	46.4	61.5	36.1	31.8	**44.0**
5	DBW370(I) (C)	105	44.6	63.5	38.9	26.4	**43.4**
6	DBW303 (C)	107	46.5	60.4	44.4	29.5	**45.2**
7	DBW380	106	58.5	56.5	38.0	28.3	**45.3**
Mean			**50.8**	**58.5**	**38.6**	**29.5**	**44.4**

Table 9: Grain appearance score (Max-10) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	8.0	8.0	6.0	6.2	**7.1**
2	DBW303 (C)	201	7.0	8.0	7.0	6.4	**7.1**
3	DBW187 (C)	205	8.2	8.0	6.4	6.4	**7.3**
4	GW322 (C)	206	8.2	8.2	6.2	6.2	**7.2**
5	GW543	202	8.4	8.2	7.4	7.0	**7.8**
6	CG1044	204	8.4	8.2	6.4	6.8	**7.5**
Mean			**8.0**	**8.1**	**6.6**	**6.5**	**7.3**

Table 10: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	81.1	80.8	79.5	80.7	**80.5**
2	DBW303 (C)	201	82.8	83.5	80.9	83.3	**82.6**
3	DBW187 (C)	205	78.7	82.4	79.5	81.0	**80.4**
4	GW322 (C)	206	82.8	82.0	79.4	82.2	**81.6**
5	GW543	202	81.9	82.2	79.9	83.0	**81.8**
6	CG1044	204	81.8	82.2	80.8	83.3	**82.0**
Mean			**81.5**	**82.2**	**80.0**	**82.3**	**81.5**

Table 11: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	10.3	12.4	10.3	10.4	**10.9**
2	DBW303 (C)	201	10.9	12.7	10.4	10.5	**11.1**
3	DBW187 (C)	205	10.6	13.4	10.7	10.2	**11.2**
4	GW322 (C)	206	10.1	11.6	9.1	10.0	**10.2**
5	GW543	202	11.5	12.2	9.9	10.5	**11.0**
6	CG1044	204	11.9	11.9	10.0	9.9	**10.9**
Mean			**10.9**	**12.4**	**10.1**	**10.2**	**10.9**

Table 12: Sedimentation value (ml) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	54	57	49	52	**53**
2	DBW303 (C)	201	57	55	56	57	**56**
3	DBW187 (C)	205	71	62	53	51	**59**
4	GW322 (C)	206	43	38	40	41	**40**
5	GW543	202	54	53	50	51	**52**
6	CG1044	204	58	52	61	53	**56**
Mean			**56**	**53**	**52**	**51**	**53**

Table 13: Hardness index of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203		78			**78**
2	DBW303 (C)	201		83			**83**
3	DBW187 (C)	205		84			**84**
4	GW322 (C)	206		88			**88**
5	GW543	202		77			**77**
6	CG1044	204		86			**86**
Mean				**83**			**83**

Table 14: Phenol test score (Max-10) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	6.5	6.0	8.0	8.0	**7.1**
2	DBW303 (C)	201	4.0	4.5	5.0	7.0	**5.1**
3	DBW187 (C)	205	5.5	6.5	7.5	7.5	**6.8**
4	GW322 (C)	206	5.0	4.5	5.5	7.0	**5.5**
5	GW543	202	3.5	3.0	3.0	3.5	**3.3**
6	CG1044	204	6.5	5.5	7.0	7.0	**6.5**
Mean			**5.2**	**5.0**	**6.0**	**6.7**	**5.7**

Table 15: Grain iron content (ppm) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	31.1	36.9	39.4	35.3	**35.7**
2	DBW303 (C)	201	33.1	42.9	38.9	37.2	**38.0**
3	DBW187 (C)	205	33.3	38.0	39.0	34.2	**36.1**
4	GW322 (C)	206	33.9	38.1	33.9	35.0	**35.2**
5	GW543	202	34.5	41.3	40.9	36.3	**38.3**
6	CG1044	204	37.0	40.1	34.8	34.3	**36.6**
Mean			**33.8**	**39.6**	**37.8**	**35.4**	**36.6**

Table 16: Grain zinc content (ppm) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	37.0	37.5	33.3	29.9	**34.4**
2	DBW303 (C)	201	39.5	41.2	32.0	31.3	**36.0**
3	DBW187 (C)	205	35.6	36.0	31.8	34.6	**34.5**
4	GW322 (C)	206	38.6	47.0	34.8	31.9	**38.1**
5	GW543	202	37.7	40.2	33.8	32.2	**36.0**
6	CG1044	204	37.3	41.6	29.5	29.0	**34.4**
Mean			**37.6**	**40.6**	**32.5**	**31.5**	**35.6**

Section C

End-product Quality (AVT and HYPT)

Chapati

Bread

Biscuit

Gluten

Pasta

AVT (Tables 1-8b)
HYPT CZ (Tables 9a-9g)

Table 1: Chapati quality (Max Score - 10) of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	7.5	7.4	6.4	6.5	7.3	8.0	**7.2**
2	HD2967 (C)	103	8.2	7.7	7.3	6.5	7.8	8.0	**7.6**
3	DBW187 (C)	104	7.1	7.9	6.8	6.2	7.5	7.3	**7.1**
4	HD3086 (C)	105	7.1	7.3	7.5	6.8	7.9	6.9	**7.2**
5	PBW826(I) (C)	108	8.2	7.6	6.5	6.7	7.9	7.5	**7.4**
6	DBW222 (C)	110	7.7	7.3	7.3	6.3	7.1	7.9	**7.3**
Mean			**7.6**	**7.5**	**7.0**	**6.5**	**7.6**	**7.6**	**7.3**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	7.8	7.4	7.1	7.4	7.4	7.7	**7.4**
2	DBW296 (C)	302	8.0	7.7	6.8	7.0	7.5	7.1	**7.3**
3	HI1654(I) (C)	306	7.9	7.0	7.4	7.8	7.9	7.5	**7.6**
4	HD3369(I) (C)	307	7.4	7.7	6.8	8.1	7.7	7.5	**7.5**
5	PBW644 (C)	308	7.4	7.3	7.4	7.4	8.1	7.3	**7.5**
6	HI1653(I) (C)	311	7.5	7.4	7.8	7.8	7.1	8.0	**7.6**
7	NIAW3170 (C)	312	6.9	7.3	7.0	7.5	8.0	7.9	**7.4**
Mean			**7.6**	**7.4**	**7.2**	**7.6**	**7.7**	**7.5**	**7.5**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	7.8	8.0	8.1	8.3	**8.0**
2	PBW826(I) (C)	102	7.6	8.2	8.0	7.5	**7.8**
3	DBW187 (C)	104	8.1	7.4	7.7	7.4	**7.6**
4	HD3086 (C)	105	7.9	7.7	7.6	7.6	**7.7**
5	DBW222 (C)	107	8.1	8.1	8.1	8.2	**8.1**
6	HD2967 (C)	109	7.5	8.0	7.6	8.0	**7.8**
7	HD3249 (C)	110	7.4	8.1	7.3	7.3	**7.5**
Mean			**7.8**	**7.9**	**7.8**	**7.8**	**7.8**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	102	8.2	7.9	8.3	8.3	**8.2**
2	NWS2194*	103	8.4	7.3	8.0	8.2	**7.9**
3	HI1650(I) (C)	104	8.4	7.8	7.9	8.3	**8.1**
4	GW513 (C)	105	8.2	8.1	7.2	8.2	**7.9**
5	MACS6768(I) (C)	106	8.3	7.9	8.3	8.4	**8.2**
6	HI1636 (C)	109	8.3	8.1	7.3	8.3	**8.0**
7	GW322 (C)	110	8.0	7.8	7.6	7.8	**7.8**
Mean			**8.2**	**7.8**	**7.8**	**8.2**	**8.0**
	Restricted Irrigated Timely Sown						
1	DBW359*	301	8.2	7.5	7.6	7.5	**7.7**
2	CG1040*	302	8.0	8.1	7.8	8.3	**8.0**
3	MP3288 (C)	304	8.3	8.2	7.2	8.1	**7.9**
4	CG1036(I) (C)	305	8.4	8.0	7.5	7.9	**8.0**
5	HI1655(I) (C)	306	8.1	7.9	7.4	8.0	**7.8**
6	DBW110 (C)	308	8.4	8.2	7.7	7.3	**7.9**
Mean			**8.2**	**8.0**	**7.5**	**7.8**	**7.9**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	103	7.8	7.4	7.7	**7.7**
2	GW322 (C)	112	8.0	8.0	7.8	**7.9**
3	DBW187 (C)	116	8.0	8.0	7.7	**7.9**
4	MACS6222 (C)	118	7.5	7.9	8.1	**7.8**
Mean			**7.8**	**7.8**	**7.8**	**7.8**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	301	8.2	6.7	7.5	**7.5**
2	DBW359*	302	7.0	7.4	7.9	**7.4**
3	HI1665*	306	6.7	8.2	7.1	**7.3**
4	NIAW3170 (C)	307	7.8	7.4	8.0	**7.7**
5	HI1605 (C)	310	7.6	7.2	7.3	**7.4**
Mean			**7.4**	**7.4**	**7.6**	**7.5**

Table 2: Bread quality loaf volume (cc) of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	590	545	575	505	565	565	**558**
2	HD2967 (C)	103	575	590	585	520	605	600	**579**
3	DBW187 (C)	104	570	575	570	505	505	570	**549**
4	HD3086 (C)	105	605	535	590	525	575	585	**569**
5	PBW826(I) (C)	108	575	515	610	480	530	545	**543**
6	DBW222 (C)	110	565	515	575	525	535	585	**550**
Mean			**580**	**546**	**584**	**510**	**553**	**575**	**558**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	575	625	610	515	580	645	**592**
2	DBW296 (C)	302	610	630	645	600	580	595	**610**
3	HI1654(I) (C)	306	565	590	610	600	590	625	**597**
4	HD3369(I) (C)	307	540	620	515	560	530	615	**563**
5	PBW644 (C)	308	510	535	555	520	530	590	**540**
6	HI1653(I) (C)	311	540	580	605	465	565	610	**561**
7	NIAW3170 (C)	312	545	490	590	535	500	545	**534**
Mean			**555**	**581**	**590**	**542**	**554**	**604**	**571**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	585	570	580	510	**561**
2	PBW826(I) (C)	102	625	620	500	545	**573**
3	DBW187 (C)	104	625	585	550	520	**570**
4	HD3086 (C)	105	610	600	540	550	**575**
5	DBW222 (C)	107	580	615	570	560	**581**
6	HD2967 (C)	109	630	575	600	560	**591**
7	HD3249 (C)	110	595	585	550	545	**569**
Mean			**607**	**593**	**556**	**541**	**574**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	103	600	410	520	585	**529**
2	NWS2194*	104	550	475	560	465	**513**
3	HI1650(I) (C)	102	445	410	465	475	**449**
4	GW513 (C)	105	385	435	385	455	**415**
5	MACS6768(I) (C)	106	380	490	355	445	**418**
6	HI1636 (C)	109	415	505	450	530	**475**
7	GW322 (C)	110	450	485	455	480	**468**
Mean			**461**	**459**	**456**	**491**	**466**
	Restricted Irrigated Timely Sown						
1	DBW359*	302	435	490	410	420	**439**
2	CG1040*	306	485	500	490	415	**473**
3	MP3288 (C)	301	490	545	405	420	**465**
4	CG1036(I) (C)	304	440	555	435	375	**451**
5	HI1655(I) (C)	305	430	425	380	370	**401**
6	DBW110 (C)	308	525	575	470	455	**506**
Mean			**468**	**515**	**432**	**409**	**456**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	112	565	500	535	**533**
2	GW322 (C)	103	475	505	485	**488**
3	DBW187 (C)	116	550	535	475	**520**
4	MACS6222 (C)	118	510	460	470	**480**
Mean			**525**	**500**	**491**	**505**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	302	560	445	515	**507**
2	DBW359*	306	665	565	505	**578**
3	HI1665*	307	440	425	425	**430**
4	NIAW3170 (C)	301	540	490	500	**510**
5	HI1605 (C)	310	580	535	440	**518**
Mean			**557**	**492**	**477**	**509**

Table 3: Bread quality score (Max 10) of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	7.8	6.3	7.0	5.3	6.7	7.0	**6.7**
2	HD2967 (C)	103	7.8	7.6	7.8	6.4	7.5	7.6	**7.4**
3	DBW187 (C)	104	7.2	7.2	7.7	5.6	5.9	7.3	**6.8**
4	HD3086 (C)	105	7.9	6.4	7.3	6.4	7.1	7.1	**7.0**
5	PBW826(I) (C)	108	7.4	5.7	7.4	5.3	5.9	6.3	**6.3**
6	DBW222 (C)	110	7.0	5.7	6.3	5.9	5.5	7.0	**6.2**
Mean			**7.5**	**6.5**	**7.2**	**5.8**	**6.4**	**7.0**	**6.8**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	7.1	8.4	8.2	6.2	7.3	9.0	**7.7**
2	DBW296 (C)	302	7.8	8.4	8.4	7.6	7.4	6.8	**7.7**
3	HI1654(I) (C)	306	6.7	7.8	7.4	8.0	7.6	8.4	**7.7**
4	HD3369(I) (C)	307	6.4	8.4	5.9	6.9	6.6	8.3	**7.1**
5	PBW644 (C)	308	5.8	6.0	6.6	5.5	5.5	7.4	**6.1**
6	HI1653(I) (C)	311	6.8	7.0	7.9	5.6	7.2	8.1	**7.1**
7	NIAW3170 (C)	312	6.4	4.9	6.9	5.6	4.9	6.0	**5.8**
Mean			**6.7**	**7.3**	**7.3**	**6.5**	**6.7**	**7.7**	**7.0**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	8.2	7.6	7.9	5.5	**7.3**
2	PBW826(I) (C)	102	9.0	7.6	5.8	6.4	**7.2**
3	DBW187 (C)	104	7.4	7.9	7.2	6.0	**7.1**
4	HD3086 (C)	105	8.5	8.0	6.8	6.5	**7.4**
5	DBW222 (C)	107	8.1	7.6	7.0	7.0	**7.4**
6	HD2967 (C)	109	8.8	8.0	8.1	7.3	**8.1**
7	HD3249 (C)	110	8.6	8.6	7.0	6.4	**7.7**
Mean			**8.4**	**7.9**	**7.1**	**6.4**	**7.5**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	103	7.6	4.2	6.5	7.6	**6.5**
2	NWS2194*	104	6.9	5.7	7.6	5.2	**6.4**
3	HI1650(I) (C)	102	4.7	4.1	5.2	5.6	**4.9**
4	GW513 (C)	105	3.2	4.5	3.1	5.5	**4.1**
5	MACS6768(I) (C)	106	3.2	5.9	3.1	4.7	**4.2**
6	HI1636 (C)	109	4.5	6.3	5.5	6.5	**5.7**
7	GW322 (C)	110	5.3	5.9	5.5	5.4	**5.5**
Mean			**5.1**	**5.2**	**5.2**	**5.8**	**5.3**
	Restricted Irrigated Timely Sown						
1	DBW359*	302	4.9	5.8	4.3	4.3	**4.8**
2	CG1040*	306	5.6	5.9	6.1	4.5	**5.5**
3	MP3288 (C)	301	5.7	6.6	4.0	4.3	**5.1**
4	CG1036(I) (C)	304	5.1	7.2	5.3	3.8	**5.4**
5	HI1655(I) (C)	305	4.5	4.4	3.2	3.8	**4.0**
6	DBW110 (C)	308	6.7	7.2	5.7	5.5	**6.3**
Mean			**5.4**	**6.2**	**4.8**	**4.4**	**5.2**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	112	6.4	4.7	6.3	**5.8**
2	GW322 (C)	103	5.2	5.6	5.3	**5.4**
3	DBW187 (C)	116	6.2	6.2	5.5	**5.9**
4	MACS6222 (C)	118	5.9	4.9	4.7	**5.2**
Mean			**5.9**	**5.3**	**5.5**	**5.6**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	302	7.0	4.8	5.6	**5.8**
2	DBW359*	306	8.6	7.8	5.6	**7.3**
3	HI1665*	307	4.5	4.1	4.4	**4.3**
4	NIAW3170 (C)	301	6.2	5.3	5.1	**5.5**
5	HI1605 (C)	310	8.1	6.3	4.9	**6.4**
Mean			**6.9**	**5.6**	**5.1**	**5.9**

Table 4: Biscuit spread factor of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	7.8	7.9	8.2	8.5	8.1	9.3	**8.3**
2	HD2967 (C)	103	9.9	6.9	8.8	9.4	8.7	9.8	**8.9**
3	DBW187 (C)	104	8.7	8.9	7.6	8.9	8.8	8.7	**8.6**
4	HD3086 (C)	105	8.5	8.1	7.8	9.2	8.0	8.2	**8.3**
5	PBW826(I) (C)	108	8.4	9.1	8.1	8.0	9.0	8.2	**8.5**
6	DBW222 (C)	110	7.5	8.2	9.3	8.8	9.4	9.1	**8.7**
Mean			**8.5**	**8.2**	**8.3**	**8.8**	**8.7**	**8.9**	**8.6**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	11.7	9.4	9.8	10.1	8.1	8.8	**9.7**
2	DBW296 (C)	302	9.4	12.1	11.1	13.6	10.8	9.7	**11.1**
3	HI1654(I) (C)	306	8.7	10.2	7.4	11.0	12.1	11.3	**10.1**
4	HD3369(I) (C)	307	10.3	10.4	8.8	9.9	9.7	9.2	**9.7**
5	PBW644 (C)	308	10.2	9.4	8.6	9.2	8.6	8.8	**9.1**
6	HI1653(I) (C)	311	9.5	8.9	8.5	8.7	9.2	8.7	**8.9**
7	NIAW3170 (C)	312	8.7	13.9	15.1	12.0	11.0	10.6	**11.9**
Mean			**9.8**	**10.6**	**9.9**	**10.7**	**9.9**	**9.6**	**10.1**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	9.7	7.4	8.7	8.3	**8.5**
2	PBW826(I) (C)	102	8.6	8.3	9.5	8.3	**8.7**
3	DBW187 (C)	104	9.5	8.5	9.5	8.8	**9.1**
4	HD3086 (C)	105	9.2	8.8	8.6	8.1	**8.7**
5	DBW222 (C)	107	9.9	7.2	9.0	8.5	**8.6**
6	HD2967 (C)	109	9.9	8.2	8.9	9.4	**9.1**
7	HD3249 (C)	110	9.9	9.5	8.8	8.7	**9.2**
Mean			**9.5**	**8.3**	**9.0**	**8.6**	**8.8**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	103	8.4	8.5	7.6	8.6	**8.3**
2	NWS2194*	104	9.3	8.7	9.3	8.4	**8.9**
3	HI1650(I) (C)	102	8.5	8.2	8.4	8.4	**8.4**
4	GW513 (C)	105	8.2	7.9	8.0	9.0	**8.3**
5	MACS6768(I) (C)	106	7.8	8.4	7.4	7.4	**7.8**
6	HI1636 (C)	109	8.4	8.3	8.6	6.6	**8.0**
7	GW322 (C)	110	9.3	7.8	8.6	9.0	**8.7**
Mean			**8.5**	**8.3**	**8.3**	**8.2**	**8.3**
	Restricted Irrigated Timely Sown						
1	DBW359*	302	8.3	7.4	7.8	8.9	**8.1**
2	CG1040*	306	8.0	8.8	8.4	8.4	**8.4**
3	MP3288 (C)	301	10.0	9.0	8.8	8.2	**9.0**
4	CG1036(I) (C)	304	7.9	7.5	8.3	9.4	**8.3**
5	HI1655(I) (C)	305	7.3	6.7	7.9	8.7	**7.6**
6	DBW110 (C)	308	8.5	8.8	9.4	9.0	**8.9**
Mean			**8.3**	**8.0**	**8.4**	**8.8**	**8.4**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	112	9.5	8.9	9.0	**9.1**
2	GW322 (C)	103	8.0	8.6	8.5	**8.4**
3	DBW187 (C)	116	7.2	8.7	8.4	**8.1**
4	MACS6222 (C)	118	8.2	7.1	8.7	**8.0**
Mean			**8.2**	**8.3**	**8.6**	**8.4**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	302	6.4	9.8	9.2	**8.5**
2	DBW359*	306	7.5	8.5	8.6	**8.2**
3	HI1665*	307	6.7	7.7	8.4	**7.6**
4	NIAW3170 (C)	301	8.7	11.5	11.2	**10.5**
5	HI1605 (C)	310	7.3	8.2	8.4	**8.0**
Mean			**7.3**	**9.1**	**9.2**	**8.5**

Table 5: Wet gluten (%) of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	26.7	24.8	29.3	19.8	26.8	28.9	**26.1**
2	HD2967 (C)	103	29.0	27.4	32.3	20.9	31.9	27.5	**28.2**
3	DBW187 (C)	104	30.0	28.7	29.9	19.1	25.8	27.0	**26.8**
4	HD3086 (C)	105	31.0	26.1	33.3	21.5	27.0	30.9	**28.3**
5	PBW826(I) (C)	108	24.8	24.9	29.3	17.9	24.6	31.8	**25.6**
6	DBW222 (C)	110	27.5	24.4	31.8	20.7	26.2	31.3	**27.0**
Mean			**28.2**	**26.1**	**31.0**	**20.0**	**27.1**	**29.6**	**27.0**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	23.3	28.3	23.2	16.0	22.5	30.6	**24.0**
2	DBW296 (C)	302	24.7	20.9	20.3	18.0	20.2	25.8	**21.7**
3	HI1654(I) (C)	306	25.2	20.0	23.9	20.1	19.6	26.0	**22.5**
4	HD3369(I) (C)	307	25.7	18.6	24.5	16.7	18.3	26.8	**21.8**
5	PBW644 (C)	308	28.5	25.4	28.7	23.3	25.8	37.3	**28.2**
6	HI1653(I) (C)	311	24.7	26.2	25.0	18.5	21.3	29.2	**24.2**
7	NIAW3170 (C)	312	27.9	25.5	26.8	23.1	26.6	32.2	**27.0**
Mean			**25.7**	**23.6**	**24.6**	**19.4**	**22.0**	**29.7**	**24.2**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	27.3	23.5	31.7	20.7	**25.8**
2	PBW826(I) (C)	102	24.7	21.7	23.5	21.0	**22.7**
3	DBW187 (C)	104	26.2	22.7	25.5	22.2	**24.2**
4	HD3086 (C)	105	20.8	23.4	27.4	22.5	**23.5**
5	DBW222 (C)	107	26.1	24.0	27.0	20.7	**24.5**
6	HD2967 (C)	109	24.8	24.9	27.7	21.2	**24.7**
7	HD3249 (C)	110	23.9	22.1	23.7	21.1	**22.7**
Mean			**24.8**	**23.2**	**26.6**	**21.3**	**24.0**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	103	32.7	33.7	30.1	34.7	**32.8**
2	NWS2194*	104	29.1	31.4	28.2	29.6	**29.6**
3	HI1650(I) (C)	102	29.6	30.4	28.2	29.4	**29.4**
4	GW513 (C)	105	30.2	34.0	30.5	29.0	**30.9**
5	MACS6768(I) (C)	106	35.2	34.9	29.1	34.0	**33.3**
6	HI1636 (C)	109	29.5	37.6	26.4	30.0	**30.9**
7	GW322 (C)	110	27.2	33.7	26.4	26.5	**28.5**
Mean			**30.5**	**33.7**	**28.4**	**30.5**	**30.8**
	Restricted Irrigated Timely Sown						
1	DBW359*	302	32.4	34.6	27.6	22.8	**29.4**
2	CG1040*	306	31.6	32.4	26.1	23.8	**28.5**
3	MP3288 (C)	301	32.6	31.1	25.2	24.7	**28.4**
4	CG1036(I) (C)	304	27.3	32.5	20.8	18.5	**24.8**
5	HI1655(I) (C)	305	29.9	38.2	24.7	25.0	**29.5**
6	DBW110 (C)	308	28.5	33.3	27.1	24.8	**28.4**
Mean			**30.4**	**33.7**	**25.3**	**23.3**	**28.1**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	112	35.5	32.0	28.6	**32.0**
2	GW322 (C)	103	35.9	25.0	29.2	**30.0**
3	DBW187 (C)	116	39.0	30.8	24.5	**31.4**
4	MACS6222 (C)	118	44.0	36.3	33.2	**37.8**
Mean			**38.6**	**31.0**	**28.9**	**32.8**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	302	39.9	29.7	30.6	**33.4**
2	DBW359*	306	37.1	26.7	26.5	**30.1**
3	HI1665*	307	42.2	34.5	31.7	**36.1**
4	NIAW3170 (C)	301	36.7	30.1	31.1	**32.6**
5	HI1605 (C)	310	41.7	29.7	28.0	**33.1**
Mean			**39.5**	**30.1**	**29.6**	**33.1**

Table 6: Dry gluten (%) of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	8.7	8.2	9.8	6.6	8.9	9.6	**8.6**
2	HD2967 (C)	103	9.4	9.1	10.7	7.0	10.4	9.1	**9.3**
3	DBW187 (C)	104	9.8	9.6	10.5	6.8	9.2	9.3	**9.2**
4	HD3086 (C)	105	10.3	8.8	11.1	7.4	9.1	10.4	**9.5**
5	PBW826(I) (C)	108	8.1	8.5	9.8	6.0	8.2	10.8	**8.6**
6	DBW222 (C)	110	9.0	8.3	10.6	7.0	8.9	10.5	**9.1**
Mean			**9.2**	**8.8**	**10.4**	**6.8**	**9.1**	**10.0**	**9.0**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	8.1	10.0	8.2	5.6	7.9	10.6	**8.4**
2	DBW296 (C)	302	8.4	7.3	7.0	6.0	6.9	9.3	**7.5**
3	HI1654(I) (C)	306	8.6	7.0	8.6	6.4	6.4	9.0	**7.7**
4	HD3369(I) (C)	307	8.9	6.6	8.7	5.8	6.6	9.6	**7.7**
5	PBW644 (C)	308	9.2	8.2	9.2	7.8	9.4	11.8	**9.3**
6	HI1653(I) (C)	311	8.5	8.8	8.5	6.4	7.6	9.7	**8.3**
7	NIAW3170 (C)	312	9.1	8.7	8.8	7.7	8.8	10.7	**9.0**
Mean			**8.7**	**8.1**	**8.4**	**6.5**	**7.7**	**10.1**	**8.2**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	9.1	8.0	10.8	7.3	**8.8**
2	PBW826(I) (C)	102	8.3	7.7	8.0	7.4	**7.9**
3	DBW187 (C)	104	8.7	8.3	9.1	8.0	**8.5**
4	HD3086 (C)	105	8.0	8.0	9.2	8.0	**8.3**
5	DBW222 (C)	107	8.7	8.2	9.4	7.1	**8.4**
6	HD2967 (C)	109	8.4	8.4	9.2	7.8	**8.5**
7	HD3249 (C)	110	8.2	7.7	8.3	7.6	**8.0**
Mean			**8.5**	**8.0**	**9.1**	**7.6**	**8.3**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	103	10.9	10.5	9.8	11.1	**10.6**
2	NWS2194*	104	9.6	10.9	9.5	9.9	**10.0**
3	HI1650(I) (C)	102	9.6	9.4	9.5	9.9	**9.6**
4	GW513 (C)	105	9.5	11.1	9.7	9.3	**9.9**
5	MACS6768(I) (C)	106	11.9	11.5	10.0	11.6	**11.3**
6	HI1636 (C)	109	9.0	11.9	8.8	9.5	**9.8**
7	GW322 (C)	110	9.0	11.1	8.5	8.4	**9.3**
Mean			**9.9**	**10.9**	**9.4**	**10.0**	**10.1**
	Restricted Irrigated Timely Sown						
1	DBW359*	302	10.7	11.3	8.7	7.4	**9.5**
2	CG1040*	306	10.2	11.1	8.7	8.0	**9.5**
3	MP3288 (C)	301	10.4	10.5	8.4	7.9	**9.3**
4	CG1036(I) (C)	304	9.2	11.2	7.1	6.3	**8.5**
5	HI1655(I) (C)	305	10.0	14.1	8.3	8.5	**10.2**
6	DBW110 (C)	308	9.2	11.4	9.0	8.3	**9.5**
Mean			**10.0**	**11.6**	**8.4**	**7.7**	**9.4**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	112	11.0	11.2	9.4	**10.5**
2	GW322 (C)	103	13.1	8.3	10.4	**10.6**
3	DBW187 (C)	116	13.2	10.2	8.2	**10.5**
4	MACS6222 (C)	118	15.8	12.1	11.4	**13.1**
Mean			**13.3**	**10.5**	**9.9**	**11.2**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	302	13.7	9.8	9.9	**11.1**
2	DBW359*	306	13.2	9.3	8.9	**10.5**
3	HI1665*	307	14.6	11.6	10.4	**12.2**
4	NIAW3170 (C)	301	12.0	9.5	9.9	**10.5**
5	HI1605 (C)	310	14.2	9.6	9.4	**11.1**
Mean			**13.5**	**10.0**	**9.7**	**11.1**

Table 7: Gluten index (Max 100) of *T. aestivum* genotypes in AVTs

North Western Plains Zone

S. No.	Variety	Code	Ludhiana	P.nagar	Delhi	Hisar	Karnal	Durgapura	Mean
	Irrigated Timely Sown								
1	HD3386*	113	91	92	86	95	84	94	**90**
2	HD2967 (C)	103	84	87	85	93	74	87	**85**
3	DBW187 (C)	104	71	91	97	98	98	99	**92**
4	HD3086 (C)	105	72	97	74	96	92	95	**88**
5	PBW826(I) (C)	108	86	97	87	98	95	95	**93**
6	DBW222 (C)	110	69	92	92	92	90	92	**88**
Mean			**79**	**93**	**87**	**95**	**89**	**94**	**89**
	Restricted Irrigated Timely Sown								
1	WH1402*	305	99	82	99	98	96	98	**95**
2	DBW296 (C)	302	99	99	98	98	99	99	**99**
3	HI1654(I) (C)	306	86	99	99	93	95	99	**95**
4	HD3369(I) (C)	307	99	99	99	99	99	99	**99**
5	PBW644 (C)	308	81	82	84	94	85	79	**84**
6	HI1653(I) (C)	311	98	89	99	98	99	93	**96**
7	NIAW3170 (C)	312	77	79	90	70	84	82	**80**
Mean			**91**	**90**	**95**	**93**	**94**	**93**	**93**

North Eastern Plains Zone

S. No.	Variety	Code	Kanpur	Varanasi	Pusa	Sabour	Mean
	Irrigated Timely Sown						
1	HD3388*	106	84	99	87	99	**92**
2	PBW826(I) (C)	102	96	98	96	98	**97**
3	DBW187 (C)	104	98	95	99	98	**98**
4	HD3086 (C)	105	99	99	96	97	**98**
5	DBW222 (C)	107	90	98	93	99	**95**
6	HD2967 (C)	109	95	97	91	98	**95**
7	HD3249 (C)	110	99	99	99	99	**99**
Mean			**94**	**98**	**94**	**98**	**96**

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
	Irrigated Timely Sown						
1	GW547*	103	64	49	72	56	**60**
2	NWS2194*	104	99	98	98	93	**97**
3	HI1650(I) (C)	102	60	37	74	62	**58**
4	GW513 (C)	105	60	74	54	56	**61**
5	MACS6768(I) (C)	106	48	44	64	50	**52**
6	HI1636 (C)	109	58	59	75	59	**63**
7	GW322 (C)	110	64	61	58	55	**60**
Mean			**65**	**60**	**71**	**62**	**64**
	Restricted Irrigated Timely Sown						
1	DBW359*	302	61	58	45	75	**60**
2	CG1040*	306	86	88	87	96	**89**
3	MP3288 (C)	301	69	88	84	83	**81**
4	CG1036(I) (C)	304	97	97	99	99	**98**
5	HI1655(I) (C)	305	64	60	64	62	**63**
6	DBW110 (C)	308	81	89	81	94	**86**
Mean			**76**	**80**	**77**	**85**	**79**

Peninsular Zone

S. No.	Variety	Code	Dharwad	Pune	Niphad	Mean
	Irrigated Timely Sown					
1	MP1378*	112	41	50	52	**48**
2	GW322 (C)	103	53	68	62	**61**
3	DBW187 (C)	116	79	83	97	**86**
4	MACS6222 (C)	118	49	46	50	**48**
Mean			**56**	**62**	**65**	**61**
	Restricted Irrigated Timely Sown					
1	NIAW4028*	302	89	73	70	**77**
2	DBW359*	306	98	98	94	**97**
3	HI1665*	307	41	43	48	**44**
4	NIAW3170 (C)	301	76	47	60	**61**
5	HI1605 (C)	310	70	71	80	**74**
Mean			**75**	**66**	**70**	**71**

Peninsular Zone (Restricted Irrigated Timely Sown)

Table 8a: Pasta cooking quality of *T. durum* genotypes in AVTs

S. No.	Variety	Code	Cooking time (Min.)	Water absorption (%)	Water uptake ratio	Gruel solid loss (%)	Stickiness
1	UAS478(d)*	305	10.6	127.3	1.3	10.0	NS
2	HI8840(d)*	312	8.6	113.0	1.3	13.0	PS
3	NIDW1149(d) (C)	309	9.3	114.0	1.3	8.3	PS
4	UAS446(d) (C)	311	9.6	119.0	1.4	10.0	PS
5	UAS481(d)	304	10.3	121.3	1.3	15.0	PS
6	DDW61(d)	308	8.0	112.0	1.3	10.0	PS
Mean			**9.4**	**117.8**	**1.3**	**11.1**	

PS = Partial sticky

Table 8b: Pasta sensory evaluation of *T. durum* genotypes in AVTs

S. No.	Variety	Code	colour	Texture	Flavour/Aroma	Taste	Overall acceptability (Out of 9)
1	UAS478(d)*	305	5.4	5.3	5.3	5.3	**5.3**
2	HI8840(d)*	312	5.4	6.0	5.7	5.0	**5.5**
3	NIDW1149(d) (C)	309	5.0	6.0	5.6	5.0	**5.4**
4	UAS446(d) (C)	311	5.7	6.0	6.0	6.0	**5.9**
5	UAS481(d)	304	5.4	5.6	5.7	5.3	**5.5**
6	DDW61(d)	308	6.7	7.0	5.7	6.0	**6.4**
Mean			**5.6**	**6.0**	**5.7**	**5.4**	**5.7**

T. aestivum (CZ HYPT)

Table 9a: Chapati quality (Max Score - 10) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	8.3	8.0	7.1	7.3	**7.7**
2	DBW303 (C)	201	8.5	8.2	7.7	7.8	**8.1**
3	DBW187 (C)	205	8.3	8.0	7.4	7.9	**7.9**
4	GW322 (C)	206	8.3	8.0	8.1	7.6	**8.0**
Mean			**8.4**	**8.0**	**7.6**	**7.7**	**7.9**

Table 9b: Bread loaf volume (cc) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	435	395	470	440	**435**
2	DBW303 (C)	201	420	500	480	460	**465**
3	DBW187 (C)	205	425	485	440	450	**450**
4	GW322 (C)	206	410	450	400	370	**408**
Mean			**418**	**478**	**440**	**427**	**441**

Table 9c: Bread quality score (Max 10) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	4.9	3.5	5.3	4.9	**4.6**
2	DBW303 (C)	201	4.5	5.8	6.2	5.7	**5.5**
3	DBW187 (C)	205	4.9	5.9	5.3	5.7	**5.4**
4	GW322 (C)	206	4.5	4.8	3.5	3.9	**4.2**
Mean			**4.7**	**5.0**	**5.1**	**5.0**	**4.9**

Table 9d: Biscuit spread factor of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	8.2	8.1	9.8	7.7	**8.5**
2	DBW303 (C)	201	7.9	7.9	7.7	9.1	**8.2**
3	DBW187 (C)	205	8.1	7.8	8.6	8.7	**8.3**
4	GW322 (C)	206	7.8	8.4	9.4	9.7	**8.8**
Mean			**8.0**	**8.0**	**8.9**	**8.8**	**8.4**

Table 9e: Wet gluten content (%) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	26.3	32.6	23.0	25.0	**26.7**
2	DBW303 (C)	201	28.8	32.3	26.3	24.5	**28.0**
3	DBW187 (C)	205	25.8	31.5	23.0	23.8	**26.0**
4	GW322 (C)	206	26.9	29.9	22.3	23.5	**25.7**
Mean			**27.0**	**31.6**	**23.7**	**24.2**	**26.6**

Table 9f: Dry gluten content (%) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	8.5	10.6	7.9	8.5	**8.9**
2	DBW303 (C)	201	9.5	10.7	8.8	8.5	**9.4**
3	DBW187 (C)	205	9.6	10.7	8.0	8.3	**9.2**
4	GW322 (C)	206	9.2	9.5	7.2	8.0	**8.5**
Mean			**9.2**	**10.4**	**8.0**	**8.3**	**9.0**

Table 9g: Gluten index of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Variety	Code	Vijapur	Junagarh	Indore	P.kheda	Mean
1	DBW377*	203	78	64	98	77	**79**
2	DBW303 (C)	201	59	64	82	93	**75**
3	DBW187 (C)	205	92	91	99	84	**92**
4	GW322 (C)	206	62	50	78	98	**72**
Mean			**73**	**67**	**89**	**88**	**79**

Section D

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Table 50: Grain appearance score (Max. 10) of *T. aestivum* genotypes in NIVT-1A

S. No.	Entry	Trial Code	NWPZ							NEPZ			Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Durgapura	Karnal	Mean	Kanpur	Varanasi	Mean	
1	HD3447	101	4.7	6.5	6.1	7.3	5.9	6.2	**6.1**	5.7	5.0	**5.4**	**5.9**
2	UBW18	102	6.3	6.1	5.1	5.9	6.7	6.8	**6.2**	5.8	4.7	**5.3**	**5.9**
3	UP3121	103	5.2	5.8	5.4	6.7	5.0	6.4	**5.8**	5.9	5.0	**5.5**	**5.7**
4	RAJ4577	104	4.4	7.9	6.7	5.3	5.5	6.0	**6.0**	6.6	5.3	**6.0**	**6.0**
5	WH1316	105	6.1	6.1	5.7	6.0	4.9	6.4	**5.9**	6.1	5.3	**5.7**	**5.8**
6	PBW912	106	5.4	7.2	7.1	6.7	6.3	6.2	**6.5**	6.8	4.3	**5.6**	**6.3**
7	JAUW711	107	4.3	6.0	4.7	5.3	4.6	6.0	**5.2**	5.6	5.7	**5.7**	**5.3**
8	PBW910	108	6.6	7.3	5.4	5.9	6.8	6.6	**6.4**	6.9	6.3	**6.6**	**6.5**
9	DBW408	109	5.3	6.6	5.5	5.6	6.2	6.4	**5.9**	7.1	6.3	**6.7**	**6.1**
10	RAJ4576	110	4.6	7.7	5.6	4.7	5.5	6.2	**5.7**	5.3	5.3	**5.3**	**5.6**
11	HD3472	111	4.9	4.7	5.0	4.6	6.1	6.2	**5.3**	4.8	5.1	**5.0**	**5.2**
12	HD3086 (C)	112	5.1	6.3	6.0	5.4	6.3	6.2	**5.9**	5.9	4.8	**5.4**	**5.8**
13	WH1315	113	6.1	7.6	5.5	6.7	5.6	6.0	**6.3**	7.2	5.5	**6.4**	**6.3**
14	NWS2442	114	5.0	6.1	4.8	5.4	4.5	6.6	**5.4**	5.5	5.4	**5.5**	**5.4**
15	DBW411	115	5.7	5.7	5.6	5.6	4.7	6.2	**5.6**	6.9	5.2	**6.1**	**5.7**
16	BCW28	116	4.5	5.6	5.0	5.7	6.5	6.0	**5.6**	6.7	4.2	**5.5**	**5.5**
17	PBW911	117	6.1	6.8	6.7	7.2	5.1	6.0	**6.3**	6.9	5.7	**6.3**	**6.3**
18	SVPWL21-15	118	4.0	5.5	6.1	5.1	4.7	5.8	**5.2**	7.1	4.4	**5.8**	**5.3**
19	HD3444	119	5.3	5.3	5.5	5.2	5.6	6.2	**5.5**	6.1	5.4	**5.8**	**5.6**
20	NW8072	120	6.7	6.4	5.5	5.7	6.5	6.4	**6.2**	6.8	4.1	**5.5**	**6.0**
21	K2201	121	4.5	6.4	5.5	5.3	5.1	6.4	**5.5**	5.5	5.3	**5.4**	**5.5**
22	HUW854	122	3.9	6.5	5.6	5.6	5.7	5.8	**5.5**	6.8	5.6	**6.2**	**5.7**
23	DBW410	123	5.7	6.9	5.5	6.8	4.8	6.6	**6.1**	6.7	5.8	**6.3**	**6.1**
24	UP3123	124	5.2	6.1	6.3	5.6	3.8	5.6	**5.4**	5.7	5.6	**5.7**	**5.5**
25	UP3122	125	4.6	6.7	5.0	5.8	5.3	6.2	**5.6**	5.3	5.1	**5.2**	**5.5**
26	DBW409	126	5.4	6.7	5.5	5.7	4.9	6.2	**5.7**	6.4	4.9	**5.7**	**5.7**
27	HD3446	127	6.3	6.2	6.0	5.7	5.3	6.2	**6.0**	5.3	4.9	**5.1**	**5.7**
28	DBW187 (C)	128	4.6	7.0	4.9	5.1	5.2	6.2	**5.5**	5.5	5.5	**5.5**	**5.5**
29	DBW222 (C)	129	5.0	5.9	5.7	5.8	3.8	5.8	**5.3**	4.8	5.4	**5.1**	**5.3**
30	DBW412	130	5.5	6.7	5.1	5.4	3.8	6.4	**5.5**	6.5	6.4	**6.5**	**5.7**
31	PBW909	131	4.8	6.9	6.3	6.9	5.7	6.2	**6.1**	6.0	4.2	**5.1**	**5.9**
32	KRL2106	132	5.0	6.3	5.0	7.0	4.3	6.0	**5.6**	4.8	5.5	**5.2**	**5.5**
33	PBW908	133	4.7	5.2	4.9	4.9	4.7	5.8	**5.0**	5.4	5.5	**5.5**	**5.1**
34	HD3445	134	5.3	5.5	5.2	5.4	6.0	5.8	**5.5**	5.3	6.2	**5.8**	**5.6**
35	BRW3944	135	6.9	6.8	6.7	6.7	6.4	6.4	**6.7**	7.0	5.5	**6.3**	**6.6**
36	RAJ4578	136	4.7	4.9	4.7	4.7	5.5	6.2	**5.1**	5.2	5.6	**5.4**	**5.2**
Mean			**5.2**	**6.3**	**5.6**	**5.8**	**5.4**	**6.2**	**5.7**	**6.1**	**5.3**	**5.7**	**5.7**

Table 51: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT-1A

S. No.	Entry	Trial Code	NWPZ							NEPZ			Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Durgapura	Karnal	Mean	Kanpur	Varanasi	Mean	
1	HD3447	101	73.0	77.8	75.8	78.3	70.5	76.1	**75.3**	72.0	72.5	**72.3**	**74.5**
2	UBW18	102	75.0	78.3	74.5	76.0	73.8	78.8	**76.1**	72.5	70.0	**71.3**	**74.9**
3	UP3121	103	73.5	77.3	75.8	77.5	68.0	77.9	**75.0**	71.5	71.5	**71.5**	**74.1**
4	RAJ4577	104	72.3	80.5	75.8	77.0	71.5	79.5	**76.1**	73.5	71.3	**72.4**	**75.2**
5	WH1316	105	76.3	78.8	76.3	76.8	69.0	79.7	**76.2**	72.8	74.3	**73.6**	**75.5**
6	PBW912	106	75.0	79.3	78.5	79.3	72.3	79.2	**77.3**	76.3	71.0	**73.7**	**76.4**
7	JAUW711	107	69.5	76.8	71.8	75.8	64.0	75.3	**72.2**	71.3	70.8	**71.1**	**71.9**
8	PBW910	108	75.8	79.0	76.0	77.0	72.0	78.8	**76.4**	73.0	73.8	**73.4**	**75.7**
9	DBW408	109	75.5	78.8	73.8	77.0	72.3	79.3	**76.1**	74.5	75.0	**74.8**	**75.8**
10	RAJ4576	110	74.8	78.3	74.0	75.3	69.5	78.8	**75.1**	71.8	73.3	**72.6**	**74.5**
11	HD3472	111	75.3	77.5	73.0	76.0	72.5	77.0	**75.2**	70.8	72.8	**71.8**	**74.4**
12	HD3086 (C)	112	74.0	78.3	75.5	75.5	71.5	76.6	**75.2**	73.0	69.8	**71.4**	**74.3**
13	WH1315	113	75.0	80.3	75.5	78.8	72.5	79.9	**77.0**	75.0	72.5	**73.8**	**76.2**
14	NWS2442	114	73.0	77.0	73.8	75.5	66.0	76.6	**73.7**	70.8	72.8	**71.8**	**73.2**
15	DBW411	115	75.3	76.5	77.0	76.5	70.0	75.9	**75.2**	74.0	70.0	**72.0**	**74.4**
16	BCW28	116	74.3	77.3	74.0	75.8	72.5	75.2	**74.9**	71.5	68.0	**69.8**	**73.6**
17	PBW911	117	75.3	78.3	77.0	78.0	71.5	78.4	**76.4**	74.3	72.0	**73.2**	**75.6**
18	SVPWL21-15	118	71.8	76.8	78.0	77.5	70.3	78.2	**75.4**	74.3	70.8	**72.6**	**74.7**
19	HD3444	119	74.0	78.8	76.0	76.3	71.3	77.7	**75.7**	72.0	73.0	**72.5**	**74.9**
20	NW8072	120	78.0	80.5	76.0	77.8	73.8	78.2	**77.4**	74.8	65.5	**70.2**	**75.6**
21	K2201	121	72.0	77.3	74.5	75.8	69.8	76.3	**74.3**	71.3	72.5	**71.9**	**73.7**
22	HUW854	122	75.0	78.5	76.3	78.5	72.0	80.8	**76.9**	73.0	69.8	**71.4**	**75.5**
23	DBW410	123	75.5	79.0	76.8	78.0	69.5	79.4	**76.4**	72.8	71.8	**72.3**	**75.4**
24	UP3123	124	73.3	77.3	76.0	76.3	66.5	78.3	**74.6**	72.3	74.5	**73.4**	**74.3**
25	UP3122	125	70.5	77.3	71.8	75.5	68.8	76.3	**73.4**	72.3	71.5	**71.9**	**73.0**
26	DBW409	126	74.0	78.3	75.8	75.8	69.3	78.7	**75.3**	72.8	72.3	**72.6**	**74.6**
27	HD3446	127	74.8	78.0	75.5	78.3	69.5	76.8	**75.5**	72.5	69.8	**71.2**	**74.4**
28	DBW187 (C)	128	73.0	78.3	75.5	75.5	70.0	76.9	**74.9**	71.5	73.0	**72.3**	**74.2**
29	DBW222 (C)	129	73.5	77.3	75.8	75.8	65.3	75.3	**73.8**	72.5	71.3	**71.9**	**73.4**
30	DBW412	130	75.3	78.3	75.0	75.3	63.3	76.7	**74.0**	72.5	75.3	**73.9**	**74.0**
31	PBW909	131	73.3	78.0	76.0	78.5	70.5	77.8	**75.7**	69.5	68.3	**68.9**	**74.0**
32	KRL2106	132	75.3	76.8	74.3	79.0	68.8	77.1	**75.2**	71.5	70.5	**71.0**	**74.2**
33	PBW908	133	73.0	76.0	73.3	74.3	68.3	75.8	**73.5**	70.5	71.3	**70.9**	**72.8**
34	HD3445	134	73.3	76.5	73.5	76.0	70.8	76.2	**74.4**	74.5	73.3	**73.9**	**74.3**
35	BRW3944	135	77.5	79.8	78.0	78.8	72.3	80.6	**77.8**	70.0	71.0	**70.5**	**76.0**
36	RAJ4578	136	71.3	75.5	72.5	73.8	68.0	76.7	**73.0**	70.0	70.0	**70.0**	**72.2**
Mean			**74.1**	**78.0**	**75.2**	**76.7**	**69.9**	**77.7**	**75.3**	**72.5**	**71.6**	**72.0**	**74.5**

Table 52: Protein content (%) of *T. aestivum* genotypes in NIVT-1A

S. No.	Entry	Trial Code	NWPZ							NEPZ			Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Durgapura	Karnal	Mean	Kanpur	Varanasi	Mean	
1	HD3447	101	12.4	11.1	13.4	11.0	12.0	11.3	**11.9**	12.6	11.8	**12.2**	**12.0**
2	UBW18	102	10.4	9.2	14.3	10.0	11.8	9.4	**10.8**	11.8	11.8	**11.8**	**11.1**
3	UP3121	103	12.8	10.5	14.0	11.6	13.9	11.2	**12.3**	12.4	12.0	**12.2**	**12.3**
4	RAJ4577	104	11.4	9.8	13.6	9.6	12.1	11.0	**11.2**	12.4	11.5	**11.9**	**11.4**
5	WH1316	105	10.2	8.4	12.8	10.3	12.4	10.3	**10.7**	11.8	11.9	**11.9**	**11.0**
6	PBW912	106	11.6	9.7	13.2	9.0	12.7	10.6	**11.1**	11.7	11.4	**11.6**	**11.2**
7	JAUW711	107	12.4	9.2	13.9	9.8	13.3	10.2	**11.4**	12.2	12.1	**12.1**	**11.6**
8	PBW910	108	11.6	10.1	14.6	11.5	12.3	10.9	**11.8**	11.7	11.6	**11.6**	**11.8**
9	DBW408	109	10.4	9.2	13.7	10.1	12.4	8.8	**10.7**	12.4	11.5	**12.0**	**11.1**
10	RAJ4576	110	10.5	10.2	13.8	12.4	13.5	10.4	**11.8**	12.2	10.9	**11.5**	**11.7**
11	HD3472	111	10.9	9.6	13.2	10.6	11.4	9.8	**10.9**	12.0	11.3	**11.7**	**11.1**
12	HD3086 (C)	112	11.1	9.3	13.3	10.3	12.9	9.8	**11.1**	10.7	11.2	**10.9**	**11.1**
13	WH1315	113	10.6	9.5	13.6	9.9	11.8	9.5	**10.8**	12.4	11.7	**12.1**	**11.1**
14	NWS2442	114	10.4	10.7	13.7	10.7	12.8	9.6	**11.3**	10.5	11.9	**11.2**	**11.3**
15	DBW411	115	9.4	9.4	12.6	9.8	12.0	9.2	**10.4**	11.9	12.0	**11.9**	**10.8**
16	BCW28	116	10.5	8.3	13.4	9.7	11.7	10.7	**10.7**	10.1	12.2	**11.1**	**10.8**
17	PBW911	117	12.3	11.5	13.9	11.4	13.1	11.5	**12.3**	12.8	10.9	**11.9**	**12.2**
18	SVPWL21-15	118	11.4	9.7	13.2	11.1	11.9	10.2	**11.3**	11.5	12.7	**12.1**	**11.5**
19	HD3444	119	10.6	8.2	13.2	10.8	12.1	11.0	**11.0**	12.3	11.6	**11.9**	**11.2**
20	NW8072	120	10.7	9.3	13.4	10.2	12.3	9.8	**11.0**	12.5	12.8	**12.7**	**11.4**
21	K2201	121	10.7	9.0	12.8	11.0	12.6	10.1	**11.0**	10.5	11.2	**10.8**	**11.0**
22	HUW854	122	10.9	10.3	12.9	9.8	11.0	10.1	**10.8**	11.5	11.8	**11.6**	**11.0**
23	DBW410	123	11.1	9.8	14.6	11.2	13.2	10.7	**11.7**	11.4	12.0	**11.7**	**11.7**
24	UP3123	124	11.6	11.0	14.6	12.0	15.3	11.0	**12.6**	11.4	11.5	**11.5**	**12.3**
25	UP3122	125	12.0	11.4	13.2	11.5	12.4	10.2	**11.8**	11.9	11.4	**11.6**	**11.7**
26	DBW409	126	10.8	9.4	14.2	10.4	13.2	10.0	**11.3**	13.4	11.1	**12.2**	**11.6**
27	HD3446	127	11.1	10.2	14.2	10.8	13.3	10.6	**11.7**	13.7	11.3	**12.5**	**11.9**
28	DBW187 (C)	128	11.4	8.4	13.9	11.5	12.4	10.5	**11.4**	12.3	11.8	**12.0**	**11.5**
29	DBW222 (C)	129	10.6	8.6	12.2	10.6	12.4	10.6	**10.8**	11.3	11.1	**11.2**	**10.9**
30	DBW412	130	10.4	10.1	13.2	10.6	13.2	10.6	**11.3**	12.2	11.3	**11.8**	**11.4**
31	PBW909	131	12.5	10.4	14.0	10.7	12.6	11.1	**11.9**	12.3	11.7	**12.0**	**11.9**
32	KRL2106	132	10.4	12.4	13.9	10.5	13.0	9.7	**11.6**	12.9	12.6	**12.7**	**11.9**
33	PBW908	133	11.4	8.2	13.3	11.8	12.7	10.1	**11.2**	11.5	10.5	**11.0**	**11.2**
34	HD3445	134	10.2	9.3	12.9	11.3	11.5	9.9	**10.9**	11.4	11.7	**11.6**	**11.0**
35	BRW3944	135	10.5	9.7	13.7	10.7	13.8	10.7	**11.5**	13.4	12.9	**13.2**	**11.9**
36	RAJ4578	136	11.2	9.6	12.8	12.1	11.8	10.4	**11.3**	12.9	11.4	**12.1**	**11.5**
Mean			**11.1**	**9.7**	**13.5**	**10.7**	**12.6**	**10.3**	**11.3**	**12.0**	**11.7**	**11.8**	**11.4**

Table 53: Sedimentation value (cc) of *T. aestivum* genotypes in NIVT-1A

S. No.	Entry	Trial Code	NWPZ							NEPZ			Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Durgapura	Karnal	Mean	Kanpur	Varanasi	Mean	
1	HD3447	101	51.0	33.0	37.0	42.0	50.0	53.4	**44.4**	42.0	45.0	**43.5**	**44.2**
2	UBW18	102	51.0	36.0	43.0	42.0	50.0	51.5	**45.6**	49.0	52.0	**50.5**	**46.8**
3	UP3121	103	49.0	43.0	47.0	46.0	54.0	49.2	**48.0**	50.0	46.0	**48.0**	**48.0**
4	RAJ4577	104	49.0	33.0	37.0	36.0	41.0	50.7	**41.1**	53.0	62.0	**57.5**	**45.2**
5	WH1316	105	59.0	41.0	45.0	51.0	62.0	54.2	**52.0**	54.0	57.0	**55.5**	**52.9**
6	PBW912	106	54.0	36.0	36.0	42.0	49.0	50.7	**44.6**	46.0	56.0	**51.0**	**46.2**
7	JAUW711	107	56.0	41.0	41.0	42.0	57.0	57.7	**49.1**	55.0	54.0	**54.5**	**50.5**
8	PBW910	108	61.0	48.0	49.0	53.0	57.0	64.6	**55.4**	54.0	38.0	**46.0**	**53.1**
9	DBW408	109	56.0	37.0	45.0	45.0	55.0	51.9	**48.3**	53.0	56.0	**54.5**	**49.9**
10	RAJ4576	110	44.0	37.0	38.0	40.0	47.0	60.4	**44.4**	47.0	48.0	**47.5**	**45.2**
11	HD3472	111	54.0	40.0	50.0	49.0	53.0	55.0	**50.2**	49.0	43.0	**46.0**	**49.1**
12	HD3086 (C)	112	55.0	41.0	43.0	51.0	54.0	53.4	**49.6**	50.0	56.0	**53.0**	**50.4**
13	WH1315	113	59.0	51.0	53.0	47.0	57.0	58.1	**54.2**	59.0	50.0	**54.5**	**54.3**
14	NWS2442	114	60.0	43.0	44.0	44.0	55.0	56.5	**50.4**	51.0	58.0	**54.5**	**51.4**
15	DBW411	115	34.0	33.0	35.0	32.0	45.0	41.5	**36.8**	42.0	49.0	**45.5**	**38.9**
16	BCW28	116	63.0	41.0	49.0	45.0	52.0	62.3	**52.0**	49.0	48.0	**48.5**	**51.2**
17	PBW911	117	42.0	33.0	29.0	35.0	40.0	45.7	**37.5**	34.0	52.0	**43.0**	**38.8**
18	SVPWL21-15	118	55.0	45.0	39.0	49.0	54.0	49.6	**48.6**	48.0	52.0	**50.0**	**48.9**
19	HD3444	119	55.0	42.0	47.0	53.0	62.0	58.4	**52.9**	53.0	53.0	**53.0**	**52.9**
20	NW8072	120	50.0	42.0	48.0	43.0	57.0	46.1	**47.7**	51.0	57.0	**54.0**	**49.3**
21	K2201	121	47.0	34.0	33.0	34.0	46.0	43.4	**39.6**	50.0	49.0	**49.5**	**42.1**
22	HUW854	122	43.0	30.0	37.0	37.0	50.0	48.8	**41.0**	50.0	41.0	**45.5**	**42.1**
23	DBW410	123	45.0	40.0	38.0	43.0	60.0	56.1	**47.0**	48.0	55.0	**51.5**	**48.1**
24	UP3123	124	50.0	40.0	40.0	41.0	52.0	48.0	**45.2**	51.0	48.0	**49.5**	**46.3**
25	UP3122	125	48.0	46.0	40.0	49.0	55.0	53.8	**48.6**	52.0	54.0	**53.0**	**49.7**
26	DBW409	126	54.0	46.0	49.0	50.0	62.0	54.2	**52.5**	55.0	50.0	**52.5**	**52.5**
27	HD3446	127	56.0	49.0	44.0	48.0	60.0	56.9	**52.3**	48.0	55.0	**51.5**	**52.1**
28	DBW187 (C)	128	56.0	48.0	46.0	54.0	60.0	67.3	**55.2**	63.0	58.0	**60.5**	**56.5**
29	DBW222 (C)	129	53.0	46.0	41.0	45.0	56.0	57.7	**49.8**	49.0	48.0	**48.5**	**49.5**
30	DBW412	130	44.0	38.0	36.0	40.0	56.0	52.3	**44.4**	44.0	50.0	**47.0**	**45.0**
31	PBW909	131	53.0	39.0	29.0	40.0	48.0	50.0	**43.2**	42.0	52.0	**47.0**	**44.1**
32	KRL2106	132	41.0	41.0	35.0	47.0	45.0	47.7	**42.8**	44.0	49.0	**46.5**	**43.7**
33	PBW908	133	54.0	35.0	41.0	48.0	60.0	53.4	**48.6**	54.0	49.0	**51.5**	**49.3**
34	HD3445	134	43.0	36.0	38.0	45.0	47.0	49.6	**43.1**	49.0	56.0	**52.5**	**45.4**
35	BRW3944	135	52.0	45.0	36.0	48.0	52.0	53.4	**47.7**	54.0	55.0	**54.5**	**49.4**
36	RAJ4578	136	51.0	41.0	44.0	48.0	50.0	51.1	**47.5**	60.0	47.0	**53.5**	**49.0**
Mean			**51.3**	**40.3**	**41.2**	**44.6**	**53.1**	**53.2**	**47.3**	**50.1**	**51.3**	**50.7**	**48.1**

Table 54: Phenol reaction score (Max. 10) of *T. aestivum* genotypes in NIVT-1A

S. No.	Entry	Trial Code	NWPZ							NEPZ			Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Durgapura	Karnal	Mean	Kanpur	Varanasi	Mean	
1	HD3447	101	6.1	6.0	6.0	5.3	4.7	7.0	**5.9**	6.5	6.0	**6.3**	**6.0**
2	UBW18	102	5.9	6.1	6.6	5.3	5.5	6.5	**6.0**	6.4	5.3	**5.9**	**6.0**
3	UP3121	103	6.2	6.2	6.5	5.2	5.5	7.5	**6.2**	6.3	5.7	**6.0**	**6.1**
4	RAJ4577	104	4.9	4.7	5.6	4.6	4.8	7.0	**5.3**	6.2	6.2	**6.2**	**5.5**
5	WH1316	105	2.5	2.1	2.9	2.8	3.0	4.5	**3.0**	2.5	6.0	**4.3**	**3.3**
6	PBW912	106	1.7	1.8	1.8	1.7	1.7	4.0	**2.1**	2.0	5.8	**3.9**	**2.6**
7	JAUW711	107	5.2	5.8	6.3	6.0	4.5	7.5	**5.9**	6.2	5.5	**5.9**	**5.9**
8	PBW910	108	6.1	5.6	6.3	5.7	4.4	9.0	**6.2**	6.6	5.0	**5.8**	**6.1**
9	DBW408	109	5.3	5.5	6.0	5.3	5.1	8.5	**6.0**	6.3	4.9	**5.6**	**5.9**
10	RAJ4576	110	4.9	4.7	5.1	5.5	4.1	9.0	**5.6**	6.2	6.2	**6.2**	**5.7**
11	HD3472	111	5.2	4.8	5.9	5.3	4.0	5.5	**5.1**	6.2	6.0	**6.1**	**5.4**
12	HD3086 (C)	112	5.2	4.8	5.8	6.0	4.7	6.0	**5.4**	5.9	5.7	**5.8**	**5.5**
13	WH1315	113	5.5	5.4	4.8	5.2	4.4	7.0	**5.4**	5.4	6.5	**6.0**	**5.5**
14	NWS2442	114	4.4	5.1	6.0	5.7	4.7	7.0	**5.5**	6.2	5.8	**6.0**	**5.6**
15	DBW411	115	4.7	5.0	5.0	5.5	4.7	6.0	**5.2**	5.1	4.7	**4.9**	**5.1**
16	BCW28	116	5.1	6.0	5.7	5.2	5.2	7.0	**5.7**	5.0	6.0	**5.5**	**5.7**
17	PBW911	117	4.2	6.1	5.1	5.0	4.7	9.0	**5.7**	5.1	4.9	**5.0**	**5.5**
18	SVPWL21-15	118	5.0	5.7	5.2	4.9	5.1	6.0	**5.3**	2.7	5.1	**3.9**	**5.0**
19	HD3444	119	5.4	6.0	5.7	5.1	5.0	7.5	**5.8**	5.5	5.5	**5.5**	**5.7**
20	NW8072	120	4.7	6.1	6.1	5.0	5.2	6.5	**5.6**	5.2	6.2	**5.7**	**5.6**
21	K2201	121	5.0	6.0	5.0	4.9	3.9	6.5	**5.2**	3.2	5.3	**4.3**	**5.0**
22	HUW854	122	5.3	5.7	5.5	4.8	4.3	7.5	**5.5**	4.3	5.1	**4.7**	**5.3**
23	DBW410	123	5.2	5.8	5.0	5.6	5.3	8.5	**5.9**	4.3	6.3	**5.3**	**5.8**
24	UP3123	124	4.9	5.6	4.7	5.5	5.9	7.5	**5.7**	5.0	2.3	**3.7**	**5.2**
25	UP3122	125	4.5	5.9	3.2	4.9	4.1	5.5	**4.7**	4.9	1.8	**3.4**	**4.4**
26	DBW409	126	4.7	4.7	5.1	6.1	4.9	8.0	**5.6**	4.1	5.7	**4.9**	**5.4**
27	HD3446	127	5.1	4.6	3.7	6.1	4.7	8.5	**5.5**	4.9	5.7	**5.3**	**5.4**
28	DBW187 (C)	128	5.0	4.9	5.7	5.8	5.0	9.0	**5.9**	5.6	6.1	**5.9**	**5.9**
29	DBW222 (C)	129	5.9	5.5	5.7	5.7	5.4	9.0	**6.2**	5.4	5.2	**5.3**	**6.0**
30	DBW412	130	5.5	5.7	4.8	5.3	5.4	9.0	**6.0**	5.0	5.2	**5.1**	**5.7**
31	PBW909	131	4.2	5.7	4.9	6.0	5.5	6.5	**5.5**	5.6	5.1	**5.4**	**5.4**
32	KRL2106	132	4.9	6.5	5.1	6.0	5.2	6.0	**5.6**	3.3	5.2	**4.3**	**5.3**
33	PBW908	133	3.3	4.4	2.5	2.7	3.7	5.5	**3.7**	4.7	5.3	**5.0**	**4.0**
34	HD3445	134	3.0	3.5	4.5	3.9	4.1	7.0	**4.3**	4.4	6.1	**5.3**	**4.6**
35	BRW3944	135	4.0	2.7	4.6	3.9	4.0	6.0	**4.2**	5.0	6.3	**5.7**	**4.6**
36	RAJ4578	136	6.5	5.8	6.3	5.7	6.2	8.0	**6.4**	5.1	3.8	**4.5**	**5.9**
Mean			**4.9**	**5.2**	**5.1**	**5.1**	**4.7**	**7.1**	**5.3**	**5.1**	**5.4**	**5.2**	**5.3**

Table 55: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT-1B

S. No.	Entry	Trial Code	NWPZ						NEPZ				Overall Mean
			Ludhiana	Delhi	Durgapura	Hisar	Karnal	Mean	Kanpur	Sabour	Varanasi	Mean	
1	K2204	201	7.0	6.0	7.0	7.0	6.0	**6.6**	6.0	7.0	6.0	**6.3**	**6.5**
2	BCW29	202	8.0	5.0	6.0	7.0	6.0	**6.4**	7.0	6.0	7.0	**6.7**	**6.5**
3	PBW916	203	7.0	5.0	5.0	5.0	6.8	**5.8**	7.0	5.0	7.0	**6.3**	**6.0**
4	JKW305	204	6.0	4.0	6.0	6.0	6.0	**5.6**	6.0	7.0	8.0	**7.0**	**6.1**
5	HD3467	205	7.0	7.0	5.0	5.0	5.8	**6.0**	7.0	6.0	6.0	**6.3**	**6.1**
6	DBW414	206	6.0	8.0	6.0	5.0	5.8	**6.2**	7.0	6.0	7.0	**6.7**	**6.4**
7	NW8073	207	6.0	6.0	5.0	5.0	5.2	**5.4**	6.0	7.0	6.0	**6.3**	**5.8**
8	BRW3946	208	6.0	6.0	7.0	6.0	5.4	**6.1**	6.0	6.0	7.0	**6.3**	**6.2**
9	PBW915	209	5.0	8.0	6.0	6.0	5.4	**6.1**	7.0	7.0	7.0	**7.0**	**6.4**
10	SVPWL21-07	210	7.0	7.0	7.0	4.0	5.8	**6.2**	7.0	5.0	6.0	**6.0**	**6.1**
11	WH1318	211	6.0	5.0	7.0	5.0	6.4	**5.9**	6.0	6.0	6.0	**6.0**	**5.9**
12	PBW914	212	8.0	6.0	5.0	5.0	6.2	**6.0**	6.0	7.0	8.0	**7.0**	**6.4**
13	UBW19	213	6.0	6.0	6.0	4.0	5.6	**5.5**	5.0	6.0	7.0	**6.0**	**5.7**
14	HD3448	214	6.0	7.0	7.0	7.0	6.0	**6.6**	5.0	6.0	7.0	**6.0**	**6.4**
15	PBW917	215	5.0	5.0	6.0	6.0	6.6	**5.7**	6.0	5.0	6.0	**5.7**	**5.7**
16	BRW3942	216	5.0	6.0	5.0	7.0	6.4	**5.9**	7.0	7.0	6.0	**6.7**	**6.2**
17	DBW415	217	5.0	6.0	5.0	7.0	6.2	**5.8**	6.0	6.0	6.0	**6.0**	**5.9**
18	HUW855	218	6.0	5.0	6.0	8.0	6.0	**6.2**	5.0	6.0	7.0	**6.0**	**6.1**
19	DBW417	219	6.0	7.0	7.0	7.0	6.2	**6.6**	6.0	7.0	7.0	**6.7**	**6.7**
20	NWS2216	220	7.0	7.0	7.0	6.0	6.4	**6.7**	7.0	6.0	6.0	**6.3**	**6.6**
21	PBW913	221	6.0	5.0	6.0	7.0	6.4	**6.1**	6.0	6.0	7.0	**6.3**	**6.2**
22	HD3449	222	7.0	6.0	6.0	6.0	6.4	**6.3**	7.0	5.0	8.0	**6.7**	**6.4**
23	DBW187 (C)	223	7.0	6.0	7.0	6.0	6.0	**6.4**	5.0	5.0	7.0	**5.7**	**6.1**
24	HP1979	224	5.0	7.0	7.0	6.0	5.8	**6.2**	7.0	5.0	5.0	**5.7**	**6.0**
25	NW8075	225	6.0	7.0	6.0	5.0	5.8	**6.0**	6.0	6.0	5.0	**5.7**	**5.9**
26	UP3132	226	5.0	6.0	7.0	7.0	6.2	**6.2**	7.0	6.0	6.0	**6.3**	**6.3**
27	HP1978	227	5.0	5.0	7.0	6.0	5.6	**5.7**	5.0	7.0	5.0	**5.7**	**5.7**
28	K2203	228	5.0	6.0	6.0	8.0	5.8	**6.2**	7.0	6.0	5.0	**6.0**	**6.1**
29	UP3125	229	6.0	7.0	7.0	6.0	5.6	**6.3**	5.0	6.0	6.0	**5.7**	**6.1**
30	DBW413	230	6.0	5.0	6.0	6.0	6.2	**5.8**	5.0	5.0	6.0	**5.3**	**5.7**
31	WH1317	231	4.0	4.0	7.0	5.0	6.2	**5.2**	6.0	6.0	6.0	**6.0**	**5.5**
32	UP3124	232	5.0	7.0	6.0	5.0	6.2	**5.8**	5.0	5.0	6.0	**5.3**	**5.7**
33	DBW416	233	5.0	6.0	7.0	5.0	6.0	**5.8**	7.0	7.0	7.0	**7.0**	**6.3**
34	RAJ4579	234	4.0	6.0	6.0	6.0	6.2	**5.6**	7.0	6.0	6.0	**6.3**	**5.9**
35	DBW222 (C)	235	7.0	7.0	5.0	6.0	6.0	**6.2**	6.0	5.0	7.0	**6.0**	**6.1**
36	HD3086 (C)	236	6.0	6.0	7.0	7.0	6.2	**6.4**	6.0	6.0	5.0	**5.7**	**6.2**
Mean			**5.9**	**6.1**	**6.2**	**6.0**	**6.0**	**6.0**	**6.2**	**6.0**	**6.4**	**6.2**	**6.1**

Table 56: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT-1B

S. No.	Entry	Trial Code	NWPZ						NEPZ				Overall Mean
			Ludhiana	Delhi	Durgapura	Hisar	Karnal	Mean	Kanpur	Sabour	Varanasi	Mean	
1	K2204	201	73.9	73.4	70.3	80.2	78.1	**75.2**	73.9	70.5	72.2	**72.2**	**74.1**
2	BCW29	202	73.3	76.0	68.9	77.3	77.2	**74.5**	72.8	71.2	74.9	**73.0**	**74.0**
3	PBW916	203	74.4	76.5	68.9	78.5	78.6	**75.4**	73.6	72.3	74.4	**73.4**	**74.7**
4	JKW305	204	73.7	71.6	64.7	78.2	77.7	**73.2**	74.2	67.8	71.9	**71.3**	**72.5**
5	HD3467	205	70.0	72.8	63.5	75.2	74.5	**71.2**	70.8	65.9	70.0	**68.9**	**70.3**
6	DBW414	206	74.1	75.2	64.0	76.1	77.0	**73.3**	71.9	65.5	72.2	**69.9**	**72.0**
7	NW8073	207	74.0	71.6	65.8	77.1	71.7	**72.0**	71.5	70.5	71.8	**71.3**	**71.8**
8	BRW3946	208	76.4	77.6	66.1	79.4	79.6	**75.8**	72.9	72.5	74.5	**73.3**	**74.9**
9	PBW915	209	80.0	79.4	73.9	81.2	79.4	**78.8**	75.9	73.1	76.0	**75.0**	**77.4**
10	SVPWL21-07	210	76.8	75.5	68.8	79.2	78.1	**75.7**	72.0	70.9	71.7	**71.5**	**74.1**
11	WH1318	211	73.1	75.0	69.7	78.4	77.2	**74.7**	73.9	70.8	76.4	**73.7**	**74.3**
12	PBW914	212	72.9	76.0	68.8	78.3	76.0	**74.4**	73.6	69.9	74.2	**72.6**	**73.7**
13	UBW19	213	75.9	73.3	68.5	79.4	74.9	**74.4**	70.0	70.3	72.0	**70.8**	**73.0**
14	HD3448	214	75.9	72.0	66.3	78.4	76.6	**73.8**	69.6	71.0	72.6	**71.1**	**72.8**
15	PBW917	215	76.4	74.3	71.5	80.2	78.7	**76.2**	74.4	74.7	74.8	**74.6**	**75.6**
16	BRW3942	216	74.0	75.4	68.4	78.6	78.6	**75.0**	73.3	73.8	74.4	**73.8**	**74.6**
17	DBW415	217	75.1	74.4	62.9	79.9	77.8	**74.0**	72.9	72.4	74.3	**73.2**	**73.7**
18	HUW855	218	74.7	73.2	68.1	79.7	77.7	**74.7**	71.7	69.2	72.4	**71.1**	**73.3**
19	DBW417	219	73.9	75.8	68.7	77.2	76.2	**74.4**	72.7	66.1	71.5	**70.1**	**72.8**
20	NWS2216	220	76.8	72.8	71.0	79.1	78.0	**75.5**	75.4	66.1	73.6	**71.7**	**74.1**
21	PBW913	221	76.5	78.5	72.6	79.5	78.9	**77.2**	74.1	73.6	75.3	**74.3**	**76.1**
22	HD3449	222	74.3	75.6	67.2	79.2	77.7	**74.8**	72.4	68.0	73.7	**71.4**	**73.5**
23	DBW187 (C)	223	74.8	71.4	66.9	79.2	77.8	**74.0**	72.3	70.1	71.7	**71.4**	**73.0**
24	HP1979	224	76.4	76.8	71.3	78.2	77.7	**76.1**	74.3	69.8	73.9	**72.7**	**74.8**
25	NW8075	225	72.8	75.4	67.3	77.4	74.9	**73.6**	72.3	66.5	74.5	**71.1**	**72.6**
26	UP3132	226	72.5	75.9	68.4	78.0	76.1	**74.2**	71.2	65.9	70.8	**69.3**	**72.4**
27	HP1978	227	70.8	73.4	60.6	75.6	74.6	**71.0**	71.1	64.2	70.1	**68.5**	**70.1**
28	K2203	228	70.5	71.7	62.4	76.9	75.7	**71.4**	70.0	64.0	70.7	**68.2**	**70.2**
29	UP3125	229	71.9	76.4	70.7	78.2	76.6	**74.8**	71.5	66.9	73.4	**70.6**	**73.2**
30	DBW413	230	75.7	73.4	69.6	77.4	78.0	**74.8**	74.1	68.9	74.0	**72.3**	**73.9**
31	WH1317	231	74.3	76.5	73.2	80.3	80.4	**76.9**	75.8	73.3	74.9	**74.7**	**76.1**
32	UP3124	232	74.5	75.3	68.4	79.1	79.7	**75.4**	72.2	71.5	74.4	**72.7**	**74.4**
33	DBW416	233	76.5	69.9	68.3	78.2	78.0	**74.2**	73.3	67.7	72.2	**71.1**	**73.0**
34	RAJ4579	234	75.2	75.9	69.2	78.8	79.0	**75.6**	73.2	70.9	70.1	**71.4**	**74.0**
35	DBW222 (C)	235	71.9	73.2	67.0	78.8	76.5	**73.5**	70.9	68.3	71.6	**70.3**	**72.3**
36	HD3086 (C)	236	73.7	75.1	70.4	78.9	77.7	**75.2**	72.4	68.8	73.8	**71.7**	**73.9**
Mean			**74.4**	**74.6**	**68.1**	**78.5**	**77.3**	**74.6**	**72.7**	**69.5**	**73.1**	**71.8**	**73.5**

Table 57: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT-1B

S. No.	Entry	Trial Code	NWPZ						NEPZ				Overall Mean
			Ludhiana	Delhi	Durgapura	Hisar	Karnal	Mean	Kanpur	Sabour	Varanasi	Mean	
1	K2204	201	11.7	13.4	11.9	10.0	11.0	**11.6**	10.9	11.8	10.6	**11.1**	**11.4**
2	BCW29	202	11.4	13.4	13.3	8.1	10.4	**11.3**	10.8	11.1	11.5	**11.1**	**11.3**
3	PBW916	203	11.7	13.8	13.0	11.5	11.3	**12.3**	13.1	12.0	12.3	**12.5**	**12.3**
4	JKW305	204	10.4	14.2	14.1	8.6	10.5	**11.6**	11.6	12.0	11.8	**11.8**	**11.7**
5	HD3467	205	12.4	13.3	13.4	11.6	10.2	**12.2**	12.2	12.2	11.4	**11.9**	**12.1**
6	DBW414	206	11.5	12.5	14.0	8.1	10.2	**11.3**	11.9	12.4	10.7	**11.7**	**11.4**
7	NW8073	207	11.4	12.8	13.0	10.7	11.0	**11.8**	11.4	12.4	11.1	**11.6**	**11.7**
8	BRW3946	208	10.9	13.7	13.9	10.5	10.2	**11.8**	12.5	12.2	12.1	**12.3**	**12.0**
9	PBW915	209	11.9	13.9	15.5	9.5	12.1	**12.6**	13.3	12.9	12.4	**12.9**	**12.7**
10	SVPWL21-07	210	10.6	14.1	13.4	9.0	11.6	**11.7**	13.0	12.1	11.9	**12.3**	**12.0**
11	WH1318	211	11.8	13.6	13.0	8.9	11.1	**11.7**	11.4	12.2	12.3	**12.0**	**11.8**
12	PBW914	212	11.7	14.0	14.6	13.0	11.8	**13.0**	12.7	11.9	12.2	**12.3**	**12.7**
13	UBW19	213	10.4	13.2	13.1	10.3	11.0	**11.6**	12.0	12.9	10.8	**11.9**	**11.7**
14	HD3448	214	10.3	13.3	14.2	9.0	10.8	**11.5**	13.0	11.7	11.9	**12.2**	**11.8**
15	PBW917	215	12.1	14.7	13.2	10.2	11.5	**12.3**	12.3	12.2	12.1	**12.2**	**12.3**
16	BRW3942	216	11.5	13.3	13.6	8.1	10.4	**11.4**	11.9	11.1	11.2	**11.4**	**11.4**
17	DBW415	217	12.0	13.2	14.9	8.8	11.0	**12.0**	10.3	12.3	11.0	**11.2**	**11.7**
18	HUW855	218	11.4	12.8	13.1	8.5	9.9	**11.1**	12.3	12.5	10.7	**11.8**	**11.4**
19	DBW417	219	10.6	13.0	12.8	8.6	11.0	**11.2**	11.3	11.7	11.0	**11.3**	**11.2**
20	NWS2216	220	10.6	13.8	13.3	8.8	10.7	**11.4**	12.9	12.8	11.8	**12.5**	**11.8**
21	PBW913	221	10.8	13.5	13.3	10.9	11.4	**12.0**	13.1	12.4	11.9	**12.5**	**12.2**
22	HD3449	222	11.5	13.4	13.5	9.3	10.6	**11.7**	12.0	12.1	11.2	**11.8**	**11.7**
23	DBW187 (C)	223	12.0	14.6	13.9	8.8	10.2	**11.9**	10.7	12.3	11.2	**11.4**	**11.7**
24	HP1979	224	10.8	12.8	13.3	10.7	10.9	**11.7**	11.5	11.7	11.7	**11.6**	**11.7**
25	NW8075	225	12.3	12.9	13.1	10.5	11.0	**12.0**	12.3	12.0	11.7	**12.0**	**12.0**
26	UP3132	226	12.1	13.9	13.0	9.9	10.9	**12.0**	10.8	12.4	11.3	**11.5**	**11.8**
27	HP1978	227	12.2	12.6	13.7	9.9	10.6	**11.8**	10.7	12.6	10.9	**11.4**	**11.6**
28	K2203	228	12.5	13.6	13.1	11.6	11.3	**12.4**	13.2	12.3	11.9	**12.5**	**12.4**
29	UP3125	229	11.7	13.6	12.1	9.7	10.5	**11.5**	12.1	12.8	11.3	**12.1**	**11.7**
30	DBW413	230	11.8	14.5	13.3	9.0	10.8	**11.9**	10.8	12.7	12.3	**11.9**	**11.9**
31	WH1317	231	12.5	13.3	14.5	9.2	10.5	**12.0**	12.4	12.9	11.1	**12.1**	**12.0**
32	UP3124	232	11.5	13.4	14.5	9.7	10.1	**11.8**	12.1	13.5	10.4	**12.0**	**11.9**
33	DBW416	233	11.0	14.1	13.1	8.2	10.5	**11.4**	12.7	12.4	11.9	**12.3**	**11.7**
34	RAJ4579	234	10.5	13.3	13.0	8.7	10.0	**11.1**	12.0	11.8	11.6	**11.8**	**11.4**
35	DBW222 (C)	235	10.6	12.4	12.9	10.7	10.9	**11.5**	12.0	12.1	11.1	**11.7**	**11.6**
36	HD3086 (C)	236	11.4	13.4	13.7	8.5	10.8	**11.6**	10.8	12.5	11.4	**11.6**	**11.6**
Mean			**11.4**	**13.5**	**13.5**	**9.6**	**10.8**	**11.8**	**11.9**	**12.2**	**11.5**	**11.9**	**11.8**

Table 58: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT-1B

S. No.	Entry	Trial Code	NWPZ						NEPZ				Overall Mean
			Ludhiana	Delhi	Durgapura	Hisar	Karnal	Mean	Kanpur	Sabour	Varanasi	Mean	
1	K2204	201	38.0	53.0	44.0	38.0	61.1	**46.8**	41.0	41.0	43.0	**41.7**	**44.9**
2	BCW29	202	45.0	43.0	54.0	47.0	52.3	**48.3**	56.0	53.0	52.0	**53.7**	**50.3**
3	PBW916	203	48.0	50.0	54.0	43.0	57.3	**50.5**	35.0	54.0	42.0	**43.7**	**47.9**
4	JKW305	204	50.0	58.0	63.0	49.0	63.1	**56.6**	48.0	54.0	58.0	**53.3**	**55.4**
5	HD3467	205	50.0	56.0	46.0	49.0	57.3	**51.7**	52.0	52.0	49.0	**51.0**	**51.4**
6	DBW414	206	39.0	50.0	53.0	44.0	52.3	**47.7**	51.0	48.0	53.0	**50.7**	**48.8**
7	NW8073	207	52.0	60.0	43.0	49.0	54.2	**51.6**	44.0	49.0	54.0	**49.0**	**50.7**
8	BRW3946	208	49.0	51.0	53.0	36.0	45.4	**46.9**	45.0	46.0	54.0	**48.3**	**47.4**
9	PBW915	209	40.0	57.0	43.0	44.0	53.4	**47.5**	47.0	43.0	56.0	**48.7**	**47.9**
10	SVPWL21-07	210	52.0	43.0	64.0	54.0	63.1	**55.2**	50.0	52.0	61.0	**54.3**	**54.9**
11	WH1318	211	41.0	48.0	49.0	39.0	51.1	**45.6**	45.0	48.0	46.0	**46.3**	**45.9**
12	PBW914	212	37.0	46.0	47.0	42.0	44.6	**43.3**	38.0	60.0	44.0	**47.3**	**44.8**
13	UBW19	213	44.0	45.0	46.0	47.0	58.4	**48.1**	57.0	47.0	53.0	**52.3**	**49.7**
14	HD3448	214	52.0	56.0	59.0	48.0	64.2	**55.8**	56.0	53.0	54.0	**54.3**	**55.3**
15	PBW917	215	39.0	64.0	56.0	47.0	65.0	**54.2**	52.0	60.0	61.0	**57.7**	**55.5**
16	BRW3942	216	40.0	53.0	54.0	38.0	52.3	**47.5**	40.0	46.0	56.0	**47.3**	**47.4**
17	DBW415	217	40.0	56.0	46.0	43.0	51.1	**47.2**	44.0	53.0	51.0	**49.3**	**48.0**
18	HUW855	218	38.0	48.0	58.0	45.0	59.6	**49.7**	47.0	53.0	51.0	**50.3**	**49.9**
19	DBW417	219	40.0	45.0	52.0	37.0	56.5	**46.1**	41.0	48.0	45.0	**44.7**	**45.6**
20	NWS2216	220	50.0	64.0	65.0	49.0	60.8	**57.8**	58.0	56.0	50.0	**54.7**	**56.6**
21	PBW913	221	50.0	50.0	53.0	48.0	67.7	**53.7**	48.0	54.0	51.0	**51.0**	**52.7**
22	HD3449	222	57.0	48.0	53.0	45.0	51.9	**51.0**	54.0	55.0	61.0	**56.7**	**53.1**
23	DBW187 (C)	223	55.0	60.0	63.0	50.0	58.8	**57.4**	56.0	63.0	63.0	**60.7**	**58.6**
24	HP1979	224	32.0	35.0	37.0	34.0	46.1	**36.8**	48.0	40.0	47.0	**45.0**	**39.9**
25	NW8075	225	41.0	54.0	44.0	45.0	55.0	**47.8**	48.0	47.0	52.0	**49.0**	**48.2**
26	UP3132	226	43.0	53.0	54.0	55.0	56.9	**52.4**	47.0	48.0	62.0	**52.3**	**52.4**
27	HP1978	227	41.0	47.0	64.0	38.0	53.1	**48.6**	44.0	43.0	62.0	**49.7**	**49.0**
28	K2203	228	46.0	58.0	59.0	49.0	63.4	**55.1**	51.0	44.0	63.0	**52.7**	**54.2**
29	UP3125	229	39.0	38.0	43.0	26.0	50.4	**39.3**	43.0	41.0	63.0	**49.0**	**42.9**
30	DBW413	230	41.0	60.0	50.0	38.0	56.9	**49.2**	47.0	20.0	48.0	**38.3**	**45.1**
31	WH1317	231	49.0	57.0	69.0	48.0	60.0	**56.6**	57.0	59.0	58.0	**58.0**	**57.1**
32	UP3124	232	54.0	59.0	49.0	52.0	54.2	**53.6**	51.0	40.0	55.0	**48.7**	**51.8**
33	DBW416	233	46.0	44.0	48.0	36.0	50.4	**44.9**	40.0	42.0	46.0	**42.7**	**44.0**
34	RAJ4579	234	42.0	58.0	47.0	52.0	47.3	**49.3**	48.0	50.0	48.0	**48.7**	**49.0**
35	DBW222 (C)	235	47.0	57.0	54.0	50.0	58.4	**53.3**	49.0	51.0	57.0	**52.3**	**52.9**
36	HD3086 (C)	236	53.0	61.0	51.0	42.0	58.1	**53.0**	35.0	54.0	57.0	**48.7**	**51.4**
Mean			**45.0**	**52.4**	**52.4**	**44.3**	**55.9**	**50.0**	**47.6**	**49.1**	**53.5**	**50.1**	**50.0**

Table 59: Phenol test score (Max-10) of *T. aestivum* genotypes in NIVT-1B

S. No.	Entry	Trial Code	NWPZ						NEPZ				Overall Mean
			Ludhiana	Delhi	Durgapura	Hisar	Karnal	Mean	Kanpur	Sabour	Varanasi	Mean	
1	K2204	201	6.0	6.0	5.0	6.0	7.0	**6.0**	6.0	6.0	6.0	**6.0**	**6.0**
2	BCW29	202	7.0	7.0	7.0	6.0	7.0	**6.8**	6.0	6.0	6.0	**6.0**	**6.5**
3	PBW916	203	5.0	6.0	6.0	6.0	5.0	**5.6**	7.0	6.0	6.0	**6.3**	**5.9**
4	JKW305	204	6.0	7.0	5.0	7.0	5.5	**6.1**	6.0	5.0	7.0	**6.0**	**6.1**
5	HD3467	205	6.0	6.0	6.0	6.0	4.0	**5.6**	7.0	6.0	6.0	**6.3**	**5.9**
6	DBW414	206	7.0	7.0	7.0	6.0	3.5	**6.1**	8.0	7.0	7.0	**7.3**	**6.6**
7	NW8073	207	5.0	5.0	6.0	7.0	7.5	**6.1**	5.0	6.0	7.0	**6.0**	**6.1**
8	BRW3946	208	6.0	6.0	6.0	7.0	7.0	**6.4**	7.0	7.0	6.0	**6.7**	**6.5**
9	PBW915	209	7.0	5.0	7.0	7.0	7.5	**6.7**	6.0	6.0	7.0	**6.3**	**6.6**
10	SVPWL21-07	210	6.0	7.0	6.0	6.0	7.0	**6.4**	5.0	5.0	6.0	**5.3**	**6.0**
11	WH1318	211	7.0	6.0	7.0	6.0	4.0	**6.0**	8.0	7.0	6.0	**7.0**	**6.4**
12	PBW914	212	6.0	7.0	6.0	6.0	4.5	**5.9**	7.0	6.0	7.0	**6.7**	**6.2**
13	UBW19	213	5.0	6.0	7.0	7.0	7.0	**6.4**	6.0	5.0	7.0	**6.0**	**6.3**
14	HD3448	214	7.0	7.0	6.0	8.0	8.5	**7.3**	6.0	7.0	6.0	**6.3**	**6.9**
15	PBW917	215	6.0	6.0	6.0	5.0	9.0	**6.4**	5.0	6.0	7.0	**6.0**	**6.3**
16	BRW3942	216	6.0	5.0	7.0	6.0	5.5	**5.9**	7.0	5.0	7.0	**6.3**	**6.1**
17	DBW415	217	6.0	6.0	5.0	6.0	6.0	**5.8**	6.0	6.0	7.0	**6.3**	**6.0**
18	HUW855	218	7.0	5.0	6.0	7.0	7.5	**6.5**	6.0	5.0	6.0	**5.7**	**6.2**
19	DBW417	219	7.0	7.0	7.0	5.0	4.0	**6.0**	8.0	7.0	7.0	**7.3**	**6.5**
20	NWS2216	220	8.0	7.0	7.0	6.0	4.0	**6.4**	8.0	7.0	7.0	**7.3**	**6.8**
21	PBW913	221	8.0	6.0	6.0	6.0	8.5	**6.9**	7.0	5.0	6.0	**6.0**	**6.6**
22	HD3449	222	6.0	5.0	5.0	7.0	5.5	**5.7**	6.0	6.0	6.0	**6.0**	**5.8**
23	DBW187 (C)	223	6.0	6.0	6.0	5.0	7.0	**6.0**	6.0	7.0	6.0	**6.3**	**6.1**
24	HP1979	224	6.0	5.0	6.0	6.0	5.0	**5.6**	7.0	6.0	7.0	**6.7**	**6.0**
25	NW8075	225	7.0	7.0	5.0	7.0	5.5	**6.3**	6.0	5.0	7.0	**6.0**	**6.2**
26	UP3132	226	6.0	6.0	6.0	6.0	8.0	**6.4**	5.0	5.0	7.0	**5.7**	**6.1**
27	HP1978	227	6.0	7.0	6.0	7.0	8.0	**6.8**	6.0	7.0	6.0	**6.3**	**6.6**
28	K2203	228	7.0	6.0	7.0	6.0	6.5	**6.5**	6.0	6.0	6.0	**6.0**	**6.3**
29	UP3125	229	7.0	6.0	7.0	5.0	9.0	**6.8**	6.0	5.0	7.0	**6.0**	**6.5**
30	DBW413	230	7.0	7.0	5.0	7.0	6.5	**6.5**	7.0	6.0	6.0	**6.3**	**6.4**
31	WH1317	231	6.0	5.0	6.0	6.0	7.0	**6.0**	5.0	5.0	7.0	**5.7**	**5.9**
32	UP3124	232	6.0	5.0	7.0	6.0	6.0	**6.0**	6.0	6.0	7.0	**6.3**	**6.1**
33	DBW416	233	6.0	6.0	6.0	6.0	7.0	**6.2**	5.0	8.0	6.0	**6.3**	**6.3**
34	RAJ4579	234	7.0	9.0	7.0	7.0	3.0	**6.6**	8.0	5.0	7.0	**6.7**	**6.6**
35	DBW222 (C)	235	8.0	6.0	6.0	7.0	7.0	**6.8**	7.0	6.0	6.0	**6.3**	**6.6**
36	HD3086 (C)	236	5.0	7.0	6.0	8.0	7.0	**6.6**	7.0	7.0	7.0	**7.0**	**6.8**
Mean			**6.4**	**6.2**	**6.2**	**6.3**	**6.3**	**6.3**	**6.4**	**6.0**	**6.5**	**6.3**	**6.3**

Table 60: Grain appearance score (Max. 10) of *T. aestivum* genotypes in NIVT 2

S. No	Entry	Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P. kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	GW549	301	5.0	6.8	5.5	4.5	**5.5**	4.3	3.5	3.5	**3.8**	**4.7**
2	PWU16	302	5.5	7.5	6.0	6.5	**6.4**	5.5	5.0	4.5	**5.0**	**5.8**
3	MACS6844	303	4.0	4.8	4.8	3.3	**4.2**	5.5	5.3	4.5	**5.1**	**4.6**
4	GW555	304	5.8	6.8	5.8	6.0	**6.1**	5.8	4.8	5.0	**5.2**	**5.7**
5	MACS6842	305	5.5	5.5	4.5	5.0	**5.1**	5.5	4.0	4.8	**4.8**	**5.0**
6	UAS3026	306	4.8	5.3	4.8	5.8	**5.2**	5.0	4.0	4.0	**4.3**	**4.8**
7	BW18R6016	307	4.8	5.3	5.3	6.0	**5.4**	6.8	5.0	5.3	**5.7**	**5.5**
8	NIAW4364	308	4.5	4.0	4.5	4.0	**4.3**	5.5	4.8	4.3	**4.9**	**4.5**
9	PBN16-1766	309	4.8	4.8	4.0	3.8	**4.4**	5.5	4.8	3.8	**4.7**	**4.5**
10	HD3451	310	4.3	6.3	4.5	5.0	**5.0**	4.8	4.8	4.5	**4.7**	**4.9**
11	RAJ4582	311	5.0	7.5	4.5	6.0	**5.8**	5.0	5.0	4.5	**4.8**	**5.4**
12	NIAW4440	312	5.5	7.3	5.5	4.5	**5.7**	5.3	5.3	5.0	**5.2**	**5.5**
13	GW550	313	5.3	7.5	5.8	6.8	**6.4**	5.8	5.3	6.3	**5.8**	**6.1**
14	HI1683	314	5.0	7.5	6.0	6.0	**6.1**	6.3	4.8	5.3	**5.5**	**5.8**
15	MP3570	315	5.0	6.5	5.5	5.8	**5.7**	5.0	5.0	4.3	**4.8**	**5.3**
16	CG1045	316	5.0	6.8	5.3	6.0	**5.8**	5.0	5.0	5.0	**5.0**	**5.4**
17	MACS6222 (C)	317	5.3	7.0	5.3	5.8	**5.9**	5.0	5.0	5.5	**5.2**	**5.6**
18	MP3573	318	5.5	6.0	5.0	6.3	**5.7**	5.0	5.0	5.0	**5.0**	**5.4**
19	LOK80	319	5.0	6.5	4.8	5.0	**5.3**	5.5	4.8	6.0	**5.4**	**5.4**
20	UAS3025	320	5.0	5.8	5.0	5.5	**5.3**	4.8	4.3	4.3	**4.5**	**5.0**
21	GW554	321	5.5	7.0	5.0	6.3	**6.0**	5.3	5.8	6.0	**5.7**	**5.8**
22	GW322 (C)	322	5.0	6.0	4.5	4.8	**5.1**	4.8	4.8	4.3	**4.6**	**4.9**
23	HI1684	323	5.8	6.8	4.8	5.3	**5.7**	5.5	5.5	6.3	**5.8**	**5.7**
24	MP1393	324	4.5	4.5	4.5	4.3	**4.5**	5.0	4.8	5.0	**4.9**	**4.7**
25	DBW419	325	4.5	5.0	5.3	5.3	**5.0**	5.5	5.0	5.0	**5.2**	**5.1**
26	HD3450	326	4.8	6.0	5.5	5.5	**5.5**	5.0	5.3	4.8	**5.0**	**5.3**
27	MP1392	327	5.5	6.5	5.3	7.0	**6.1**	6.0	5.5	7.0	**6.2**	**6.1**
28	NWS2170	328	4.8	7.3	5.8	5.0	**5.7**	6.0	4.5	6.3	**5.6**	**5.7**
29	MACS6826	329	4.8	6.5	4.8	4.3	**5.1**	6.0	5.3	4.8	**5.4**	**5.2**
30	DBW418	330	4.5	4.8	5.0	4.5	**4.7**	5.5	4.8	5.3	**5.2**	**4.9**
31	PBW918	331	5.3	5.0	5.3	4.5	**5.0**	5.0	5.5	4.8	**5.1**	**5.1**
32	MACS6837	332	5.3	6.0	5.3	5.3	**5.5**	5.8	5.5	5.5	**5.6**	**5.5**
33	DBW187 (C)	333	4.3	5.8	5.3	5.3	**5.2**	5.5	5.0	3.5	**4.7**	**5.0**
34	AKAW5347	334	4.3	5.0	4.0	3.5	**4.2**	5.0	4.8	4.3	**4.7**	**4.4**
35	PWU20	335	4.5	4.5	4.5	4.0	**4.4**	5.5	5.5	4.0	**5.0**	**4.6**
36	GW548	336	5.3	6.3	5.5	5.0	**5.5**	5.8	5.3	6.0	**5.7**	**5.6**
		Mean	**5.0**	**6.1**	**5.1**	**5.2**	**5.3**	**5.4**	**5.0**	**5.0**	**5.1**	**5.2**

Table 61: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 2

S. No	Entry	Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P. kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	GW549	301	82.3	83.7	82.9	81.3	**82.6**	81.7	81.7	82.8	**82.1**	**82.3**
2	PWU16	302	82.8	83.6	83.3	81.8	**82.9**	81.7	82.3	81.7	**81.9**	**82.5**
3	MACS6844	303	77.5	79.9	75.8	75.3	**77.1**	82.0	81.0	80.7	**81.2**	**78.9**
4	GW555	304	84.9	85.8	84.5	84.7	**85.0**	81.1	82.9	85.6	**83.2**	**84.2**
5	MACS6842	305	78.8	82.8	78.4	80.9	**80.2**	80.4	80.8	80.4	**80.5**	**80.4**
6	UAS3026	306	80.0	82.6	80.7	82.3	**81.4**	81.6	81.9	81.0	**81.5**	**81.4**
7	BW18R6016	307	80.1	82.3	80.8	81.6	**81.2**	82.0	80.4	80.9	**81.1**	**81.2**
8	NIAW4364	308	81.3	78.7	78.6	77.9	**79.1**	82.5	81.7	80.6	**81.6**	**80.2**
9	PBN16-1766	309	78.7	81.6	78.5	79.7	**79.6**	81.5	79.8	80.6	**80.6**	**80.1**
10	HD3451	310	82.2	83.4	82.1	81.7	**82.4**	81.8	81.5	81.8	**81.7**	**82.1**
11	RAJ4582	311	80.1	83.5	79.0	80.1	**80.7**	82.7	81.4	82.7	**82.3**	**81.4**
12	NIAW4440	312	82.5	80.8	80.0	79.7	**80.8**	81.0	82.0	80.7	**81.2**	**81.0**
13	GW550	313	83.4	85.4	83.1	84.5	**84.1**	84.0	83.6	83.8	**83.8**	**84.0**
14	HI1683	314	81.4	84.1	82.5	82.4	**82.6**	80.6	82.4	82.6	**81.9**	**82.3**
15	MP3570	315	80.4	84.0	80.7	80.9	**81.5**	81.7	81.5	80.0	**81.1**	**81.3**
16	CG1045	316	79.4	83.3	80.0	80.9	**80.9**	81.9	81.9	81.6	**81.8**	**81.3**
17	MACS6222 (C)	317	80.7	84.3	81.6	81.1	**81.9**	81.8	81.4	81.6	**81.6**	**81.8**
18	MP3573	318	83.0	83.9	82.3	82.4	**82.9**	80.9	80.4	81.7	**81.0**	**82.1**
19	LOK80	319	79.5	81.7	79.8	79.7	**80.2**	79.2	78.9	79.6	**79.2**	**79.8**
20	UAS3025	320	81.8	84.0	82.0	82.9	**82.7**	80.4	81.7	81.5	**81.2**	**82.0**
21	GW554	321	83.9	85.7	84.6	83.9	**84.5**	83.8	84.1	84.6	**84.2**	**84.4**
22	GW322 (C)	322	80.4	82.4	80.8	80.4	**81.0**	81.1	81.3	79.9	**80.8**	**80.9**
23	HI1684	323	83.8	84.8	82.7	83.4	**83.7**	82.9	83.3	83.4	**83.2**	**83.5**
24	MP1393	324	80.3	82.7	77.4	79.2	**79.9**	80.5	80.3	81.1	**80.6**	**80.2**
25	DBW419	325	81.1	83.3	81.5	82.0	**82.0**	81.9	81.0	80.8	**81.2**	**81.7**
26	HD3450	326	81.8	84.9	82.5	82.3	**82.9**	81.4	82.0	81.7	**81.7**	**82.4**
27	MP1392	327	82.9	83.7	82.3	82.5	**82.9**	81.3	82.3	83.8	**82.5**	**82.7**
28	NWS2170	328	79.5	83.6	81.6	81.0	**81.4**	81.4	80.8	81.4	**81.2**	**81.3**
29	MACS6826	329	80.3	84.0	80.0	80.7	**81.3**	82.1	81.4	81.9	**81.8**	**81.5**
30	DBW418	330	79.8	81.8	78.1	79.4	**79.8**	80.5	81.2	82.3	**81.3**	**80.4**
31	PBW918	331	80.8	82.6	81.3	81.3	**81.5**	81.9	81.4	81.8	**81.7**	**81.6**
32	MACS6837	332	79.1	82.2	77.9	80.2	**79.9**	80.0	81.0	81.0	**80.7**	**80.2**
33	DBW187 (C)	333	78.9	82.5	80.4	81.5	**80.8**	81.5	80.6	77.0	**79.7**	**80.3**
34	AKAW5347	334	78.0	81.3	76.8	77.7	**78.5**	79.6	79.2	80.6	**79.8**	**79.0**
35	PWU20	335	80.2	81.9	80.9	80.2	**80.8**	82.0	83.0	82.2	**82.4**	**81.5**
36	GW548	336	81.0	84.4	82.7	82.7	**82.7**	82.6	82.9	83.9	**83.1**	**82.9**
		Mean	**80.9**	**83.1**	**80.8**	**81.1**	**81.5**	**81.5**	**81.5**	**81.6**	**81.6**	**81.5**

Table 62: Grain protein content (%) of *T. aestivum* genotypes in NIVT 2

S. No	Entry	Code	CZ					PZ				Overall mean
			Indore	Junagadh	P. kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	GW549	301	11.0	12.0	11.1	11.7	**11.5**	11.8	11.2	12.5	**11.8**	**11.6**
2	PWU16	302	10.8	12.6	11.8	11.5	**11.7**	12.4	11.1	13.8	**12.4**	**12.0**
3	MACS6844	303	12.7	12.5	13.2	13.1	**12.9**	12.4	12.0	13.2	**12.5**	**12.7**
4	GW555	304	11.0	11.7	11.0	11.0	**11.2**	12.1	11.2	12.0	**11.8**	**11.4**
5	MACS6842	305	12.2	12.3	12.4	11.7	**12.2**	12.3	11.1	13.7	**12.4**	**12.2**
6	UAS3026	306	11.4	11.7	10.9	10.5	**11.1**	11.0	10.8	12.8	**11.5**	**11.3**
7	BW18R6016	307	11.2	13.0	11.9	12.1	**12.1**	12.5	11.7	13.3	**12.5**	**12.2**
8	NIAW4364	308	12.5	13.2	12.5	12.3	**12.6**	11.7	11.0	13.9	**12.2**	**12.4**
9	PBN16-1766	309	13.4	13.2	13.8	12.9	**13.3**	13.2	10.9	14.5	**12.9**	**13.1**
10	HD3451	310	11.9	12.6	12.2	12.1	**12.2**	13.0	12.6	13.2	**12.9**	**12.5**
11	RAJ4582	311	11.4	11.7	11.9	12.1	**11.8**	11.9	11.0	13.7	**12.2**	**12.0**
12	NIAW4440	312	13.2	12.5	13.4	12.8	**13.0**	12.8	11.7	14.5	**13.0**	**13.0**
13	GW550	313	10.1	11.8	11.9	11.0	**11.2**	11.3	10.7	12.2	**11.4**	**11.3**
14	HI1683	314	11.0	12.3	11.3	11.4	**11.5**	12.1	11.0	12.1	**11.7**	**11.6**
15	MP3570	315	11.3	11.3	11.5	11.0	**11.3**	11.4	10.2	13.1	**11.6**	**11.4**
16	CG1045	316	12.1	12.4	11.5	12.6	**12.2**	11.9	11.7	13.1	**12.2**	**12.2**
17	MACS6222 (C)	317	12.6	12.3	11.3	12.5	**12.2**	11.9	10.8	13.4	**12.0**	**12.1**
18	MP3573	318	13.2	14.6	12.5	13.1	**13.4**	14.0	14.3	14.7	**14.3**	**13.8**
19	LOK80	319	10.1	12.4	12.8	11.7	**11.8**	11.7	11.5	12.3	**11.8**	**11.8**
20	UAS3025	320	12.6	13.4	12.2	12.8	**12.8**	13.0	13.0	13.2	**13.1**	**12.9**
21	GW554	321	10.0	12.0	10.2	10.6	**10.7**	11.1	12.3	11.8	**11.7**	**11.1**
22	GW322 (C)	322	10.3	10.9	10.5	10.4	**10.5**	10.3	10.8	12.1	**11.1**	**10.8**
23	HI1684	323	10.9	11.9	11.4	10.9	**11.3**	11.4	12.7	12.3	**12.1**	**11.6**
24	MP1393	324	11.6	12.2	12.9	12.4	**12.3**	12.5	11.0	13.3	**12.3**	**12.3**
25	DBW419	325	11.3	12.8	12.0	11.7	**12.0**	12.0	10.7	12.8	**11.8**	**11.9**
26	HD3450	326	11.4	12.5	11.8	11.4	**11.8**	12.4	11.6	13.6	**12.5**	**12.1**
27	MP1392	327	10.4	12.1	11.0	11.1	**11.2**	11.8	11.4	12.1	**11.8**	**11.4**
28	NWS2170	328	11.0	11.4	11.0	10.6	**11.0**	10.9	9.7	12.1	**10.9**	**11.0**
29	MACS6826	329	11.7	12.3	11.9	11.8	**11.9**	12.1	12.0	15.2	**13.1**	**12.4**
30	DBW418	330	12.5	12.0	11.7	12.0	**12.1**	12.2	9.8	14.4	**12.1**	**12.1**
31	PBW918	331	12.4	13.5	13.2	12.8	**13.0**	13.6	13.0	14.0	**13.5**	**13.2**
32	MACS6837	332	11.4	12.1	11.3	11.5	**11.6**	11.5	11.7	13.1	**12.1**	**11.8**
33	DBW187 (C)	333	11.4	12.8	11.3	12.4	**12.0**	12.3	10.6	16.4	**13.1**	**12.5**
34	AKAW5347	334	11.5	11.4	11.4	11.6	**11.5**	11.3	12.4	12.8	**12.2**	**11.8**
35	PWU20	335	11.7	11.3	11.5	11.5	**11.5**	10.9	11.6	11.2	**11.2**	**11.4**
36	GW548	336	10.9	11.0	11.5	10.3	**10.9**	10.3	9.3	12.1	**10.6**	**10.8**
		Mean	**11.6**	**12.3**	**11.8**	**11.7**	**11.9**	**12.0**	**11.4**	**13.2**	**12.2**	**12.0**

Table 63: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 2

S. No	Entry	Code	CZ					PZ				Overall mean
			Indore	Junagadh	P. kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	GW549	301	42.0	49.0	36.0	46.0	**43.3**	45.0	38.0	53.0	**45.3**	**44.1**
2	PWU16	302	36.0	55.0	39.0	45.0	**43.8**	54.0	37.0	58.0	**49.7**	**46.3**
3	MACS6844	303	53.0	51.0	50.0	52.0	**51.5**	53.0	48.0	55.0	**52.0**	**51.7**
4	GW555	304	38.0	42.0	32.0	39.0	**37.8**	45.0	37.0	48.0	**43.3**	**40.1**
5	MACS6842	305	49.0	50.0	47.0	47.0	**48.3**	47.0	45.0	55.0	**49.0**	**48.6**
6	UAS3026	306	44.0	46.0	37.0	39.0	**41.5**	44.0	42.0	54.0	**46.7**	**43.7**
7	BW18R6016	307	43.0	58.0	44.0	51.0	**49.0**	53.0	47.0	55.0	**51.7**	**50.1**
8	NIAW4364	308	53.0	57.0	46.0	50.0	**51.5**	44.0	40.0	58.0	**47.3**	**49.7**
9	PBN16-1766	309	56.0	57.0	54.0	54.0	**55.3**	55.0	46.0	57.0	**52.7**	**54.1**
10	HD3451	310	47.0	56.0	48.0	50.0	**50.3**	60.0	54.0	58.0	**57.3**	**53.3**
11	RAJ4582	311	41.0	45.0	42.0	50.0	**44.5**	48.0	40.0	59.0	**49.0**	**46.4**
12	NIAW4440	312	59.0	55.0	56.0	55.0	**56.3**	55.0	47.0	59.0	**53.7**	**55.1**
13	GW550	313	24.0	42.0	39.0	36.0	**35.3**	34.0	30.0	51.0	**38.3**	**36.6**
14	HI1683	314	40.0	55.0	35.0	44.0	**43.5**	52.0	37.0	51.0	**46.7**	**44.9**
15	MP3570	315	36.0	35.0	36.0	40.0	**36.8**	38.0	26.0	57.0	**40.3**	**38.3**
16	CG1045	316	50.0	56.0	40.0	56.0	**50.5**	49.0	45.0	55.0	**49.7**	**50.1**
17	MACS6222 (C)	317	55.0	50.0	35.0	57.0	**49.3**	48.0	35.0	58.0	**47.0**	**48.3**
18	MP3573	318	56.0	62.0	43.0	56.0	**54.3**	60.0	63.0	58.0	**60.3**	**56.9**
19	LOK80	319	27.0	50.0	47.0	47.0	**42.8**	45.0	40.0	49.0	**44.7**	**43.6**
20	UAS3025	320	54.0	62.0	44.0	57.0	**54.3**	59.0	56.0	55.0	**56.7**	**55.3**
21	GW554	321	23.0	46.0	22.0	33.0	**31.0**	33.0	49.0	45.0	**42.3**	**35.9**
22	GW322 (C)	322	32.0	33.0	27.0	36.0	**32.0**	26.0	33.0	52.0	**37.0**	**34.1**
23	HI1684	323	36.0	49.0	33.0	40.0	**39.5**	42.0	58.0	53.0	**51.0**	**44.4**
24	MP1393	324	48.0	53.0	50.0	54.0	**51.3**	55.0	44.0	57.0	**52.0**	**51.6**
25	DBW419	325	45.0	55.0	43.0	46.0	**47.3**	47.0	44.0	52.0	**47.7**	**47.4**
26	HD3450	326	45.0	58.0	40.0	46.0	**47.3**	57.0	45.0	58.0	**53.3**	**49.9**
27	MP1392	327	34.0	52.0	35.0	42.0	**40.8**	47.0	41.0	54.0	**47.3**	**43.6**
28	NWS2170	328	44.0	45.0	37.0	42.0	**42.0**	39.0	36.0	53.0	**42.7**	**42.3**
29	MACS6826	329	45.0	56.0	44.0	50.0	**48.8**	52.0	48.0	67.0	**55.7**	**51.7**
30	DBW418	330	52.0	51.0	46.0	50.0	**49.8**	51.0	41.0	59.0	**50.3**	**50.0**
31	PBW918	331	54.0	64.0	58.0	59.0	**58.8**	66.0	61.0	64.0	**63.7**	**60.9**
32	MACS6837	332	45.0	50.0	43.0	47.0	**46.3**	45.0	47.0	57.0	**49.7**	**47.7**
33	DBW187 (C)	333	46.0	59.0	37.0	55.0	**49.3**	53.0	41.0	67.0	**53.7**	**51.1**
34	AKAW5347	334	42.0	43.0	35.0	47.0	**41.8**	37.0	51.0	60.0	**49.3**	**45.0**
35	PWU20	335	49.0	45.0	41.0	49.0	**46.0**	39.0	47.0	44.0	**43.3**	**44.9**
36	GW548	336	37.0	34.0	34.0	34.0	**34.8**	26.0	22.0	56.0	**34.7**	**34.7**
		Mean	**43.9**	**50.7**	**41.0**	**47.3**	**45.7**	**47.3**	**43.4**	**55.6**	**48.8**	**47.0**

Table 64: Phenol colour test (0-10 scale) of *T. aestivum* genotypes in NIVT 2

S. No	Entry	Code	CZ					PZ				Overall mean
			Indore	Junagadh	P. kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	GW549	301	6.5	7.0	6.0	6.5	**6.5**	7.0	6.0	7.5	**6.8**	**6.6**
2	PWU16	302	6.0	6.5	6.0	6.5	**6.3**	7.0	6.0	7.0	**6.7**	**6.4**
3	MACS6844	303	3.0	3.0	2.0	1.5	**2.4**	3.0	3.5	2.0	**2.8**	**2.6**
4	GW555	304	2.0	2.0	2.0	1.0	**1.8**	2.0	2.0	1.5	**1.8**	**1.8**
5	MACS6842	305	7.0	7.0	6.5	8.0	**7.1**	7.0	7.0	7.0	**7.0**	**7.1**
6	UAS3026	306	7.0	6.5	6.5	7.5	**6.9**	7.0	7.0	7.0	**7.0**	**6.9**
7	BW18R6016	307	7.0	7.0	6.0	7.5	**6.9**	7.0	7.0	7.0	**7.0**	**6.9**
8	NIAW4364	308	6.5	6.5	6.5	8.0	**6.9**	6.5	6.5	6.5	**6.5**	**6.7**
9	PBN16-1766	309	7.0	6.5	6.0	8.0	**6.9**	6.5	7.0	6.5	**6.7**	**6.8**
10	HD3451	310	7.0	7.0	7.0	7.0	**7.0**	7.0	7.0	7.0	**7.0**	**7.0**
11	RAJ4582	311	6.5	7.0	7.0	7.0	**6.9**	7.0	7.0	7.0	**7.0**	**6.9**
12	NIAW4440	312	6.5	7.0	7.0	7.0	**6.9**	7.0	6.5	6.5	**6.7**	**6.8**
13	GW550	313	5.0	6.5	6.0	5.0	**5.6**	6.5	6.5	6.5	**6.5**	**6.0**
14	HI1683	314	5.5	6.5	6.5	5.0	**5.9**	6.5	6.5	6.5	**6.5**	**6.1**
15	MP3570	315	5.5	5.5	5.5	1.5	**4.5**	5.5	6.5	6.0	**6.0**	**5.1**
16	CG1045	316	2.0	2.0	2.0	5.0	**2.8**	2.0	3.0	1.5	**2.2**	**2.5**
17	MACS6222 (C)	317	7.0	7.0	7.0	2.5	**5.9**	7.0	7.0	7.0	**7.0**	**6.4**
18	MP3573	318	3.0	2.5	2.0	6.0	**3.4**	2.5	4.0	2.0	**2.8**	**3.1**
19	LOK80	319	6.5	6.5	6.5	7.5	**6.8**	6.5	6.5	5.5	**6.2**	**6.5**
20	UAS3025	320	7.0	6.5	7.0	5.0	**6.4**	6.5	7.0	6.5	**6.7**	**6.5**
21	GW554	321	5.0	5.0	5.5	6.0	**5.4**	5.5	5.0	6.0	**5.5**	**5.4**
22	GW322 (C)	322	6.5	6.5	6.5	4.0	**5.9**	6.5	6.0	6.5	**6.3**	**6.1**
23	HI1684	323	2.5	3.0	3.0	7.0	**3.9**	3.0	5.0	2.0	**3.3**	**3.6**
24	MP1393	324	6.5	6.5	7.0	7.0	**6.8**	7.0	7.0	7.0	**7.0**	**6.9**
25	DBW419	325	6.5	7.0	7.0	7.0	**6.9**	7.0	7.0	7.5	**7.2**	**7.0**
26	HD3450	326	6.5	7.0	6.5	7.0	**6.8**	6.5	7.0	7.0	**6.8**	**6.8**
27	MP1392	327	7.0	7.0	7.0	8.0	**7.3**	7.0	7.0	7.5	**7.2**	**7.2**
28	NWS2170	328	7.5	6.5	7.5	8.0	**7.4**	7.0	6.5	7.0	**6.8**	**7.1**
29	MACS6826	329	6.5	7.0	7.0	1.0	**5.4**	7.0	6.5	6.5	**6.7**	**5.9**
30	DBW418	330	3.0	2.5	2.0	7.0	**3.6**	2.5	3.0	1.5	**2.3**	**3.1**
31	PBW918	331	7.0	7.0	7.0	7.0	**7.0**	6.5	6.5	7.0	**6.7**	**6.9**
32	MACS6837	332	7.0	7.0	7.0	8.0	**7.3**	7.0	7.0	7.5	**7.2**	**7.2**
33	DBW187 (C)	333	6.5	6.5	7.0	6.0	**6.5**	7.0	7.0	7.0	**7.0**	**6.7**
34	AKAW5347	334	5.0	6.5	6.0	5.0	**5.6**	7.0	7.0	5.5	**6.5**	**6.0**
35	PWU20	335	5.0	6.0	5.0	1.5	**4.4**	6.5	7.0	4.0	**5.8**	**5.0**
36	GW548	336	2.5	2.5	2.5	1.0	**2.1**	2.5	2.5	1.0	**2.0**	**2.1**
		Mean	**5.7**	**5.8**	**5.7**	**5.7**	**5.7**	**5.9**	**6.0**	**5.7**	**5.9**	**5.8**

Table 65: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT 3A

S. No.	Entry	Trial Code	NWPZ							NEPZ					Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Durgapura	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	PBW923	401	5.5	5.5	5.5	5.0	5.5	5.4	**5.4**	6.0	5.0	4.5	5.0	**5.1**	**5.3**
2	SVPWL21-14	402	5.0	5.0	6.0	5.0	5.5	5.6	**5.4**	5.0	5.0	4.5	5.0	**4.9**	**5.2**
3	PBW920	403	5.5	5.5	5.5	5.5	4.5	5.4	**5.3**	5.5	5.0	5.0	5.5	**5.3**	**5.3**
4	NW8071	404	5.5	5.5	5.5	5.5	6.0	6.2	**5.7**	5.5	4.5	5.5	5.5	**5.3**	**5.5**
5	PBW919	405	5.5	5.0	5.0	5.5	5.0	6.2	**5.4**	5.5	4.0	4.5	4.5	**4.6**	**5.1**
6	HD3452	406	5.5	6.0	5.0	6.0	5.5	5.4	**5.6**	5.0	4.5	5.0	5.0	**4.9**	**5.3**
7	NW8055	407	5.0	6.0	5.5	4.5	5.5	5.6	**5.4**	5.5	5.0	5.0	6.0	**5.4**	**5.4**
8	RAJ4581	408	5.5	6.0	6.5	6.0	5.0	5.8	**5.8**	6.0	5.5	5.5	5.5	**5.6**	**5.7**
9	DBW420	409	6.0	5.0	6.0	5.0	5.0	5.4	**5.4**	4.5	5.5	5.5	5.0	**5.1**	**5.3**
10	WH1323	410	6.0	5.5	6.0	5.5	5.5	6.4	**5.8**	5.0	5.5	5.5	5.0	**5.3**	**5.6**
11	HP1980	411	5.5	5.5	6.5	6.5	5.5	6.0	**5.9**	6.0	5.5	5.5	4.5	**5.4**	**5.7**
12	UBW20	412	5.5	5.5	6.0	5.5	5.5	6.2	**5.7**	6.0	4.0	4.5	4.5	**4.8**	**5.3**
13	DBW424	413	6.5	6.0	7.0	6.0	5.5	6.0	**6.2**	6.0	5.5	6.0	5.5	**5.8**	**6.0**
14	BCW30	414	6.0	6.0	7.0	5.5	6.0	5.2	**6.0**	5.5	5.5	6.0	5.0	**5.5**	**5.8**
15	UP3126	415	5.5	5.0	6.5	6.0	5.0	5.6	**5.6**	6.0	5.5	6.0	5.5	**5.8**	**5.7**
16	WH1322	416	5.0	5.5	7.0	6.0	6.0	6.0	**5.9**	6.0	5.5	5.5	5.5	**5.6**	**5.8**
17	DBW423	417	4.5	5.5	6.5	6.0	5.5	6.4	**5.7**	6.0	5.5	6.0	5.0	**5.6**	**5.7**
18	DBW422	418	6.0	6.0	6.5	5.5	6.0	6.4	**6.1**	6.0	5.5	6.0	6.0	**5.9**	**6.0**
19	K2207	419	5.5	5.5	7.0	5.5	5.0	6.2	**5.8**	6.5	5.0	5.5	5.5	**5.6**	**5.7**
20	BRW3941	420	5.0	5.0	6.0	5.5	6.5	5.6	**5.6**	6.0	6.0	5.5	5.5	**5.8**	**5.7**
21	DBW421	421	5.0	5.0	6.0	5.5	6.0	6.0	**5.6**	5.5	5.0	5.5	5.5	**5.4**	**5.5**
22	HD3453	422	6.0	6.0	6.0	6.5	5.5	6.0	**6.0**	6.0	6.0	5.5	5.5	**5.8**	**5.9**
23	JKW303	423	4.5	4.5	5.0	5.5	5.5	5.4	**5.1**	5.5	4.0	5.0	4.5	**4.8**	**4.9**
24	DBW107 (C)	424	5.5	5.5	5.5	5.5	6.5	6.2	**5.8**	5.5	5.0	6.0	5.0	**5.4**	**5.6**
25	HD3454	425	5.5	5.5	5.5	5.5	6.0	5.6	**5.6**	5.5	5.5	5.5	4.5	**5.3**	**5.5**
26	PBW922	426	4.5	5.0	5.5	5.5	5.5	6.0	**5.3**	6.0	5.5	5.5	5.5	**5.6**	**5.5**
27	HD3059 (C)	427	5.5	5.5	6.5	6.0	6.0	5.8	**5.9**	6.5	4.5	5.5	5.0	**5.4**	**5.7**
28	PBW921	428	5.5	5.5	6.0	5.5	5.5	5.8	**5.6**	6.0	5.5	5.5	5.0	**5.5**	**5.6**
29	K2208	429	6.0	6.0	6.0	6.0	6.0	6.0	**6.0**	6.5	6.5	6.0	5.0	**6.0**	**6.0**
30	DBW173 (C)	430	6.0	5.5	6.0	6.0	5.5	6.2	**5.9**	6.0	5.5	5.0	6.0	**5.6**	**5.8**
31	RAJ4580	431	5.5	5.5	5.0	5.5	6.5	5.4	**5.6**	6.5	5.5	4.5	5.5	**5.5**	**5.5**
32	HI1563 (C)	432	4.0	5.0	6.5	6.0	5.5	6.0	**5.5**	6.5	6.0	5.0	5.5	**5.8**	**5.6**
33	WH1324	433	5.0	5.0	6.0	6.0	5.0	6.8	**5.6**	5.5	6.0	5.0	5.0	**5.4**	**5.5**
34	K2206	434	4.5	4.5	6.0	5.5	6.5	5.2	**5.4**	6.0	5.0	5.0	5.0	**5.3**	**5.3**
35	HD3455	435	5.5	4.5	6.0	6.0	6.0	5.6	**5.6**	6.5	5.5	5.0	5.0	**5.5**	**5.6**
36	UP3127	436	5.0	6.0	6.5	5.5	6.5	6.8	**6.1**	6.0	4.5	5.0	5.0	**5.1**	**5.7**
Mean			**5.4**	**5.4**	**6.0**	**5.7**	**5.7**	**5.9**	**5.7**	**5.8**	**5.2**	**5.3**	**5.2**	**5.4**	**5.6**

Table 66: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 3A

S. No.	Entry	Trial Code	NWPZ							NEPZ					Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Durgapura	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	PBW923	401	68.6	74.4	80.7	71.4	80.4	76.9	**75.4**	71.4	73.8	74.6	78.2	**74.5**	**75.0**
2	SVPWL21-14	402	68.1	76.3	78.8	73.4	81.1	78.2	**76.0**	69.6	76.2	74.3	78.5	**74.7**	**75.5**
3	PBW920	403	71.7	78.8	82.6	76.8	77.0	79.9	**77.8**	74.8	76.8	79.9	80.9	**78.1**	**77.9**
4	NW8071	404	66.6	74.4	81.5	73.7	79.6	79.9	**76.0**	71.3	76.3	75.7	79.6	**75.7**	**75.9**
5	PBW919	405	67.9	70.1	79.3	74.3	70.2	79.2	**73.5**	68.4	73.4	72.7	76.8	**72.8**	**73.2**
6	HD3452	406	66.9	74.5	78.8	68.7	74.5	75.3	**73.1**	67.1	73.8	72.6	75.3	**72.2**	**72.8**
7	NW8055	407	65.4	74.0	71.9	69.1	75.0	76.2	**71.9**	70.2	71.0	72.3	76.3	**72.5**	**72.1**
8	RAJ4581	408	64.5	76.3	81.2	73.6	72.0	78.7	**74.4**	70.7	73.9	74.6	79.3	**74.6**	**74.5**
9	DBW420	409	66.6	69.7	79.3	64.1	72.6	73.3	**70.9**	71.2	75.7	72.2	75.1	**73.6**	**72.0**
10	WH1323	410	69.4	75.1	82.0	72.3	74.8	77.2	**75.1**	71.9	76.3	73.9	76.8	**74.7**	**75.0**
11	HP1980	411	69.1	73.1	79.0	72.3	74.9	75.8	**74.0**	70.7	73.3	72.3	77.0	**73.3**	**73.8**
12	UBW20	412	69.5	70.6	80.2	68.9	76.0	77.2	**73.7**	69.9	69.7	77.2	73.7	**72.6**	**73.3**
13	DBW424	413	71.6	77.7	82.7	75.2	78.1	75.7	**76.8**	73.2	77.1	67.2	80.5	**74.5**	**75.9**
14	BCW30	414	68.9	69.9	80.0	72.1	78.6	72.5	**73.7**	69.0	74.6	74.3	77.1	**73.8**	**73.7**
15	UP3126	415	64.7	69.0	79.1	68.4	71.7	72.1	**70.8**	69.7	71.9	70.8	72.9	**71.3**	**71.0**
16	WH1322	416	69.6	72.6	81.4	72.8	78.5	81.0	**76.0**	71.2	74.4	75.9	78.1	**74.9**	**75.6**
17	DBW423	417	61.6	68.0	80.2	73.4	71.7	77.8	**72.1**	69.5	73.7	72.2	75.1	**72.6**	**72.3**
18	DBW422	418	73.9	78.9	82.4	77.9	77.3	83.1	**78.9**	75.2	78.7	79.5	81.2	**78.7**	**78.8**
19	K2207	419	64.7	73.5	77.0	69.1	66.8	73.1	**70.7**	68.7	72.7	70.4	72.0	**71.0**	**70.8**
20	BRW3941	420	70.0	72.9	81.2	71.7	79.7	75.4	**75.2**	75.0	76.7	74.0	78.8	**76.1**	**75.5**
21	DBW421	421	67.2	75.6	81.3	72.8	74.1	76.9	**74.7**	70.2	77.1	75.1	76.4	**74.7**	**74.7**
22	HD3453	422	71.0	73.7	80.6	72.7	73.5	75.8	**74.6**	73.4	74.9	73.2	74.5	**74.0**	**74.3**
23	JKW303	423	61.3	69.2	75.7	71.3	72.3	71.8	**70.3**	68.7	69.9	71.3	69.4	**69.8**	**70.1**
24	DBW107 (C)	424	70.7	74.9	82.7	73.9	77.6	77.1	**76.2**	71.5	76.5	76.2	77.7	**75.5**	**75.9**
25	HD3454	425	69.9	76.2	79.0	72.2	75.0	75.1	**74.6**	70.9	74.2	76.0	74.9	**74.0**	**74.3**
26	PBW922	426	64.2	75.6	81.0	74.9	71.1	79.4	**74.4**	71.9	74.9	77.1	76.6	**75.1**	**74.7**
27	HD3059 (C)	427	67.8	76.0	82.7	74.4	75.4	78.2	**75.8**	72.0	75.9	75.1	75.9	**74.7**	**75.3**
28	PBW921	428	69.5	77.8	81.0	76.3	74.3	77.1	**76.0**	72.8	75.8	75.7	77.2	**75.4**	**75.8**
29	K2208	429	64.1	74.1	80.9	73.6	74.1	75.0	**73.6**	70.8	74.6	73.8	73.8	**73.3**	**73.5**
30	DBW173 (C)	430	70.9	74.5	80.5	72.0	75.3	77.9	**75.2**	72.1	74.8	74.5	74.7	**74.0**	**74.7**
31	RAJ4580	431	65.9	69.2	77.2	66.6	74.3	68.5	**70.3**	67.1	69.1	64.2	72.6	**68.3**	**69.5**
32	HI1563 (C)	432	64.6	73.7	83.0	77.8	76.4	79.5	**75.8**	76.1	77.7	76.9	79.0	**77.4**	**76.5**
33	WH1324	433	67.5	75.2	79.7	73.8	78.2	79.9	**75.7**	68.7	76.2	73.9	74.6	**73.4**	**74.8**
34	K2206	434	70.6	72.1	79.4	72.3	70.8	73.2	**73.1**	69.9	72.8	74.2	73.5	**72.6**	**72.9**
35	HD3455	435	65.0	70.5	79.5	73.2	74.0	77.9	**73.4**	72.0	74.9	75.2	75.7	**74.5**	**73.8**
36	UP3127	436	65.5	74.6	71.4	71.6	74.3	78.7	**72.7**	69.0	71.5	68.9	73.8	**70.8**	**71.9**
Mean			**67.6**	**73.7**	**79.9**	**72.5**	**75.0**	**76.7**	**74.2**	**71.0**	**74.5**	**73.8**	**76.2**	**73.9**	**74.1**

Table 67: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT 3A

S. No.	Entry	Trial Code	NWPZ							NEPZ					Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Durgapura	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	PBW923	401	12.7	12.1	11.0	13.8	12.2	12.5	**12.4**	11.4	10.3	11.9	12.3	**11.5**	**12.0**
2	SVPWL21-14	402	10.9	10.3	11.6	13.7	13.0	11.1	**11.8**	11.1	9.5	11.1	10.9	**10.7**	**11.3**
3	PBW920	403	12.6	10.5	12.4	14.5	15.4	12.6	**13.0**	10.9	10.0	14.7	12.2	**12.0**	**12.6**
4	NW8071	404	12.3	11.9	11.5	14.4	16.0	12.0	**13.0**	12.0	10.4	11.6	12.9	**11.7**	**12.5**
5	PBW919	405	12.2	12.0	11.1	13.5	15.1	11.2	**12.5**	11.6	10.0	11.5	12.1	**11.3**	**12.0**
6	HD3452	406	11.1	10.9	11.6	14.3	13.3	12.1	**12.2**	11.5	9.6	11.2	12.3	**11.2**	**11.8**
7	NW8055	407	11.6	10.9	10.1	14.1	15.0	12.7	**12.4**	10.9	10.6	11.0	12.0	**11.1**	**11.9**
8	RAJ4581	408	10.4	11.1	10.4	13.0	14.3	11.7	**11.8**	11.3	9.6	11.3	12.0	**11.1**	**11.5**
9	DBW420	409	12.2	11.6	10.5	13.4	14.1	11.9	**12.3**	10.5	9.1	11.0	12.2	**10.7**	**11.7**
10	WH1323	410	11.7	11.3	11.2	14.1	13.6	12.0	**12.3**	10.2	9.7	10.9	12.5	**10.8**	**11.7**
11	HP1980	411	10.8	10.3	10.3	13.0	13.4	11.2	**11.5**	10.1	9.0	10.7	11.4	**10.3**	**11.0**
12	UBW20	412	10.9	11.4	11.5	13.6	14.1	11.0	**12.1**	11.0	11.0	11.4	12.4	**11.5**	**11.8**
13	DBW424	413	9.8	11.1	11.1	13.0	13.2	12.3	**11.8**	11.1	10.0	12.1	11.3	**11.1**	**11.5**
14	BCW30	414	11.4	11.1	10.8	13.9	14.2	12.9	**12.4**	12.1	9.6	11.7	11.7	**11.3**	**11.9**
15	UP3126	415	10.8	11.7	10.9	12.7	15.4	11.7	**12.2**	10.3	9.6	11.5	12.1	**10.9**	**11.7**
16	WH1322	416	11.0	11.9	11.7	14.8	14.9	11.5	**12.6**	11.3	10.0	11.1	12.6	**11.3**	**12.1**
17	DBW423	417	11.0	12.0	11.5	14.4	14.2	11.8	**12.5**	10.5	9.6	11.7	12.5	**11.1**	**11.9**
18	DBW422	418	12.8	11.0	11.1	13.2	15.3	10.4	**12.3**	10.5	10.1	10.7	11.6	**10.7**	**11.7**
19	K2207	419	11.4	9.7	10.9	13.4	14.0	11.6	**11.8**	11.3	9.6	11.2	12.0	**11.0**	**11.5**
20	BRW3941	420	10.3	11.2	10.9	13.6	14.5	12.0	**12.1**	12.2	9.9	11.4	11.7	**11.3**	**11.8**
21	DBW421	421	12.2	11.1	11.4	14.5	14.6	11.2	**12.5**	12.1	9.9	11.9	12.9	**11.7**	**12.2**
22	HD3453	422	11.6	11.8	10.9	13.6	15.8	12.1	**12.6**	11.7	10.1	11.6	12.0	**11.4**	**12.1**
23	JKW303	423	11.6	11.3	11.7	13.1	15.1	12.0	**12.5**	10.4	10.5	12.2	11.7	**11.2**	**12.0**
24	DBW107 (C)	424	10.8	11.8	10.6	13.5	14.8	12.1	**12.3**	11.3	9.7	10.6	12.2	**11.0**	**11.7**
25	HD3454	425	10.4	10.1	11.9	13.7	14.1	13.0	**12.2**	11.0	10.2	11.1	12.4	**11.2**	**11.8**
26	PBW922	426	11.9	11.6	11.7	13.7	15.6	11.4	**12.6**	12.7	10.8	11.8	13.0	**12.1**	**12.4**
27	HD3059 (C)	427	11.8	11.2	11.1	13.2	14.4	11.5	**12.2**	10.6	10.5	11.4	12.5	**11.3**	**11.8**
28	PBW921	428	10.7	10.9	11.7	13.7	14.9	12.2	**12.4**	11.5	9.6	11.4	11.7	**11.1**	**11.8**
29	K2208	429	11.0	11.2	10.9	13.5	14.4	11.9	**12.1**	11.3	9.6	11.1	11.7	**10.9**	**11.7**
30	DBW173 (C)	430	11.5	11.5	10.9	14.0	16.6	12.0	**12.8**	11.5	10.0	11.9	12.6	**11.5**	**12.3**
31	RAJ4580	431	10.4	10.5	10.6	9.6	12.6	12.1	**11.0**	11.0	10.4	12.3	11.1	**11.2**	**11.1**
32	HI1563 (C)	432	11.9	11.4	11.8	13.2	14.7	11.0	**12.3**	11.1	10.4	11.2	11.2	**11.0**	**11.8**
33	WH1324	433	12.1	11.9	10.8	13.9	15.5	10.6	**12.5**	13.0	9.4	11.1	12.4	**11.5**	**12.1**
34	K2206	434	11.5	12.5	11.4	14.6	14.4	14.1	**13.1**	11.7	11.0	11.6	12.4	**11.7**	**12.5**
35	HD3455	435	11.7	11.1	11.2	14.0	15.0	12.2	**12.5**	11.6	9.6	10.5	12.0	**10.9**	**11.9**
36	UP3127	436	10.7	10.9	12.9	13.1	14.8	11.4	**12.3**	10.9	10.9	12.6	11.7	**11.5**	**12.0**
Mean			**11.4**	**11.2**	**11.2**	**13.6**	**14.5**	**11.9**	**12.3**	**11.3**	**10.0**	**11.5**	**12.1**	**11.2**	**11.9**

Table 68: **Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 3A**

S. No.	Entry	Trial Code	NWPZ							NEPZ					Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Durgapura	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	PBW923	401	62.0	61.0	59.0	65.0	55.0	63.4	**60.9**	60.0	67.0	67.0	50.0	**61.0**	**60.9**
2	SVPWL21-14	402	54.0	47.0	50.0	65.0	57.0	56.9	**55.0**	50.0	63.0	53.0	58.0	**56.0**	**55.4**
3	PBW920	403	36.0	43.0	42.0	49.0	40.0	52.7	**43.8**	40.0	44.0	47.0	44.0	**43.8**	**43.8**
4	NW8071	404	53.0	57.0	60.0	63.0	45.0	59.6	**56.3**	64.0	65.0	60.0	60.0	**62.3**	**58.7**
5	PBW919	405	51.0	46.0	42.0	60.0	44.0	51.9	**49.1**	50.0	44.0	45.0	49.0	**47.0**	**48.3**
6	HD3452	406	63.0	60.0	56.0	70.0	59.0	61.5	**61.6**	62.0	61.0	63.0	61.0	**61.8**	**61.7**
7	NW8055	407	67.0	45.0	45.0	69.0	50.0	60.4	**56.1**	55.0	56.0	59.0	52.0	**55.5**	**55.8**
8	RAJ4581	408	47.0	47.0	45.0	60.0	47.0	53.8	**50.0**	55.0	45.0	57.0	50.0	**51.8**	**50.7**
9	DBW420	409	65.0	53.0	59.0	72.0	65.0	66.5	**63.4**	60.0	62.0	64.0	57.0	**60.8**	**62.4**
10	WH1323	410	51.0	58.0	57.0	72.0	58.0	68.4	**60.7**	65.0	56.0	68.0	64.0	**63.3**	**61.7**
11	HP1980	411	63.0	45.0	46.0	63.0	50.0	48.8	**52.6**	55.0	56.0	63.0	53.0	**56.8**	**54.3**
12	UBW20	412	57.0	52.0	54.0	71.0	60.0	63.1	**59.5**	58.0	58.0	65.0	58.0	**59.8**	**59.6**
13	DBW424	413	59.0	62.0	54.0	69.0	59.0	68.1	**61.8**	65.0	53.0	68.0	65.0	**62.8**	**62.2**
14	BCW30	414	54.0	47.0	54.0	63.0	52.0	65.0	**55.8**	60.0	49.0	62.0	55.0	**56.5**	**56.1**
15	UP3126	415	51.0	54.0	56.0	61.0	65.0	61.1	**58.0**	59.0	50.0	67.0	55.0	**57.8**	**57.9**
16	WH1322	416	58.0	55.0	56.0	66.0	58.0	65.0	**59.7**	61.0	59.0	63.0	60.0	**60.8**	**60.1**
17	DBW423	417	45.0	52.0	58.0	58.0	55.0	59.6	**54.6**	60.0	62.0	64.0	53.0	**59.8**	**56.7**
18	DBW422	418	55.0	50.0	52.0	63.0	58.0	57.3	**55.9**	61.0	60.0	60.0	50.0	**57.8**	**56.6**
19	K2207	419	50.0	41.0	54.0	54.0	55.0	56.9	**51.8**	56.0	55.0	50.0	48.0	**52.3**	**52.0**
20	BRW3941	420	59.0	47.0	48.0	55.0	50.0	60.4	**53.2**	60.0	60.0	58.0	57.0	**58.8**	**55.4**
21	DBW421	421	53.0	47.0	48.0	60.0	50.0	53.1	**51.8**	54.0	52.0	60.0	63.0	**57.3**	**54.0**
22	HD3453	422	60.0	53.0	60.0	61.0	51.0	63.4	**58.1**	60.0	66.0	63.0	55.0	**61.0**	**59.2**
23	JKW303	423	52.0	45.0	42.0	58.0	54.0	52.3	**50.5**	55.0	62.0	59.0	60.0	**59.0**	**53.9**
24	DBW107 (C)	424	48.0	39.0	42.0	55.0	50.0	46.9	**46.8**	49.0	51.0	50.0	45.0	**48.8**	**47.6**
25	HD3454	425	55.0	51.0	50.0	56.0	63.0	61.1	**56.0**	57.0	63.0	65.0	77.0	**65.5**	**59.8**
26	PBW922	426	48.0	49.0	43.0	45.0	52.0	49.2	**47.7**	50.0	49.0	55.0	50.0	**51.0**	**49.0**
27	HD3059 (C)	427	61.0	50.0	56.0	58.0	56.0	66.9	**58.0**	58.0	55.0	54.0	58.0	**56.3**	**57.3**
28	PBW921	428	59.0	56.0	56.0	67.0	55.0	63.4	**59.4**	60.0	56.0	68.0	60.0	**61.0**	**60.0**
29	K2208	429	53.0	56.0	53.0	60.0	55.0	50.0	**54.5**	59.0	52.0	58.0	46.0	**53.8**	**54.2**
30	DBW173 (C)	430	58.0	50.0	50.0	62.0	55.0	63.8	**56.5**	54.0	50.0	60.0	51.0	**53.8**	**55.4**
31	RAJ4580	431	55.0	44.0	54.0	62.0	55.0	54.2	**54.0**	58.0	60.0	63.0	50.0	**57.8**	**55.5**
32	HI1563 (C)	432	40.0	34.0	46.0	49.0	50.0	45.7	**44.1**	44.0	50.0	53.0	41.0	**47.0**	**45.3**
33	WH1324	433	69.0	50.0	56.0	70.0	63.0	60.8	**61.5**	67.0	60.0	70.0	52.0	**62.3**	**61.8**
34	K2206	434	52.0	39.0	43.0	50.0	49.0	51.5	**47.4**	49.0	46.0	50.0	41.0	**46.5**	**47.1**
35	HD3455	435	50.0	47.0	47.0	51.0	50.0	53.8	**49.8**	52.0	49.0	55.0	49.0	**51.3**	**50.4**
36	UP3127	436	60.0	45.0	52.0	56.0	52.0	69.2	**55.7**	53.0	57.0	63.0	50.0	**55.8**	**55.7**
Mean			**54.8**	**49.4**	**51.3**	**60.8**	**53.9**	**58.5**	**54.8**	**56.5**	**55.6**	**59.7**	**54.1**	**56.5**	**55.5**

Table 69: Phenol test (Max score 10) of *T. aestivum* genotypes in NIVT 3A

S. No.	Entry	Trial Code	NWPZ							NEPZ					Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Durgapura	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	PBW923	401	7.0	7.0	6.0	7.0	6.0	5.0	**6.3**	7.0	7.0	7.0	6.0	**6.8**	**6.5**
2	SVPWL21-14	402	8.0	7.0	7.0	7.0	8.0	4.5	**6.9**	7.0	7.0	7.0	7.0	**7.0**	**7.0**
3	PBW920	403	7.0	7.0	7.0	7.0	8.0	5.0	**6.8**	8.0	7.0	7.0	7.0	**7.3**	**7.0**
4	NW8071	404	7.0	8.0	7.0	7.0	8.0	5.5	**7.1**	8.0	7.0	7.0	7.0	**7.3**	**7.2**
5	PBW919	405	7.0	7.0	6.0	6.0	7.0	5.5	**6.4**	7.0	6.0	7.0	7.0	**6.8**	**6.6**
6	HD3452	406	8.0	7.0	7.0	8.0	7.0	5.5	**7.1**	8.0	8.0	7.0	8.0	**7.8**	**7.4**
7	NW8055	407	6.0	6.0	6.0	6.0	6.0	5.0	**5.8**	6.0	6.0	7.0	7.0	**6.5**	**6.1**
8	RAJ4581	408	8.0	7.0	7.0	7.0	8.0	5.0	**7.0**	7.0	7.0	8.0	7.0	**7.3**	**7.1**
9	DBW420	409	7.0	7.0	7.0	7.0	7.0	5.5	**6.8**	7.0	7.0	8.0	8.0	**7.5**	**7.1**
10	WH1323	410	7.0	8.0	7.0	8.0	7.0	6.0	**7.2**	7.0	7.0	7.0	8.0	**7.3**	**7.2**
11	HP1980	411	7.0	7.0	7.0	8.0	7.0	4.5	**6.8**	8.0	7.0	8.0	7.0	**7.5**	**7.1**
12	UBW20	412	7.0	7.0	7.0	7.0	7.0	6.0	**6.8**	7.0	7.0	8.0	7.0	**7.3**	**7.0**
13	DBW424	413	7.0	6.0	7.0	6.0	6.0	5.0	**6.2**	7.0	6.0	7.0	7.0	**6.8**	**6.4**
14	BCW30	414	4.0	3.0	4.0	3.0	4.0	3.0	**3.5**	4.0	3.0	4.0	4.0	**3.8**	**3.6**
15	UP3126	415	7.0	8.0	7.0	7.0	7.0	5.5	**6.9**	7.0	7.0	8.0	7.0	**7.3**	**7.1**
16	WH1322	416	8.0	7.0	8.0	8.0	7.0	5.0	**7.2**	7.0	7.0	7.0	7.0	**7.0**	**7.1**
17	DBW423	417	8.0	8.0	7.0	7.0	7.0	5.0	**7.0**	7.0	7.0	8.0	7.0	**7.3**	**7.1**
18	DBW422	418	8.0	7.0	7.0	7.0	8.0	6.0	**7.2**	8.0	7.0	7.0	8.0	**7.5**	**7.3**
19	K2207	419	8.0	7.0	7.0	8.0	7.0	6.5	**7.3**	8.0	8.0	8.0	8.0	**8.0**	**7.6**
20	BRW3941	420	7.0	7.0	7.0	8.0	7.0	6.0	**7.0**	8.0	7.0	8.0	8.0	**7.8**	**7.3**
21	DBW421	421	8.0	8.0	7.0	8.0	7.0	5.5	**7.3**	8.0	7.0	8.0	8.0	**7.8**	**7.5**
22	HD3453	422	7.0	6.0	6.0	6.0	7.0	4.5	**6.1**	7.0	6.0	7.0	7.0	**6.8**	**6.4**
23	JKW303	423	8.0	7.0	7.0	7.0	8.0	5.0	**7.0**	7.0	7.0	8.0	8.0	**7.5**	**7.2**
24	DBW107 (C)	424	8.0	7.0	7.0	7.0	8.0	5.0	**7.0**	8.0	7.0	8.0	7.0	**7.5**	**7.2**
25	HD3454	425	8.0	7.0	7.0	7.0	8.0	5.0	**7.0**	7.0	7.0	7.0	7.0	**7.0**	**7.0**
26	PBW922	426	8.0	8.0	7.0	8.0	8.0	5.5	**7.4**	8.0	8.0	7.0	7.0	**7.5**	**7.5**
27	HD3059 (C)	427	8.0	7.0	8.0	8.0	7.0	5.5	**7.3**	7.0	7.0	8.0	7.0	**7.3**	**7.3**
28	PBW921	428	8.0	7.0	7.0	8.0	7.0	5.5	**7.1**	8.0	8.0	7.0	7.0	**7.5**	**7.3**
29	K2208	429	5.0	4.0	4.0	4.0	4.0	4.0	**4.2**	5.0	4.0	4.0	5.0	**4.5**	**4.3**
30	DBW173 (C)	430	8.0	8.0	7.0	8.0	7.0	6.0	**7.3**	7.0	7.0	8.0	7.0	**7.3**	**7.3**
31	RAJ4580	431	5.0	5.0	4.0	4.0	4.0	3.5	**4.3**	5.0	5.0	4.0	5.0	**4.8**	**4.5**
32	HI1563 (C)	432	5.0	5.0	4.0	4.0	5.0	4.0	**4.5**	5.0	4.0	5.0	5.0	**4.8**	**4.6**
33	WH1324	433	8.0	8.0	8.0	8.0	7.0	6.0	**7.5**	7.0	7.0	8.0	8.0	**7.5**	**7.5**
34	K2206	434	8.0	8.0	7.0	8.0	7.0	5.0	**7.2**	8.0	7.0	8.0	8.0	**7.8**	**7.4**
35	HD3455	435	5.0	5.0	5.0	5.0	6.0	4.0	**5.0**	6.0	5.0	6.0	6.0	**5.8**	**5.3**
36	UP3127	436	5.0	4.0	4.0	4.0	5.0	4.0	**4.3**	6.0	5.0	6.0	6.0	**5.8**	**4.9**
Mean			**7.1**	**6.7**	**6.5**	**6.8**	**6.8**	**5.1**	**6.5**	**7.0**	**6.6**	**7.1**	**6.9**	**6.9**	**6.6**

Table 70: Grain appearance score (out of 10) of *T. aestivum* genotypes in NIVT -3B

S. No	Entries	Code	CZ					PZ				Overall Mean
			Indore	Vijapur	P'kheda	Junagarh	Mean	Dharwad	Niphad	Pune	Mean	
1.	HD2864 (C)	501	6.0	6.5	6.0	5.0	**5.9**	6.5	6.5	5.5	**6.2**	**6.0**
2.	NIAW4432	502	5.5	6.0	5.5	6.0	**5.8**	5.5	5.5	7.0	**6.0**	**5.9**
3.	HD3456	503	5.0	7.0	5.5	7.0	**6.1**	7.0	5.5	6.5	**6.3**	**6.2**
4.	MACS6829	504	7.5	6.0	5.5	7.0	**6.5**	7.5	7.0	7.0	**7.2**	**6.8**
5.	HI1686	505	5.5	7.5	7.0	5.0	**6.3**	6.5	6.0	7.0	**6.5**	**6.4**
6.	MP3568	506	6.5	5.5	5.5	6.5	**6.0**	6.0	6.0	6.0	**6.0**	**6.0**
7.	LOK81	507	7.0	6.5	6.5	6.0	**6.5**	6.5	5.5	6.5	**6.2**	**6.4**
8.	MACS6830	508	6.5	7.5	8.0	6.0	**7.0**	6.5	7.5	7.0	**7.0**	**7.0**
9.	HD2932 (C)	509	6.0	6.5	6.5	6.0	**6.3**	7.5	5.0	7.5	**6.7**	**6.4**
10.	HI1685	510	6.0	7.0	5.5	7.0	**6.4**	6.0	5.5	6.0	**5.8**	**6.1**
11.	UAS3027	511	5.5	6.0	5.5	5.0	**5.5**	5.3	5.0	6.0	**5.4**	**5.5**
12.	GW551	512	7.0	7.5	6.0	8.0	**7.1**	6.0	6.0	6.0	**6.0**	**6.6**
13.	PBW924	513	7.0	7.5	7.0	8.0	**7.4**	7.5	6.5	7.0	**7.0**	**7.2**
14.	GW558	514	6.0	7.0	6.5	6.0	**6.4**	7.3	6.5	6.0	**6.6**	**6.5**
15.	DBW426	515	5.5	6.0	6.0	6.0	**5.9**	7.5	6.0	6.0	**6.5**	**6.1**
16.	NIAW4300	516	4.0	5.0	4.5	4.5	**4.5**	4.0	4.0	4.5	**4.2**	**4.4**
17.	WH1325	517	5.5	5.0	4.0	5.0	**4.9**	6.0	6.5	5.5	**6.0**	**5.4**
18.	MP3575	518	7.0	6.0	7.0	6.0	**6.5**	6.5	5.0	5.5	**5.7**	**6.1**
19.	GW556	519	5.0	5.5	8.0	5.5	**6.0**	6.0	6.0	5.0	**5.7**	**5.9**
20.	UAS3028	520	7.0	6.0	6.5	5.5	**6.3**	6.0	7.0	6.0	**6.3**	**6.3**
21.	WSM138	521	7.0	7.0	6.5	8.0	**7.1**	6.5	6.5	7.5	**6.8**	**7.0**
22.	HI1687	522	7.5	6.0	7.0	7.5	**7.0**	5.5	6.5	6.5	**6.2**	**6.6**
23.	CG1046	523	6.0	8.0	6.5	6.5	**6.8**	7.0	7.0	8.0	**7.3**	**7.0**
24.	DBW425	524	6.5	6.0	6.0	6.5	**6.3**	6.0	6.0	6.0	**6.0**	**6.1**
25.	MP1394	525	7.0	5.5	6.0	6.0	**6.1**	6.0	6.0	6.5	**6.2**	**6.1**
		Mean	**6.2**	**6.4**	**6.2**	**6.2**	**6.3**	**6.3**	**6.0**	**6.3**	**6.2**	**6.2**

Table 71: Hectoliter weight (kg/hl.) of *T. aestivum* genotypes in NIVT -3B

S. No	Entries	Code	CZ					PZ				Overall Mean
			Indore	Vijapur	P'kheda	Junagarh	Mean	Dharwad	Niphad	Pune	Mean	
1.	HD2864 (C)	501	80.7	81.3	77.4	78.7	**79.5**	81.0	77.4	81.2	**79.9**	**79.7**
2.	NIAW4432	502	77.6	73.0	71.9	74.4	**74.2**	76.1	72.5	78.1	**75.6**	**74.8**
3.	HD3456	503	80.4	79.0	75.1	77.4	**78.0**	80.2	74.5	80.5	**78.4**	**78.2**
4.	MACS6829	504	79.3	74.5	72.9	76.3	**75.7**	79.1	73.4	78.6	**77.0**	**76.3**
5.	HI1686	505	80.9	79.8	78.4	78.9	**79.5**	81.2	77.6	79.9	**79.6**	**79.5**
6.	MP3568	506	79.2	78.3	74.1	76.2	**76.9**	78.1	75.0	79.1	**77.4**	**77.1**
7.	LOK81	507	79.9	77.1	77.9	77.7	**78.1**	80.3	74.0	79.6	**78.0**	**78.1**
8.	MACS6830	508	79.0	77.0	74.1	75.5	**76.4**	79.2	74.3	79.7	**77.7**	**76.9**
9.	HD2932 (C)	509	77.9	77.3	75.3	76.9	**76.8**	79.2	71.4	79.2	**76.6**	**76.7**
10.	HI1685	510	80.3	78.4	76.9	76.9	**78.1**	78.1	76.3	79.1	**77.9**	**78.0**
11.	UAS3027	511	77.1	74.4	72.6	73.4	**74.4**	77.4	73.0	77.1	**75.8**	**75.0**
12.	GW551	512	81.7	78.6	78.4	79.1	**79.4**	79.2	77.8	80.1	**79.0**	**79.3**
13.	PBW924	513	76.9	75.1	73.9	74.8	**75.2**	77.0	71.7	74.9	**74.6**	**74.9**
14.	GW558	514	79.1	78.7	76.2	77.9	**78.0**	80.4	76.0	79.8	**78.8**	**78.3**
15.	DBW426	515	78.6	76.1	73.2	75.2	**75.8**	78.8	74.4	78.8	**77.4**	**76.4**
16.	NIAW4300	516	75.4	74.7	71.0	73.5	**73.7**	75.8	71.3	73.1	**73.4**	**73.5**
17.	WH1325	517	74.7	75.4	69.0	73.8	**73.2**	77.8	73.1	78.5	**76.5**	**74.6**
18.	MP3575	518	78.4	77.9	72.0	76.0	**76.1**	79.9	72.6	77.6	**76.7**	**76.4**
19.	GW556	519	80.9	79.1	76.8	77.6	**78.6**	79.7	76.6	78.9	**78.4**	**78.5**
20.	UAS3028	520	79.0	75.6	75.4	75.8	**76.4**	79.8	74.1	78.3	**77.4**	**76.8**
21.	WSM138	521	79.8	79.3	78.6	77.9	**78.9**	79.9	76.9	80.2	**79.0**	**78.9**
22.	HI1687	522	79.2	76.3	76.4	77.8	**77.4**	78.7	76.1	78.7	**77.9**	**77.6**
23.	CG1046	523	79.7	77.8	76.8	77.6	**78.0**	80.3	75.6	77.5	**77.8**	**77.9**
24.	DBW425	524	78.5	76.7	74.9	76.8	**76.7**	79.8	73.4	79.5	**77.5**	**77.1**
25.	MP1394	525	77.3	73.7	74.1	75.5	**75.1**	76.9	74.9	74.0	**75.3**	**75.2**
		Mean	**78.8**	**77.0**	**74.9**	**76.5**	**76.8**	**78.9**	**74.6**	**78.5**	**77.3**	**77.0**

Table 72: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT -3B

S. No	Entries	Code	CZ					PZ				Overall Mean
			Indore	Vijapur	P'kheda	Junagarh	Mean	Dharwad	Niphad	Pune	Mean	
1.	HD2864 (C)	501	9.8	12.0	10.5	12.4	**11.2**	11.3	10.0	10.2	**10.5**	**10.9**
2.	NIAW4432	502	10.8	11.7	12.6	12.5	**11.9**	10.8	11.1	11.2	**11.0**	**11.5**
3.	HD3456	503	11.2	12.0	12.9	11.8	**12.0**	10.8	10.8	12.1	**11.2**	**11.7**
4.	MACS6829	504	11.5	11.5	12.4	12.3	**11.9**	10.1	11.0	12.2	**11.1**	**11.6**
5.	HI1686	505	10.2	11.0	11.0	12.1	**11.1**	12.5	10.2	10.6	**11.1**	**11.1**
6.	MP3568	506	10.0	12.1	12.4	12.3	**11.7**	11.0	10.7	12.0	**11.2**	**11.5**
7.	LOK81	507	11.3	12.3	11.9	12.2	**11.9**	11.2	12.4	12.4	**12.0**	**12.0**
8.	MACS6830	508	11.2	11.9	12.1	13.0	**12.0**	12.2	12.5	11.7	**12.1**	**12.1**
9.	HD2932 (C)	509	11.3	12.1	11.2	12.4	**11.7**	12.5	12.5	11.1	**12.0**	**11.9**
10.	HI1685	510	11.2	11.9	11.2	12.1	**11.6**	12.1	11.2	12.0	**11.8**	**11.7**
11.	UAS3027	511	10.6	12.2	12.8	11.2	**11.7**	12.8	11.3	10.4	**11.5**	**11.6**
12.	GW551	512	12.0	12.7	12.1	12.4	**12.3**	10.9	12.5	11.8	**11.7**	**12.1**
13.	PBW924	513	11.2	12.5	11.5	11.7	**11.7**	11.8	12.5	12.8	**12.4**	**12.0**
14.	GW558	514	11.0	11.9	12.3	12.4	**11.9**	11.4	11.1	9.9	**10.8**	**11.4**
15.	DBW426	515	11.3	11.9	11.1	12.1	**11.6**	11.6	11.4	12.0	**11.6**	**11.6**
16.	NIAW4300	516	9.8	10.1	8.8	10.6	**9.8**	8.8	9.0	8.3	**8.7**	**9.3**
17.	WH1325	517	10.6	11.6	11.6	12.3	**11.5**	11.0	11.0	11.0	**11.0**	**11.3**
18.	MP3575	518	11.3	12.8	11.6	12.2	**12.0**	12.9	11.0	10.8	**11.6**	**11.8**
19.	GW556	519	11.9	11.1	11.6	12.2	**11.7**	10.7	11.6	12.0	**11.4**	**11.6**
20.	UAS3028	520	11.9	12.6	9.8	11.9	**11.6**	12.3	10.3	12.1	**11.6**	**11.6**
21.	WSM138	521	11.9	12.5	9.8	12.9	**11.8**	12.1	11.2	10.0	**11.1**	**11.5**
22.	HI1687	522	11.8	12.2	12.0	11.0	**11.8**	12.1	11.8	11.9	**11.9**	**11.8**
23.	CG1046	523	10.8	11.9	10.6	10.3	**10.9**	12.1	12.0	12.1	**12.1**	**11.4**
24.	DBW425	524	12.8	12.7	12.0	12.3	**12.5**	12.4	11.8	11.8	**12.0**	**12.2**
25.	MP1394	525	11.8	12.8	11.9	12.3	**12.2**	10.9	11.1	12.2	**11.4**	**11.8**
		Mean	**11.2**	**12.0**	**11.5**	**12.0**	**11.7**	**11.5**	**11.3**	**11.4**	**11.4**	**11.5**

Table 73: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT -3B

S. No	Entries	Code	CZ					PZ				Overall Mean
			Indore	Vijapur	P'kheda	Junagarh	Mean	Dharwad	Niphad	Pune	Mean	
1.	HD2864 (C)	501	51.0	51.0	49.0	48.0	**49.8**	39.0	43.0	46.0	**42.7**	**46.7**
2.	NIAW4432	502	50.0	54.5	45.0	42.0	**47.9**	39.0	51.0	55.5	**48.5**	**48.1**
3.	HD3456	503	52.0	54.0	42.5	46.0	**48.6**	36.0	47.5	45.5	**43.0**	**46.2**
4.	MACS6829	504	51.5	55.0	47.5	40.0	**48.5**	35.5	43.5	43.5	**40.8**	**45.2**
5.	HI1686	505	58.5	50.0	48.5	42.0	**49.8**	42.5	45.0	40.0	**42.5**	**46.6**
6.	MP3568	506	50.0	56.0	50.0	47.0	**50.8**	53.0	56.0	47.0	**52.0**	**51.3**
7.	LOK81	507	44.5	48.5	43.5	44.5	**45.3**	45.5	45.0	44.5	**45.0**	**45.1**
8.	MACS6830	508	45.0	56.0	48.0	47.5	**49.1**	44.0	51.0	49.5	**48.2**	**48.7**
9.	HD2932 (C)	509	46.5	59.0	44.5	49.0	**49.8**	47.0	52.0	45.0	**48.0**	**49.0**
10.	HI1685	510	46.0	54.5	47.5	51.5	**49.9**	47.0	51.0	47.5	**48.5**	**49.3**
11.	UAS3027	511	44.5	55.0	53.5	47.5	**50.1**	52.5	53.5	44.5	**50.2**	**50.1**
12.	GW551	512	41.0	47.5	48.5	53.5	**47.6**	43.5	50.0	41.5	**45.0**	**46.5**
13.	PBW924	513	53.0	65.5	52.0	54.5	**56.3**	46.5	51.0	43.0	**46.8**	**52.2**
14.	GW558	514	46.0	53.0	54.5	48.0	**50.4**	42.5	55.0	57.5	**51.7**	**50.9**
15.	DBW426	515	47.5	53.5	52.0	45.5	**49.6**	49.5	54.5	58.5	**54.2**	**51.6**
16.	NIAW4300	516	45.5	51.5	44.0	42.5	**45.9**	48.0	57.0	42.0	**49.0**	**47.2**
17.	WH1325	517	49.0	55.0	61.0	55.0	**55.0**	52.0	51.5	49.0	**50.8**	**53.2**
18.	MP3575	518	42.5	48.5	49.0	41.0	**45.3**	39.5	47.0	48.5	**45.0**	**45.1**
19.	GW556	519	47.5	49.0	59.0	46.0	**50.4**	51.5	52.5	47.5	**50.5**	**50.4**
20.	UAS3028	520	49.0	50.0	53.0	48.0	**50.0**	48.5	54.5	55.0	**52.7**	**51.1**
21.	WSM138	521	46.0	45.5	50.0	46.0	**46.9**	47.0	53.5	53.5	**51.3**	**48.8**
22.	HI1687	522	46.5	59.0	52.0	54.5	**53.0**	43.5	50.0	54.0	**49.2**	**51.4**
23.	CG1046	523	50.0	51.0	54.5	51.0	**51.6**	32.0	51.0	46.0	**43.0**	**47.9**
24.	DBW425	524	45.5	55.0	55.5	45.0	**50.3**	56.0	57.0	46.5	**53.2**	**51.5**
25.	MP1394	525	47.5	48.0	58.5	50.5	**51.1**	48.0	52.0	45.0	**48.3**	**49.9**
		Mean	**47.8**	**53.0**	**50.5**	**47.4**	**49.7**	**45.2**	**51.0**	**47.8**	**48.0**	**49.0**

Table 74: Phenol test of *T. aestivum* genotypes in NIVT -3B

S. No	Entries	Code	CZ					PZ				Overall Mean
			Indore	Vijapur	P'kheda	Junagarh	Mean	Dharwad	Niphad	Pune	Mean	
1.	HD2864 (C)	501	6.5	8.0	9.0	8.0	**7.9**	9.0	6.5	7.0	**7.5**	**7.7**
2.	NIAW4432	502	4.0	5.0	5.0	5.5	**4.9**	4.5	5.0	3.5	**4.3**	**4.6**
3.	HD3456	503	3.5	5.5	5.5	6.5	**5.3**	4.5	5.5	4.0	**4.7**	**5.0**
4.	MACS6829	504	6.0	7.5	6.5	8.0	**7.0**	6.0	6.0	7.0	**6.3**	**6.7**
5.	HI1686	505	4.0	6.5	5.0	7.0	**5.6**	5.5	6.5	5.0	**5.7**	**5.6**
6.	MP3568	506	3.5	5.0	4.5	5.5	**4.6**	6.0	5.5	4.0	**5.2**	**4.9**
7.	LOK81	507	5.5	6.0	6.0	7.5	**6.3**	6.5	7.0	5.0	**6.2**	**6.2**
8.	MACS6830	508	6.5	9.0	8.0	7.5	**7.8**	6.5	6.5	8.0	**7.0**	**7.4**
9.	HD2932 (C)	509	6.5	7.0	8.0	7.5	**7.3**	7.0	6.5	6.5	**6.7**	**7.0**
10.	HI1685	510	4.5	5.0	4.5	6.0	**5.0**	4.5	5.0	3.0	**4.2**	**4.6**
11.	UAS3027	511	6.0	8.5	7.5	8.5	**7.6**	8.0	6.0	6.5	**6.8**	**7.3**
12.	GW551	512	6.0	8.5	5.5	8.0	**7.0**	6.0	8.0	6.0	**6.7**	**6.9**
13.	PBW924	513	3.5	7.0	6.0	6.5	**5.8**	6.0	5.5	4.0	**5.2**	**5.5**
14.	GW558	514	5.0	7.0	4.5	7.0	**5.9**	5.5	6.0	5.0	**5.5**	**5.7**
15.	DBW426	515	5.5	6.5	8.0	9.0	**7.3**	6.0	5.0	5.5	**5.5**	**6.5**
16.	NIAW4300	516	4.0	6.5	5.0	7.0	**5.6**	3.5	5.0	4.5	**4.3**	**5.1**
17.	WH1325	517	4.0	4.5	3.5	5.0	**4.3**	4.5	4.5	3.0	**4.0**	**4.1**
18.	MP3575	518	4.5	7.5	4.5	6.0	**5.6**	5.0	4.5	5.0	**4.8**	**5.3**
19.	GW556	519	4.5	7.5	5.5	6.5	**6.0**	5.5	4.5	6.0	**5.3**	**5.7**
20.	UAS3028	520	4.5	6.0	5.0	5.5	**5.3**	6.0	5.0	3.5	**4.8**	**5.1**
21.	WSM138	521	4.5	6.0	5.0	5.5	**5.3**	4.5	5.5	3.5	**4.5**	**4.9**
22.	HI1687	522	5.5	6.5	6.0	8.0	**6.5**	7.0	5.5	5.5	**6.0**	**6.3**
23.	CG1046	523	5.5	7.5	5.5	8.0	**6.6**	6.0	8.0	6.0	**6.7**	**6.6**
24.	DBW425	524	6.0	7.0	5.5	8.0	**6.6**	6.5	7.0	5.0	**6.2**	**6.4**
25.	MP1394	525	4.0	4.5	5.0	4.5	**4.5**	4.0	5.5	3.0	**4.2**	**4.4**
		Mean	**4.9**	**6.6**	**5.8**	**6.9**	**6.1**	**5.8**	**5.8**	**5.0**	**5.5**	**5.8**

Table 75: Grain appearance score (out of 10) of *T. durum* genotypes in NIVT -4

S. No.	Entries	Code	CZ					PZ				Overall Mean
			P'kheda	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1.	HI8850	601	6.0	6.0	5.0	5.0	**5.5**	6.0	5.0	6.0	**5.7**	**5.6**
2.	MPO1396	602	5.0	6.0	5.0	5.0	**5.3**	5.0	5.0	5.0	**5.0**	**5.1**
3.	PWU24	603	6.0	7.0	5.0	6.0	**6.0**	6.0	4.0	6.0	**5.3**	**5.7**
4.	GW1367	604	8.0	8.0	8.0	8.0	**8.0**	7.0	8.0	8.0	**7.7**	**7.9**
5.	DDW63	605	7.0	5.0	6.0	5.0	**5.8**	7.0	7.0	6.0	**6.7**	**6.1**
6.	MACS4135	606	5.0	6.0	6.0	5.0	**5.5**	6.0	5.0	6.0	**5.7**	**5.6**
7.	HI8849	607	5.0	5.0	5.0	5.0	**5.0**	5.0	4.0	5.0	**4.7**	**4.9**
8.	DDW62	608	5.0	6.0	6.0	6.0	**5.8**	6.0	5.0	5.0	**5.3**	**5.6**
9.	MACS4125	609	6.0	7.0	7.0	7.0	**6.8**	7.0	5.0	6.0	**6.0**	**6.4**
10.	PDW364	610	4.0	5.0	4.0	4.0	**4.3**	5.0	5.0	6.0	**5.3**	**4.7**
11.	HI8737 (C)	611	7.0	7.0	6.0	6.0	**6.5**	6.0	6.0	7.0	**6.3**	**6.4**
12.	NIDW1499	612	5.0	6.0	6.0	4.0	**5.3**	5.0	6.0	6.0	**5.7**	**5.4**
13.	MACS3949 (C)	613	6.0	6.0	7.0	5.0	**6.0**	7.0	5.0	7.0	**6.3**	**6.1**
14.	UAS483	614	6.0	6.0	6.0	5.0	**5.8**	5.0	5.0	6.0	**5.3**	**5.6**
15.	NIDW1520	615	5.0	5.0	4.0	4.0	**4.5**	7.0	6.0	7.0	**6.7**	**5.4**
16.	UAS482	616	5.0	4.0	4.0	5.0	**4.5**	5.0	6.0	5.0	**5.3**	**4.9**
17.	GW1365	617	6.0	6.0	6.0	7.0	**6.3**	5.0	5.0	5.0	**5.0**	**5.7**
18.	GW1366	618	4.0	5.0	4.0	5.0	**4.5**	5.0	4.0	7.0	**5.3**	**4.9**
19.	PDW365	619	5.0	6.0	5.0	4.0	**5.0**	4.0	6.0	7.0	**5.7**	**5.3**
20.	MPO1395	620	7.0	7.0	6.0	6.0	**6.5**	7.0	7.0	7.0	**7.0**	**6.7**
21.	WHD968	621	5.0	5.0	5.0	5.0	**5.0**	6.0	5.0	5.0	**5.3**	**5.1**
22.	HI8848	622	6.0	6.0	6.0	5.0	**5.8**	6.0	6.0	5.0	**5.7**	**5.7**
23.	AKDW5516	623	6.0	7.0	7.0	5.0	**6.3**	5.0	5.0	6.0	**5.3**	**5.9**
24.	NIDW1534	624	4.0	5.0	5.0	5.0	**4.8**	5.0	5.0	5.0	**5.0**	**4.9**
25.	HI8713 (C)	625	4.0	6.0	5.0	5.0	**5.0**	5.0	5.0	5.0	**5.0**	**5.0**
		Mean	**5.5**	**5.9**	**5.6**	**5.3**	**5.6**	**5.7**	**5.4**	**6.0**	**5.7**	**5.6**

Table 76: Hectoliter weight (kg/hl.) of *T. durum* genotypes in NIVT -4

S. No.	Entries	Code	CZ					PZ				Overall Mean
			P'kheda	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1.	HI8850	601	81.0	81.2	79.5	79.4	**80.3**	80.7	80.8	76.2	**79.2**	**79.8**
2.	MPO1396	602	79.3	79.0	78.1	77.4	**78.4**	79.3	81.0	79.3	**79.8**	**79.0**
3.	PWU24	603	77.4	80.2	78.0	77.3	**78.2**	75.2	80.7	78.9	**78.2**	**78.2**
4.	GW1367	604	79.5	80.3	79.6	79.6	**79.7**	79.5	81.2	81.8	**80.8**	**80.2**
5.	DDW63	605	78.7	78.6	78.7	78.5	**78.6**	80.2	80.2	80.8	**80.4**	**79.4**
6.	MACS4135	606	78.8	79.9	80.3	80.0	**79.7**	75.0	80.4	75.6	**77.0**	**78.5**
7.	HI8849	607	78.9	78.7	78.5	78.2	**78.6**	76.0	81.8	71.1	**76.3**	**77.6**
8.	DDW62	608	78.4	79.3	76.8	79.6	**78.5**	76.0	82.0	76.6	**78.2**	**78.4**
9.	MACS4125	609	78.5	77.9	76.8	77.8	**77.7**	77.3	81.1	76.5	**78.3**	**78.0**
10.	PDW364	610	75.8	78.9	78.6	70.7	**76.0**	81.0	80.6	77.7	**79.8**	**77.6**
11.	HI8737 (C)	611	80.0	80.4	78.4	79.7	**79.6**	79.4	81.2	78.7	**79.7**	**79.7**
12.	NIDW1499	612	74.9	77.6	77.2	76.9	**76.6**	77.1	79.7	71.9	**76.2**	**76.5**
13.	MACS3949 (C)	613	78.7	80.3	79.4	79.2	**79.4**	81.6	81.9	78.2	**80.5**	**79.9**
14.	UAS483	614	77.5	78.2	76.7	76.6	**77.2**	76.6	80.0	74.7	**77.1**	**77.2**
15.	NIDW1520	615	77.0	78.2	76.7	74.0	**76.5**	77.7	81.5	79.7	**79.6**	**77.8**
16.	UAS482	616	77.3	77.9	77.9	75.6	**77.1**	80.8	81.7	81.7	**81.4**	**79.0**
17.	GW1365	617	76.8	79.5	79.4	79.2	**78.7**	81.4	81.1	78.5	**80.3**	**79.4**
18.	GW1366	618	75.4	75.8	77.2	76.4	**76.2**	80.1	76.8	75.8	**77.5**	**76.8**
19.	PDW365	619	77.5	80.9	78.0	72.7	**77.3**	78.0	82.6	77.2	**79.2**	**78.1**
20.	MPO1395	620	77.1	78.1	78.4	78.1	**77.9**	79.6	79.8	76.1	**78.5**	**78.1**
21.	WHD968	621	76.9	76.4	77.0	76.1	**76.6**	79.7	80.3	76.4	**78.8**	**77.5**
22.	HI8848	622	78.7	81.2	78.0	79.6	**79.4**	80.8	82.7	78.9	**80.8**	**80.0**
23.	AKDW5516	623	77.5	78.5	80.1	75.9	**78.0**	80.2	79.3	78.0	**79.1**	**78.5**
24.	NIDW1534	624	77.6	76.2	79.0	77.2	**77.5**	80.7	81.1	76.3	**79.4**	**78.3**
25.	HI8713 (C)	625	78.4	79.1	78.8	75.2	**77.9**	80.2	82.0	78.6	**80.2**	**78.9**
		Mean	**77.9**	**78.9**	**78.3**	**77.2**	**78.1**	**78.9**	**80.9**	**77.4**	**79.1**	**78.5**

Table 77: Protein content (%) at 12% moisture basis of *T. durum* genotypes in NIVT -4

S. No.	Entries	Code	CZ					PZ				Overall Mean
			P'kheda	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1.	HI8850	601	10.3	12.2	12.5	12.4	**11.9**	11.3	10.7	11.4	**11.1**	**11.5**
2.	MPO1396	602	12.5	12.8	12.3	12.2	**12.4**	11.4	10.1	11.8	**11.1**	**11.9**
3.	PWU24	603	12.1	13.2	12.5	12.3	**12.5**	11.6	9.4	11.6	**10.9**	**11.8**
4.	GW1367	604	13.0	13.9	13.1	13.2	**13.3**	12.9	11.3	13.0	**12.4**	**12.9**
5.	DDW63	605	11.8	12.8	12.5	12.2	**12.3**	12.3	10.3	12.0	**11.5**	**12.0**
6.	MACS4135	606	10.0	11.4	12.7	11.2	**11.4**	11.3	9.5	12.6	**11.1**	**11.3**
7.	HI8849	607	10.4	12.3	12.2	12.3	**11.8**	10.8	9.7	11.4	**10.7**	**11.3**
8.	DDW62	608	11.7	12.8	12.3	12.2	**12.2**	11.7	10.4	12.1	**11.4**	**11.9**
9.	MACS4125	609	12.0	13.1	12.0	11.8	**12.2**	11.5	9.8	11.6	**11.0**	**11.7**
10.	PDW364	610	12.6	13.7	14.6	15.3	**14.0**	11.4	11.7	10.3	**11.1**	**12.8**
11.	HI8737 (C)	611	10.3	12.5	12.1	11.8	**11.6**	11.6	10.2	12.2	**11.3**	**11.5**
12.	NIDW1499	612	13.1	12.9	13.1	11.8	**12.7**	11.7	10.6	12.6	**11.7**	**12.3**
13.	MACS3949 (C)	613	12.1	12.3	12.0	11.5	**12.0**	11.6	10.1	12.6	**11.4**	**11.8**
14.	UAS483	614	12.4	12.4	13.1	12.2	**12.5**	12.6	9.9	13.1	**11.9**	**12.2**
15.	NIDW1520	615	13.2	13.0	12.9	13.3	**13.1**	11.4	10.3	11.4	**11.0**	**12.2**
16.	UAS482	616	11.7	14.0	13.2	12.6	**12.9**	12.2	10.5	12.7	**11.8**	**12.4**
17.	GW1365	617	13.1	11.9	12.4	12.0	**12.4**	11.9	9.9	12.7	**11.5**	**12.0**
18.	GW1366	618	11.5	13.3	12.0	11.1	**11.9**	11.4	10.0	12.2	**11.2**	**11.6**
19.	PDW365	619	13.4	13.6	14.0	14.5	**13.9**	11.6	10.9	11.2	**11.3**	**12.7**
20.	MPO1395	620	10.8	12.2	12.7	12.3	**12.0**	11.8	10.6	12.7	**11.7**	**11.9**
21.	WHD968	621	11.9	13.7	13.8	12.0	**12.9**	11.1	10.3	10.0	**10.4**	**11.8**
22.	HI8848	622	11.8	12.5	13.1	11.8	**12.3**	11.6	9.9	12.3	**11.3**	**11.9**
23.	AKDW5516	623	11.6	13.1	13.1	11.7	**12.4**	11.6	10.8	12.7	**11.7**	**12.1**
24.	NIDW1534	624	10.7	12.5	11.6	12.1	**11.7**	11.1	9.7	11.3	**10.7**	**11.3**
25.	HI8713 (C)	625	10.1	12.2	12.6	12.0	**11.7**	10.7	9.7	10.3	**10.2**	**11.1**
		Mean	**11.8**	**12.8**	**12.7**	**12.3**	**12.4**	**11.6**	**10.3**	**11.9**	**11.3**	**11.9**

Table 78: Sedimentation value (ml) of *T. durum* genotypes in NIVT -4

S. No.	Entries	Code	CZ					PZ				Overall Mean
			P'kheda	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1.	HI8850	601	37.0	52.0	45.5	41.0	**43.9**	38.0	43.0	44.0	**41.7**	**42.9**
2.	MPO1396	602	34.0	39.0	31.0	36.0	**35.0**	34.0	33.0	36.0	**34.3**	**34.7**
3.	PWU24	603	41.0	50.0	35.5	36.5	**40.8**	33.0	38.0	41.0	**37.3**	**39.3**
4.	GW1367	604	38.0	40.0	33.0	35.0	**36.5**	31.0	33.0	37.0	**33.7**	**35.3**
5.	DDW63	605	38.0	46.0	36.0	37.0	**39.3**	34.0	37.0	36.0	**35.7**	**37.7**
6.	MACS4135	606	37.0	47.5	36.0	32.0	**38.1**	35.5	38.0	45.5	**39.7**	**38.8**
7.	HI8849	607	33.0	42.0	34.0	35.5	**36.1**	29.0	33.0	38.0	**33.3**	**34.9**
8.	DDW62	608	42.0	47.5	43.0	37.0	**42.4**	36.0	44.0	45.0	**41.7**	**42.1**
9.	MACS4125	609	38.0	42.0	36.0	33.0	**37.3**	35.0	33.0	36.0	**34.7**	**36.1**
10.	PDW364	610	36.0	42.5	35.0	41.0	**38.6**	29.0	36.0	31.0	**32.0**	**35.8**
11.	HI8737 (C)	611	40.0	40.0	35.0	35.0	**37.5**	32.0	38.0	37.0	**35.7**	**36.7**
12.	NIDW1499	612	40.5	42.5	36.0	41.0	**40.0**	33.0	36.0	41.0	**36.7**	**38.6**
13.	MACS3949 (C)	613	42.0	50.5	42.5	48.0	**45.8**	41.0	42.0	48.0	**43.7**	**44.9**
14.	UAS483	614	36.0	45.0	40.0	41.0	**40.5**	33.0	43.0	37.0	**37.7**	**39.3**
15.	NIDW1520	615	43.0	52.5	45.0	45.0	**46.4**	36.0	41.5	52.0	**43.2**	**45.0**
16.	UAS482	616	43.0	55.0	46.0	45.5	**47.4**	36.5	44.0	36.0	**38.8**	**43.7**
17.	GW1365	617	34.0	35.0	34.0	33.0	**34.0**	29.0	33.0	30.0	**30.7**	**32.6**
18.	GW1366	618	20.0	21.0	20.0	19.0	**20.0**	19.0	20.0	20.0	**19.7**	**19.9**
19.	PDW365	619	45.0	55.0	47.0	48.0	**48.8**	39.0	40.0	40.0	**39.7**	**44.9**
20.	MPO1395	620	40.5	46.0	38.5	38.0	**40.8**	39.0	41.0	42.0	**40.7**	**40.7**
21.	WHD968	621	43.0	55.0	45.5	46.0	**47.4**	41.0	43.5	41.0	**41.8**	**45.0**
22.	HI8848	622	41.0	45.0	45.0	41.0	**43.0**	33.0	45.5	38.5	**39.0**	**41.3**
23.	AKDW5516	623	35.0	38.0	28.5	37.0	**34.6**	31.0	34.0	33.0	**32.7**	**33.8**
24.	NIDW1534	624	42.0	45.0	37.5	37.5	**40.5**	33.0	37.0	34.0	**34.7**	**38.0**
25.	HI8713 (C)	625	35.0	42.0	35.5	36.0	**37.1**	31.0	32.0	33.0	**32.0**	**34.9**
		Mean	**38.2**	**44.6**	**37.6**	**38.2**	**39.7**	**33.6**	**37.5**	**38.1**	**36.4**	**38.3**

Table 79: Yellow pigment content (ppm) of *T. durum* genotypes in NIVT -4

S. No.	Entries	Code	CZ					PZ				Overall Mean
			P'kheda	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1.	HI8850	601	4.3	4.3	3.9	5.4	**4.5**	5.2	4.4	3.8	**4.5**	**4.5**
2.	MPO1396	602	4.9	4.6	4.3	6.5	**5.1**	4.9	4.3	3.6	**4.3**	**4.7**
3.	PWU24	603	4.5	3.7	3.4	5.4	**4.3**	4.0	3.4	4.0	**3.8**	**4.1**
4.	GW1367	604	4.3	3.7	3.7	4.3	**4.0**	4.0	1.2	4.2	**3.1**	**3.6**
5.	DDW63	605	5.0	5.1	5.2	4.4	**4.9**	9.9	8.2	5.1	**7.7**	**6.1**
6.	MACS4135	606	6.0	5.9	6.0	6.3	**6.1**	5.5	5.9	7.7	**6.4**	**6.2**
7.	HI8849	607	5.8	6.5	5.3	6.0	**5.9**	5.6	4.9	6.0	**5.5**	**5.7**
8.	DDW62	608	6.5	7.2	7.4	6.4	**6.9**	5.6	8.3	5.0	**6.3**	**6.6**
9.	MACS4125	609	5.5	4.3	5.8	6.2	**5.4**	5.9	4.8	5.3	**5.3**	**5.4**
10.	PDW364	610	3.3	2.4	2.2	4.5	**3.1**	3.2	2.6	4.0	**3.3**	**3.2**
11.	HI8737 (C)	611	3.9	5.0	4.1	4.7	**4.4**	4.5	1.7	4.4	**3.5**	**4.0**
12.	NIDW1499	612	5.9	3.9	4.9	5.1	**4.9**	6.0	5.0	6.1	**5.7**	**5.3**
13.	MACS3949 (C)	613	5.5	3.8	4.0	4.3	**4.4**	4.4	4.2	4.7	**4.4**	**4.4**
14.	UAS483	614	5.1	4.6	5.1	5.2	**5.0**	4.2	4.5	3.8	**4.2**	**4.6**
15.	NIDW1520	615	5.6	3.7	4.9	4.5	**4.7**	3.9	4.4	5.4	**4.6**	**4.6**
16.	UAS482	616	6.4	6.9	6.1	6.8	**6.5**	5.2	5.9	5.1	**5.4**	**6.0**
17.	GW1365	617	4.8	5.1	4.3	6.1	**5.1**	3.8	4.5	4.8	**4.4**	**4.8**
18.	GW1366	618	3.6	2.7	3.9	4.4	**3.6**	3.7	2.0	2.6	**2.7**	**3.3**
19.	PDW365	619	5.1	4.1	4.5	4.6	**4.6**	5.3	5.0	4.0	**4.8**	**4.7**
20.	MPO1395	620	3.8	3.5	3.3	4.5	**3.8**	4.7	3.7	4.9	**4.4**	**4.1**
21.	WHD968	621	4.7	4.3	3.9	5.8	**4.7**	3.6	3.5	5.8	**4.3**	**4.5**
22.	HI8848	622	6.2	4.9	6.6	6.3	**6.0**	5.3	4.5	5.3	**5.0**	**5.6**
23.	AKDW5516	623	4.8	3.0	3.3	5.2	**4.1**	4.0	5.3	3.4	**4.3**	**4.1**
24.	NIDW1534	624	6.2	4.1	6.2	7.7	**6.1**	5.5	6.0	6.3	**5.9**	**6.0**
25.	HI8713 (C)	625	7.4	5.5	6.0	7.2	**6.5**	2.3	6.8	6.0	**5.0**	**5.9**
		Mean	**5.2**	**4.5**	**4.7**	**5.5**	**5.0**	**4.8**	**4.6**	**4.9**	**4.8**	**4.9**

Table 80: Yellow berry content (%) of *T. durum* genotypes in NIVT -4

S. No.	Entries	Code	CZ					PZ				Overall Mean
			P'kheda	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1.	HI8850	601	1.0	1.0	1.0	1.0	**1.0**	0.0	1.0	0.0	**0.3**	**0.7**
2.	MPO1396	602	1.0	0.0	0.0	0.0	**0.3**	0.0	1.0	0.0	**0.3**	**0.3**
3.	PWU24	603	1.0	1.0	0.0	0.0	**0.5**	0.0	8.0	0.0	**2.7**	**1.4**
4.	GW1367	604	1.0	0.0	0.0	0.0	**0.3**	0.0	1.0	0.0	**0.3**	**0.3**
5.	DDW63	605	1.0	0.0	0.0	0.0	**0.3**	0.0	1.0	0.0	**0.3**	**0.3**
6.	MACS4135	606	15.0	2.0	4.0	5.0	**6.5**	5.0	10.0	3.0	**6.0**	**6.3**
7.	HI8849	607	5.0	0.0	0.0	0.0	**1.3**	0.0	8.0	1.0	**3.0**	**2.0**
8.	DDW62	608	1.0	1.0	0.0	0.0	**0.5**	0.0	1.0	1.0	**0.7**	**0.6**
9.	MACS4125	609	1.0	1.0	0.0	0.0	**0.5**	1.0	1.0	1.0	**1.0**	**0.7**
10.	PDW364	610	1.0	1.0	0.0	0.0	**0.5**	1.0	1.0	1.0	**1.0**	**0.7**
11.	HI8737 (C)	611	5.0	1.0	0.0	1.0	**1.8**	1.0	5.0	1.0	**2.3**	**2.0**
12.	NIDW1499	612	1.0	0.0	1.0	0.0	**0.5**	1.0	0.0	1.0	**0.7**	**0.6**
13.	MACS3949 (C)	613	1.0	0.0	1.0	0.0	**0.5**	1.0	0.0	1.0	**0.7**	**0.6**
14.	UAS483	614	1.0	0.0	0.0	0.0	**0.3**	0.0	0.0	1.0	**0.3**	**0.3**
15.	NIDW1520	615	1.0	0.0	0.0	0.0	**0.3**	0.0	0.0	1.0	**0.3**	**0.3**
16.	UAS482	616	5.0	0.0	1.0	0.0	**1.5**	0.0	0.0	1.0	**0.3**	**1.0**
17.	GW1365	617	1.0	0.0	0.0	0.0	**0.3**	0.0	0.0	1.0	**0.3**	**0.3**
18.	GW1366	618	20.0	3.0	10.0	12.0	**11.3**	10.0	8.0	4.0	**7.3**	**9.6**
19.	PDW365	619	1.0	0.0	1.0	1.0	**0.8**	1.0	0.0	0.0	**0.3**	**0.6**
20.	MPO1395	620	2.0	0.0	0.0	0.0	**0.5**	0.0	0.0	0.0	**0.0**	**0.3**
21.	WHD968	621	5.0	0.0	0.0	0.0	**1.3**	0.0	0.0	0.0	**0.0**	**0.7**
22.	HI8848	622	2.0	0.0	0.0	0.0	**0.5**	0.0	0.0	0.0	**0.0**	**0.3**
23.	AKDW5516	623	5.0	0.0	0.0	0.0	**1.3**	0.0	0.0	1.0	**0.3**	**0.9**
24.	NIDW1534	624	10.0	0.0	1.0	1.0	**3.0**	0.0	0.0	2.0	**0.7**	**2.0**
25.	HI8713 (C)	625	10.0	0.0	1.0	1.0	**3.0**	0.0	0.0	2.0	**0.7**	**2.0**
		Mean	**3.9**	**0.4**	**0.8**	**0.9**	**1.5**	**0.8**	**1.8**	**0.9**	**1.2**	**1.4**

Table 81: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT 5A

S. No.	Entry	Trial Code	NWPZ						NEPZ					Overall Mean
			Ludhiana	Hisar	Durgapura	Delhi	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	BRW3935	701	5.1	5.0	4.5	5.5	6.2	**5.3**	5.5	5.0	5.5	5.5	**5.4**	**5.3**
2	DBW427	702	5.9	6.0	4.9	6.0	6.2	**5.8**	6.0	5.0	5.5	5.0	**5.4**	**5.6**
3	NW8053	703	5.7	5.8	4.6	5.5	6.6	**5.6**	6.0	5.5	5.5	5.5	**5.6**	**5.6**
4	DBW430	704	5.9	5.7	5.7	6.0	6.0	**5.9**	6.0	5.0	5.5	5.5	**5.5**	**5.7**
5	K1317 (C)	705	5.1	7.0	4.3	6.5	6.2	**5.8**	6.0	6.0	6.0	5.5	**5.9**	**5.8**
6	PBW926	706	5.1	6.2	5.9	5.5	6.0	**5.7**	5.5	5.0	5.0	5.0	**5.1**	**5.5**
7	HD3459	707	5.0	4.9	4.5	5.5	5.8	**5.1**	5.5	5.5	5.5	5.5	**5.5**	**5.3**
8	UP3133	708	4.9	5.7	6.5	6.0	6.2	**5.9**	6.0	5.5	5.5	5.0	**5.5**	**5.7**
9	PBW644 (C)	709	6.2	6.9	6.5	5.5	6.0	**6.2**	6.0	6.0	6.0	5.5	**5.9**	**6.1**
10	HD3458	710	4.9	6.7	5.1	6.0	5.8	**5.7**	6.5	6.0	6.5	6.0	**6.3**	**5.9**
11	WH1326	711	6.5	5.5	5.4	6.5	6.8	**6.1**	6.0	6.0	6.5	6.5	**6.3**	**6.2**
12	WH1327	712	5.6	7.2	4.7	6.0	6.4	**6.0**	6.0	5.5	6.0	5.5	**5.8**	**5.9**
13	HD3468	713	5.2	5.3	5.4	5.5	5.8	**5.4**	5.5	5.0	5.5	5.0	**5.3**	**5.4**
14	K2210	714	6.4	6.1	5.4	6.0	6.4	**6.1**	6.0	5.5	5.5	6.0	**5.8**	**5.9**
15	DBW429	715	5.6	6.5	5.3	5.5	6.2	**5.8**	5.5	5.0	5.5	5.5	**5.4**	**5.6**
16	PBW925	716	5.7	6.7	5.5	6.0	6.6	**6.1**	6.5	6.0	5.5	5.5	**5.9**	**6.0**
17	JKW304	717	5.9	5.6	4.7	5.0	5.8	**5.4**	6.0	5.5	5.5	5.0	**5.5**	**5.4**
18	PBW927	718	5.7	6.6	4.9	5.5	6.4	**5.8**	5.5	5.5	5.5	5.5	**5.5**	**5.7**
19	HI1612 (C)	719	5.7	6.0	4.9	6.0	6.2	**5.8**	6.0	5.5	6.0	5.0	**5.6**	**5.7**
20	HD3460	720	5.7	6.0	6.5	6.0	5.8	**6.0**	6.0	6.0	5.5	6.0	**5.9**	**5.9**
21	PBW928	721	5.5	5.8	4.8	5.5	6.0	**5.5**	5.5	5.0	6.0	5.5	**5.5**	**5.5**
22	UP3129	722	5.5	5.8	4.9	5.5	6.2	**5.6**	6.0	5.0	5.5	5.5	**5.5**	**5.5**
23	JAUW705	723	5.7	5.3	4.9	5.0	5.8	**5.3**	5.5	5.5	5.5	4.5	**5.3**	**5.3**
24	DBW428	724	5.3	5.7	4.5	6.0	6.2	**5.5**	6.5	6.5	5.5	6.0	**6.1**	**5.8**
25	HD3457	725	4.9	6.0	4.3	6.0	6.2	**5.5**	6.5	6.0	5.5	5.5	**5.9**	**5.7**
Mean			**5.5**	**6.0**	**5.1**	**5.8**	**6.2**	**5.7**	**5.9**	**5.5**	**5.7**	**5.5**	**5.6**	**5.7**

Table 82: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 5A

S. No.	Entry	Trial Code	NWPZ						NEPZ					Overall Mean
			Ludhiana	Hisar	Durgapura	Delhi	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	BRW3935	701	75.0	76.3	64.3	73.4	78.4	**73.5**	74.3	71.9	77.7	73.9	**74.5**	**73.9**
2	DBW427	702	77.0	77.0	65.0	73.2	77.7	**74.0**	76.5	70.8	77.2	72.5	**74.3**	**74.1**
3	NW8053	703	73.8	76.3	68.0	70.2	76.7	**73.0**	75.3	72.0	76.4	72.0	**73.9**	**73.4**
4	DBW430	704	75.0	76.8	70.8	74.2	77.3	**74.8**	75.5	71.8	78.1	72.0	**74.4**	**74.6**
5	K1317 (C)	705	76.0	79.5	61.8	76.4	79.7	**74.7**	77.4	73.6	79.3	74.6	**76.2**	**75.4**
6	PBW926	706	74.8	78.5	71.3	72.6	78.4	**75.1**	76.2	72.4	76.7	72.6	**74.5**	**74.8**
7	HD3459	707	73.8	76.0	64.3	74.1	77.3	**73.1**	75.8	71.0	74.2	70.4	**72.9**	**73.0**
8	UP3133	708	76.3	76.3	70.5	72.7	75.4	**74.2**	74.8	70.3	75.6	72.0	**73.2**	**73.8**
9	PBW644 (C)	709	78.3	78.0	71.0	74.9	77.5	**75.9**	76.1	71.7	78.3	72.3	**74.6**	**75.3**
10	HD3458	710	75.0	77.0	68.8	76.2	79.0	**75.2**	77.2	72.7	79.8	75.2	**76.2**	**75.7**
11	WH1326	711	77.8	76.5	69.0	74.0	78.3	**75.1**	74.8	71.1	76.3	71.0	**73.3**	**74.3**
12	WH1327	712	75.5	79.8	62.8	76.6	78.9	**74.7**	76.6	73.1	79.2	73.5	**75.6**	**75.1**
13	HD3468	713	74.5	77.3	67.5	73.7	77.2	**74.0**	75.8	71.1	77.9	70.7	**73.9**	**74.0**
14	K2210	714	77.0	78.3	70.5	76.4	79.3	**76.3**	77.0	73.3	77.8	74.1	**75.6**	**76.0**
15	DBW429	715	76.5	76.8	70.5	72.5	77.6	**74.8**	75.2	71.1	77.0	72.6	**74.0**	**74.4**
16	PBW925	716	76.5	76.5	68.0	74.7	78.1	**74.8**	75.3	71.6	76.2	71.6	**73.7**	**74.3**
17	JKW304	717	76.0	75.5	65.8	73.0	75.6	**73.2**	73.2	69.5	76.3	71.4	**72.6**	**72.9**
18	PBW927	718	75.8	77.8	66.8	75.7	78.2	**74.9**	76.4	73.3	78.4	74.1	**75.6**	**75.2**
19	HI1612 (C)	719	75.8	77.8	69.0	74.1	78.8	**75.1**	76.1	71.5	78.0	72.3	**74.5**	**74.8**
20	HD3460	720	73.5	78.5	70.0	74.2	78.0	**74.8**	77.2	73.3	80.1	76.1	**76.7**	**75.7**
21	PBW928	721	74.3	76.8	68.3	71.0	74.9	**73.1**	74.3	69.8	76.8	72.5	**73.4**	**73.2**
22	UP3129	722	74.5	76.5	67.8	72.8	75.8	**73.5**	73.3	69.1	77.1	72.0	**72.9**	**73.2**
23	JAUW705	723	74.8	74.5	67.5	68.2	73.2	**71.6**	71.5	68.0	76.1	68.0	**70.9**	**71.3**
24	DBW428	724	75.5	77.3	63.8	74.9	77.4	**73.8**	75.0	72.0	75.8	78.2	**75.3**	**74.4**
25	HD3457	725	75.5	77.0	65.8	74.7	77.9	**74.2**	75.6	72.2	77.1	72.9	**74.5**	**74.3**
Mean			**75.5**	**77.1**	**67.6**	**73.8**	**77.5**	**74.3**	**75.5**	**71.5**	**77.3**	**72.7**	**74.3**	**74.3**

Table 83: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT 5A

S. No.	Entry	Trial Code	NWPZ						NEPZ					Overall Mean
			Ludhiana	Hisar	Durgapura	Delhi	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	BRW3935	701	11.9	10.1	15.9	11.4	11.3	**12.1**	12.3	12.0	10.8	10.9	**11.5**	**11.8**
2	DBW427	702	12.6	8.6	14.3	12.0	9.8	**11.4**	11.5	11.5	9.1	11.0	**10.8**	**11.1**
3	NW8053	703	11.2	9.3	13.3	12.5	10.8	**11.4**	12.7	11.2	10.5	11.5	**11.5**	**11.5**
4	DBW430	704	12.2	9.1	11.2	11.7	10.7	**11.0**	11.5	11.4	10.2	11.0	**11.0**	**11.0**
5	K1317 (C)	705	11.9	10.1	16.1	12.8	10.3	**12.2**	13.5	12.6	11.1	11.8	**12.3**	**12.2**
6	PBW926	706	10.7	9.8	13.8	13.3	9.9	**11.5**	12.1	11.6	11.4	12.1	**11.8**	**11.6**
7	HD3459	707	10.7	10.3	14.4	10.5	10.2	**11.2**	11.8	11.3	11.0	11.2	**11.3**	**11.3**
8	UP3133	708	10.6	9.5	13.9	11.3	9.8	**11.0**	12.4	12.2	10.8	11.1	**11.6**	**11.3**
9	PBW644 (C)	709	12.1	8.9	10.5	10.6	10.4	**10.5**	11.4	11.1	10.0	11.1	**10.9**	**10.7**
10	HD3458	710	12.4	8.9	14.6	11.5	10.4	**11.6**	11.9	11.7	10.7	11.1	**11.4**	**11.5**
11	WH1326	711	11.5	10.4	14.2	10.9	10.4	**11.5**	11.4	11.7	9.8	11.7	**11.2**	**11.3**
12	WH1327	712	11.6	11.0	15.8	10.7	9.8	**11.8**	12.1	11.5	9.9	11.6	**11.3**	**11.6**
13	HD3468	713	12.5	8.1	13.4	11.8	10.2	**11.2**	11.0	11.0	9.7	11.4	**10.8**	**11.0**
14	K2210	714	11.0	10.3	13.7	11.7	11.2	**11.6**	11.7	11.9	11.0	10.8	**11.4**	**11.5**
15	DBW429	715	12.2	9.6	12.3	12.1	10.1	**11.3**	11.7	12.1	10.6	11.7	**11.5**	**11.4**
16	PBW925	716	11.6	10.8	13.0	11.6	11.0	**11.6**	12.6	11.5	11.3	11.8	**11.8**	**11.7**
17	JKW304	717	11.1	10.0	16.1	11.1	10.0	**11.7**	13.0	11.9	10.4	11.3	**11.7**	**11.7**
18	PBW927	718	12.2	10.2	13.3	12.0	10.2	**11.6**	12.4	12.1	10.5	11.3	**11.6**	**11.6**
19	HI1612 (C)	719	11.4	8.6	14.5	12.0	9.8	**11.3**	12.9	12.4	11.2	11.5	**12.0**	**11.6**
20	HD3460	720	11.1	8.9	11.8	12.1	10.7	**10.9**	12.6	12.1	9.9	11.0	**11.4**	**11.1**
21	PBW928	721	11.1	9.2	13.9	11.9	11.3	**11.5**	12.2	12.3	10.6	11.3	**11.6**	**11.5**
22	UP3129	722	12.8	11.1	12.9	11.9	11.0	**11.9**	13.7	13.1	11.1	13.3	**12.8**	**12.3**
23	JAUW705	723	10.8	8.5	11.7	13.0	9.8	**10.8**	11.7	11.6	9.0	11.2	**10.9**	**10.8**
24	DBW428	724	11.2	9.6	15.1	11.6	11.3	**11.7**	11.9	11.2	11.1	11.2	**11.4**	**11.6**
25	HD3457	725	10.7	9.9	14.5	11.9	11.4	**11.7**	12.8	12.4	11.4	12.0	**12.2**	**11.9**
Mean			**11.6**	**9.6**	**13.8**	**11.8**	**10.5**	**11.4**	**12.2**	**11.8**	**10.5**	**11.4**	**11.5**	**11.5**

Table 84: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 5A

S. No.	Entry	Trial Code	NWPZ						NEPZ					Overall Mean
			Ludhiana	Hisar	Durgapura	Delhi	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	BRW3935	701	53.0	48.0	46.0	62.0	68.0	**55.4**	56.0	60.0	58.0	62.0	**59.0**	**57.0**
2	DBW427	702	49.0	41.0	56.0	54.0	53.0	**50.6**	46.0	60.0	48.0	61.0	**53.8**	**52.0**
3	NW8053	703	45.0	47.0	55.0	52.0	60.0	**51.8**	62.0	62.0	55.0	62.0	**60.3**	**55.6**
4	DBW430	704	55.0	42.0	53.0	63.0	53.0	**53.2**	46.0	65.0	60.0	55.0	**56.5**	**54.7**
5	K1317 (C)	705	57.0	41.0	60.0	54.0	48.0	**52.0**	41.0	47.0	47.0	45.0	**45.0**	**48.9**
6	PBW926	706	54.0	42.0	55.0	70.0	53.0	**54.8**	58.0	65.0	56.0	58.0	**59.3**	**56.8**
7	HD3459	707	45.0	47.0	60.0	66.0	58.0	**55.2**	61.0	61.0	59.0	58.0	**59.8**	**57.2**
8	UP3133	708	47.0	48.0	49.0	65.0	55.0	**52.8**	62.0	64.0	55.0	60.0	**60.3**	**56.1**
9	PBW644 (C)	709	47.0	44.0	53.0	57.0	53.0	**50.8**	45.0	56.0	47.0	50.0	**49.5**	**50.2**
10	HD3458	710	45.0	46.0	52.0	62.0	68.0	**54.6**	55.0	60.0	53.0	60.0	**57.0**	**55.7**
11	WH1326	711	43.0	55.0	55.0	66.0	55.0	**54.8**	58.0	65.0	57.0	63.0	**60.8**	**57.4**
12	WH1327	712	49.0	50.0	58.0	59.0	63.0	**55.8**	59.0	65.0	63.0	65.0	**63.0**	**59.0**
13	HD3468	713	49.0	37.0	44.0	58.0	61.0	**49.8**	52.0	57.0	53.0	60.0	**55.5**	**52.3**
14	K2210	714	47.0	48.0	49.0	50.0	67.0	**52.2**	56.0	59.0	67.0	64.0	**61.5**	**56.3**
15	DBW429	715	49.0	41.0	54.0	56.0	55.0	**51.0**	52.0	54.0	58.0	63.0	**56.8**	**53.6**
16	PBW925	716	52.0	39.0	52.0	44.0	49.0	**47.2**	41.0	47.0	48.0	48.0	**46.0**	**46.7**
17	JKW304	717	48.0	45.0	49.0	43.0	50.0	**47.0**	52.0	55.0	52.0	52.0	**52.8**	**49.6**
18	PBW927	718	49.0	44.0	49.0	48.0	51.0	**48.2**	49.0	50.0	54.0	55.0	**52.0**	**49.9**
19	HI1612 (C)	719	46.0	47.0	48.0	66.0	62.0	**53.8**	60.0	64.0	59.0	75.0	**64.5**	**58.6**
20	HD3460	720	49.0	40.0	50.0	59.0	52.0	**50.0**	50.0	53.0	54.0	53.0	**52.5**	**51.1**
21	PBW928	721	52.0	46.0	56.0	59.0	55.0	**53.6**	55.0	60.0	64.0	60.0	**59.8**	**56.3**
22	UP3129	722	49.0	45.0	64.0	51.0	50.0	**51.8**	60.0	52.0	55.0	57.0	**56.0**	**53.7**
23	JAUW705	723	45.0	44.0	57.0	64.0	51.0	**52.2**	57.0	62.0	53.0	59.0	**57.8**	**54.7**
24	DBW428	724	43.0	46.0	61.0	60.0	58.0	**53.6**	53.0	60.0	55.0	60.0	**57.0**	**55.1**
25	HD3457	725	41.0	45.0	60.0	58.0	62.0	**53.2**	57.0	57.0	56.0	56.0	**56.5**	**54.7**
Mean			**48.3**	**44.7**	**53.8**	**57.8**	**56.4**	**52.2**	**53.7**	**58.4**	**55.4**	**58.4**	**56.5**	**54.1**

Table 85: Phenol test (Max score 10) of *T. aestivum* genotypes in NIVT 5A

S. No.	Entry	Trial Code	NWPZ						NEPZ					Overall Mean
			Ludhiana	Hisar	Durgapura	Delhi	Karnal	Mean	Kanpur	Varanasi	Samastipur	Sabour	Mean	
1	BRW3935	701	4.1	5.4	6.1	6.0	8.0	**5.9**	6.0	7.0	6.0	7.0	**6.5**	**6.2**
2	DBW427	702	4.6	5.6	6.1	7.0	7.5	**6.2**	6.0	7.0	7.0	7.0	**6.8**	**6.4**
3	NW8053	703	4.7	3.9	5.3	7.0	6.0	**5.4**	7.0	7.0	7.0	7.0	**7.0**	**6.1**
4	DBW430	704	5.1	5.7	5.5	8.0	9.0	**6.7**	7.0	7.0	7.0	8.0	**7.3**	**6.9**
5	K1317 (C)	705	4.2	1.7	5.4	4.0	3.0	**3.7**	4.0	5.0	4.0	5.0	**4.5**	**4.0**
6	PBW926	706	4.5	4.7	6.5	7.0	6.0	**5.7**	6.0	6.0	6.0	7.0	**6.3**	**6.0**
7	HD3459	707	3.9	5.0	3.2	7.0	8.0	**5.4**	7.0	8.0	7.0	8.0	**7.5**	**6.3**
8	UP3133	708	4.2	5.0	2.0	8.0	7.5	**5.3**	7.0	8.0	8.0	8.0	**7.8**	**6.4**
9	PBW644 (C)	709	3.1	3.3	5.4	7.0	7.0	**5.2**	7.0	8.0	8.0	8.0	**7.8**	**6.3**
10	HD3458	710	4.2	4.1	4.9	5.0	3.0	**4.2**	5.0	5.0	6.0	5.0	**5.3**	**4.7**
11	WH1326	711	4.7	6.1	3.3	7.0	8.0	**5.8**	7.0	8.0	7.0	8.0	**7.5**	**6.6**
12	WH1327	712	4.1	5.0	5.1	6.0	7.5	**5.5**	7.0	7.0	7.0	7.0	**7.0**	**6.2**
13	HD3468	713	4.1	5.3	5.2	7.0	9.0	**6.1**	8.0	7.0	8.0	7.0	**7.5**	**6.7**
14	K2210	714	3.8	3.7	5.7	5.0	5.5	**4.7**	6.0	5.0	6.0	6.0	**5.8**	**5.2**
15	DBW429	715	3.1	4.5	5.0	7.0	6.5	**5.2**	8.0	7.0	8.0	8.0	**7.8**	**6.3**
16	PBW925	716	1.8	5.2	6.2	7.0	6.0	**5.2**	8.0	7.0	8.0	8.0	**7.8**	**6.4**
17	JKW304	717	3.9	4.9	6.0	7.0	6.5	**5.7**	8.0	7.0	8.0	8.0	**7.8**	**6.6**
18	PBW927	718	4.1	5.0	5.3	7.0	6.0	**5.5**	8.0	7.0	8.0	8.0	**7.8**	**6.5**
19	HI1612 (C)	719	4.1	5.1	1.8	7.0	6.5	**4.9**	8.0	8.0	8.0	7.0	**7.8**	**6.2**
20	HD3460	720	3.4	4.8	5.7	6.0	6.0	**5.2**	7.0	7.0	7.0	7.0	**7.0**	**6.0**
21	PBW928	721	4.1	6.1	5.8	7.0	9.0	**6.4**	7.0	7.0	7.0	8.0	**7.3**	**6.8**
22	UP3129	722	4.6	5.3	6.3	7.0	8.0	**6.2**	7.0	7.0	7.0	7.0	**7.0**	**6.6**
23	JAUW705	723	5.1	5.4	6.2	7.0	8.5	**6.4**	7.0	7.0	8.0	8.0	**7.5**	**6.9**
24	DBW428	724	3.0	5.1	5.7	7.0	8.0	**5.8**	7.0	7.0	7.0	6.0	**6.8**	**6.2**
25	HD3457	725	4.0	5.0	5.1	7.0	7.5	**5.7**	7.0	7.0	8.0	7.0	**7.3**	**6.4**
Mean			**4.0**	**4.8**	**5.2**	**6.7**	**6.9**	**5.5**	**6.9**	**6.9**	**7.1**	**7.2**	**7.0**	**6.2**

Table 86: Grain appearance score (out of 10) of *T. durum* genotypes in NIVT-5B

S. No.	Entries	Code	CZ					PZ				Overall Mean
			Vijapur	Indore	P'kheda	Junagarh	Mean	Dharwad	Pune	Niphad	Mean	
1.	PBN16-1826	801	6.8	6.5	5.5	6.8	**6.4**	6.8	5.8	6.5	**6.3**	**6.4**
2.	NIAW4387	802	7.5	7.0	7.0	7.0	**7.1**	7.0	7.0	7.0	**7.0**	**7.1**
3.	DBW428	803	7.3	6.8	7.0	7.3	**7.1**	5.5	7.0	7.0	**6.5**	**6.8**
4.	UAS3029	804	7.0	6.8	7.0	7.2	**7.0**	6.5	6.3	6.5	**6.4**	**6.8**
5.	DBW110 (C)	805	7.0	6.0	6.0	6.8	**6.4**	7.0	6.0	6.8	**6.6**	**6.5**
6.	UAS484(d)	806	8.0	7.0	7.0	7.3	**7.3**	7.5	7.0	7.0	**7.2**	**7.3**
7.	GW1368(d)	807	6.0	5.0	6.0	7.0	**6.0**	7.0	5.8	7.3	**6.7**	**6.3**
8.	HI8852(d)	808	8.0	6.2	6.8	8.0	**7.2**	7.5	7.3	7.3	**7.3**	**7.3**
9.	MACS4131(d)	809	8.0	6.0	7.5	7.3	**7.2**	7.5	7.3	5.5	**6.8**	**7.0**
10.	HI1688	810	8.0	6.8	7.5	7.3	**7.4**	6.5	7.5	7.8	**7.3**	**7.3**
11.	DBW432	811	6.8	5.5	6.0	7.5	**6.4**	6.5	6.8	6.5	**6.6**	**6.5**
12.	MPO1398(d)	812	7.0	6.8	6.5	6.8	**6.8**	7.5	6.5	6.8	**6.9**	**6.8**
13.	NIAW4267	813	6.8	5.8	7.0	7.3	**6.7**	7.0	6.5	6.3	**6.6**	**6.6**
14.	HI1689	814	7.0	6.5	7.0	7.5	**7.0**	7.5	6.8	6.8	**7.0**	**7.0**
15.	AKAW5514	815	6.8	6.8	6.8	6.8	**6.8**	6.8	6.8	6.5	**6.7**	**6.7**
16.	HI1693	816	6.8	6.7	7.0	6.8	**6.8**	7.0	7.0	7.5	**7.2**	**7.0**
17.	GW552	817	6.5	6.5	6.8	7.0	**6.7**	7.0	7.0	6.5	**6.8**	**6.8**
18.	DBW431	818	6.8	5.5	6.5	6.5	**6.3**	6.5	5.5	6.0	**6.0**	**6.2**
19.	HI8627(d) (C)	819	7.5	7.0	7.5	7.0	**7.3**	7.5	7.5	7.0	**7.3**	**7.3**
20.	HI1605 (C)	820	7.0	6.5	6.8	7.0	**6.8**	6.2	6.8	6.5	**6.5**	**6.7**
21.	UAS446(d) (C)	821	8.0	6.8	7.8	7.8	**7.6**	7.5	7.0	7.0	**7.2**	**7.4**
22.	MP3577	822	7.5	6.8	7.0	7.5	**7.2**	7.5	6.8	6.8	**7.0**	**7.1**
23.	DDW64(d)	823	7.5	7.3	7.8	7.0	**7.4**	7.5	7.3	7.5	**7.4**	**7.4**
24.	HI8851(d)	824	8.5	6.8	7.5	8.5	**7.8**	8.0	7.5	7.5	**7.7**	**7.8**
25.	CG1047	825	7.0	6.8	7.0	7.8	**7.1**	7.0	6.8	7.0	**6.9**	**7.1**
		Mean	**7.2**	**6.5**	**6.9**	**7.2**	**7.0**	**7.0**	**6.8**	**6.8**	**6.9**	**6.9**

Table 87: Hectoliter weight (kg/hl.) of *T. durum* genotypes in NIVT-5B

S. No.	Entries	Code	CZ					PZ				Overall Mean
			Vijapur	Indore	P'kheda	Junagarh	Mean	Dharwad	Pune	Niphad	Mean	
1.	PBN16-1826	601	81.0	81.0	82.0	84.0	**82.0**	78.0	80.0	79.0	**79.0**	**80.7**
2.	NIAW4387	602	82.0	82.0	81.0	84.0	**82.3**	76.0	81.0	82.0	**79.7**	**81.1**
3.	DBW428	603	80.0	83.0	82.0	85.0	**82.5**	74.0	79.0	80.0	**77.7**	**80.4**
4.	UAS3029	604	79.0	82.0	82.0	84.0	**81.8**	79.0	81.0	78.0	**79.3**	**80.7**
5.	DBW110 (C)	605	78.0	81.0	80.0	83.0	**80.5**	76.0	77.0	80.0	**77.7**	**79.3**
6.	UAS484(d)	606	77.0	84.0	79.0	82.0	**80.5**	76.0	82.0	78.0	**78.7**	**79.7**
7.	GW1368(d)	607	74.0	79.0	75.0	80.0	**77.0**	71.0	74.0	76.0	**73.7**	**75.6**
8.	HI8852(d)	608	82.0	85.0	84.0	85.0	**84.0**	80.0	87.0	84.0	**83.7**	**83.9**
9.	MACS4131(d)	609	84.0	83.0	87.0	87.0	**85.3**	80.0	87.0	84.0	**83.7**	**84.6**
10.	HI1688	610	83.0	85.0	86.0	86.0	**85.0**	81.0	83.0	82.0	**82.0**	**83.7**
11.	DBW432	611	78.0	82.0	81.0	84.0	**81.3**	76.0	82.0	78.0	**78.7**	**80.1**
12.	MPO1398(d)	612	81.0	84.0	83.0	84.0	**83.0**	80.0	81.0	84.0	**81.7**	**82.4**
13.	NIAW4267	613	81.0	81.0	81.0	84.0	**81.8**	76.0	83.0	80.0	**79.7**	**80.9**
14.	HI1689	614	86.0	84.0	84.0	85.0	**84.8**	81.0	86.0	83.0	**83.3**	**84.1**
15.	AKAW5514	615	79.0	81.0	81.0	82.0	**80.8**	75.0	81.0	80.0	**78.7**	**79.9**
16.	HI1693	616	78.0	85.0	84.0	82.0	**82.3**	79.0	83.0	82.0	**81.3**	**81.9**
17.	GW552	617	81.0	82.0	83.0	84.0	**82.5**	78.0	84.0	83.0	**81.7**	**82.1**
18.	DBW431	618	79.0	78.0	84.0	84.0	**81.3**	87.0	77.0	83.0	**82.3**	**81.7**
19.	HI8627(d) (C)	619	80.0	83.0	85.0	80.0	**82.0**	82.0	85.0	85.0	**84.0**	**82.9**
20.	HI1605 (C)	620	81.0	84.0	86.0	86.0	**84.3**	74.0	87.0	82.0	**81.0**	**82.9**
21.	UAS446(d) (C)	621	82.0	83.0	85.0	85.0	**83.8**	83.0	80.0	83.0	**82.0**	**83.0**
22.	MP3577	622	84.0	83.0	84.0	85.0	**84.0**	83.0	84.0	80.0	**82.3**	**83.3**
23.	DDW64(d)	623	85.0	85.0	86.0	85.0	**85.3**	84.0	87.0	84.0	**85.0**	**85.1**
24.	HI8851(d)	624	86.0	84.0	86.0	87.0	**85.8**	82.0	86.0	86.0	**84.7**	**85.3**
25.	CG1047	625	83.0	87.0	84.0	86.0	**85.0**	80.0	86.0	81.0	**82.3**	**83.9**
		Mean	**81.0**	**82.8**	**83.0**	**84.1**	**82.7**	**78.8**	**82.5**	**81.5**	**80.9**	**82.0**

Table 88: Protein content (%) at 12% moisture basis of *T. durum* genotypes in NIVT-5B

S. No.	Entries	Code	CZ					PZ				Overall Mean
			Vijapur	Indore	P'kheda	Junagarh	Mean	Dharwad	Pune	Niphad	Mean	
1.	PBN16-1826	601	11.7	9.8	10.6	13.4	**11.4**	13.8	10.8	11.5	**12.0**	**11.7**
2.	NIAW4387	602	11.7	10.8	8.9	13.6	**11.3**	15.1	12.9	10.7	**12.9**	**12.0**
3.	DBW428	603	11.7	9.6	8.7	14.2	**11.1**	16.6	11.4	10.8	**12.9**	**11.9**
4.	UAS3029	604	12.0	10.5	9.2	12.9	**11.2**	15.7	11.0	10.5	**12.4**	**11.7**
5.	DBW110 (C)	605	12.0	9.5	9.1	13.3	**11.0**	17.2	12.5	12.0	**13.9**	**12.2**
6.	UAS484(d)	606	11.9	10.2	10.1	12.8	**11.2**	15.9	11.4	12.1	**13.1**	**12.0**
7.	GW1368(d)	607	13.7	9.9	12.0	14.5	**12.5**	16.1	13.2	12.6	**14.0**	**13.1**
8.	HI8852(d)	608	12.5	9.5	9.9	11.8	**10.9**	16.0	10.7	12.5	**13.0**	**11.8**
9.	MACS4131(d)	609	12.7	9.9	10.0	12.4	**11.3**	17.1	11.6	12.3	**13.7**	**12.3**
10.	HI1688	610	13.1	9.4	8.7	14.0	**11.3**	14.2	11.9	12.8	**13.0**	**12.0**
11.	DBW432	611	12.3	8.8	10.3	13.3	**11.2**	16.3	11.0	11.0	**12.8**	**11.8**
12.	MPO1398(d)	612	12.5	10.0	9.9	13.9	**11.6**	15.2	13.3	12.2	**13.5**	**12.4**
13.	NIAW4267	613	11.8	10.9	8.4	13.7	**11.2**	16.3	11.2	11.3	**12.9**	**11.9**
14.	HI1689	614	11.2	9.2	9.1	13.9	**10.9**	14.7	11.9	11.8	**12.8**	**11.7**
15.	AKAW5514	615	12.4	9.6	10.1	12.9	**11.2**	18.5	10.5	11.2	**13.4**	**12.2**
16.	HI1693	616	11.5	9.9	9.3	11.7	**10.6**	15.6	11.5	11.0	**12.7**	**11.5**
17.	GW552	617	12.4	9.5	8.9	13.2	**11.0**	15.0	10.7	11.4	**12.4**	**11.6**
18.	DBW431	618	12.5	10.7	8.0	12.6	**11.0**	15.9	13.2	11.9	**13.7**	**12.1**
19.	HI8627(d) (C)	619	13.3	10.7	8.6	14.6	**11.8**	16.8	11.3	12.1	**13.4**	**12.5**
20.	HI1605 (C)	620	12.9	9.9	10.9	13.4	**11.8**	17.9	11.4	11.9	**13.7**	**12.6**
21.	UAS446(d) (C)	621	13.4	9.3	9.0	13.3	**11.2**	15.1	12.7	12.2	**13.3**	**12.1**
22.	MP3577	622	13.0	10.7	11.2	16.4	**12.8**	16.7	13.4	13.7	**14.6**	**13.6**
23.	DDW64(d)	623	12.8	9.9	9.5	14.0	**11.6**	15.6	12.3	12.1	**13.3**	**12.3**
24.	HI8851(d)	624	13.4	9.6	9.1	13.8	**11.5**	17.3	10.7	12.2	**13.4**	**12.3**
25.	CG1047	625	11.7	8.8	8.7	13.6	**10.7**	14.6	11.3	10.9	**12.3**	**11.4**
		Mean	**12.4**	**9.9**	**9.5**	**13.5**	**11.3**	**16.0**	**11.7**	**11.8**	**13.2**	**12.1**

Table 89: Sedimentation value (ml) of *T. durum* genotypes in NIVT-5B

S. No.	Entries	Code	CZ					PZ				Overall Mean
			Vijapur	Indore	P'kheda	Junagarh	Mean	Dharwad	Pune	Niphad	Mean	
1.	PBN16-1826	601	50.0	53.5	54.0	54.0	**52.9**	61.5	53.5	49.5	**54.8**	**53.7**
2.	NIAW4387	602	38.0	39.0	41.0	49.5	**41.9**	45.5	46.5	38.0	**43.3**	**42.5**
3.	DBW428	603	54.5	53.5	50.0	43.0	**50.3**	61.0	58.5	60.5	**60.0**	**54.4**
4.	UAS3029	604	42.5	45.0	43.0	48.5	**44.8**	52.5	47.5	50.0	**50.0**	**47.0**
5.	DBW110 (C)	605	44.5	43.0	44.5	52.0	**46.0**	59.5	49.0	51.0	**53.2**	**49.1**
6.	UAS484(d)	606	37.0	38.0	35.5	39.5	**37.5**	34.0	38.5	42.0	**38.2**	**37.8**
7.	GW1368(d)	607	23.0	22.0	21.0	23.5	**22.4**	24.5	23.5	21.0	**23.0**	**22.6**
8.	HI8852(d)	608	28.5	29.0	28.0	22.0	**26.9**	31.5	29.5	30.0	**30.3**	**28.4**
9.	MACS4131(d)	609	28.0	24.5	25.5	21.5	**24.9**	28.5	24.5	25.0	**26.0**	**25.4**
10.	HI1688	610	47.0	42.5	44.5	41.5	**43.9**	60.5	51.0	54.0	**55.2**	**48.7**
11.	DBW432	611	51.0	41.5	47.5	38.5	**44.6**	60.0	47.5	56.5	**54.7**	**48.9**
12.	MPO1398(d)	612	35.0	32.5	33.5	32.0	**33.3**	24.5	32.0	34.0	**30.2**	**31.9**
13.	NIAW4267	613	27.0	37.0	33.0	32.0	**32.3**	28.0	32.0	30.0	**30.0**	**31.3**
14.	HI1689	614	45.0	38.5	42.0	39.0	**41.1**	50.0	41.0	45.5	**45.5**	**43.0**
15.	AKAW5514	615	39.5	47.0	47.5	46.5	**45.1**	49.0	47.5	53.5	**50.0**	**47.2**
16.	HI1693	616	41.0	43.0	44.5	46.5	**43.8**	47.0	45.0	48.0	**46.7**	**45.0**
17.	GW552	617	31.5	30.5	29.5	39.5	**32.8**	39.0	34.0	31.0	**34.7**	**33.6**
18.	DBW431	618	37.0	38.5	37.5	43.5	**39.1**	42.0	38.0	43.0	**41.0**	**39.9**
19.	HI8627(d) (C)	619	24.0	25.0	23.0	28.0	**25.0**	22.0	23.0	22.5	**22.5**	**23.9**
20.	HI1605 (C)	620	46.0	51.5	54.5	56.5	**52.1**	61.0	52.5	56.0	**56.5**	**54.0**
21.	UAS446(d) (C)	621	36.0	34.5	35.5	42.0	**37.0**	37.5	38.0	42.0	**39.2**	**37.9**
22.	MP3577	622	58.5	57.0	60.5	58.0	**58.5**	65.5	64.0	63.0	**64.2**	**60.9**
23.	DDW64(d)	623	35.0	31.5	34.0	37.5	**34.5**	31.0	32.5	33.0	**32.2**	**33.5**
24.	HI8851(d)	624	22.5	26.0	21.5	29.5	**24.9**	26.5	30.5	29.5	**28.8**	**26.6**
25.	CG1047	625	40.0	40.0	34.0	49.0	**40.8**	54.0	41.0	42.0	**45.7**	**42.9**
		Mean	**38.5**	**38.6**	**38.6**	**40.5**	**39.0**	**43.8**	**40.8**	**42.0**	**42.2**	**40.4**

Table 90: Yellow pigment content (ppm) of *T. durum* genotypes in NIVT-5B

S. No.	Entries	Code	CZ					PZ				Overall Mean
			Vijapur	Indore	P'kheda	Junagarh	Mean	Dharwad	Pune	Niphad	Mean	
1.	PBN16-1826	601	5.7	4.5	4.1	3.6	**4.5**	3.4	5.2	4.7	**4.5**	**4.5**
2.	NIAW4387	602	5.1	5.2	5.1	4.0	**4.9**	4.2	5.2	5.0	**4.8**	**4.8**
3.	DBW428	603	4.2	4.5	3.9	3.9	**4.1**	4.0	4.6	4.1	**4.3**	**4.2**
4.	UAS3029	604	2.7	4.1	3.3	3.4	**3.4**	4.6	4.5	3.6	**4.2**	**3.8**
5.	DBW110 (C)	605	4.3	4.8	3.4	3.5	**4.0**	3.6	4.2	3.4	**3.8**	**3.9**
6.	UAS484(d)	606	7.3	8.2	7.9	8.8	**8.1**	8.9	9.1	8.8	**8.9**	**8.4**
7.	GW1368(d)	607	5.6	5.3	5.6	5.1	**5.4**	6.4	6.3	5.7	**6.1**	**5.7**
8.	HI8852(d)	608	6.8	7.1	6.9	6.7	**6.9**	7.7	7.8	7.4	**7.6**	**7.2**
9.	MACS4131(d)	609	6.6	7.4	6.6	7.1	**6.9**	7.9	7.1	7.0	**7.3**	**7.1**
10.	HI1688	610	4.2	4.3	3.4	2.9	**3.7**	3.6	4.2	4.2	**4.0**	**3.8**
11.	DBW432	611	3.1	5.0	4.7	4.0	**4.2**	5.1	5.3	5.7	**5.4**	**4.7**
12.	MPO1398(d)	612	7.1	8.3	7.3	8.3	**7.7**	8.6	8.6	8.3	**8.5**	**8.1**
13.	NIAW4267	613	8.9	4.1	4.6	4.1	**5.5**	4.9	5.7	5.2	**5.3**	**5.4**
14.	HI1689	614	4.0	4.3	3.3	2.9	**3.6**	3.2	4.5	4.5	**4.1**	**3.8**
15.	AKAW5514	615	4.3	4.9	4.7	4.7	**4.7**	5.1	5.3	5.0	**5.1**	**4.9**
16.	HI1693	616	3.0	5.1	4.1	3.9	**4.0**	4.4	5.4	5.1	**4.9**	**4.4**
17.	GW552	617	4.2	5.8	5.4	6.7	**5.5**	6.7	5.7	5.5	**6.0**	**5.7**
18.	DBW431	618	3.4	4.0	5.6	3.1	**4.0**	5.8	6.9	6.2	**6.3**	**5.0**
19.	HI8627(d) (C)	619	6.6	8.1	7.9	9.2	**8.0**	7.6	9.4	7.7	**8.2**	**8.1**
20.	HI1605 (C)	620	4.2	4.3	3.4	2.7	**3.6**	3.8	4.2	4.3	**4.1**	**3.8**
21.	UAS446(d) (C)	621	7.3	8.2	5.0	7.7	**7.1**	7.3	8.2	5.1	**6.9**	**7.0**
22.	MP3577	622	4.6	4.0	3.1	5.4	**4.3**	3.8	4.6	4.7	**4.4**	**4.3**
23.	DDW64(d)	623	6.5	7.5	7.0	8.2	**7.3**	9.7	8.1	8.2	**8.7**	**7.9**
24.	HI8851(d)	624	6.3	7.0	7.7	7.2	**7.0**	7.2	7.7	7.1	**7.3**	**7.2**
25.	CG1047	625	2.1	3.8	3.9	3.2	**3.3**	3.4	4.6	4.0	**4.0**	**3.6**
		Mean	**5.1**	**5.6**	**5.1**	**5.2**	**5.3**	**5.6**	**6.1**	**5.6**	**5.8**	**5.5**

Table 91: Yellow berry content (%) of *T. durum* genotypes in NIVT-5B

S. No.	Entries	Code	CZ					PZ				Overall Mean
			Vijapur	Indore	P'kheda	Junagarh	Mean	Dharwad	Pune	Niphad	Mean	
1.	PBN16-1826	601	0.0	17.0	6.0	0.0	**5.8**	0	12.0	2.0	**4.7**	**5.3**
2.	NIAW4387	602	3.0	9.0	5.0	0.0	**4.3**	0	0.0	2.0	**0.7**	**2.7**
3.	DBW428	603	0.0	32.0	6.0	1.0	**9.8**	0	3.0	8.0	**3.7**	**7.1**
4.	UAS3029	604	0.0	24.0	3.0	0.0	**6.8**	0	13.0	12.0	**8.3**	**7.4**
5.	DBW110 (C)	605	0.0	38.0	9.0	1.0	**12.0**	0	1.0	5.0	**2.0**	**7.7**
6.	UAS484(d)	606	0.0	19.0	11.0	5.0	**8.8**	0	11.0	8.0	**6.3**	**7.7**
7.	GW1368(d)	607	0.0	56.0	5.0	6.0	**16.8**	0	12.0	6.0	**6.0**	**12.1**
8.	HI8852(d)	608	0.0	20.0	23.0	3.0	**11.5**	0	21.0	4.0	**8.3**	**10.1**
9.	MACS4131(d)	609	0.0	43.0	5.0	5.0	**13.3**	0	7.0	3.0	**3.3**	**9.0**
10.	HI1688	610	0.0	16.0	2.0	0.0	**4.5**	0	4.0	0.0	**1.3**	**3.1**
11.	DBW432	611	0.0	58.0	19.0	0.0	**19.3**	0	8.0	4.0	**4.0**	**12.7**
12.	MPO1398(d)	612	0.0	27.0	28.0	2.0	**14.3**	0	5.0	5.0	**3.3**	**9.6**
13.	NIAW4267	613	2.0	5.0	3.0	0.0	**2.5**	0	5.0	8.0	**4.3**	**3.3**
14.	HI1689	614	1.0	39.0	10.0	0.0	**12.5**	0	3.0	7.0	**3.3**	**8.6**
15.	AKAW5514	615	1.0	15.0	15.0	3.0	**8.5**	0	11.0	11.0	**7.3**	**8.0**
16.	HI1693	616	0.0	4.0	0.0	0.0	**1.0**	0	0.0	0.0	**0.0**	**0.6**
17.	GW552	617	3.0	54.0	16.0	2.0	**18.8**	0	15.0	13.0	**9.3**	**14.7**
18.	DBW431	618	0.0	18.0	9.0	0.0	**6.8**	0	0.0	1.0	**0.3**	**4.0**
19.	HI8627(d) (C)	619	2.0	22.0	3.0	0.0	**6.8**	0	5.0	7.0	**4.0**	**5.6**
20.	HI1605 (C)	620	0.0	13.0	0.0	0.0	**3.3**	0	22.0	5.0	**9.0**	**5.7**
21.	UAS446(d) (C)	621	0.0	28.0	6.0	0.0	**8.5**	0	4.0	4.0	**2.7**	**6.0**
22.	MP3577	622	1.0	8.0	1.0	0.0	**2.5**	0	1.0	6.0	**2.3**	**2.4**
23.	DDW64(d)	623	0.0	10.0	9.0	0.0	**4.8**	0	12.0	2.0	**4.7**	**4.7**
24.	HI8851(d)	624	0.0	31.0	6.0	0.0	**9.3**	0	18.0	1.0	**6.3**	**8.0**
25.	CG1047	625	2.0	15.0	4.0	0.0	**5.3**	0	11.0	10.0	**7.0**	**6.0**
		Mean	**0.6**	**24.8**	**8.2**	**1.1**	**8.7**	0	8.2	5.4	**4.5**	**6.9**

Table 92: Grain appearance score (Max. 10) of *T. aestivum* genotypes in NIVT 6

S.N o	Entry	Code	NWPZ					CZ					Overall mean
			Ludhiana	Delhi	Hisar	Karnal	Mean	Indore	Junagadh	P'kheda	Vijapur	Mean	
1	DBW187 (C)	901	7.0	7.0	5.0	6.8	**6.5**	5.3	6.5	5.5	5.0	**5.6**	**6.0**
2	GW553	902	6.0	7.0	6.0	6.2	**6.3**	6.3	6.0	5.3	5.8	**5.9**	**6.1**
3	DBW433	903	7.0	6.0	7.0	5.6	**6.4**	4.8	5.8	5.5	4.8	**5.2**	**5.8**
4	GW557	904	6.0	6.0	6.0	5.8	**6.0**	5.5	7.0	6.3	6.5	**6.3**	**6.1**
5	DBW440	905	5.0	5.0	6.0	5.8	**5.5**	4.0	4.3	4.3	4.0	**4.2**	**4.8**
6	DBW434	906	6.0	5.0	5.0	6.0	**5.5**	5.0	7.0	5.8	5.5	**5.8**	**5.7**
7	PBW903	907	6.0	7.0	7.0	6.2	**6.6**	4.5	5.8	6.0	5.8	**5.5**	**6.0**
8	DBW435	908	7.0	6.0	5.0	6.2	**6.1**	4.5	6.3	5.8	5.0	**5.4**	**5.7**
9	GW322 (C)	909	7.0	6.0	6.0	6.0	**6.3**	4.8	6.3	5.8	6.0	**5.7**	**6.0**
10	MP1399	910	5.0	5.0	7.0	5.8	**5.7**	4.5	6.3	6.5	5.3	**5.7**	**5.7**
11	WH1320	911	8.0	7.0	5.0	6.2	**6.6**	5.3	6.5	5.5	6.5	**6.0**	**6.3**
12	PBW904	912	5.0	7.0	8.0	5.8	**6.5**	4.8	6.5	5.5	5.8	**5.7**	**6.1**
13	HD3464	913	5.0	8.0	6.0	5.6	**6.2**	4.3	4.5	4.3	3.5	**4.2**	**5.2**
14	DBW436	914	6.0	6.0	7.0	6.2	**6.3**	5.0	7.0	6.5	6.0	**6.1**	**6.2**
15	HI1690	915	7.0	5.0	5.0	5.8	**5.7**	5.8	5.3	5.0	5.3	**5.4**	**5.5**
16	RAJ4583	916	5.0	5.0	6.0	5.6	**5.4**	5.5	7.0	5.5	6.5	**6.1**	**5.8**
17	DBW438	917	5.0	6.0	5.0	6.6	**5.7**	5.0	6.8	6.3	6.3	**6.1**	**5.9**
18	BRW3922	918	8.0	4.0	6.0	5.6	**5.9**	5.0	5.8	6.0	5.0	**5.5**	**5.7**
19	HI1691	919	7.0	6.0	6.0	6.6	**6.4**	6.0	7.0	6.8	6.5	**6.6**	**6.5**
20	MP3572	920	6.0	6.0	7.0	6.6	**6.4**	5.3	6.8	6.0	5.3	**5.9**	**6.1**
21	PBW905	921	7.0	5.0	5.0	5.2	**5.6**	4.3	5.0	5.0	4.5	**4.7**	**5.1**
22	HD3461	922	7.0	5.0	6.0	6.0	**6.0**	4.0	5.5	5.0	4.8	**4.8**	**5.4**
23	CG1049	923	7.0	8.0	5.0	6.0	**6.5**	6.0	6.8	6.5	6.5	**6.5**	**6.5**
24	DBW303 (C)	924	6.0	5.0	6.0	6.0	**5.8**	5.0	5.8	6.0	5.5	**5.6**	**5.7**
25	DBW439	925	6.0	5.0	7.0	6.8	**6.2**	5.5	6.8	5.5	5.5	**5.8**	**6.0**
26	DBW437	926	7.0	4.0	6.0	6.2	**5.8**	5.8	6.3	5.5	5.0	**5.7**	**5.7**
27	HD3462	927	7.0	6.0	7.0	5.8	**6.5**	4.3	5.3	5.0	4.8	**4.9**	**5.7**
28	JWS1333	928	7.0	7.0	5.0	5.4	**6.1**	4.3	4.3	5.3	4.0	**4.5**	**5.3**
29	DBW327 (C)	929	6.0	8.0	6.0	6.4	**6.6**	6.3	6.5	5.8	5.8	**6.1**	**6.4**
30	PBW929	930	6.0	7.0	5.0	6.0	**6.0**	5.0	6.8	6.0	6.0	**6.0**	**6.0**
31	HD3463	931	8.0	7.0	8.0	6.0	**7.3**	4.0	6.3	5.5	4.8	**5.2**	**6.2**
32	DBW445	932	5.0	6.0	7.0	6.2	**6.1**	4.0	4.0	4.8	4.0	**4.2**	**5.1**
33	PBW906	933	7.0	8.0	5.0	6.6	**6.7**	5.0	6.0	6.3	6.0	**5.8**	**6.2**
34	WH1321	934	6.0	7.0	6.0	6.0	**6.3**	3.8	4.0	4.5	4.0	**4.1**	**5.2**
35	PBW907	935	6.0	5.0	8.0	6.2	**6.3**	5.8	5.5	6.5	4.8	**5.7**	**6.0**
36	UP3130	936	7.0	6.0	8.0	5.4	**6.6**	5.0	5.5	5.3	4.8	**5.2**	**5.9**
		Mean	**6.4**	**6.1**	**6.1**	**6.0**	**6.2**	**5.0**	**6.0**	**5.6**	**5.3**	**5.5**	**5.8**

Table 93: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 6

S.N o	Entry	Code	NWPZ					CZ					Overall mean
			Ludhiana	Delhi	Hisar	Karnal	Mean	Indore	Junagadh	P'kheda	Vijapur	Mean	
1	DBW187 (C)	901	75.3	71.6	75.1	77.3	**74.8**	78.8	82.9	81.4	82.0	**81.3**	**78.1**
2	GW553	902	71.4	74.8	77.2	75.3	**74.7**	81.0	82.2	80.6	82.8	**81.7**	**78.2**
3	DBW433	903	70.5	73.2	74.9	77.1	**73.9**	78.1	82.2	80.8	80.2	**80.3**	**77.1**
4	GW557	904	74.7	76.4	80.8	77.1	**77.3**	82.7	84.8	83.5	83.7	**83.7**	**80.5**
5	DBW440	905	71.4	71.9	76.9	74.2	**73.6**	77.3	82.4	81.9	81.8	**80.9**	**77.2**
6	DBW434	906	73.3	75.5	79.0	78.6	**76.6**	80.8	84.1	82.5	83.2	**82.7**	**79.6**
7	PBW903	907	77.3	76.5	78.4	79.7	**78.0**	78.8	82.8	82.3	82.3	**81.6**	**79.8**
8	DBW435	908	76.1	71.9	75.9	78.8	**75.7**	79.5	82.6	81.6	80.9	**81.2**	**78.4**
9	GW322 (C)	909	71.5	72.9	77.5	77.5	**74.9**	79.7	82.8	82.7	83.3	**82.1**	**78.5**
10	MP1399	910	75.2	75.5	79.4	76.2	**76.6**	78.9	84.0	83.0	82.0	**82.0**	**79.3**
11	WH1320	911	74.1	74.3	78.0	78.1	**76.1**	80.3	84.2	82.6	83.3	**82.6**	**79.4**
12	PBW904	912	76.2	75.7	77.5	77.4	**76.7**	79.4	83.9	82.2	83.6	**82.3**	**79.5**
13	HD3464	913	72.9	72.7	73.3	75.3	**73.6**	76.7	78.5	79.1	72.9	**76.8**	**75.2**
14	DBW436	914	75.8	76.4	78.0	80.8	**77.8**	79.5	84.3	83.7	83.7	**82.8**	**80.3**
15	HI1690	915	73.9	75.3	79.2	76.9	**76.3**	82.4	86.6	83.4	85.1	**84.4**	**80.4**
16	RAJ4583	916	76.1	76.4	80.0	77.9	**77.6**	81.8	84.3	82.8	84.6	**83.4**	**80.5**
17	DBW438	917	73.8	72.5	76.4	78.5	**75.3**	80.8	84.4	82.7	81.3	**82.3**	**78.8**
18	BRW3922	918	75.1	72.4	78.1	77.5	**75.8**	77.9	82.5	82.2	80.9	**80.9**	**78.3**
19	HI1691	919	75.0	76.0	78.4	79.0	**77.1**	80.9	83.7	83.4	83.8	**83.0**	**80.0**
20	MP3572	920	78.4	75.9	80.2	80.9	**78.9**	82.7	85.3	85.0	83.2	**84.1**	**81.5**
21	PBW905	921	73.4	71.6	76.0	76.3	**74.3**	77.7	79.8	80.7	79.6	**79.5**	**76.9**
22	HD3461	922	70.9	72.5	74.4	77.2	**73.8**	75.6	81.6	80.0	77.3	**78.6**	**76.2**
23	CG1049	923	71.1	72.4	71.6	74.4	**72.4**	77.2	82.2	80.9	79.6	**80.0**	**76.2**
24	DBW303 (C)	924	74.8	73.3	76.4	79.7	**76.1**	81.1	84.8	83.1	82.8	**83.0**	**79.5**
25	DBW439	925	74.6	75.9	78.4	77.7	**76.7**	80.4	83.1	81.1	82.8	**81.9**	**79.3**
26	DBW437	926	75.5	75.2	78.0	77.8	**76.6**	80.2	82.8	82.1	80.9	**81.5**	**79.1**
27	HD3462	927	72.0	71.2	75.5	76.0	**73.7**	77.4	81.6	80.3	78.6	**79.5**	**76.6**
28	JWS1333	928	72.3	75.2	75.7	74.9	**74.5**	79.7	75.5	79.5	74.7	**77.4**	**75.9**
29	DBW327 (C)	929	75.7	75.9	78.0	80.0	**77.4**	80.5	82.9	82.1	81.9	**81.9**	**79.6**
30	PBW929	930	75.6	71.8	76.8	77.4	**75.4**	79.1	81.8	82.6	80.5	**81.0**	**78.2**
31	HD3463	931	72.6	69.8	74.0	75.0	**72.9**	76.3	82.5	81.3	77.3	**79.4**	**76.1**
32	DBW445	932	71.5	69.8	71.8	74.5	**71.9**	76.9	80.3	79.9	80.4	**79.4**	**75.6**
33	PBW906	933	76.0	78.1	78.3	79.9	**78.1**	79.7	83.1	83.0	81.7	**81.9**	**80.0**
34	WH1321	934	72.8	71.3	73.1	75.8	**73.3**	76.5	78.8	80.0	76.4	**77.9**	**75.6**
35	PBW907	935	73.2	73.9	75.2	77.2	**74.9**	80.3	80.7	81.5	78.7	**80.3**	**77.6**
36	UP3130	936	76.8	76.1	77.8	78.7	**77.4**	81.0	83.9	83.1	83.2	**82.8**	**80.1**
		Mean	**74.1**	**73.9**	**76.8**	**77.4**	**75.6**	**79.4**	**82.6**	**81.9**	**81.1**	**81.3**	**78.4**

Table 94: Grain protein content (%) of *T. aestivum* genotypes in NIVT 6

S.N o	Entry	Code	NWPZ					CZ					Overall mean
			Ludhiana	Delhi	Hisar	Karnal	Mean	Indore	Junagadh	P'kheda	Vijapur	Mean	
1	DBW187 (C)	901	11.7	14.7	13.0	11.0	**12.6**	11.8	13.3	10.7	11.6	**11.9**	**12.2**
2	GW553	902	11.9	13.6	11.4	12.0	**12.2**	10.7	14.1	10.4	11.9	**11.8**	**12.0**
3	DBW433	903	11.1	13.9	12.1	9.9	**11.8**	12.3	11.8	11.0	11.1	**11.6**	**11.7**
4	GW557	904	11.7	12.8	10.9	10.9	**11.6**	11.1	12.5	11.3	10.7	**11.4**	**11.5**
5	DBW440	905	11.6	13.1	11.2	10.5	**11.6**	10.6	11.5	11.1	10.7	**11.0**	**11.3**
6	DBW434	906	11.5	13.9	12.1	10.8	**12.1**	10.8	13.0	11.6	12.3	**11.9**	**12.0**
7	PBW903	907	13.3	14.3	12.7	11.3	**12.9**	12.9	14.3	11.9	12.1	**12.8**	**12.9**
8	DBW435	908	11.8	15.6	12.2	11.1	**12.7**	12.8	13.2	11.9	12.0	**12.5**	**12.6**
9	GW322 (C)	909	12.1	12.9	10.3	11.1	**11.6**	10.1	11.2	11.0	9.5	**10.5**	**11.0**
10	MP1399	910	12.1	13.7	12.2	11.6	**12.4**	11.7	12.4	10.6	11.2	**11.5**	**11.9**
11	WH1320	911	11.3	13.0	11.2	10.5	**11.5**	11.0	13.0	11.6	12.0	**11.9**	**11.7**
12	PBW904	912	12.9	14.1	13.6	11.7	**13.1**	12.1	13.8	11.6	11.9	**12.4**	**12.7**
13	HD3464	913	11.3	13.6	11.7	10.0	**11.7**	13.0	13.1	9.9	12.5	**12.1**	**11.9**
14	DBW436	914	12.3	13.6	12.4	10.5	**12.2**	12.7	12.8	10.9	11.0	**11.9**	**12.0**
15	HI1690	915	11.4	14.5	10.0	12.2	**12.0**	10.5	13.0	10.2	10.5	**11.1**	**11.5**
16	RAJ4583	916	11.0	13.7	12.0	11.3	**12.0**	11.5	13.7	10.7	11.8	**11.9**	**12.0**
17	DBW438	917	12.0	14.4	11.5	10.9	**12.2**	11.4	13.4	11.0	12.1	**12.0**	**12.1**
18	BRW3922	918	12.2	13.6	10.6	11.1	**11.9**	12.6	12.3	11.2	11.0	**11.8**	**11.8**
19	HI1691	919	11.4	13.9	11.8	11.7	**12.2**	11.6	13.5	11.8	11.9	**12.2**	**12.2**
20	MP3572	920	12.7	13.9	11.6	11.2	**12.4**	11.4	12.4	10.9	11.1	**11.5**	**11.9**
21	PBW905	921	12.1	13.5	11.4	10.2	**11.8**	11.9	12.3	10.6	12.1	**11.7**	**11.8**
22	HD3461	922	12.0	13.5	11.4	10.3	**11.8**	12.1	12.3	9.4	11.6	**11.4**	**11.6**
23	CG1049	923	11.5	13.8	12.3	10.3	**12.0**	10.3	12.2	10.8	10.8	**11.0**	**11.5**
24	DBW303 (C)	924	12.8	13.8	11.6	10.5	**12.2**	11.2	12.9	11.0	11.3	**11.6**	**11.9**
25	DBW439	925	11.6	14.2	11.6	11.1	**12.1**	11.3	13.8	11.0	12.1	**12.1**	**12.1**
26	DBW437	926	13.1	13.1	11.6	10.5	**12.1**	10.7	13.1	11.2	11.3	**11.6**	**11.8**
27	HD3462	927	13.1	13.4	11.4	10.8	**12.2**	12.6	12.1	10.6	11.0	**11.6**	**11.9**
28	JWS1333	928	12.4	14.4	12.1	11.0	**12.5**	13.6	14.2	9.5	12.5	**12.5**	**12.5**
29	DBW327 (C)	929	11.0	13.4	10.6	10.1	**11.3**	11.1	11.5	9.6	10.6	**10.7**	**11.0**
30	PBW929	930	12.0	14.2	12.1	10.8	**12.3**	10.9	12.5	11.0	11.0	**11.4**	**11.8**
31	HD3463	931	11.6	13.5	10.8	10.3	**11.6**	10.9	11.9	9.9	12.0	**11.2**	**11.4**
32	DBW445	932	10.8	14.1	13.0	10.3	**12.1**	11.8	13.2	10.8	11.3	**11.8**	**11.9**
33	PBW906	933	11.2	12.7	10.8	10.2	**11.2**	10.3	11.5	9.8	10.1	**10.4**	**10.8**
34	WH1321	934	11.6	14.0	12.8	10.7	**12.3**	11.9	12.2	10.7	12.7	**11.9**	**12.1**
35	PBW907	935	12.0	13.8	12.2	10.6	**12.2**	12.1	13.3	12.1	12.9	**12.6**	**12.4**
36	UP3130	936	10.9	13.4	10.3	10.6	**11.3**	11.5	12.8	10.6	10.7	**11.4**	**11.4**
		Mean	**11.9**	**13.8**	**11.7**	**10.8**	**12.0**	**11.6**	**12.8**	**10.8**	**11.5**	**11.7**	**11.8**

Table 95: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 6

S.No	Entry	Code	NWPZ					CZ					Overall mean
			Ludhiana	Delhi	Hisar	Karnal	Mean	Indore	Junagadh	P'kheda	Vijapur	Mean	
1	DBW187 (C)	901	56.0	58.0	64.0	66.0	**61.0**	48.0	61.0	41.0	43.0	**48.3**	**54.6**
2	GW553	902	36.0	43.0	36.0	45.0	**40.0**	33.0	62.0	30.0	45.0	**42.5**	**41.3**
3	DBW433	903	54.0	52.0	39.0	50.0	**48.8**	50.0	48.0	43.0	44.0	**46.3**	**47.5**
4	GW557	904	39.0	42.0	44.0	43.0	**42.0**	36.0	48.0	37.0	31.0	**38.0**	**40.0**
5	DBW440	905	57.0	60.0	49.0	53.0	**54.8**	37.0	43.0	43.0	37.0	**40.0**	**47.4**
6	DBW434	906	58.0	52.0	48.0	53.0	**52.8**	37.0	55.0	42.0	50.0	**46.0**	**49.4**
7	PBW903	907	52.0	50.0	44.0	59.0	**51.3**	57.0	63.0	48.0	51.0	**54.8**	**53.0**
8	DBW435	908	48.0	54.0	40.0	53.0	**48.8**	56.0	60.0	48.0	48.0	**53.0**	**50.9**
9	GW322 (C)	909	39.0	43.0	30.0	40.0	**38.0**	30.0	36.0	24.0	23.0	**28.3**	**33.1**
10	MP1399	910	40.0	44.0	38.0	53.0	**43.8**	50.0	55.0	45.0	45.0	**48.8**	**46.3**
11	WH1320	911	52.0	61.0	49.0	64.0	**56.5**	46.0	56.0	47.0	48.0	**49.3**	**52.9**
12	PBW904	912	45.0	42.0	41.0	48.0	**44.0**	49.0	59.0	44.0	48.0	**50.0**	**47.0**
13	HD3464	913	44.0	48.0	42.0	47.0	**45.3**	62.0	63.0	27.0	56.0	**52.0**	**48.6**
14	DBW436	914	45.0	55.0	50.0	59.0	**52.3**	55.0	58.0	40.0	39.0	**48.0**	**50.1**
15	HI1690	915	43.0	50.0	37.0	47.0	**44.3**	27.0	58.0	26.0	28.0	**34.8**	**39.5**
16	RAJ4583	916	42.0	51.0	43.0	48.0	**46.0**	40.0	54.0	31.0	43.0	**42.0**	**44.0**
17	DBW438	917	54.0	49.0	46.0	50.0	**49.8**	47.0	57.0	45.0	48.0	**49.3**	**49.5**
18	BRW3922	918	45.0	55.0	40.0	47.0	**46.8**	57.0	51.0	40.0	36.0	**46.0**	**46.4**
19	HI1691	919	33.0	42.0	35.0	43.0	**38.3**	48.0	59.0	49.0	47.0	**50.8**	**44.5**
20	MP3572	920	53.0	55.0	55.0	60.0	**55.8**	43.0	52.0	41.0	42.0	**44.5**	**50.1**
21	PBW905	921	47.0	52.0	46.0	49.0	**48.5**	50.0	54.0	40.0	50.0	**48.5**	**48.5**
22	HD3461	922	44.0	54.0	44.0	50.0	**48.0**	53.0	56.0	40.0	50.0	**49.8**	**48.9**
23	CG1049	923	51.0	50.0	48.0	48.0	**49.3**	38.0	52.0	40.0	41.0	**42.8**	**46.0**
24	DBW303 (C)	924	48.0	48.0	50.0	54.0	**50.0**	44.0	58.0	40.0	43.0	**46.3**	**48.1**
25	DBW439	925	42.0	61.0	58.0	70.0	**57.8**	42.0	63.0	40.0	49.0	**48.5**	**53.1**
26	DBW437	926	46.0	44.0	40.0	47.0	**44.3**	44.0	58.0	44.0	45.0	**47.8**	**46.0**
27	HD3462	927	52.0	58.0	44.0	62.0	**54.0**	55.0	51.0	33.0	38.0	**44.3**	**49.1**
28	JWS1333	928	37.0	41.0	40.0	44.0	**40.5**	57.0	59.0	32.0	54.0	**50.5**	**45.5**
29	DBW327 (C)	929	43.0	54.0	48.0	57.0	**50.5**	34.0	41.0	31.0	31.0	**34.3**	**42.4**
30	PBW929	930	48.0	53.0	41.0	57.0	**49.8**	45.0	57.0	42.0	44.0	**47.0**	**48.4**
31	HD3463	931	44.0	53.0	40.0	50.0	**46.8**	45.0	53.0	42.0	52.0	**48.0**	**47.4**
32	DBW445	932	53.0	49.0	38.0	45.0	**46.3**	45.0	56.0	42.0	44.0	**46.8**	**46.5**
33	PBW906	933	40.0	51.0	44.0	48.0	**45.8**	29.0	41.0	30.0	26.0	**31.5**	**38.6**
34	WH1321	934	42.0	41.0	41.0	44.0	**42.0**	46.0	29.0	37.0	49.0	**40.3**	**41.1**
35	PBW907	935	58.0	52.0	45.0	59.0	**53.5**	51.0	58.0	50.0	56.0	**53.8**	**53.6**
36	UP3130	936	41.0	47.0	44.0	59.0	**47.8**	46.0	56.0	40.0	42.0	**46.0**	**46.9**
		Mean	**46.4**	**50.4**	**43.9**	**52.0**	**48.2**	**45.3**	**53.9**	**39.3**	**43.5**	**45.5**	**46.8**

Table 96: Phenol test (0-10 scale) of *T. aestivum* genotypes in NIVT 6

S.N o	Entry	Code	NWPZ					CZ					Overall mean
			Ludhiana	Delhi	Hisar	Karnal	Mean	Indore	Junagadh	P'kheda	Vijapur	Mean	
1	DBW187 (C)	901	7.0	6.0	6.0	8.5	**6.9**	7.0	7.0	7.0	7.0	**7.0**	**6.9**
2	GW553	902	6.0	7.0	7.0	7.5	**6.9**	6.5	7.0	7.0	6.5	**6.8**	**6.8**
3	DBW433	903	8.0	6.0	6.0	8.5	**7.1**	7.0	7.0	7.0	7.0	**7.0**	**7.1**
4	GW557	904	5.0	8.0	7.0	4.0	**6.0**	2.0	2.0	2.5	2.0	**2.1**	**4.1**
5	DBW440	905	6.0	6.0	6.0	8.5	**6.6**	7.0	7.0	7.0	6.5	**6.9**	**6.8**
6	DBW434	906	6.0	7.0	7.0	9.0	**7.3**	7.0	7.0	7.0	6.5	**6.9**	**7.1**
7	PBW903	907	7.0	6.0	6.0	9.0	**7.0**	7.0	7.0	6.5	7.0	**6.9**	**6.9**
8	DBW435	908	5.0	6.0	6.0	7.5	**6.1**	7.0	7.0	7.0	6.5	**6.9**	**6.5**
9	GW322 (C)	909	6.0	7.0	7.0	8.0	**7.0**	6.5	6.5	7.0	6.5	**6.6**	**6.8**
10	MP1399	910	8.0	8.0	6.0	5.0	**6.8**	3.5	2.0	3.5	2.5	**2.9**	**4.8**
11	WH1320	911	6.0	6.0	7.0	7.0	**6.5**	7.0	7.0	7.0	6.5	**6.9**	**6.7**
12	PBW904	912	8.0	8.0	6.0	5.0	**6.8**	3.0	3.5	3.0	2.5	**3.0**	**4.9**
13	HD3464	913	7.0	7.0	7.0	5.5	**6.6**	6.5	5.5	6.5	5.0	**5.9**	**6.3**
14	DBW436	914	6.0	6.0	6.0	6.0	**6.0**	7.0	6.5	6.5	5.5	**6.4**	**6.2**
15	HI1690	915	8.0	5.0	6.0	4.5	**5.9**	2.0	3.0	2.5	2.0	**2.4**	**4.1**
16	RAJ4583	916	5.0	8.0	7.0	7.0	**6.8**	7.0	7.0	6.5	6.5	**6.8**	**6.8**
17	DBW438	917	7.0	7.0	6.0	9.0	**7.3**	7.0	7.0	7.0	7.0	**7.0**	**7.1**
18	BRW3922	918	6.0	7.0	7.0	7.5	**6.9**	7.0	7.0	7.0	6.5	**6.9**	**6.9**
19	HI1691	919	5.0	6.0	6.0	7.0	**6.0**	6.5	7.0	6.5	6.5	**6.6**	**6.3**
20	MP3572	920	6.0	5.0	7.0	7.5	**6.4**	7.0	6.5	7.0	6.5	**6.8**	**6.6**
21	PBW905	921	7.0	5.0	6.0	7.0	**6.3**	7.0	7.0	7.0	6.5	**6.9**	**6.6**
22	HD3461	922	6.0	6.0	6.0	5.5	**5.9**	7.0	7.0	7.0	6.5	**6.9**	**6.4**
23	CG1049	923	8.0	7.0	7.0	3.0	**6.3**	2.0	2.0	2.5	2.0	**2.1**	**4.2**
24	DBW303 (C)	924	6.0	8.0	7.0	5.0	**6.5**	7.0	7.0	6.5	6.5	**6.8**	**6.6**
25	DBW439	925	7.0	5.0	6.0	7.5	**6.4**	7.0	7.0	6.5	6.5	**6.8**	**6.6**
26	DBW437	926	8.0	7.0	7.0	4.5	**6.6**	3.0	3.0	3.0	2.5	**2.9**	**4.8**
27	HD3462	927	6.0	7.0	6.0	5.5	**6.1**	7.0	6.0	7.0	6.0	**6.5**	**6.3**
28	JWS1333	928	8.0	6.0	6.0	4.0	**6.0**	4.5	4.0	4.5	4.0	**4.3**	**5.1**
29	DBW327 (C)	929	6.0	7.0	5.0	6.0	**6.0**	6.0	6.5	7.0	6.0	**6.4**	**6.2**
30	PBW929	930	7.0	6.0	6.0	4.5	**5.9**	5.0	5.0	5.0	5.0	**5.0**	**5.4**
31	HD3463	931	7.0	7.0	7.0	6.0	**6.8**	7.0	6.5	7.0	6.0	**6.6**	**6.7**
32	DBW445	932	6.0	5.0	6.0	6.5	**5.9**	7.0	7.0	7.0	6.5	**6.9**	**6.4**
33	PBW906	933	6.0	7.0	6.0	6.5	**6.4**	7.0	6.5	6.5	6.5	**6.6**	**6.5**
34	WH1321	934	7.0	6.0	9.0	7.5	**7.4**	6.5	7.0	7.0	7.0	**6.9**	**7.1**
35	PBW907	935	6.0	6.0	5.0	7.5	**6.1**	7.0	7.0	7.0	7.0	**7.0**	**6.6**
36	UP3130	936	6.0	7.0	6.0	7.5	**6.6**	7.0	7.0	7.0	6.5	**6.9**	**6.8**
		Mean	**6.5**	**6.5**	**6.4**	**6.5**	**6.5**	**6.0**	**6.0**	**6.1**	**5.7**	**5.9**	**6.2**

Table 97: Grain appearance score (Max-10) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	HS562 (C)	201	6.0	6.0	6.8	**6.3**
2	HPW489	202	6.0	5.8	6.6	**6.1**
3	VL3032	203	6.6	6.6	5.8	**6.3**
4	VL2051	204	6.4	6.2	6.6	**6.4**
5	VL2053	205	5.8	5.6	5.8	**5.7**
6	HS697	206	5.8	6.4	6.4	**6.2**
7	UP3131	207	5.8	6.2	6.2	**6.1**
8	VL892 (C)	208	6.2	6.2	5.8	**6.1**
9	HPW492	209	6.2	6.2	5.8	**6.1**
10	HS699	210	5.6	5.6	5.8	**5.7**
11	HD3466	211	6.0	5.2	6.6	**5.9**
12	VL3031	212	6.0	5.8	6.6	**6.1**
13	SKW368	213	6.4	5.8	6.4	**6.2**
14	VL2052	214	6.4	6.0	6.4	**6.3**
15	HS696	215	6.0	5.6	5.8	**5.8**
16	HPW491	216	6.0	6.4	6.6	**6.3**
17	VL2054	217	5.8	5.2	6.2	**5.7**
18	SKUAW102	218	5.8	6.0	6.2	**6.0**
19	HS695	219	5.2	5.4	5.8	**5.5**
20	UP3134	220	6.8	6.0	7.2	**6.7**
21	SKUAW101	221	5.4	6.0	5.8	**5.7**
21	HPW493	222	5.6	6.2	5.8	**5.9**
23	HPW494	223	6.4	5.8	5.6	**5.9**
24	HS507 (C)	224	6.8	6.0	6.8	**6.5**
25	HS698	225	5.6	5.6	5.6	**5.6**
26	HPW490	226	5.6	5.4	5.4	**5.5**
Mean			**6.0**	**5.9**	**6.2**	**6.0**

Table 98: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	HS562 (C)	201	76.7	79.7	81.3	**79.2**
2	HPW489	202	72.7	76.9	79.7	**76.4**
3	VL3032	203	74.1	79.0	76.5	**76.5**
4	VL2051	204	76.6	79.8	78.0	**78.1**
5	VL2053	205	73.3	80.7	76.2	**76.7**
6	HS697	206	74.4	81.6	77.8	**77.9**
7	UP3131	207	67.8	76.9	73.3	**72.7**
8	VL892 (C)	208	74.6	80.2	76.1	**77.0**
9	HPW492	209	71.4	79.7	77.3	**76.1**
10	HS699	210	75.1	79.5	78.6	**77.7**
11	HD3466	211	75.3	79.0	79.0	**77.8**
12	VL3031	212	73.2	79.1	78.2	**76.8**
13	SKW368	213	75.0	81.4	81.8	**79.4**
14	VL2052	214	76.7	78.3	79.1	**78.0**
15	HS696	215	72.2	79.0	75.5	**75.6**
16	HPW491	216	74.2	80.3	79.3	**77.9**
17	VL2054	217	78.4	79.2	81.1	**79.6**
18	SKUAW102	218	69.9	77.4	76.6	**74.6**
19	HS695	219	73.0	80.8	77.5	**77.1**
20	UP3134	220	79.3	79.2	83.0	**80.5**
21	SKUAW101	221	69.0	77.0	73.5	**73.2**
21	HPW493	222	72.4	79.5	77.3	**76.4**
23	HPW494	223	77.4	76.6	79.7	**77.9**
24	HS507 (C)	224	76.6	80.5	81.3	**79.5**
25	HS698	225	70.9	78.2	78.8	**76.0**
26	HPW490	226	71.0	77.7	74.6	**74.4**
Mean			**73.9**	**79.1**	**78.1**	**77.0**

Table 99: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	HS562 (C)	201	12.3	9.3	9.9	**10.5**
2	HPW489	202	12.2	9.5	10.4	**10.7**
3	VL3032	203	11.9	10.2	11.1	**11.1**
4	VL2051	204	12.6	9.6	10.5	**10.9**
5	VL2053	205	11.5	9.3	10.8	**10.5**
6	HS697	206	11.3	9.1	10.7	**10.4**
7	UP3131	207	12.5	10.4	10.5	**11.1**
8	VL892 (C)	208	11.8	10.2	12.2	**11.4**
9	HPW492	209	11.9	10.0	11.1	**11.0**
10	HS699	210	13.4	9.6	12.0	**11.7**
11	HD3466	211	12.6	10.0	11.8	**11.4**
12	VL3031	212	11.8	9.7	10.6	**10.7**
13	SKW368	213	12.1	10.0	11.0	**11.0**
14	VL2052	214	10.4	8.0	10.1	**9.5**
15	HS696	215	12.4	9.7	11.4	**11.2**
16	HPW491	216	11.9	9.8	10.6	**10.8**
17	VL2054	217	12.0	10.1	11.7	**11.3**
18	SKUAW102	218	12.7	10.1	10.0	**11.0**
19	HS695	219	11.6	9.6	11.1	**10.8**
20	UP3134	220	11.5	9.6	10.1	**10.4**
21	SKUAW101	221	12.7	10.6	10.6	**11.3**
21	HPW493	222	11.2	9.4	10.8	**10.5**
23	HPW494	223	11.8	9.5	11.1	**10.8**
24	HS507 (C)	224	11.8	10.6	10.7	**11.0**
25	HS698	225	11.8	8.7	10.4	**10.3**
26	HPW490	226	12.2	9.7	11.6	**11.2**
Mean			**12.0**	**9.7**	**10.9**	**10.9**

Table 100: Sedimentation value (ml) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	HS562 (C)	201	50.7	38.8	53.4	**47.7**
2	HPW489	202	52.7	41.9	49.6	**48.0**
3	VL3032	203	46.5	40.7	48.8	**45.4**
4	VL2051	204	32.3	35.0	50.7	**39.3**
5	VL2053	205	41.1	37.3	45.7	**41.4**
6	HS697	206	34.2	42.7	54.6	**43.8**
7	UP3131	207	44.2	36.1	45.7	**42.0**
8	VL892 (C)	208	38.4	35.7	43.8	**39.3**
9	HPW492	209	40.0	41.1	46.9	**42.7**
10	HS699	210	42.7	36.1	41.9	**40.2**
11	HD3466	211	56.5	35.0	47.7	**46.4**
12	VL3031	212	37.3	38.0	41.9	**39.1**
13	SKW368	213	34.2	46.5	58.1	**46.3**
14	VL2052	214	66.5	40.0	38.0	**48.2**
15	HS696	215	65.8	40.0	45.0	**50.2**
16	HPW491	216	44.6	51.9	61.5	**52.7**
17	VL2054	217	61.5	62.3	65.8	**63.2**
18	SKUAW102	218	45.4	42.7	48.4	**45.5**
19	HS695	219	53.4	46.1	58.8	**52.8**
20	UP3134	220	63.1	46.9	59.2	**56.4**
21	SKUAW101	221	43.8	40.0	45.7	**43.2**
21	HPW493	222	42.7	41.9	46.5	**43.7**
23	HPW494	223	47.7	38.0	45.7	**43.8**
24	HS507 (C)	224	45.7	43.8	45.7	**45.1**
25	HS698	225	38.4	35.0	41.1	**38.2**
26	HPW490	226	46.5	41.1	48.4	**45.4**
Mean			**46.8**	**41.3**	**49.2**	**45.8**

Table 101: Phenol test (Max-10) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Rainfed Timely Sown						
1	HS562 (C)	201	7.5	5.5	8.0	**7.0**
2	HPW489	202	4.0	4.0	7.0	**5.0**
3	VL3032	203	4.0	4.5	7.0	**5.2**
4	VL2051	204	3.5	4.5	6.0	**4.7**
5	VL2053	205	9.0	2.5	2.0	**4.5**
6	HS697	206	3.0	3.0	2.5	**2.8**
7	UP3131	207	4.0	5.0	4.5	**4.5**
8	VL892 (C)	208	7.5	5.5	7.0	**6.7**
9	HPW492	209	7.0	5.0	6.5	**6.2**
10	HS699	210	3.0	2.5	3.0	**2.8**
11	HD3466	211	7.5	6.0	7.0	**6.8**
12	VL3031	212	5.5	4.5	5.0	**5.0**
13	SKW368	213	7.0	5.5	7.5	**6.7**
14	VL2052	214	6.5	5.5	7.0	**6.3**
15	HS696	215	3.5	2.5	2.0	**2.7**
16	HPW491	216	7.5	5.5	6.5	**6.5**
17	VL2054	217	6.5	5.0	6.0	**5.8**
18	SKUAW102	218	6.5	5.0	6.0	**5.8**
19	HS695	219	6.5	4.5	6.5	**5.8**
20	UP3134	220	6.0	4.5	5.0	**5.2**
21	SKUAW101	221	6.0	5.0	6.0	**5.7**
22	HPW493	222	7.0	4.0	6.5	**5.8**
23	HPW494	223	7.0	4.0	6.0	**5.7**
24	HS507 (C)	224	5.0	4.0	4.5	**4.5**
25	HS698	225	3.5	3.5	3.0	**3.3**
26	HPW490	226	9.0	6.0	8.5	**7.8**
Mean			**5.9**	**4.5**	**5.6**	**5.3**