

Wheat Quality Data (AICRP 2021-22)

CONTENTS

SECTION A	2-41
ADVANCE VARIETAL TRIALS	
SECTION B	42-73
SPECIAL TRIAL	
HYPT, MABB & AST	
SECTION C	74-103
WHEAT PRODUCT EVALUATION	
Chapati, Bread, Biscuit, Pasta and Gluten	
SECTION D	104-161
NATIONAL INITIAL VARIETAL TRIALS	
& IVT	
NIVT 1A	
NIVT 1B	
NIVT 2	
NIVT 3A & 3B	
NIVT 4	
NIVT 5A & 5B	
NIVT 6A 7 6B	
IVTs from NHZ	
SECTION E	162-175
NURSERIES	
Quality Component & Wheat Biofortification Nursery	

AVT (Advance Varietal Trial)

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	VL2041Q*	108	6.0	6.0	5.8	5.9
2	HS562(C)	102	6.2	5.8	6.2	6.1
3	HPW349(C)	104	5.8	5.8	5.6	5.7
4	HS507(C)	105	6.4	5.8	6.0	6.1
5	VL907(C)	107	6.4	6.0	6.0	6.1
6	VL2043	101	6.6	6.2	6.4	6.4
7	VL2044	103	6.8	6.2	6.4	6.5
8	HD3402	106	6.4	5.8	6.0	6.1
Mean			6.3	6.0	6.1	6.1

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	VL2041Q*	108	78.8	76.1	78.4	77.8
2	HS562(C)	102	78.4	77.9	79.1	78.5
3	HPW349(C)	104	81.3	78.4	79.4	79.7
4	HS507(C)	105	81.3	77.6	80.1	79.7
5	VL907(C)	107	79.6	76.8	79.5	78.6
6	VL2043	101	80.1	78.3	80.0	79.5
7	VL2044	103	79.9	76.7	79.8	78.8
8	HD3402	106	80.5	78.3	80.7	79.8
Mean			80.0	77.5	79.6	79.0

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	VL2041Q*	108	10.1	7.1	8.4	8.5
2	HS562(C)	102	10.0	7.4	9.0	8.8
3	HPW349(C)	104	9.7	6.7	8.0	8.1
4	HS507(C)	105	9.9	8.6	8.6	9.0
5	VL907(C)	107	10.0	6.7	8.7	8.5
6	VL2043	101	10.9	10.8	9.3	10.3
7	VL2044	103	10.8	7.4	8.6	9.0
8	HD3402	106	12.2	10.6	9.4	10.7
Mean			10.5	8.2	8.7	9.1

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	VL2041Q*	108	47.3	32.6	47.3	42.4
2	HS562(C)	102	50.4	40.7	48.0	46.4
3	HPW349(C)	104	50.7	40.0	48.4	46.4
4	HS507(C)	105	41.9	39.6	40.3	40.6
5	VL907(C)	107	37.7	31.9	39.2	36.2
6	VL2043	101	54.2	51.9	50.4	52.2
7	VL2044	103	51.5	44.2	45.7	47.1
8	HD3402	106	43.4	42.7	45.7	43.9
Mean			47.1	40.4	45.6	44.4

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	VL2041Q*	108	3.5	4.0	4.0	3.8
2	HS562(C)	102	7.0	8.0	8.5	7.8
3	HPW349(C)	104	8.0	6.5	7.0	7.2
4	HS507(C)	105	6.5	6.5	5.5	6.2
5	VL907(C)	107	8.0	8.0	7.5	7.8
6	VL2043	101	7.5	7.5	7.0	7.3
7	VL2044	103	6.5	5.5	5.5	5.8
8	HD3402	106	4.5	4.0	4.5	4.3
Mean			6.4	6.3	6.2	6.3

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	VL2041Q*	108		16		16
2	HS562(C)	102		69		69
3	HPW349(C)	104		56		56
4	HS507(C)	105		78		78
5	VL907(C)	107		53		53
6	VL2043	101		70		70
7	VL2044	103		70		70
8	HD3402	106		74		74
Mean				61		61

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	VL2041Q*	108	38.1	35.7	38.4	37.4
2	HS562(C)	102	40.1	34.8	37.3	37.4
3	HPW349(C)	104	35.8	32.1	31.4	33.1
4	HS507(C)	105	37.2	38.6	34.6	36.8
5	VL907(C)	107	33.8	29.3	35.0	32.7
6	VL2043	101	41.7	43.7	41.7	42.4
7	VL2044	103	38.2	38.3	38.7	38.4
8	HD3402	106	45.8	36.7	36.6	39.7
Mean			38.8	36.2	36.7	37.2

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	VL2041Q*	108	43.6	24.5	24.1	30.7
2	HS562(C)	102	38.4	27.6	21.6	29.2
3	HPW349(C)	104	38.4	25.7	19.5	27.9
4	HS507(C)	105	38.8	27.7	19.4	28.6
5	VL907(C)	107	35.6	22.1	22.3	26.7
6	VL2043	101	35.4	37.4	19.6	30.8
7	VL2044	103	41.5	27.7	22.4	30.5
8	HD3402	106	50.7	34.5	21.7	35.6
Mean			40.3	28.4	21.3	30.0

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	6.8	7.0	6.2	6.6	6.2	6.6
2	DBW222(C)	102	5.6	5.8	5.6	6.2	5.8	5.8
3	HD3086(C)	103	6.4	6.6	5.8	6.4	6.2	6.3
4	HD2967(C)	104	5.0	5.6	5.2	5.4	5.2	5.3
5	DBW187(C)	106	5.8	6.0	5.8	6.0	5.8	5.9
6	HD3386	105	6.4	7.0	6.4	6.8	5.8	6.5
Mean			6.0	6.3	5.8	6.2	5.8	6.0
Irrigated Late Sown								
1	DBW173(C)	201	5.2	5.4	5.4	5.4	5.4	5.4
2	WH1124(C)	202	4.0	5.2	5.0	5.0	5.2	4.9
3	HD3059(C)	203	4.4	5.8	5.2	5.6	5.6	5.3
4	JKW261(C)	204	4.8	5.2	5.2	5.4	5.4	5.2
5	PBW771(C)	205	5.6	6.0	5.6	5.8	5.8	5.8
6	DBW353	206	5.2	6.4	5.6	5.4	5.6	5.6
Mean			4.9	5.7	5.3	5.4	5.5	5.4
Restricted Irrigated Timely Sown								
1	HI1654*	302	6.6	5.6	5.6	6.4	5.2	5.9
2	HD3369*	316	6.4	6.0	5.8	6.6	5.8	6.1
3	HI1653*	317	5.6	6.0	5.8	6.8	5.4	5.9
4	NIAW3170(C)	301	6.8	6.0	5.6	6.8	5.4	6.1
5	PBW644(C)	304	6.8	5.8	5.6	7.2	5.8	6.2
6	DBW296(I)(C)	307	6.0	6.0	5.6	6.2	5.6	5.9
7	HUW838(I)(C)	309	6.0	5.8	5.6	6.8	5.8	6.0
8	HD3043(C)	313	5.6	4.8	5.4	6.2	5.4	5.5
9	HI1628(C)	314	6.6	6.0	5.6	6.2	6.2	6.1
10	DBW358	303	7.0	6.0	5.8	7.2	7.0	6.6
11	UP3090	305	6.4	5.8	5.8	7.0	5.8	6.2
12	DBW359	306	6.0	5.8	5.6	6.8	6.0	6.0
13	HD3400	308	7.0	6.0	5.6	6.8	6.2	6.3
14	WH1403	310	6.8	6.0	5.6	6.2	6.2	6.2
15	HD3397	311	5.8	5.8	5.6	6.8	5.4	5.9
16	WH1402	312	6.0	6.6	5.6	6.8	5.8	6.2
17	HD3418	315	5.8	6.0	5.8	5.8	5.2	5.7
Mean			6.3	5.9	5.6	6.6	5.8	6.0

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	80.3	80.9	81.0	81.6	79.8	80.7
2	DBW222(C)	102	76.4	76.2	75.6	76.6	77.7	76.5
3	HD3086(C)	103	80.9	79.5	80.2	81.6	80.1	80.5
4	HD2967(C)	104	76.2	77.3	77.6	73.8	76.3	76.2
5	DBW187(C)	106	80.3	76.9	80.1	79.3	79.2	79.2
6	HD3386	105	80.9	80.3	80.8	82.1	79.6	80.7
Mean			79.2	78.5	79.2	79.2	78.8	79.0
Irrigated Late Sown								
1	DBW173(C)	201	77.0	75.2	75.1	75.7	75.4	75.7
2	WH1124(C)	202	72.8	72.8	72.7	72.5	75.1	73.2
3	HD3059(C)	203	77.7	76.5	77.1	77.7	77.5	77.3
4	JKW261(C)	204	77.3	75.6	77.1	77.1	74.8	76.4
5	PBW771(C)	205	78.2	77.8	78.3	78.4	74.6	77.5
6	DBW353	206	74.4	74.6	74.8	73.7	77.1	74.9
Mean			76.2	75.4	75.9	75.9	75.8	75.8
Restricted Irrigated Timely Sown								
1	HI1654*	302	80.6	78.0	80.4	81.0	79.9	80.0
2	HD3369*	316	81.8	78.5	80.3	81.7	80.0	80.5
3	HI1653*	317	80.7	77.9	79.8	78.2	76.2	78.6
4	NIAW3170(C)	301	81.4	75.6	80.1	81.1	77.3	79.1
5	PBW644(C)	304	82.4	75.2	80.4	81.8	79.8	79.9
6	DBW296(I)(C)	307	80.4	76.9	80.3	81.0	79.3	79.6
7	HUW838(I)(C)	309	81.6	78.1	80.8	82.4	79.4	80.5
8	HD3043(C)	313	81.5	73.4	80.0	81.9	81.4	79.6
9	HI1628(C)	314	81.1	77.8	80.8	79.5	79.9	79.8
10	DBW358	303	81.0	77.1	80.9	81.7	81.0	80.3
11	UP3090	305	81.2	75.6	79.8	80.1	78.0	78.9
12	DBW359	306	80.2	76.2	80.1	80.0	79.1	79.1
13	HD3400	308	81.6	79.5	82.0	81.9	81.0	81.2
14	WH1403	310	82.5	78.9	82.5	80.4	81.4	81.1
15	HD3397	311	81.2	74.8	79.8	80.1	77.7	78.7
16	WH1402	312	82.6	80.6	82.8	82.0	81.2	81.8
17	HD3418	315	79.4	74.5	78.4	77.6	77.0	77.4
Mean			81.2	77.0	80.5	80.7	79.4	79.8

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	10.5	11.0	10.4	10.9	9.6	10.5
2	DBW222(C)	102	11.0	11.7	11.2	12.3	10.4	11.3
3	HD3086(C)	103	11.8	11.3	10.9	11.9	10.3	11.3
4	HD2967(C)	104	10.8	11.3	11.3	14.1	11.5	11.8
5	DBW187(C)	106	11.6	12.5	11.3	13.4	10.0	11.8
6	HD3386	105	10.6	12.1	10.1	11.0	9.5	10.7
Mean			11.1	11.7	10.9	12.3	10.2	11.2
Irrigated Late Sown								
1	DBW173(C)	201	13.4	13.9	13.2	13.0	10.6	12.8
2	WH1124(C)	202	13.2	13.4	12.5	13.3	11.1	12.7
3	HD3059(C)	203	13.2	13.3	12.6	12.7	10.4	12.4
4	JKW261(C)	204	12.1	12.5	12.2	11.5	9.8	11.6
5	PBW771(C)	205	12.9	13.0	13.1	12.0	10.6	12.3
6	DBW353	206	13.1	13.1	12.4	12.6	10.6	12.4
Mean			13.0	13.2	12.7	12.5	10.5	12.4
Restricted Irrigated Timely Sown								
1	HI1654*	302	10.1	10.8	8.5	10.4	9.9	10.3
2	HD3369*	316	10.3	11.6	8.6	11.0	10.3	10.8
3	HI1653*	317	11.2	11.2	8.5	12.1	12.2	11.7
4	NIAW3170(C)	301	11.7	11.9	8.7	11.2	11.1	11.5
5	PBW644(C)	304	10.9	10.8	8.9	11.1	11.6	11.1
6	DBW296(I)(C)	307	12.0	12.1	9.2	11.8	11.8	11.9
7	HUW838(I)(C)	309	11.1	11.7	8.4	10.4	13.1	11.6
8	HD3043(C)	313	10.6	12.4	9.9	11.2	11.4	11.4
9	HI1628(C)	314	10.5	11.2	9.5	10.6	9.4	10.4
10	DBW358	303	11.0	11.1	8.8	11.0	11.0	11.0
11	UP3090	305	10.3	12.2	9.3	10.9	11.3	11.2
12	DBW359	306	11.8	12.2	8.9	11.0	9.7	11.2
13	HD3400	308	11.5	11.3	9.9	10.9	12.2	11.5
14	WH1403	310	10.6	11.2	8.3	11.4	10.9	11.0
15	HD3397	311	11.1	13.0	9.6	11.6	12.5	12.0
16	WH1402	312	11.2	10.4	8.4	10.1	11.8	10.9
17	HD3418	315	10.8	12.1	8.1	11.8	12.8	11.9
Mean			11.0	11.6	8.9	11.1	11.3	11.3

*In RITS data of Hisar centre is not used in calculating mean value because of low protein content (<9.0%).

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	51.9	45.7	41.9	51.5	43.0	46.8
2	DBW222(C)	102	53.4	53.4	47.7	51.5	49.6	51.1
3	HD3086(C)	103	49.2	47.7	41.1	49.6	45.7	46.7
4	HD2967(C)	104	50.7	49.6	40.7	51.9	55.4	49.7
5	DBW187(C)	106	61.9	60.4	51.5	58.1	53.4	57.1
6	HD3386	105	52.3	50.7	41.9	51.5	43.8	48.0
Mean			53.2	51.3	44.1	52.3	48.5	49.9
Irrigated Late Sown								
1	DBW173(C)	201	61.1	61.9	52.3	55.7	56.1	57.4
2	WH1124(C)	202	58.4	61.5	47.7	60.8	51.9	56.1
3	HD3059(C)	203	61.1	60.0	55.0	59.6	55.4	58.2
4	JKW261(C)	204	53.4	49.6	43.0	47.7	54.6	49.7
5	PBW771(C)	205	40.0	40.7	43.8	39.2	46.9	42.1
6	DBW353	206	63.1	63.4	57.3	61.5	43.0	57.7
Mean			56.2	56.2	49.8	54.1	51.3	53.5
Restricted Irrigated Timely Sown								
1	HI1654*	302	41.9	51.5	43.4	52.3	47.7	47.4
2	HD3369*	316	45.7	65.4	47.7	63.1	55.4	55.4
3	HI1653*	317	50.0	55.7	43.0	64.6	55.7	53.8
4	NIAW3170(C)	301	45.0	45.7	40.7	47.7	42.7	44.4
5	PBW644(C)	304	57.3	41.9	38.0	47.7	41.9	45.4
6	DBW296(I)(C)	307	47.3	53.4	47.3	53.4	49.6	50.2
7	HUW838(I)(C)	309	48.0	60.4	46.9	53.4	48.0	51.4
8	HD3043(C)	313	49.6	51.1	40.3	45.7	41.9	45.7
9	HI1628(C)	314	41.9	49.6	40.0	49.6	44.2	45.0
10	DBW358	303	46.1	49.6	39.2	51.5	45.7	46.4
11	UP3090	305	47.7	54.6	43.4	61.1	49.6	51.3
12	DBW359	306	52.3	61.5	38.8	51.5	46.1	50.0
13	HD3400	308	46.1	53.4	43.8	52.3	48.4	48.8
14	WH1403	310	49.6	62.7	41.9	63.4	55.0	54.5
15	HD3397	311	53.4	61.9	45.0	58.1	46.9	53.1
16	WH1402	312	55.4	63.1	46.5	61.1	55.0	56.2
17	HD3418	315	47.3	54.2	43.8	53.4	48.0	49.4
Mean			48.5	55.0	42.9	54.7	48.3	49.9

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	6.5	6.5	6.0	6.5	6.0	6.3
2	DBW222(C)	102	6.5	7.0	7.0	7.0	7.5	7.0
3	HD3086(C)	103	4.0	6.0	6.5	6.0	7.0	5.9
4	HD2967(C)	104	5.0	4.5	4.0	4.0	6.0	4.7
5	DBW187(C)	106	7.0	8.5	8.0	8.5	8.5	8.1
6	HD3386	105	7.0	5.0	4.5	6.0	5.5	5.6
Mean			6.0	6.3	6.0	6.3	6.8	6.3
Irrigated Late Sown								
1	DBW173(C)	201	5.0	6.0	7.0	6.0	7.0	6.2
2	WH1124(C)	202	5.5	4.5	5.5	5.0	4.5	5.0
3	HD3059(C)	203	6.0	5.5	5.0	5.5	6.5	5.7
4	JKW261(C)	204	6.0	5.0	6.0	5.0	5.0	5.4
5	PBW771(C)	205	5.5	6.5	6.0	6.0	6.0	6.0
6	DBW353	206	5.5	5.0	5.5	5.5	5.5	5.4
Mean			5.6	5.4	5.8	5.5	5.8	5.6
Restricted Irrigated Timely Sown								
1	HI1654*	302	6.0	7.5	6.0	7.5	6.5	6.7
2	HD3369*	316	4.5	6.0	6.5	6.0	6.5	5.9
3	HI1653*	317	6.5	8.5	8.5	8.0	7.5	7.8
4	NIAW3170(C)	301	5.0	6.5	6.0	6.5	6.0	6.0
5	PBW644(C)	304	5.5	5.5	5.5	6.0	7.0	5.9
6	DBW296(I)(C)	307	6.0	4.5	4.0	4.5	5.5	4.9
7	HUW838(I)(C)	309	6.0	8.0	6.5	8.0	8.0	7.3
8	HD3043(C)	313	6.5	6.0	6.5	6.5	7.5	6.6
9	HI1628(C)	314	6.0	7.0	7.0	7.5	7.0	6.9
10	DBW358	303	7.0	6.5	6.0	7.0	7.0	6.7
11	UP3090	305	4.5	8.0	8.0	8.0	8.0	7.3
12	DBW359	306	4.0	3.5	3.0	3.0	3.5	3.4
13	HD3400	308	4.0	4.0	3.5	4.0	4.0	3.9
14	WH1403	310	4.5	6.0	7.5	6.0	7.5	6.3
15	HD3397	311	6.0	8.5	8.0	8.5	7.0	7.6
16	WH1402	312	6.5	5.5	6.5	5.5	6.5	6.1
17	HD3418	315	5.5	7.5	8.0	7.0	6.5	6.9
Mean			5.5	6.4	6.3	6.4	6.6	6.2

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	80					80
2	DBW222(C)	102	83					83
3	HD3086(C)	103	80					80
4	HD2967(C)	104	83					83
5	DBW187(C)	106	74					74
6	HD3386	105	81					81
Mean			81					81
Irrigated Late Sown								
1	DBW173(C)	201	85					85
2	WH1124(C)	202	99					99
3	HD3059(C)	203	92					92
4	JKW261(C)	204	87					87
5	PBW771(C)	205	97					97
6	DBW353	206	78					78
Mean			90					90
Restricted Irrigated Timely Sown								
1	HI1654*	302	53					53
2	HD3369*	316	78					78
3	HI1653*	317	72					72
4	NIAW3170(C)	301	49					49
5	PBW644(C)	304	76					76
6	DBW296(I)(C)	307	56					56
7	HUW838(I)(C)	309	77					77
8	HD3043(C)	313	72					72
9	HI1628(C)	314	73					73
10	DBW358	303	47					47
11	UP3090	305	80					80
12	DBW359	306	75					75
13	HD3400	308	80					80
14	WH1403	310	77					77
15	HD3397	311	69					69
16	WH1402	312	80					80
17	HD3418	315	80					80
Mean			70					70

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	42.0	35.6	41.6	36.2	36.2	38.3
2	DBW222(C)	102	32.8	35.1	34.3	35.9	38.1	35.2
3	HD3086(C)	103	40.7	38.9	41.7	40.1	36.8	39.6
4	HD2967(C)	104	32.4	38.1	34.2	37.5	45.7	37.6
5	DBW187(C)	106	39.5	39.3	41.5	41.8	36.6	39.7
6	HD3386	105	38.0	34.9	35.3	37.5	38.0	36.7
Mean			37.6	37.0	38.1	38.2	38.6	37.9
Irrigated Late Sown								
1	DBW173(C)	201	35.7	36.6	39.6	55.1		41.8
2	WH1124(C)	202	40.4	42.4	35.7	39.7		39.6
3	HD3059(C)	203	36.0	33.5	34.1	37.5		35.3
4	JKW261(C)	204	39.1	33.3	34.9	34.2		35.4
5	PBW771(C)	205	40.5	40.8	35.4	37.4		38.5
6	DBW353	206	38.4	39.1	36.7	37.9		38.0
Mean			38.4	37.6	36.1	40.3		38.1
Restricted Irrigated Timely Sown								
1	HI1654*	302	41.7	34.7	32.1	41.2	37.3	37.4
2	HD3369*	316	41.3	39.2	34.5	46.2	42.0	40.6
3	HI1653*	317	40.5	44.1	34.0	42.5	38.8	40.0
4	NIAW3170(C)	301	40.9	33.6	30.8	40.9	46.1	38.5
5	PBW644(C)	304	38.0	34.6	36.0	44.2	47.0	40.0
6	DBW296(I)(C)	307	38.4	39.3	40.0	46.3	44.7	41.7
7	HUW838(I)(C)	309	34.9	40.1	33.9	42.3	39.8	38.2
8	HD3043(C)	313	39.2	34.9	37.6	37.4	39.5	37.7
9	HI1628(C)	314	39.2	33.7	36.0	39.4	45.5	38.8
10	DBW358	303	37.9	38.7	31.5	36.7	45.4	38.0
11	UP3090	305	34.2	36.9	37.9	39.6	40.3	37.8
12	DBW359	306	40.1	35.0	37.7	45.4	47.0	41.0
13	HD3400	308	40.8	35.1	39.9	42.7	39.6	39.6
14	WH1403	310	36.6	40.6	33.6	43.7	43.0	39.5
15	HD3397	311	39.6	39.6	34.0	42.5	40.8	39.3
16	WH1402	312	39.0	38.1	32.8	46.6	46.1	40.5
17	HD3418	315	34.6	38.0	33.2	41.1	38.9	37.2
Mean			38.6	37.4	35.0	42.3	42.5	39.2

*In ILS data of Pantnagar centre is not included because of unusually higher iron content.

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

S. No.	Entries	Code	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
Irrigated Timely Sown								
1	PBW826*	101	34.0	42.6	41.4	44.9	31.4	38.9
2	DBW222(C)	102	30.0	48.4	33.8	44.0	33.0	37.8
3	HD3086(C)	103	32.8	49.0	42.1	53.0	32.9	42.0
4	HD2967(C)	104	29.5	47.7	37.1	53.2	33.0	40.1
5	DBW187(C)	106	27.4	46.1	42.4	42.2	29.2	37.5
6	HD3386	105	29.4	40.6	37.8	47.8	32.8	37.7
Mean			30.5	45.7	39.1	47.5	32.1	39.0
Irrigated Late Sown								
1	DBW173(C)	201	31.0	33.8	41.2	44.5	30.9	36.3
2	WH1124(C)	202	36.0	40.5	41.7	53.2	28.8	40.0
3	HD3059(C)	203	33.6	31.6	39.0	48.1	32.6	37.0
4	JKW261(C)	204	35.6	34.3	44.2	50.7	34.3	39.8
5	PBW771(C)	205	43.0	38.0	43.5	54.1	35.1	42.7
6	DBW353	206	31.3	28.2	35.0	47.8	32.7	35.0
Mean			35.1	34.4	40.8	49.7	32.4	38.5
Restricted Irrigated Timely Sown								
1	HI1654*	302	34.8	27.4	38.5	43.3	34.4	35.7
2	HD3369*	316	31.3	28	34.8	46.3	38.9	35.9
3	HI1653*	317	28.3	26.3	29.4	39.9	31.1	31.0
4	NIAW3170(C)	301	31.9	27.5	33.4	38.4	33.8	33.0
5	PBW644(C)	304	29.4	31.4	40.2	38.5	35.9	35.1
6	DBW296(I)(C)	307	33.8	32.8	35.8	49.9	34.8	37.4
7	HUW838(I)(C)	309	33.2	38.2	38.7	38.7	41.1	38.0
8	HD3043(C)	313	32.8	40.4	46.3	46.7	44.6	42.2
9	HI1628(C)	314	32.1	31.6	37.2	43.9	26.4	34.2
10	DBW358	303	33.0	37.4	35.0	44.9	32.7	36.6
11	UP3090	305	27.0	38.3	44.0	40.9	31.2	36.3
12	DBW359	306	31.1	28.7	47.3	39.6	28.2	35.0
13	HD3400	308	33.1	34.4	46.5	48.6	37.1	39.9
14	WH1403	310	28.1	33.4	41.7	49.5	36.8	37.9
15	HD3397	311	33.2	38.3	34.5	42.1	40.5	37.7
16	WH1402	312	31.3	33.7	39.0	41.6	36.1	36.3
17	HD3418	315	29.8	31.5	32.6	37.0	37.7	33.7
Mean			31.4	32.9	38.5	42.9	35.4	36.2

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		6.0	5.6	5.8	5.8
2	HD3249(C)	101		5.6	5.4	5.8	5.6
3	DBW187(C)	102		5.6	5.0	5.6	5.4
4	HD2967(C)	103		5.4	4.8	5.2	5.1
5	DBW222(C)	105		5.8	5.4	5.4	5.5
6	HD3086(C)	107		5.8	5.4	5.6	5.6
7	HD3386	104		6.0	5.4	6.2	5.9
8	PBW852	108		5.8	5.6	6.2	5.9
9	HD3388	109		6.0	5.2	5.4	5.5
Mean				5.8	5.3	5.7	5.6
Irrigated Late Sown							
1	DBW316#*	201	5.8	5.6	5.0	5.8	5.6
2	PBW833*	203	5.6	5.6	5.2	5.6	5.5
3	PBW835Q*	208	5.6	5.6	5.0	5.6	5.5
4	HI1621(C)	202	5.2	5.8	5.0	5.6	5.4
5	HD3118(C)	205	5.2	5.4	5.2	5.4	5.3
6	DBW107(C)	206	5.4	5.2	5.2	5.6	5.4
7	HI1563(C)	207	5.6	5.8	5.2	5.6	5.6
8	HD3392	204	5.6	5.2	4.8	5.2	5.2
Mean			5.5	5.5	5.1	5.6	5.4
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	5.6	5.8	5.0	5.8	5.6
2	K1317(C)	302	6.8	6.0	5.4	6.2	6.1
3	DBW252(C)	304	5.4	6.0	5.4	6.2	5.8
4	HD3171(C)	305	5.6	5.8	5.4	5.8	5.7
5	HD3293(C)	306	5.6	5.8	5.4	6.2	5.8
6	DBW359	303	5.8	5.8	5.4	6.4	5.9
Mean			5.8	5.9	5.3	6.1	5.8

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		77.8	78.5	80.2	78.8
2	HD3249(C)	101		74.9	74.6	78.7	76.1
3	DBW187(C)	102		77.5	72.2	79.2	76.3
4	HD2967(C)	103		74.5	73.9	76.4	74.9
5	DBW222(C)	105		73.1	75.0	77.0	75.0
6	HD3086(C)	107		77.3	75.5	79.3	77.4
7	HD3386	104		77.9	76.6	80.1	78.2
8	PBW852	108		76.4	75.5	80.4	77.4
9	HD3388	109		75.6	73.9	76.8	75.4
Mean				76.1	75.1	78.7	76.6
Irrigated Late Sown							
1	DBW316#*	201	78.8	76.1	68.1	77.9	75.2
2	PBW833*	203	80.7	78.1	72.2	79.5	77.6
3	PBW835Q*	208	78.9	74.1	73.4	78.2	76.2
4	HI1621(C)	202	78.5	75.4	68.9	77.8	75.2
5	HD3118(C)	205	78.1	74.7	70.1	76.5	74.9
6	DBW107(C)	206	80.6	76.3	73.1	80.0	77.5
7	HI1563(C)	207	81.9	78.4	74.4	81.9	79.2
8	HD3392	204	79.6	74.6	70.4	78.2	75.7
Mean			79.6	76.0	71.3	78.8	76.4
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	80.0	74.9	77.2	78.6	77.7
2	K1317(C)	302	83.3	78.3	79.0	81.5	80.5
3	DBW252(C)	304	79.3	75.7	75.9	79.6	77.6
4	HD3171(C)	305	80.8	75.5	77.4	79.6	78.3
5	HD3293(C)	306	80.5	75.4	75.1	78.9	77.5
6	DBW359	303	80.6	74.2	78.5	79.6	78.2
Mean			80.8	75.7	77.2	79.6	78.3

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		11.0	10.5	9.4	10.3
2	HD3249(C)	101		12.9	10.8	10.2	11.3
3	DBW187(C)	102		12.4	12.2	9.3	11.3
4	HD2967(C)	103		12.1	12.8	10.9	12.0
5	DBW222(C)	105		11.5	11.6	10.1	11.1
6	HD3086(C)	107		11.1	11.7	9.8	10.9
7	HD3386	104		12.0	10.9	9.4	10.8
8	PBW852	108		11.1	11.1	9.2	10.5
9	HD3388	109		11.9	11.2	10.0	11.1
Mean				11.8	11.4	9.8	11.0
Irrigated Late Sown							
1	DBW316#*	201	12.5	10.7	14.6	10.6	12.0
2	PBW833*	203	12.0	11.0	13.3	10.8	11.7
3	PBW835Q*	208	12.0	10.5	12.3	10.3	11.0
4	HI1621(C)	202	11.7	10.9	12.2	10.1	11.1
5	HD3118(C)	205	11.4	10.4	12.8	10.2	11.1
6	DBW107(C)	206	11.8	10.9	13.7	10.0	11.6
7	HI1563(C)	207	11.2	10.2	12.0	9.5	10.6
8	HD3392	204	11.9	11.1	14.2	10.6	12.0
Mean			11.8	10.7	13.2	10.2	11.4
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	10.1	11.5	7.5	12.8	11.5
2	K1317(C)	302	10.4	12.1	8.7	12.5	11.7
3	DBW252(C)	304	10.4	11.5	8.3	11.7	11.2
4	HD3171(C)	305	9.7	12.3	8.2	12.0	11.3
5	HD3293(C)	306	10.1	11.7	8.2	11.8	11.2
6	DBW359	303	9.8	11.2	8.0	11.9	11.0
Mean			10.1	11.7	8.1	12.1	11.3

*In RITS data of Sabour centre is not used in calculating mean value because of low protein content (<9.0%).

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		40.3	48.4	41.1	43.3
2	HD3249(C)	101		66.5	53.4	51.1	57.0
3	DBW187(C)	102		67.7	61.1	53.4	60.8
4	HD2967(C)	103		60.4	62.7	44.2	55.7
5	DBW222(C)	105		60.4	53.4	45.7	53.2
6	HD3086(C)	107		60.8	51.5	43.8	52.0
7	HD3386	104		54.2	57.3	40.7	50.7
8	PBW852	108		55.0	49.6	40.7	48.4
9	HD3388	109		62.7	56.1	47.7	55.5
Mean				58.7	54.8	45.4	53.0
Irrigated Late Sown							
1	DBW316#*	201	41.1	47.3	60.0	43.8	48.0
2	PBW833*	203	41.9	51.5	51.5	43.4	47.1
3	PBW835Q*	208	46.1	53.8	66.1	49.6	53.9
4	HI1621(C)	202	43.8	55.7	53.4	40.7	48.4
5	HD3118(C)	205	40.3	48.8	61.5	43.0	48.4
6	DBW107(C)	206	36.1	43.8	61.1	42.3	45.8
7	HI1563(C)	207	39.6	45.7	63.1	41.9	47.6
8	HD3392	204	40.0	54.6	63.8	48.0	51.6
Mean			41.1	50.2	60.1	44.1	48.9
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	57.3	65.0	55.0	57.3	58.6
2	K1317(C)	302	41.9	51.5	41.9	38.0	43.3
3	DBW252(C)	304	47.7	57.7	46.9	47.7	50.0
4	HD3171(C)	305	49.6	65.8	49.6	46.5	52.9
5	HD3293(C)	306	41.9	48.4	43.4	43.0	44.2
6	DBW359	303	48.4	63.8	44.6	50.0	51.7
Mean			47.8	58.7	46.9	47.1	50.1

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		5.0	6.5	6.0	5.8
2	HD3249(C)	101		5.5	5.5	5.0	5.3
3	DBW187(C)	102		6.0	6.5	6.0	6.2
4	HD2967(C)	103		5.5	5.0	5.0	5.2
5	DBW222(C)	105		4.5	7.0	6.5	6.0
6	HD3086(C)	107		4.0	6.5	5.5	5.3
7	HD3386	104		5.0	4.5	4.5	4.7
8	PBW852	108		4.5	5.0	5.0	4.8
9	HD3388	109		5	5.5	5.5	5.3
Mean				5.0	5.8	5.4	5.4
Irrigated Late Sown							
1	DBW316#*	201	8.0	6.5	7.0	7.0	7.1
2	PBW833*	203	8.0	5.5	7.0	6.0	6.6
3	PBW835Q*	208	9.0	4.5	4.5	4.0	5.5
4	HI1621(C)	202	7.0	6.0	6.5	6.0	6.4
5	HD3118(C)	205	5.5	5.5	5.0	4.5	5.1
6	DBW107(C)	206	8.0	4.5	6.0	5.5	6.0
7	HI1563(C)	207	4.0	2	3.0	2.5	2.9
8	HD3392	204	5.0	4.0	4.0	4.5	4.4
Mean			6.8	4.8	5.4	5.0	5.5
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	7.0	5.5	4.5	4.5	5.4
2	K1317(C)	302	3.5	3.5	3.5	4.0	3.6
3	DBW252(C)	304	6.0	4.5	4.0	4.0	4.6
4	HD3171(C)	305	6.0	5.5	5.0	5.5	5.5
5	HD3293(C)	306	7.5	5.0	5.0	4.5	5.5
6	DBW359	303	5.0	3.0	4.0	4.0	4.0
Mean			5.8	4.5	4.3	4.4	4.8

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106				74	74
2	HD3249(C)	101				80	80
3	DBW187(C)	102				76	76
4	HD2967(C)	103				77	77
5	DBW222(C)	105				78	78
6	HD3086(C)	107				81	81
7	HD3386	104				79	79
8	PBW852	108				79	79
9	HD3388	109				75	75
Mean						78	78
Irrigated Late Sown							
1	DBW316#*	201				76	76
2	PBW833*	203				78	78
3	PBW835Q*	208				91	91
4	HI1621(C)	202				65	65
5	HD3118(C)	205				72	72
6	DBW107(C)	206				83	83
7	HI1563(C)	207				80	80
8	HD3392	204				77	77
Mean						78	78
Restricted Irrigated Timely Sown							
1	HI1612(C)	301				92	92
2	K1317(C)	302				85	85
3	DBW252(C)	304				87	87
4	HD3171(C)	305				82	82
5	HD3293(C)	306				81	81
6	DBW359	303				83	83
Mean						85	85

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		39.1	33.1	26.6	32.9
2	HD3249(C)	101		40.8	37.7	30.1	36.2
3	DBW187(C)	102		43.1	41.6	30.7	38.5
4	HD2967(C)	103		35.4	36.7	30.1	34.1
5	DBW222(C)	105		35.8	32.6	28.4	32.3
6	HD3086(C)	107		38.0	33.7	28.6	33.4
7	HD3386	104		32.3	35.9	29.2	32.5
8	PBW852	108		38.1	43.8	28.8	36.9
9	HD3388	109		37.0	37.5	31.7	35.4
Mean				37.7	37.0	29.4	34.7
Irrigated Late Sown							
1	DBW316#*	201	36.9	37.2	40.2	28.6	35.7
2	PBW833*	203	33.9	39.2	45.6	27.5	36.6
3	PBW835Q*	208	37.8	45.7	41.4	29.1	38.5
4	HI1621(C)	202	35.5	38.7	38.6	28.4	35.3
5	HD3118(C)	205	37.6	32.7	47.6	27.5	36.4
6	DBW107(C)	206	38.4	39.9	44.7	27.5	37.6
7	HI1563(C)	207	35.9	44.7	43.9	33.6	39.5
8	HD3392	204	35.2	40.2	40.3	30.1	36.5
Mean			36.4	39.8	42.8	29.0	37.0
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	34.8	40.4	39.9	36.5	37.9
2	K1317(C)	302	38.1	38.8	35.3	34.4	36.7
3	DBW252(C)	304	39.4	42.4	36.3	36.2	38.6
4	HD3171(C)	305	38.1	37.0	36.6	39.6	37.8
5	HD3293(C)	306	38.8	40.4	34.8	35.1	37.3
6	DBW359	303	34.3	45.6	35.5	38.8	38.6
Mean			37.3	40.8	36.4	36.8	37.8

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

S. No.	Entries	Code	Kanpur	Pusa	Sabour	Varanasi	Mean
Irrigated Timely Sown							
1	PBW826#*	106		29.9	23.0	26.6	26.5
2	HD3249(C)	101		32.5	23.8	28.2	28.2
3	DBW187(C)	102		31.1	23.5	27.4	27.3
4	HD2967(C)	103		38.3	29.3	37.4	35.0
5	DBW222(C)	105		28.2	21.6	27.8	25.9
6	HD3086(C)	107		30.3	22.0	26.7	26.3
7	HD3386	104		31.6	26.0	29.7	29.1
8	PBW852	108		34.3	21.7	28.4	28.1
9	HD3388	109		32.0	26.8	31.5	30.1
Mean				32.0	24.2	29.3	28.5
Irrigated Late Sown							
1	DBW316#*	201	40.3	32.8	43.6	28.2	36.2
2	PBW833*	203	34.7	35.2	37.9	30.4	34.6
3	PBW835Q*	208	38.7	37.5	35.7	27.7	34.9
4	HI1621(C)	202	36	33.5	36.5	27.7	33.4
5	HD3118(C)	205	36.8	31.9	35.3	29.4	33.4
6	DBW107(C)	206	36.6	30.9	36.9	25.0	32.4
7	HI1563(C)	207	31.3	34.1	34.7	32.7	33.2
8	HD3392	204	36.1	30.5	34.0	30.5	32.8
Mean			36.3	33.3	36.8	29.0	33.8
Restricted Irrigated Timely Sown							
1	HI1612(C)	301	38.3	40.2	26.6	42.4	36.9
2	K1317(C)	302	35.2	42.1	25.3	44.3	36.7
3	DBW252(C)	304	35.2	37.7	27.0	43.6	35.9
4	HD3171(C)	305	29.9	40.2	27.6	44.6	35.6
5	HD3293(C)	306	34.7	42.3	27.6	42.2	36.7
6	DBW359	303	31.9	38.6	28.3	47.0	36.5
Mean			34.2	40.2	27.1	44.0	36.4

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

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	6.2	7.2	6.6	6.8	6.7
2	MP3535*	107	6.2	7.2	6.4	6.2	6.5
3	MACS6768*	108	6.4	7.2	6.6	6.4	6.7
4	GW322(C)	101	5.6	6.8	6.4	6.4	6.3
5	HI1636(I)(C)	102	5.8	7.4	6.8	6.6	6.7
6	GW513(I)(C)	109	7.0	7.4	6.8	6.4	6.9
7	HI1544(C)	110	6.4	7.4	6.4	6.4	6.7
8	GW547	104	6.0	7.2	6.0	6.4	6.4
9	NWS2194	105	5.4	6.8	6.0	6.0	6.1
10	DBW352	106	5.6	6.8	6.2	6.0	6.2
Mean			6.1	7.1	6.4	6.4	6.5
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	7.2	7.4	6.4	6.4	6.9
2	HI1655Q*	304	6.4	7.2	6.4	6.2	6.6
3	DBW110(C)	309	6.0	7.0	6.6	6.0	6.4
4	MP3288(C)	314	6.2	6.4	6.6	5.8	6.3
5	HI1666	303	6.6	7.4	6.4	6.2	6.7
6	MP1377	305	6.2	6.8	6.2	6.2	6.4
7	DBW359	306	6.2	7.2	6.4	5.8	6.4
8	DBW358	307	6.6	7.4	6.8	5.8	6.7
9	CG1040	308	6.4	7.6	6.6	5.8	6.6
10	GW532	310	6.4	6.6	6.4	6.0	6.4
11	MACS6795	313	5.8	6.0	6.2	5.6	5.9
12	HD3401	316					
13	NIAW4028	317	6.6	7.2	6.6	6.0	6.6
14	UAS3019	319	6.4	6.0	6.4	5.8	6.2
15	HI1665	320	6.4	5.6	6.2	6.4	6.2
Mean			6.4	6.8	6.4	6.0	6.4
<i>T. durum</i>							
1	DDW55(d)Q*	302	6.4	7.8	6.6	6.4	6.8
2	HI8830(d)*	312	6.4	8.2	6.6	6.0	6.8
3	HI8823(I)(d)(C)	311	6.6	8.2	6.6	6.4	7.0
4	HI8627(d)(C)	315	6.2	8.0	6.4	5.8	6.6
5	DDW47(d)(C)	318	6.6	8.2	6.2	6.4	6.9
Mean			6.4	8.1	6.5	6.2	6.8

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

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	83.9	84.2	82.7	83.6	83.6
2	MP3535*	107	84.8	83.6	83.6	84.0	84.0
3	MACS6768*	108	83.6	83.4	83.3	83.8	83.5
4	GW322(C)	101	79.4	81.7	81.2	81.1	80.9
5	HI1636(I)(C)	102	80.9	81.5	80.2	81.2	81.0
6	GW513(I)(C)	109	83.1	83.3	82.4	83.1	83.0
7	HI1544(C)	110	83.1	83.0	82.1	83.4	82.9
8	GW547	104	80.9	80.4	80.4	81.8	80.9
9	NWS2194	105	79.0	79.7	80.0	79.7	79.6
10	DBW352	106	80.1	82.6	81.0	81.4	81.3
Mean			81.9	82.3	81.7	82.3	82.1
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	83.9	83.9	83.8	84.7	84.1
2	HI1655Q*	304	78.3	82.8	81.5	81.4	81.0
3	DBW110(C)	309	77.6	84.5	81.1	81.6	81.2
4	MP3288(C)	314	81.9	83.1	81.7	81.9	82.2
5	HI1666	303	80.9	82.6	80.7	80.9	81.3
6	MP1377	305	79.3	81.7	80.9	80.9	80.7
7	DBW359	306	79.7	83.8	82.4	82.1	82.0
8	DBW358	307	80.0	84.1	82.1	82.6	82.2
9	CG1040	308	79.8	82.8	80.9	80.2	80.9
10	GW532	310	80.6	81.4	80.6	81.5	81.0
11	MACS6795	313	81.1	83.1	81.9	82.5	82.2
12	HD3401	316					
13	NIAW4028	317	89.3	83.8	81.1	80.8	83.8
14	UAS3019	319	81.4	83.2	82.1	80.8	81.9
15	HI1665	320	81.4	82.6	82.7	83.2	82.5
Mean			81.1	83.1	81.7	81.8	81.9
<i>T. durum</i>							
1	DDW55(d)Q*	302	83.8	83.7	85.7	85.5	84.7
2	HI8830(d)*	312	81.7	83.9	83.2	82.2	82.8
3	HI8823(I)(d)(C)	311	83.3	83.4	85.1	85.3	84.3
4	HI8627(d)(C)	315	82.0	83.4	83.9	83.7	83.3
5	DDW47(d)(C)	318	82.2	84.1	83.1	83.7	83.3
Mean			82.6	83.7	84.2	84.1	83.6

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

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	11.4	12.2	10.6	10.1	11.1
2	MP3535*	107	11.9	13.0	11.6	11.2	11.9
3	MACS6768*	108	11.8	13.5	11.1	11.7	12.1
4	GW322(C)	101	10.1	11.2	9.7	9.6	10.1
5	HI1636(I)(C)	102	11.0	13.1	10.5	9.8	11.1
6	GW513(I)(C)	109	10.9	12.2	10.0	10.1	10.8
7	HI1544(C)	110	11.8	12.5	10.7	10.2	11.3
8	GW547	104	11.9	13.6	11.0	12.1	12.2
9	NWS2194	105	11.4	12.2	10.5	11.3	11.3
10	DBW352	106	12.5	13.2	10.5	11.2	11.9
Mean			11.5	12.7	10.6	10.7	11.4
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	10.6	12.7	10.0	9.0	11.1
2	HI1655Q*	304	11.6	13.1	10.5	8.0	11.7
3	DBW110(C)	309	11.7	14.0	10.6	8.7	12.1
4	MP3288(C)	314	11.0	13.6	11.4	8.5	12.0
5	HI1666	303	12.1	12.7	10.9	8.5	11.9
6	MP1377	305	11.8	14.6	11.8	9.7	12.7
7	DBW359	306	11.6	13.8	10.4	8.1	12.0
8	DBW358	307	10.9	13.2	10.5	7.9	11.5
9	CG1040	308	10.5	13.8	11.0	9.5	11.8
10	GW532	310	11.4	14.0	12.4	9.1	12.6
11	MACS6795	313	10.1	12.9	10.6	7.9	11.2
12	HD3401	316					
13	NIAW4028	317	11.8	13.3	11.4	8.9	12.2
14	UAS3019	319	11.8	13.2	10.6	8.3	11.9
15	HI1665	320	11.2	13.1	10.7	7.7	11.6
Mean			11.3	13.4	10.9	8.6	11.9
<i>T. durum</i>							
1	DDW55(d)Q*	302	10.8	13.4	10.6	8.6	11.6
2	HI8830(d)*	312	11.0	11.5	10.6	7.7	11.0
3	HI8823(I)(d)(C)	311	12.2	12.5	11.5	8.1	12.1
4	HI8627(d)(C)	315	11.5	13.0	10.1	7.9	11.5
5	DDW47(d)(C)	318	11.0	12.8	12.0	8.7	12.0
Mean			11.3	12.7	10.8	8.2	11.6

As protein content of RITS of Indore centre was very low (<9%), it was NOT included in calculating mean value.

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

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	46.5	46.1	38.8	39.2	42.7
2	MP3535*	107	39.2	42.3	36.1	38.0	38.9
3	MACS6768*	108	40.0	41.9	38.0	39.6	39.9
4	GW322(C)	101	40.0	42.3	50.4	38.0	42.7
5	HI1636(I)(C)	102	43.0	49.2	48.8	40.0	45.3
6	GW513(I)(C)	109	40.7	40.3	38.0	37.3	39.1
7	HI1544(C)	110	41.1	42.3	38.8	40.0	40.5
8	GW547	104	55.0	51.5	46.5	52.3	51.3
9	NWS2194	105	61.5	65.4	51.5	58.8	59.3
10	DBW352	106	55.0	64.6	47.3	53.4	55.1
Mean			46.2	48.6	43.4	43.7	45.5
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	48.4	42.7	46.5	38.4	44.0
2	HI1655Q*	304	46.5	43.8	40.0	34.2	41.1
3	DBW110(C)	309	57.3	66.5	57.3	41.9	55.7
4	MP3288(C)	314	49.6	51.5	48.4	42.3	48.0
5	HI1666	303	48.8	47.3	45.7	40.0	45.4
6	MP1377	305	55.4	56.5	53.4	45.7	52.8
7	DBW359	306	55.4	66.9	62.7	46.1	57.8
8	DBW358	307	51.5	63.1	53.4	40.0	52.0
9	CG1040	308	55.4	66.9	49.6	47.7	54.9
10	GW532	310	52.7	61.5	57.3	40.3	53.0
11	MACS6795	313	49.6	50.7	47.7	41.9	47.5
12	HD3401	316					
13	NIAW4028	317	56.1	59.2	51.5	44.6	52.9
14	UAS3019	319	55.4	52.3	49.6	47.7	51.2
15	HI1665	320	38.8	36.1	36.1	32.3	35.8
Mean			51.5	54.6	49.9	41.6	49.4
<i>T. durum</i>							
1	DDW55(d)Q*	302	38.0	35.0	38.0	31.9	35.7
2	HI8830(d)*	312	30.3	34.2	31.1	31.5	31.8
3	HI8823(I)(d)(C)	311	40.7	38.4	34.2	28.4	35.4
4	HI8627(d)(C)	315	36.1	32.3	28.4	25.0	30.4
5	DDW47(d)(C)	318	41.9	38.0	33.0	38.0	37.7
Mean			37.4	35.6	33.0	31.0	34.2

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

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	7.0	5.0	5.5	6.5	6.0
2	MP3535*	107	2.5	2.5	2.0	3.0	2.5
3	MACS6768*	108	7.0	4.5	4.0	4.5	5.0
4	GW322(C)	101	7.0	5.0	4.5	5.5	5.5
5	HI1636(I)(C)	102	4.5	4.0	4.0	4.5	4.3
6	GW513(I)(C)	109	2.5	2.0	2.0	2.5	2.3
7	HI1544(C)	110	7.0	5.0	5.0	6.0	5.8
8	GW547	104	7.5	6.0	6.0	7.0	6.6
9	NWS2194	105	7.5	5.5	5.0	7.0	6.3
10	DBW352	106	8.0	6.5	6.5	7.5	7.1
Mean			6.1	4.6	4.5	5.4	5.1
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	2.0	2.5	2.0	2.5	2.3
2	HI1655Q*	304	7.0	4.5	4.5	4.5	5.1
3	DBW110(C)	309	7.0	5.5	7.0	6.0	6.4
4	MP3288(C)	314	5.5	5.0	5.5	4.5	5.1
5	HI1666	303	6.5	4.5	4.0	5.5	5.1
6	MP1377	305	7.0	5.0	6.0	5.0	5.8
7	DBW359	306	2.5	3.0	3.0	2.0	2.6
8	DBW358	307	6.5	5.5	6.0	6.0	6.0
9	CG1040	308	6.5	5.0	6.0	6.5	6.0
10	GW532	310	6.5	5.5	7.0	5.5	6.1
11	MACS6795	313	5.5	3.5	4.5	5.0	4.6
12	HD3401	316					
13	NIAW4028	317	6.5	4.5	3.5	6.0	5.1
14	UAS3019	319	6.0	4.5	5.0	5.0	5.1
15	HI1665	320	5.5	5.5	5.0	4.0	5.0
Mean			5.8	4.6	4.9	4.9	5.0
<i>T. durum</i>							
1	DDW55(d)Q*	302					
2	HI8830(d)*	312					
3	HI8823(I)(d)(C)	311					
4	HI8627(d)(C)	315					
5	DDW47(d)(C)	318					
Mean							

Table 30: Yellow pigment (ppm) of *T. durum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103					
2	MP3535*	107					
3	MACS6768*	108					
4	GW322(C)	101					
5	HI1636(I)(C)	102					
6	GW513(I)(C)	109					
7	HI1544(C)	110					
8	GW547	104					
9	NWS2194	105					
10	DBW352	106					
Mean							
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301					
2	HI1655Q*	304					
3	DBW110(C)	309					
4	MP3288(C)	314					
5	HI1666	303					
6	MP1377	305					
7	DBW359	306					
8	DBW358	307					
9	CG1040	308					
10	GW532	310					
11	MACS6795	313					
12	HD3401	316					
13	NIAW4028	317					
14	UAS3019	319					
15	HI1665	320					
Mean							
<i>T. durum</i>							
1	DDW55(d)Q*	302	7.1	6.7	6.1	6.5	6.6
2	HI8830(d)*	312	8.6	7.3	7.6	8.3	7.8
3	HI8823(I)(d)(C)	311	6.1	6.2	6.0	5.9	6.1
4	HI8627(d)(C)	315	7.4	6.9	6.0	8.2	6.7
5	DDW47(d)(C)	318	7.7	6.8	7.1	7.3	7.2
Mean			7.4	6.8	6.6	7.3	6.9

Table 31: Hardness index of *T. aestivum* and *T. durum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103				88	88
2	MP3535*	107				86	86
3	MACS6768*	108				89	89
4	GW322(C)	101				85	85
5	HI1636(I)(C)	102				76	76
6	GW513(I)(C)	109				81	81
7	HI1544(C)	110				93	93
8	GW547	104				79	79
9	NWS2194	105				78	78
10	DBW352	106				87	87
Mean						84	84
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301				86	86
2	HI1655Q*	304				87	87
3	DBW110(C)	309				73	73
4	MP3288(C)	314				78	78
5	HI1666	303				83	83
6	MP1377	305				82	82
7	DBW359	306				81	81
8	DBW358	307				83	83
9	CG1040	308				81	81
10	GW532	310				74	74
11	MACS6795	313				77	77
12	HD3401	316				82	82
13	NIAW4028	317				76	76
14	UAS3019	319				66	66
15	HI1665	320				91	91
Mean						80	80
<i>T. durum</i>							
1	DDW55(d)Q*	302				84	84
2	HI8830(d)*	312				70	70
3	HI8823(I)(d)(C)	311				76	76
4	HI8627(d)(C)	315				78	78
5	DDW47(d)(C)	318				92	92
Mean						80	80

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

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	41.1	38.8	39.3	40.1	39.8
2	MP3535*	107	37.6	43.3	45	41.9	42.0
3	MACS6768*	108	36.5	39.9	40.2	45.7	40.6
4	GW322(C)	101	36.5	35.4	39.9	39	37.7
5	HI1636(I)(C)	102	41.2	32.1	37.7	38.3	37.3
6	GW513(I)(C)	109	40.2	38.2	36.3	48	40.7
7	HI1544(C)	110	43.0	39.8	40.5	47.1	42.6
8	GW547	104	39.6	37.2	40.7	43.7	40.3
9	NWS2194	105	32.6	36.9	35.3	43.4	37.1
10	DBW352	106	36.6	38.6	39.4	43.6	39.6
Mean			38.5	38.0	39.4	43.1	39.8
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	32.9	33.2	39.5	41.5	36.8
2	HI1655Q*	304	36.2	34.1	38.5	36.4	36.3
3	DBW110(C)	309	29.3	41.1	37.1	40.0	36.9
4	MP3288(C)	314	31.7	42.7	40.5	36.6	37.9
5	HI1666	303	39.5	38.6	37.3	37.9	38.3
6	MP1377	305	30.2	32.9	39.8	38.1	35.3
7	DBW359	306	36.5	37.5	38.6	36.3	37.2
8	DBW358	307	35.4	34.4	37.0	43.8	37.7
9	CG1040	308	31.2	33.6	36.9	37.9	34.9
10	GW532	310	35.5	37.2	40.7	43.6	39.3
11	MACS6795	313	30.3	41.0	37.9	37.8	36.8
12	HD3401	316					
13	NIAW4028	317	39.3	37.4	39.0	43.7	39.9
14	UAS3019	319	33.4	32.7	40.3	34.0	35.1
15	HI1665	320	40.2	38.4	42.7	37.6	39.7
Mean			34.4	36.8	39.0	38.9	37.3
<i>T. durum</i>							
1	DDW55(d)Q*	302	34.8	38.2	40.2	41.8	38.8
2	HI8830(d)*	312	34.2	40.5	42.4	37.2	38.6
3	HI8823(I)(d)(C)	311	34.7	40.2	40.7	38.8	38.6
4	HI8627(d)(C)	315	33.0	40.9	37.4	42.2	38.4
5	DDW47(d)(C)	318	39.8	41.7	39.6	36.5	39.4
Mean			35.3	40.3	40.1	39.3	38.7

Table 33: Grain zinc content (ppm) of *T. aestivum* and *T. durum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103	45.2	35.5	40.6	32.1	38.4
2	MP3535*	107	50.8	46.0	49.2	34.7	45.2
3	MACS6768*	108	44.3	44.1	37.5	35.1	40.3
4	GW322(C)	101	41.9	40.5	41.3	31.4	38.8
5	HI1636(I)(C)	102	55.3	38.8	34.3	31.0	39.9
6	GW513(I)(C)	109	44.5	41.7	40.1	33.4	39.9
7	HI1544(C)	110	43.6	42.7	39.9	31.3	39.4
8	GW547	104	45.8	39.2	38.5	30.2	38.4
9	NWS2194	105	38.1	37.1	38.3	30.8	36.1
10	DBW352	106	35.6	38.3	42.0	30.1	36.5
Mean			44.5	40.4	40.2	32.0	39.3
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301	33.6	46.0	27.4	37.9	36.2
2	HI1655Q*	304	39.5	49.3	31.2	32.8	38.2
3	DBW110(C)	309	39.2	52.5	26.9	34.6	38.3
4	MP3288(C)	314	36.3	55.5	28.1	32.9	38.2
5	HI1666	303	43.5	51.8	31.5	37.9	41.2
6	MP1377	305	39.1	46.2	31.6	35.5	38.1
7	DBW359	306	32.8	46.3	29.9	27.0	34.0
8	DBW358	307	40.6	44.1	36.9	31.3	38.2
9	CG1040	308	31.1	45.7	32.6	33.4	35.7
10	GW532	310	39.6	54.5	31.2	34.7	40.0
11	MACS6795	313	34.4	49.7	30.3	34.6	37.3
12	HD3401	316					
13	NIAW4028	317	39.9	44.1	30.8	31.2	36.5
14	UAS3019	319	38.4	48.2	29.3	28.9	36.2
15	HI1665	320	44.7	52.1	34.7	30.5	40.5
Mean			38.1	49.0	30.9	33.1	37.8
<i>T. durum</i>							
1	DDW55(d)Q*	302	43.5	54.6	32.7	38.0	42.2
2	HI8830(d)*	312	37.6	47.7	30.3	32.0	36.9
3	HI8823(I)(d)(C)	311	42.7	55.4	28.7	36.7	40.9
4	HI8627(d)(C)	315	41.4	52.3	34.9	34.2	40.7
5	DDW47(d)(C)	318	40.8	47.3	34.2	31.1	38.4
Mean			41.2	51.5	32.2	34.4	39.8

Table 34: Yellow berry (%) of *T. durum* genotypes in Central Zone (CZ) AVTs

S. No.	Entries	Code	Vijapur	Junagarh	P.Kheda	Indore	Mean
Irrigated Timely Sown							
<i>T. aestivum</i>							
1	HI1650*	103					
2	MP3535*	107					
3	MACS6768*	108					
4	GW322(C)	101					
5	HI1636(I)(C)	102					
6	GW513(I)(C)	109					
7	HI1544(C)	110					
8	GW547	104					
9	NWS2194	105					
10	DBW352	106					
Mean							
Restricted Irrigated Timely Sown							
<i>T. aestivum</i>							
1	CG1036*	301					
2	HI1655Q*	304					
3	DBW110(C)	309					
4	MP3288(C)	314					
5	HI1666	303					
6	MP1377	305					
7	DBW359	306					
8	DBW358	307					
9	CG1040	308					
10	GW532	310					
11	MACS6795	313					
12	HD3401	316					
13	NIAW4028	317					
14	UAS3019	319					
15	HI1665	320					
Mean							
<i>T. durum</i>							
1	DDW55(d)Q*	302	40.0	10.0	20.0	90.0	40.0
2	HI8830(d)*	312	20.0	10.0	10.0	90.0	32.5
3	HI8823(I)(d)(C)	311	20.0	10.0	10.0	80.0	30.0
4	HI8627(d)(C)	315	10.0	10.0	30.0	90.0	35.0
5	DDW47(d)(C)	318	20.0	10.0	5.0	50.0	21.3
Mean			22.0	10.0	15.0	80.0	31.8

Table 35: Grain appearance score (Max-10) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	5.8	5.0	6.4	5.7
2	MACS6222(C)	107	6.2	5.6	6.6	6.1
3	DBW407	101	6.0	5.4	7.0	6.1
4	UAS3015	103	6.2	5.6	6.8	6.2
5	MP1378	105	5.8	5.4	6.4	5.9
6	MP3552	109	5.8	5.6	6.2	5.9
Mean			6.0	5.4	6.6	6.0
<i>T. durum</i>						
1	MACS4100(d)*	104	5.4	6.4	6.8	6.2
2	HI8826(d)*	111	5.8	6.4	7.2	6.5
3	UAS428(d)(C)	106	5.8	5.8	6.6	6.1
4	DDW48(d)(C)	108	6.2	5.8	6.2	6.1
5	MACS3949(d)(C)	110	6.4	6.4	7.8	6.9
Mean			5.9	6.2	6.9	6.3
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	5.0	5.4	6.0	5.5
2	HD2932(C)	202	5.2	4.0	5.8	5.0
3	RAJ4083(C)	203	5.2	5.4	5.8	5.5
4	HD3090(C)	204	5.0	5.4	5.8	5.4
5	HI1633(C)	205	5.2	5.0	6.4	5.5
6	MP1380	201	5.4	5.2	6.4	5.7
Mean			5.2	5.1	6.0	5.4
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	6.0		6.0	6.0
2	NIAW3170(C)	311	5.6		6.2	5.9
3	MP1358(C)	313	6.0		6.0	6.0
4	NIAW4028	302	5.2		6.0	5.6
5	NIAW3922	306	5.8		5.8	5.8
6	DBW358	307	6.0		6.4	6.2
7	DBW359	309	5.8		6.0	5.9
8	HI1665	312	5.4		5.6	5.5
Mean			5.7		6.0	5.9
<i>T. durum</i>						
1	UAS446(d)(C)	305	5.2		6.6	5.9
2	NIDW1149(d)(C)	310	5.8		6.4	6.1
3	UAS478(d)	301	5.2		6.0	5.6
4	HI8839(d)	303	5.2		6.0	5.6
5	HI8840(d)	304	5.6		6.6	6.1
Mean			5.4		6.3	5.9

Table 36: Hectolitre weight (Kg/hl) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	79.9	74.0	82.0	78.6
2	MACS6222(C)	107	82.0	77.8	83.3	81.0
3	DBW407	101	80.5	74.8	81.2	78.8
4	UAS3015	103	79.4	75.3	81.3	78.7
5	MP1378	105	82.9	76.0	84.1	81.0
6	MP3552	109	81.1	73.8	81.6	78.8
Mean			81.0	75.3	82.3	79.5
<i>T. durum</i>						
1	MACS4100(d)*	104	82.3	78.5	82.3	81.0
2	HI8826(d)*	111	84.2	80.3	84.3	82.9
3	UAS428(d)(C)	106	84.0	79.9	83.7	82.5
4	DDW48(d)(C)	108	83.5	79.2	83.7	82.1
5	MACS3949(d)(C)	110	84.4	81.1	84.9	83.5
Mean			83.7	79.8	83.8	82.4
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	78.0	74.3	80.6	77.6
2	HD2932(C)	202	79.1	71.7	80.4	77.1
3	RAJ4083(C)	203	79.8	76.7	80.1	78.9
4	HD3090(C)	204	79.0	75.2	80.5	78.2
5	HI1633(C)	205	80.5	76.4	80.2	79.0
6	MP1380	201	80.8	78.6	81.9	80.4
Mean			79.5	75.5	80.6	78.5
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	82.8		82.0	82.4
2	NIAW3170(C)	311	80.3		79.3	79.8
3	MP1358(C)	313	81.4		80.1	80.8
4	NIAW4028	302	80.2		79.4	79.8
5	NIAW3922	306	80.5		80.5	80.5
6	DBW358	307	81.7		79.9	80.8
7	DBW359	309	80.9		79.7	80.3
8	HI1665	312	82.0		81.1	81.6
Mean			81.2		80.3	80.7
<i>T. durum</i>						
1	UAS446(d)(C)	305	81.9		81.6	81.8
2	NIDW1149(d)(C)	310	80.2		80.8	80.5
3	UAS478(d)	301	81.8		82.1	82.0
4	HI8839(d)	303	82.3		82.3	82.3
5	HI8840(d)	304	83.1		82.0	82.6
Mean			81.9		81.8	81.8

Table 37: Protein content (%) at 12% moisture basis of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	10.5	10.8	9.9	10.4
2	MACS6222(C)	107	11.9	13.6	12.0	12.5
3	DBW407	101	12.2	13.1	12.6	12.7
4	UAS3015	103	11.0	11.7	10.5	11.1
5	MP1378	105	12.0	11.8	11.7	11.9
6	MP3552	109	11.6	12.8	11.3	11.9
Mean			11.5	12.3	11.4	11.7
<i>T. durum</i>						
1	MACS4100(d)*	104	10.2	11.3	10.6	10.7
2	HI8826(d)*	111	10.4	11.4	10.4	10.7
3	UAS428(d)(C)	106	11.4	11.4	10.5	11.1
4	DDW48(d)(C)	108	12.0	12.1	10.8	11.6
5	MACS3949(d)(C)	110	11.0	11.4	11.3	11.2
Mean			11.0	11.5	10.7	11.1
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	11.7	14.3	11.0	12.3
2	HD2932(C)	202	11.5	13.5	11.3	12.1
3	RAJ4083(C)	203	11.4	13.2	11.7	12.1
4	HD3090(C)	204	11.9	14.3	11.6	12.6
5	HI1633(C)	205	11.9	13.9	11.9	12.6
6	MP1380	201	12.1	14.8	12.4	13.1
Mean			11.8	14.0	11.6	12.5
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	11.3		11.5	11.4
2	NIAW3170(C)	311	11.1		12.3	11.7
3	MP1358(C)	313	10.4		11.7	11.1
4	NIAW4028	302	11.0		11.5	11.3
5	NIAW3922	306	10.9		11.1	11.0
6	DBW358	307	10.4		10.7	10.6
7	DBW359	309	10.1		10.4	10.2
8	HI1665	312	10.1		11.4	10.8
Mean			10.7		11.3	11.0
<i>T. durum</i>						
1	UAS446(d)(C)	305	11.1		13.1	12.1
2	NIDW1149(d)(C)	310	10.0		11.0	10.5
3	UAS478(d)	301	10.7		11.0	10.8
4	HI8839(d)	303	10.8		10.2	10.5
5	HI8840(d)	304	10.6		11.3	10.9
Mean			10.6		11.3	11.0

Table 38: Sedimentation value (ml) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	39.6	40.0	41.9	40.5
2	MACS6222(C)	107	39.2	46.1	40.0	41.8
3	DBW407	101	61.5	63.8	63.1	62.8
4	UAS3015	103	50.7	57.7	55.0	54.5
5	MP1378	105	38.8	39.6	40.7	39.7
6	MP3552	109	60.0	62.7	57.3	60.0
Mean			48.3	51.6	49.7	49.9
<i>T. durum</i>						
1	MACS4100(d)*	104	43.4	45.7	42.7	43.9
2	HI8826(d)*	111	27.6	34.2	30.3	30.7
3	UAS428(d)(C)	106	35.3	38.8	35.0	36.4
4	DDW48(d)(C)	108	35.0	36.1	36.1	35.7
5	MACS3949(d)(C)	110	39.2	43.0	38.0	40.1
Mean			36.1	39.6	36.4	37.4
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	52.3	58.4	48.8	53.2
2	HD2932(C)	202	47.3	65.0	47.7	53.3
3	RAJ4083(C)	203	48.4	65.0	53.4	55.6
4	HD3090(C)	204	43.0	55.0	42.3	46.8
5	HI1633(C)	205	44.2	45.7	42.7	44.2
6	MP1380	201	49.6	66.5	51.5	55.9
Mean			47.5	59.3	47.7	51.5
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	53.4		55.4	54.4
2	NIAW3170(C)	311	47.3		49.6	48.4
3	MP1358(C)	313	45.7		53.8	49.8
4	NIAW4028	302	54.2		52.7	53.4
5	NIAW3922	306	43.8		43.4	43.6
6	DBW358	307	51.5		49.6	50.5
7	DBW359	309	49.6		53.4	51.5
8	HI1665	312	34.2		34.2	34.2
Mean			47.5		49.0	48.2
<i>T. durum</i>						
1	UAS446(d)(C)	305	41.9		53.4	47.7
2	NIDW1149(d)(C)	310	28.4		32.3	30.3
3	UAS478(d)	301	36.9		40.0	38.4
4	HI8839(d)	303	32.6		38.0	35.3
5	HI8840(d)	304	45.7		49.6	47.7
Mean			37.1		42.7	39.9

Table 39: Phenol test (Max-10) of *T. aestivum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	5.5	6.0	5.0	5.5
2	MACS6222(C)	107	6.5	7.0	4.0	5.8
3	DBW407	101	6.0	9.0	5.0	6.7
4	UAS3015	103	5.6	7.0	6.0	6.2
5	MP1378	105	5.0	6.0	4.0	5.0
6	MP3552	109	7.0	9.0	7.5	7.8
Mean			5.9	7.3	5.3	6.2
<i>T. durum</i>						
1	MACS4100(d)*	104				
2	HI8826(d)*	111				
3	UAS428(d)(C)	106				
4	DDW48(d)(C)	108				
5	MACS3949(d)(C)	110				
Mean						
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	6.5	7.0	3.5	5.7
2	HD2932(C)	202	3.5	5.0	2.5	3.7
3	RAJ4083(C)	203	5.0	8.0	4.5	5.8
4	HD3090(C)	204	9.0	9.0	5.0	7.7
5	HI1633(C)	205	8.5	7.5	4.0	6.7
6	MP1380	201	3.0	5.5	3.0	3.8
Mean			5.9	7.0	3.8	5.6
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	4.5		2.5	3.5
2	NIAW3170(C)	311	4.5		4.0	4.3
3	MP1358(C)	313	3.5		2.0	2.8
4	NIAW4028	302	4.0		4.5	4.3
5	NIAW3922	306	5.0		3.0	4.0
6	DBW358	307	6.0		4.0	5.0
7	DBW359	309	3.0		2.5	2.8
8	HI1665	312	5.0		3.5	4.3
Mean			4.4		3.3	3.8
<i>T. durum</i>						
1	UAS446(d)(C)	305				
2	NIDW1149(d)(C)	310				
3	UAS478(d)	301				
4	HI8839(d)	303				
5	HI8840(d)	304				
Mean						

Table 40: Yellow pigment (ppm) of *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102				
2	MACS6222(C)	107				
3	DBW407	101				
4	UAS3015	103				
5	MP1378	105				
6	MP3552	109				
Mean						
<i>T. durum</i>						
1	MACS4100(d)*	104	9.3	6.7	7.4	7.8
2	HI8826(d)*	111	8.7	7.4	7.4	7.8
3	UAS428(d)(C)	106	7.1	5.3	6.1	6.2
4	DDW48(d)(C)	108	8.4	6.1	7.7	7.4
5	MACS3949(d)(C)	110	7.3	6.0	6.7	6.7
Mean			8.2	6.3	7.1	7.2
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206				
2	HD2932(C)	202				
3	RAJ4083(C)	203				
4	HD3090(C)	204				
5	HI1633(C)	205				
6	MP1380	201				
Mean						
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308				
2	NIAW3170(C)	311				
3	MP1358(C)	313				
4	NIAW4028	302				
5	NIAW3922	306				
6	DBW358	307				
7	DBW359	309				
8	HI1665	312				
Mean						
<i>T. durum</i>						
1	UAS446(d)(C)	305	8.3		5.6	6.9
2	NIDW1149(d)(C)	310	6.8		5.6	6.2
3	UAS478(d)	301	9.1		5.8	7.4
4	HI8839(d)	303	9.1		7.5	8.3
5	HI8840(d)	304	8.9		7.2	8.1
Mean			8.4		6.3	7.4

Table 41: Hardness index of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	84			84
2	MACS6222(C)	107	86			86
3	DBW407	101	79			79
4	UAS3015	103	82			82
5	MP1378	105	78			78
6	MP3552	109	83			83
Mean			82			82
<i>T. durum</i>						
1	MACS4100(d)*	104	95			95
2	HI8826(d)*	111	91			91
3	UAS428(d)(C)	106	98			98
4	DDW48(d)(C)	108	94			94
5	MACS3949(d)(C)	110	95			95
Mean			95			95
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	81			81
2	HD2932(C)	202	76			76
3	RAJ4083(C)	203	86			86
4	HD3090(C)	204	81			81
5	HI1633(C)	205	82			82
6	MP1380	201	85			85
Mean			82			82
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	95			95
2	NIAW3170(C)	311	35			35
3	MP1358(C)	313	81			81
4	NIAW4028	302	84			84
5	NIAW3922	306	84			84
6	DBW358	307	89			89
7	DBW359	309	93			93
8	HI1665	312	88			88
Mean			81			81
<i>T. durum</i>						
1	UAS446(d)(C)	305	100			100
2	NIDW1149(d)(C)	310	93			93
3	UAS478(d)	301	94			94
4	HI8839(d)	303	93			93
5	HI8840(d)	304	96			96
Mean			95			95

Table 42: Grain iron content (ppm) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	39.7	36.2	34.8	36.9
2	MACS6222(C)	107	39.5	44.2	41.9	41.9
3	DBW407	101	35.5	40.1	42.2	39.3
4	UAS3015	103	41.0	39.7	38.9	39.9
5	MP1378	105	41.1	40.6	40.0	40.6
6	MP3552	109	39.8	37.6	37.7	38.4
Mean			39.4	39.7	39.3	39.5
<i>T. durum</i>						
1	MACS4100(d)*	104	32.7	36.0	36.1	34.9
2	HI8826(d)*	111	33.5	34.0	32.6	33.4
3	UAS428(d)(C)	106	35.3	38.7	39.3	37.8
4	DDW48(d)(C)	108	38.2	37.5	36.7	37.5
5	MACS3949(d)(C)	110	35.2	40.1	36.2	37.2
Mean			35.0	37.3	36.2	36.1
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	32.3	40.7	37.4	36.8
2	HD2932(C)	202	35.9	36.1	35.9	36.0
3	RAJ4083(C)	203	43.5	44.6	39.0	42.4
4	HD3090(C)	204	36.5	38.9	35.9	37.1
5	HI1633(C)	205	39.0	42.6	38.0	39.9
6	MP1380	201	38.4	38.6	36.4	37.8
Mean			37.6	40.3	37.1	38.3
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	39.4		41.5	40.5
2	NIAW3170(C)	311	38.4		38.3	38.4
3	MP1358(C)	313	36.6		39.8	38.2
4	NIAW4028	302	42.7		36.4	39.6
5	NIAW3922	306	35.7		33.7	34.7
6	DBW358	307	34.6		37.8	36.2
7	DBW359	309	37.2		33.0	35.1
8	HI1665	312	37.5		36.2	36.9
Mean			37.8		37.1	37.4
<i>T. durum</i>						
1	UAS446(d)(C)	305	37.9		37.2	37.6
2	NIDW1149(d)(C)	310	34.2		36.6	35.4
3	UAS478(d)	301	34.3		37.1	35.7
4	HI8839(d)	303	35.3		37.7	36.5
5	HI8840(d)	304	35.5		38.2	36.9
Mean			35.4		37.4	36.4

Table 43: Grain zinc content (ppm) of *T. aestivum* and *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102	39.9	30.9	38.9	36.6
2	MACS6222(C)	107	42.7	40.5	43.0	42.1
3	DBW407	101	39.3	40.2	44.3	41.3
4	UAS3015	103	41.4	31.6	32.5	35.2
5	MP1378	105	40.9	37.6	45.7	41.4
6	MP3552	109	40.3	39.4	33.8	37.8
Mean			40.8	36.7	39.7	39.1
<i>T. durum</i>						
1	MACS4100(d)*	104	37.0	36.7	38.3	37.3
2	HI8826(d)*	111	36.8	33.3	34.9	35.0
3	UAS428(d)(C)	106	42.9	38.6	40.4	40.6
4	DDW48(d)(C)	108	41.8	35.7	36.6	38.0
5	MACS3949(d)(C)	110	43.1	34.3	39.5	39.0
Mean			40.3	35.7	37.9	38.0
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206	36.8	37.0	38.4	37.4
2	HD2932(C)	202	36.9	41.7	34.6	37.7
3	RAJ4083(C)	203	45.8	42.5	38.4	42.2
4	HD3090(C)	204	40.9	41.5	36.7	39.7
5	HI1633(C)	205	50.3	36.9	34.7	40.6
6	MP1380	201	46.9	37.0	36.3	40.1
Mean			42.9	39.4	36.5	39.6
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308	40.3		32.3	36.3
2	NIAW3170(C)	311	36.3		32.0	34.2
3	MP1358(C)	313	33.0		28.9	31.0
4	NIAW4028	302	38.4		29.2	33.8
5	NIAW3922	306	36.2		32.6	34.4
6	DBW358	307	36.0		30.9	33.5
7	DBW359	309	35.5		27.5	31.5
8	HI1665	312	38.5		33.1	35.8
Mean			36.8		30.8	33.8
<i>T. durum</i>						
1	UAS446(d)(C)	305	42.9		32.2	37.6
2	NIDW1149(d)(C)	310	37.2		31.9	34.6
3	UAS478(d)	301	35.9		27.8	31.9
4	HI8839(d)	303	40.1		31.3	35.7
5	HI8840(d)	304	41.1		32.2	36.7
Mean			39.4		31.1	35.3

Table 44: Yellow berry (%) of *T. durum* genotypes in Peninsular Zone (PZ) AVTs

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
Irrigated Timely Sown						
<i>T. aestivum</i>						
1	GW322(C)	102				
2	MACS6222(C)	107				
3	DBW407	101				
4	UAS3015	103				
5	MP1378	105				
6	MP3552	109				
Mean						
<i>T. durum</i>						
1	MACS4100(d)*	104	20	20	20	20.0
2	HI8826(d)*	111	20	10	20	16.7
3	UAS428(d)(C)	106	10	10	20	13.3
4	DDW48(d)(C)	108	10	10	10	10.0
5	MACS3949(d)(C)	110	10	10	10	10.0
Mean			14	12	16	14.0
Irrigated Late Sown						
<i>T. aestivum</i>						
1	DBW320#*	206				
2	HD2932(C)	202				
3	RAJ4083(C)	203				
4	HD3090(C)	204				
5	HI1633(C)	205				
6	MP1380	201				
Mean						
Restricted Irrigated Timely Sown						
<i>T. aestivum</i>						
1	HI1605(C)	308				
2	NIAW3170(C)	311				
3	MP1358(C)	313				
4	NIAW4028	302				
5	NIAW3922	306				
6	DBW358	307				
7	DBW359	309				
8	HI1665	312				
Mean						
<i>T. durum</i>						
1	UAS446(d)(C)	305	10		0	5.0
2	NIDW1149(d)(C)	310	10		10	10.0
3	UAS478(d)	301	20		10	15.0
4	HI8839(d)	303	10		10	10.0
5	HI8840(d)	304	10		0	5.0
Mean			12		6	9.0

HYPT (High yield Potential Trial)

Table 45: Grain appearance score (Max-10) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108	7.0	6.4	6.8	6.4	6.7
2	DBW371*	111	6.0	6.2	6.2	6.6	6.3
3	DBW370*	112	5.6	6.0	5.4	6.2	5.8
4	DBW372#*	113	5.4	6.0	5.4	6.4	5.8
5	DBW303(C)	101	5.8	5.6	6.2	6.0	5.9
6	DBW332(I)(C)	102	6.2	5.8	6.0	5.8	6.0
7	DBW327(I)(C)	103	6.4	6.0	6.6	6.6	6.4
8	HD3086(C)	105	6.2	6.2	6.6	6.6	6.4
9	DBW187(C)	107	6.0	5.8	5.8	6.2	6.0
10	PBW868	104	6.2	6.0	5.6	6.2	6.0
11	PBW871	106	7.2	6.2	6.4	6.4	6.6
12	DBW373	109	5.6	6.0	5.8	6.4	6.0
13	DBW318	110	5.8	6.0	5.8	6.4	6.0
Mean			6.1	6.0	6.0	6.3	6.1

Table 46: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108	80.9	82.0	81.8	81.9	81.7
2	DBW371*	111	80.5	82.1	81.6	81.5	81.4
3	DBW370*	112	75.2	79.7	75.5	79.6	77.5
4	DBW372#*	113	77.6	81.4	80.0	82.0	80.3
5	DBW303(C)	101	81.3	82.6	81.4	81.6	81.7
6	DBW332(I)(C)	102	78.0	81.0	80.4	79.9	79.8
7	DBW327(I)(C)	103	79.6	81.1	81.4	82.1	81.1
8	HD3086(C)	105	79.7	81.7	80.9	81.5	81.0
9	DBW187(C)	107	78.6	79.0	80.9	80.3	79.7
10	PBW868	104	76.8	79.6	77.2	78.9	78.1
11	PBW871	106	79.5	80.4	80.5	80.5	80.2
12	DBW373	109	77.1	81.6	79.9	80.4	79.8
13	DBW318	110	79.1	82.5	81.9	83.1	81.7
Mean			78.8	81.1	80.3	81.0	80.3

Table 47: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108	11.2	10.4	10.8	11.4	10.9
2	DBW371*	111	11.8	10.6	11.4	12.3	11.5
3	DBW370*	112	11.8	10.6	12.7	11.6	11.7
4	DBW372#*	113	12.8	10.7	12.0	12.7	12.0
5	DBW303(C)	101	11.3	11.0	12.8	13.3	12.1
6	DBW332(I)(C)	102	12.2	11.2	11.9	12.7	12.0
7	DBW327(I)(C)	103	11.9	11.1	11.5	11.3	11.4
8	HD3086(C)	105	12.2	11.3	12.6	12.6	12.2
9	DBW187(C)	107	12.7	11.5	11.6	12.5	12.1
10	PBW868	104	12.4	9.6	12.1	12.0	11.5
11	PBW871	106	11.5	12.0	12.7	13.1	12.3
12	DBW373	109	12.0	11.2	11.9	12.6	11.9
13	DBW318	110	12.2	11.0	12.4	12.8	12.1
Mean			12.0	10.9	12.0	12.4	11.8

Table 48: Sedimentation value (ml) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108	49.6	44.2	51.5	47.7	48.2
2	DBW371*	111	54.6	45.0	54.6	47.3	50.4
3	DBW370*	112	52.7	47.3	56.5	49.6	51.5
4	DBW372#*	113	56.1	47.7	55.0	47.7	51.6
5	DBW303(C)	101	50.7	47.7	63.1	51.1	53.1
6	DBW332(I)(C)	102	53.4	48.0	61.1	62.3	56.2
7	DBW327(I)(C)	103	51.1	46.5	50.4	47.7	48.9
8	HD3086(C)	105	47.7	41.9	47.7	43.8	45.3
9	DBW187(C)	107	64.6	54.6	61.9	55.4	59.1
10	PBW868	104	49.6	43.8	58.8	49.6	50.5
11	PBW871	106	53.4	50.4	61.1	51.5	54.1
12	DBW373	109	61.5	45.7	57.3	51.5	54.0
13	DBW318	110	48.4	43.4	48.4	44.6	46.2
Mean			53.3	46.6	56.0	50.0	51.5

Table 49: Hardness index of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108			77		77
2	DBW371*	111			73		73
3	DBW370*	112			76		76
4	DBW372#*	113			82		82
5	DBW303(C)	101			72		72
6	DBW332(I)(C)	102			74		74
7	DBW327(I)(C)	103			80		80
8	HD3086(C)	105			78		78
9	DBW187(C)	107			80		80
10	PBW868	104			79		79
11	PBW871	106			69		69
12	DBW373	109			71		71
13	DBW318	110			78		78
Mean					76		76

Table 50: Phenol test score (Max-10) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108	6.5	6.5	7.0	7.0	6.8
2	DBW371*	111	2.5	2.0	3.0	3.0	2.6
3	DBW370*	112	3.0	3.0	4.0	3.0	3.3
4	DBW372#*	113	5.0	5.0	6.0	5.0	5.3
5	DBW303(C)	101	6.0	5.5	6.0	6.5	6.0
6	DBW332(I)(C)	102	5.0	5.0	5.0	5.0	5.0
7	DBW327(I)(C)	103	5.0	5.0	5.5	5.5	5.3
8	HD3086(C)	105	6.0	6.0	6.0	6.0	6.0
9	DBW187(C)	107	6.5	7.0	8.0	7.0	7.1
10	PBW868	104	4.0	3.0	4.0	4.0	3.8
11	PBW871	106	7.0	7.5	7.5	6.5	7.1
12	DBW373	109	8.5	9.0	8.5	8.0	8.5
13	DBW318	110	6.0	6.5	4.5	5.5	5.6
Mean			5.5	5.5	5.8	5.5	5.6

Table 51: Grain iron content (ppm) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108	48.5	35.9	45.1	39.6	42.3
2	DBW371*	111	45.6	45.9	42.2	45	44.7
3	DBW370*	112	38.8	34.2	39.7	37.2	37.5
4	DBW372#*	113	40.2	31.3	38.4	40.4	37.6
5	DBW303(C)	101	37.2	32.9	42.8	40.8	38.4
6	DBW332(I)(C)	102	43.6	38.1	37.7	41.9	40.3
7	DBW327(I)(C)	103	41.5	38.6	43.6	37.2	40.2
8	HD3086(C)	105	45	39.7	42.3	43.4	42.6
9	DBW187(C)	107	42.2	31.2	37.4	37.6	37.1
10	PBW868	104	42.3	32.5	33.4	30.8	34.8
11	PBW871	106	41.4	41.1	41.8	42.8	41.8
12	DBW373	109	45.3	37.5	36.8	43	40.7
13	DBW318	110	40	37.1	46.7	42.7	41.6
Mean			42.4	36.6	40.6	40.2	40.0

Table 52: Grain zinc content (ppm) of *T. aestivum* genotypes of HYPT NWPZ trial

S. No.	Entries	Code	Ludhiana	Hisar	Karnal	Delhi	Mean
1	PBW872*	108		49	31.8	41.2	40.7
2	DBW371*	111		38.1	29.7	45.2	37.7
3	DBW370*	112		42.2	30.5	47.0	39.9
4	DBW372#*	113		41.7	31.8	48.9	40.8
5	DBW303(C)	101		46.4	36.7	47.4	43.5
6	DBW332(I)(C)	102		48.6	29.3	49.0	42.3
7	DBW327(I)(C)	103		47.1	31.3	40.2	39.5
8	HD3086(C)	105		49.3	35.4	51.1	45.3
9	DBW187(C)	107		35.7	32.0	41.8	36.5
10	PBW868	104		43.9	26.4	41.0	37.1
11	PBW871	106		43.6	31.5	50.1	41.7
12	DBW373	109		46.2	28.2	52.7	42.4
13	DBW318	110		46.7	36.1	48.1	43.6
Mean				44.5	31.6	46.4	40.8

- In HYPT NWPZ grain zinc content showed exceptionally high value. Therefore data were excluded.

Table 53: Grain appearance score (Max-10) of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	6.0	5.4	6.2	5.9
2	DBW371*	111	6.0	5.8	6.2	6.0
3	DBW370*	112	5.6	5.4	5.4	5.5
4	DBW372#*	113	5.4	5.6	5.4	5.5
5	DBW303(C)	101	6.0	5.6	5.6	5.7
6	DBW332(I)(C)	102	5.6	5.6	5.8	5.7
7	DBW327(I)(C)	103	5.8	5.8	6.4	6.0
8	HD3086(C)	105	5.8	5.8	5.6	5.7
9	DBW187(C)	107	5.8	5.6	5.8	5.7
10	PBW868	104	5.6	5.6	5.8	5.7
11	PBW871	106	5.6	5.8	6.2	5.9
12	DBW373	109	5.6	5.4	5.6	5.5
13	DBW318	110	6.0	5.6	5.6	5.7
Mean			5.8	5.6	5.8	5.7

Table 54: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	76.3	75.8	81.8	78.0
2	DBW371*	111	76.9	77.1	80.9	78.3
3	DBW370*	112	75.3	74.8	80.9	77.0
4	DBW372#*	113	74.8	77.1	78.1	76.7
5	DBW303(C)	101	78.4	78.4	82.5	79.8
6	DBW332(I)(C)	102	75.2	75.4	80.4	77.0
7	DBW327(I)(C)	103	75.9	76.8	81.7	78.1
8	HD3086(C)	105	75.2	77.0	81.7	78.0
9	DBW187(C)	107	77.1	77.2	81.3	78.5
10	PBW868	104	73.0	74.2	78.6	75.3
11	PBW871	106	75.9	77.1	80.0	77.7
12	DBW373	109	76.1	75.8	79.7	77.2
13	DBW318	110	77.3	77.3	81.6	78.7
Mean			76.0	76.5	80.7	77.7

Table 55: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	11.3	10.4	9.4	10.4
2	DBW371*	111	11.6	10.0	9.6	10.4
3	DBW370*	112	11.4	10.3	9.3	10.4
4	DBW372#*	113	11.7	10.7	9.3	10.5
5	DBW303(C)	101	11.2	10.7	9.8	10.5
6	DBW332(I)(C)	102	10.7	10.6	9.9	10.4
7	DBW327(I)(C)	103	11.4	10.1	9.7	10.4
8	HD3086(C)	105	11.7	10.8	9.3	10.6
9	DBW187(C)	107	10.9	9.9	9.2	10.0
10	PBW868	104	11.4	10.1	9.3	10.3
11	PBW871	106	11.6	11.2	10.1	11.0
12	DBW373	109	10.2	10.5	9.2	10.0
13	DBW318	110	12.1	10.9	9.2	10.7
Mean			11.3	10.5	9.5	10.4

Table 56: Sedimentation value (ml) of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	54.2	48.8	42.3	48.4
2	DBW371*	111	55.7	49.6	46.5	50.6
3	DBW370*	112	55.0	44.6	43.0	47.5
4	DBW372#*	113	57.7	45.7	45.0	49.5
5	DBW303(C)	101	55.7	49.6	48.0	51.1
6	DBW332(I)(C)	102	60.8	56.1	48.0	55.0
7	DBW327(I)(C)	103	56.1	49.6	42.3	49.3
8	HD3086(C)	105	56.1	50.7	42.7	49.8
9	DBW187(C)	107	55.4	54.2	50.0	53.2
10	PBW868	104	56.9	43.4	43.8	48.0
11	PBW871	106	56.5	51.5	50.4	52.8
12	DBW373	109	56.9	51.5	43.0	50.5
13	DBW318	110	50.4	43.8	41.9	45.4
Mean			56.0	49.2	45.1	50.1

Table 57: Hardness index of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108				
2	DBW371*	111				
3	DBW370*	112				
4	DBW372#*	113				
5	DBW303(C)	101				
6	DBW332(I)(C)	102				
7	DBW327(I)(C)	103				
8	HD3086(C)	105				
9	DBW187(C)	107				
10	PBW868	104				
11	PBW871	106				
12	DBW373	109				
13	DBW318	110				
Mean						

Table 58: Phenol test score (Max-10) of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	7.0	5.5	6.0	6.2
2	DBW371*	111	3.5	4.0	4.0	3.8
3	DBW370*	112	4.0	4.5	4.0	4.2
4	DBW372#*	113	6.0	5.0	5.5	5.5
5	DBW303(C)	101	5.0	5.5	5.5	5.3
6	DBW332(I)(C)	102	4.5	4.5	5.0	4.7
7	DBW327(I)(C)	103	6.5	5.5	5.5	5.8
8	HD3086(C)	105	7.0	6.5	6.0	6.5
9	DBW187(C)	107	7.0	7.0	7.0	7.0
10	PBW868	104	4.5	3.0	3.0	3.5
11	PBW871	106	7.5	7.0	7.0	7.2
12	DBW373	109	7.5	6.5	7.0	7.0
13	DBW318	110	5.5	4.5	4.5	4.8
Mean			5.8	5.3	5.4	5.5

Table 59: Grain iron content (ppm) of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	39.9	35.0	29.9	34.9
2	DBW371*	111	41.6	43.6	35.0	40.1
3	DBW370*	112	37.7	35.5	28.0	33.7
4	DBW372#*	113	39.2	34.7	26.6	33.5
5	DBW303(C)	101	38.3	32.6	35.4	35.4
6	DBW332(I)(C)	102	38.5	37.5	33.1	36.4
7	DBW327(I)(C)	103	35.2	31.7	36.4	34.4
8	HD3086(C)	105	41.9	36.6	35.2	37.9
9	DBW187(C)	107	36.7	34.8	33.0	34.8
10	PBW868	104	39.6	29.5	33.9	34.3
11	PBW871	106	45.0	33.9	34.9	37.9
12	DBW373	109	40.2	37.8	29.2	35.7
13	DBW318	110	40.5	35.2	31.4	35.7
Mean			39.6	35.3	32.5	35.8

Table 60: Grain zinc content (ppm) of *T. aestivum* genotypes of HYPT NEPZ trial

S. No.	Entries	Code	BISA-Pusa	Sabour	Varanasi	Mean
1	PBW872*	108	42.0	29.0	32.3	34.4
2	DBW371*	111	35.6	28.5	34.8	33.0
3	DBW370*	112	33.7	26.4	27.8	29.3
4	DBW372#*	113	39.3	28.0	27.9	31.7
5	DBW303(C)	101	37.2	32.0	40.6	36.6
6	DBW332(I)(C)	102	30.8	24.9	34.8	30.2
7	DBW327(I)(C)	103	36.8	28.5	33.1	32.8
8	HD3086(C)	105	39.1	31.3	29.4	33.3
9	DBW187(C)	107	30.4	26.4	31.0	29.3
10	PBW868	104	39.1	24.3	34.3	32.6
11	PBW871	106	40.4	24.7	33.4	32.8
12	DBW373	109	38.0	34.6	33.1	35.2
13	DBW318	110	42.3	35.7	32.6	36.9
Mean			37.3	28.8	32.7	32.9

Table 61: Grain appearance score (Max-10) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	5.6	6.0	6.0	6.4	6.0
2	GW322(C)	202	5.6	5.8	6.4	6.2	6.0
3	DBW303(C)	203	5.8	5.8	6.6	6.6	6.2
4	DBW187(C)	206	5.8	6.2	6.4	6.4	6.2
5	HD3086(C)	207	6.4	6.2	6.8	7.0	6.6
6	DBW377	201	5.4	5.4	6.8	5.6	5.8
7	PBW870	204	5.2	5.2	6.6	6.4	5.9
Mean			5.7	5.8	6.5	6.4	6.1

Table 62: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	81.4	80.2	82.2	81.6	81.4
2	GW322(C)	202	81.5	80.6	82.6	82.0	81.7
3	DBW303(C)	203	81.8	82.3	84.0	82.9	82.8
4	DBW187(C)	206	81.4	81.6	81.8	80.5	81.3
5	HD3086(C)	207	81.2	80.8	82.8	81.6	81.6
6	DBW377	201	79.1	78.5	81.1	80.3	79.8
7	PBW870	204	75.4	74.1	78.4	79.2	76.8
Mean			80.3	79.7	81.8	81.2	80.7

Table 63: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	11.0	10.9	10.8	12.5	11.3
2	GW322(C)	202	9.5	10.5	10.3	11.6	10.5
3	DBW303(C)	203	10.6	10.5	11.0	12.6	11.2
4	DBW187(C)	206	10.6	9.5	11.8	13.5	11.4
5	HD3086(C)	207	10.8	10.6	11.7	12.7	11.5
6	DBW377	201	10.3	11.7	11.7	12.5	11.5
7	PBW870	204	11.9	11.9	10.4	12.7	11.7
Mean			10.7	10.8	11.1	12.6	11.3

Table 64: Sedimentation value (ml) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	47.7	45.7	50.0	58.1	50.4
2	GW322(C)	202	39.6	36.1	40.0	42.3	39.5
3	DBW303(C)	203	49.6	45.0	49.6	49.6	48.4
4	DBW187(C)	206	48.0	51.9	60.0	66.9	56.7
5	HD3086(C)	207	56.1	48.8	57.3	66.5	57.2
6	DBW377	201	51.5	47.7	52.3	62.3	53.4
7	PBW870	204	40.3	40.7	40.0	40.0	40.3
Mean			47.6	45.1	49.9	55.1	49.4

Table 65: Hardness index of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	87				87
2	GW322(C)	202	83				83
3	DBW303(C)	203	80				80
4	DBW187(C)	206	83				83
5	HD3086(C)	207	87				87
6	DBW377	201	76				76
7	PBW870	204	94				94
Mean			84				84

Table 66: Phenol test score (Max-10) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	4.5	5.0	5.0	5.5	5.0
2	GW322(C)	202	5.5	5.0	5.5	5.5	5.4
3	DBW303(C)	203	5.5	5.0	5.0	6.0	5.4
4	DBW187(C)	206	5.5	6.0	6.0	6.5	6.0
5	HD3086(C)	207	5.5	5.0	5.5	5.5	5.4
6	DBW377	201	7.0	6.0	6.5	6.5	6.5
7	PBW870	204	5.0	4.0	6.5	5.0	5.1
Mean			5.5	5.1	5.7	5.8	5.5

Table 67: Grain iron content (ppm) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	42.4	38.3	30.0	33.9	36.2
2	GW322(C)	202	34.6	35.3	31.8	35.1	34.2
3	DBW303(C)	203	41.7	34.7	33.9	34.4	36.2
4	DBW187(C)	206	42.1	32.8	34.1	37.2	36.6
5	HD3086(C)	207	40.6	38.1	30.7	40.1	37.4
6	DBW377	201	40.1	39.2	36.3	35.2	37.7
7	PBW870	204	40.1	35.6	33.0	36.7	36.4
Mean			40.2	36.3	32.8	36.1	36.4

Table 68: Grain zinc content (ppm) of *T. aestivum* genotypes of HYPT CZ trial

S. No.	Entries	Code	Indore	P.kheda	Vijapur	Junagarh	Mean
1	DBW372#*	205	34.6	41.5	34.6	42.3	38.3
2	GW322(C)	202	30.6	45.0	48.6	38.1	40.6
3	DBW303(C)	203	33.3	35.8	42.4	42.4	38.5
4	DBW187(C)	206	32.2	32.8	39.4	37.6	35.5
5	HD3086(C)	207	30.6	40.8	39.1	43.3	38.5
6	DBW377	201	30.5	37.3	42.0	35.7	36.4
7	PBW870	204	32.8	35.3	39.2	37.4	36.2
Mean			32.1	38.4	40.8	39.5	37.7

Table 69 : Grain appearance score (Max-10) of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	5.4	5.2	5.8	5.5
2	GW322(C)	202	5.4	5.4	5.8	5.5
3	DBW303(C)	203	5.4	5.4	5.2	5.3
4	DBW187(C)	206	5.2	5.2	5.2	5.2
5	HD3086(C)	207	5.6	5.6	6.0	5.7
6	DBW377	201	5.0	5.2	5.0	5.1
7	PBW870	204	5.4	5.0	5.8	5.4
Mean			5.3	5.3	5.5	5.4

Table 70: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	78.9	76.7	81.4	79.0
2	GW322(C)	202	78.9	75.9	82.0	78.9
3	DBW303(C)	203	80.6	77.1	81.4	79.7
4	DBW187(C)	206	78.6	76.0	81.3	78.6
5	HD3086(C)	207	81.2	76.0	81.3	79.5
6	DBW377	201	77.6	73.0	80.9	77.2
7	PBW870	204	75.1	72.7	78.5	75.4
Mean			78.7	75.3	81.0	78.3

Table 71: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	14.1	13.3	10.4	12.6
2	GW322(C)	202	11.9	11.4	10.5	11.3
3	DBW303(C)	203	13.2	12.9	11.0	12.3
4	DBW187(C)	206	14.3	13.8	11.0	13.0
5	HD3086(C)	207	13.5	12.9	11.3	12.6
6	DBW377	201	14.5	13.0	9.9	12.5
7	PBW870	204	13.9	13.2	10.2	12.4
Mean			13.6	12.9	10.6	12.4

Table 72: Sedimentation value (ml) of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	60.0	61.1	48.4	56.5
2	GW322(C)	202	42.3	40.0	44.6	42.3
3	DBW303(C)	203	62.3	50.0	48.4	53.6
4	DBW187(C)	206	68.1	63.1	66.9	66.0
5	HD3086(C)	207	63.8	55.4	55.4	58.2
6	DBW377	201	55.7	61.5	51.1	56.1
7	PBW870	204	44.6	43.8	43.8	44.1
Mean			56.7	53.5	51.2	53.8

Table 73: Hardness index of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205				
2	GW322(C)	202				
3	DBW303(C)	203				
4	DBW187(C)	206				
5	HD3086(C)	207				
6	DBW377	201				
7	PBW870	204				
Mean						

Table 74: Phenol test score (Max-10) of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	7.0	6.0	5.0	6.0
2	GW322(C)	202	6.5	6.5	5.5	6.2
3	DBW303(C)	203	7.5	6.0	5.0	6.2
4	DBW187(C)	206	9.0	7.0	6.0	7.3
5	HD3086(C)	207	7.0	8.0	7.0	7.3
6	DBW377	201	7.5	9.0	5.5	7.3
7	PBW870	204	6.0	6.0	5.0	5.7
Mean			7.2	6.9	5.6	6.6

Table 75: Grain iron content (ppm) of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	36.2	41.2	35.4	37.6
2	GW322(C)	202	33.3	34.7	34.9	34.3
3	DBW303(C)	203	32.4	34.2	35.3	34.0
4	DBW187(C)	206	35.6	38.9	39.7	38.1
5	HD3086(C)	207	35.9	38.7	38.0	37.5
6	DBW377	201	38.5	39.7	35.7	38.0
7	PBW870	204	35.1	40.2	34.4	36.6
Mean			35.3	38.2	36.2	36.6

Table 76: Grain zinc content (ppm) of *T. aestivum* genotypes of HYPT PZ trial

S. No.	Entries	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	32.7	37.7	34.1	34.8
2	GW322(C)	202	27.8	32.6	42.0	34.1
3	DBW303(C)	203	30.8	30.7	34.3	31.9
4	DBW187(C)	206	32.0	33.8	38.2	34.7
5	HD3086(C)	207	29.7	31.4	42.5	34.5
6	DBW377	201	30.9	31.8	36.0	32.9
7	PBW870	204	31.7	32.9	38.5	34.4
Mean			30.8	33.0	37.9	33.9

Marker Assisted Backcross Breeding (MABB)

Table 77: Grain appearance score (Max-10) of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	4.0	5.4	5.0	5.6	5.0	5.0
2	HD2967 (C)	4.0	4.8	5.0	5.6	5.0	4.9
3	DBW187 (C)	5.4	6.0	5.0	5.8	5.8	5.6
4	DBW222 (C)	4.2	5.4	5.2	5.2	5.0	5.0
5	PBW677 (C)	5.4	5.4	5.0	5.8	5.4	5.4
6	PBW175 (C)	6.8	5.8	5.2	6.4	6.2	6.1
7	HD3436	5.0	5.0	5.2	5.2	5.4	5.2
8	HD3437	5.0	5.6	5.4	5.6	5.4	5.4
9	PBW901	6.8	5.8	5.4	6.2	6.2	6.1
10	PBW902	5.2	5.6	5.6	6.0	5.2	5.5
Mean		5.2	5.5	5.2	5.7	5.5	5.4

Table 78: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	74.5	75.2	75.0	76.5	75.3	75.3
2	HD2967 (C)	75.4	73.5	74.8	76.3	76.4	75.3
3	DBW187 (C)	79.8	76.5	73.0	78.6	79.3	77.4
4	DBW222 (C)	77.4	73.8	73.0	77.7	74.7	75.3
5	PBW677 (C)	78.3	76.9	73.7	79.9	78.3	77.4
6	PBW175 (C)	80.9	78.2	73.0	81.5	81.0	78.9
7	HD3436	74.1	72.9	72.9	74.4	75.2	73.9
8	HD3437	77.1	78.2	76.3	77.7	75.7	77.0
9	PBW901	80.8	78.8	76.2	80.8	80.5	79.4
10	PBW902	79.1	78.8	79.0	81.1	77.5	79.1
Mean		77.7	76.3	74.7	78.5	77.4	76.9

Table 79: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	11.1	11.8	12.8	12.9	11.3	12.0
2	HD2967 (C)	10.8	11.5	11.9	12.7	9.9	11.4
3	DBW187 (C)	11.2	11.3	13.6	12.6	10.8	11.9
4	DBW222 (C)	10.3	11.8	11.1	12.4	12.0	11.5
5	PBW677 (C)	12.0	12.7	13.2	12.9	11.0	12.4
6	PBW175 (C)	11.1	11.7	11.4	12.6	12.4	11.8
7	HD3436	10.9	11.4	12.0	11.4	10.1	11.2
8	HD3437	11.6	12.6	12.5	13.2	12.1	12.4
9	PBW901	11.6	12.2	12.7	13.4	11.5	12.3
10	PBW902	10.4	12.0	11.8	12.4	11.1	11.5
Mean		11.1	11.9	12.3	12.7	11.2	11.8

Table 80: Sedimentation value (ml) of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	50.0	59.2	50.4	55.4	48.0	52.6
2	HD2967 (C)	47.3	49.6	43.0	53.4	48.4	48.4
3	DBW187 (C)	63.1	62.7	66.9	65.0	57.3	63.0
4	DBW222 (C)	47.7	56.5	48.8	51.5	59.6	52.8
5	PBW677 (C)	51.5	52.3	51.1	49.6	56.1	52.1
6	PBW175 (C)	40.7	45.0	38.0	43.4	46.9	42.8
7	HD3436	50.7	50.7	45.0	51.1	52.7	50.1
8	HD3437	48.4	55.4	46.5	50.7	51.5	50.5
9	PBW901	38.8	41.9	36.5	40.0	39.6	39.3
10	PBW902	55.4	53.4	48.0	53.4	47.7	51.6
Mean		49.4	52.7	47.4	51.4	50.8	50.3

Table 81: Hardness index of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	77					77
2	HD2967 (C)	79					79
3	DBW187 (C)	77					77
4	DBW222 (C)	80					80
5	PBW677 (C)	82					82
6	PBW175 (C)	77					77
7	HD3436	79					79
8	HD3437	82					82
9	PBW901	80					80
10	PBW902	82					82
Mean		80					80

Table 82: Phenol test score (Max-10) of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	4.5	6.5	6.5	7.0	6.0	6.1
2	HD2967 (C)	5.0	5.5	6.0	5.5	5.5	5.5
3	DBW187 (C)	6.5	7.5	8.0	7.0	8.0	7.4
4	DBW222 (C)	8.0	7.0	8.0	6.5	7.0	7.3
5	PBW677 (C)	5.0	5.0	5.5	5.0	5.0	5.1
6	PBW175 (C)	1.0	3.5	3.0	2.0	3.5	2.6
7	HD3436	3.0	5.0	5.0	5.0	5.0	4.6
8	HD3437	1.5	3.0	3.0	3.0	3.0	2.7
9	PBW901	2.0	3.5	2.0	3.0	2.5	2.6
10	PBW902	5.0	7.0	8.0	6.0	7.0	6.6
Mean		4.2	5.4	5.5	5.0	5.3	5.1

Table 83: Grain iron content (ppm) of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	31.8	34.7	29.4	37.3	40.0	34.6
2	HD2967 (C)	36.0	30.7	34.2	40.3	37.5	35.7
3	DBW187 (C)	37.1	33.7	36.0	33.0	46.1	37.2
4	DBW222 (C)	34.5	30.1	31.0	35.0	37.4	33.6
5	PBW677 (C)	37.2	40.4	36.8	38.6	47.1	40.0
6	PBW175 (C)	37.2	34.6	33.2	43.2	44.1	38.5
7	HD3436	36.9	33.6	34.6	41.5	36.9	36.7
8	HD3437	36.7	35.3	31.9	40.1	41.7	37.1
9	PBW901	38.8	38.3	36.1	38.0	41.0	38.4
10	PBW902	42.3	38.3	38.6	39.1	34.8	38.6
Mean		36.9	35.0	34.2	38.6	40.7	37.1

Table 84: Grain zinc content (ppm) of *T. aestivum* genotypes of MABB NWPZ trial

S. No.	Entries	Karnal	Ludhiana	Hisar	Delhi	Pantnagar	Mean
1	HD 3406*	30.1	39.5	42.4	52.7	30.0	38.9
2	HD2967 (C)	33.6	36.6	54.5	52.0	29.5	41.2
3	DBW187 (C)	33.7	43.0	40.0	51.4	28.0	39.2
4	DBW222 (C)	28.9	40.4	42.5	47.7	30.2	37.9
5	PBW677 (C)	34.1	52.7	50.9	54.0	30.7	44.5
6	PBW175 (C)	36.9	47.7	51.6	54.8	46.7	47.5
7	HD3436	32.9	40.2	45.4	44.3	30.2	38.6
8	HD3437	32.5	37.6	44.0	45.3	29.2	37.7
9	PBW901	35.3	46.1	40.2	50.8	40.0	42.5
10	PBW902	41.9	41.4	34.6	47.1	29.9	39.0
Mean		34.0	42.5	44.6	50.0	32.4	40.7

Table 85: Grain appearance score (Max-10) of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	4.8	5.0	4.9
2	HD3411*	5.0	5.6	5.3
3	HD3249 (C)	5.0	5.6	5.3
4	DBW187 (C)	5.4	5.6	5.5
5	HD3086 (C)	5.4	5.6	5.5
6	HD2967 (C)	4.8	5.2	5.0
7	HD2733 (C)	5.2	5.6	5.4
8	HD3436	5.2	5.2	5.2
9	HD3437	5.0	5.2	5.1
10	HD3440	5.0	5.6	5.3
Mean		5.1	5.4	5.3

Table 86: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	69.2	75.6	72.4
2	HD3411*	72.2	77.6	74.9
3	HD3249 (C)	74.1	79.0	76.6
4	DBW187 (C)	74.1	79.6	76.9
5	HD3086 (C)	74.0	78.5	76.3
6	HD2967 (C)	68.7	77.4	73.1
7	HD2733 (C)	73.4	78.7	76.1
8	HD3436	67.3	73.9	70.6
9	HD3437	69.5	77.2	73.4
10	HD3440	69.2	74.6	71.9
Mean		71.2	77.2	74.2

Table 87: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	13.3	10.2	11.7
2	HD3411*	12.8	11.3	12.0
3	HD3249 (C)	11.8	9.8	10.8
4	DBW187 (C)	11.4	9.7	10.6
5	HD3086 (C)	12.1	9.8	10.9
6	HD2967 (C)	13.5	10.8	12.1
7	HD2733 (C)	12.1	10.7	11.4
8	HD3436	12.2	10.2	11.2
9	HD3437	13.3	10.7	12.0
10	HD3440	12.1	10.8	11.4
Mean		12.4	10.4	11.4

Table 88: Sedimentation value (ml) of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	57.3	48.0	52.7
2	HD3411*	51.1	49.6	50.4
3	HD3249 (C)	57.3	51.5	54.4
4	DBW187 (C)	57.7	49.6	53.6
5	HD3086 (C)	61.1	43.4	52.3
6	HD2967 (C)	64.2	47.3	55.7
7	HD2733 (C)	45.7	40.7	43.2
8	HD3436	65.0	46.9	55.9
9	HD3437	68.8	45.7	57.3
10	HD3440	53.4	47.7	50.5
Mean		58.2	47.0	52.6

Table 89: Hardness index of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*		74	74
2	HD3411*		81	81
3	HD3249 (C)		72	72
4	DBW187 (C)		73	73
5	HD3086 (C)		85	85
6	HD2967 (C)		76	76
7	HD2733 (C)		77	77
8	HD3436		77	77
9	HD3437		80	80
10	HD3440		77	77
Mean			77	77

Table 90: Phenol test score (Max-10) of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	4.5	5.0	4.8
2	HD3411*	4.0	4.0	4.0
3	HD3249 (C)	5.5	6.0	5.8
4	DBW187 (C)	6.0	6.5	6.3
5	HD3086 (C)	5.5	5.5	5.5
6	HD2967 (C)	6.0	6.0	6.0
7	HD2733 (C)	5.0	5.0	5.0
8	HD3436	4.5	5.0	4.8
9	HD3437	4.0	4.0	4.0
10	HD3440	5.5	5.0	5.3
Mean		5.1	5.2	5.1

Table 91: Grain iron content (ppm) of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	33.2	33.0	33.1
2	HD3411*	33.6	35.3	34.5
3	HD3249 (C)	38.0	31.9	35.0
4	DBW187 (C)	39.7	35.5	37.6
5	HD3086 (C)	35.3	38.1	36.7
6	HD2967 (C)	35.0	35.1	35.1
7	HD2733 (C)	29.5	29.8	29.7
8	HD3436	36.0	35.5	35.8
9	HD3437	33.8	33.8	33.8
10	HD3440	34.5	34.2	34.4
Mean		34.9	34.2	34.5

Table 92: Grain zinc content (ppm) of *T. aestivum* genotypes of MABB NEPZ trial

S. No.	Entries	Sabour	Varanasi	Mean
1	HD3406*	23.3	32.8	28.1
2	HD3411*	26.5	40.8	33.7
3	HD3249 (C)	25.0	33.8	29.4
4	DBW187 (C)	25.1	35.1	30.1
5	HD3086 (C)	25.2	36.0	30.6
6	HD2967 (C)	27.5	37.2	32.4
7	HD2733 (C)	25.4	32.7	29.1
8	HD3436	27.3	31.1	29.2
9	HD3437	29.9	34.1	32.0
10	HD3440	33.4	40.2	36.8
Mean		26.9	35.4	31.1

Table 93: Grain appearance score (Max-10) of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	7.0	8.2	7.2	8.2	7.7
2	HI8713 (C)	6.0	7.0	6.0	7.8	6.7
3	HI8737 (C)	6.4	7.8	6.8	8.2	7.3
4	HI8759 (C)	6.8	7.8	6.6	7.6	7.2
5	HI8846	7.0	7.6	6.4	7.2	7.1
6	HI8847	6.8	7.6	6.4	7.0	7.0
Mean		6.7	7.7	6.6	7.7	7.1
ILS (TAS)						
1	HD3407*	5.2	6.4	5.4	5.4	5.6
2	HD2932 (C)	5.6	6.8	6.2	5.6	6.1
3	HD2864 (C)	5.8	6.4	5.8	5.4	5.9
4	MP3336 (C)	5.6	6.8	6.4	6.4	6.3
5	CG1029 (C)	5.8	7.0	6.4	6.4	6.4
6	HI1634 (C)	5.8	7.2	6.2	6	6.3
7	HD3438	5.8	6.8	6.0	6.2	6.2
8	HD3439	5.6	6.6	5.4	5.6	5.8
Mean		5.7	6.8	6.0	5.9	6.1

Table 94: Hectolitre weight (Kg/hl) of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	84.1	84.6	84.3	83.5	84.1
2	HI8713 (C)	83.8	83.4	82.3	83.3	83.2
3	HI8737 (C)	84.1	84.9	83.9	84.3	84.3
4	HI8759 (C)	85.1	85.1	84.2	84.4	84.7
5	HI8846	82.9	83.9	83.7	83.3	83.5
6	HI8847	82.7	82.5	82.3	83.1	82.7
Mean		83.8	84.1	83.5	83.7	83.7
ILS (TAS)						
1	HD3407*	76.5	81.0	78.6	79.9	79.0
2	HD2932 (C)	78.4	81.7	78.0	80.7	79.7
3	HD2864 (C)	81.2	83.7	82.4	83.3	82.7
4	MP3336 (C)	81.3	83.2	81.9	83.3	82.4
5	CG1029 (C)	81.1	83.2	81.0	83.3	82.2
6	HI1634 (C)	79.8	82.8	81.1	82.5	81.6
7	HD3438	76.2	80.5	78.1	79.7	78.6
8	HD3439	75.6	80.0	77.2	79.3	78.0
Mean		78.8	82.0	79.8	81.5	80.5

Table 95: Protein content (%) at 12% moisture basis of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	11.9	12.2	11.0	11.2	11.6
2	HI8713 (C)	10.5	11.8	8.8	10.4	10.4
3	HI8737 (C)	11.3	12.3	10.0	11.4	11.2
4	HI8759 (C)	10.0	11.9	10.2	10.9	10.8
5	HI8846	11.9	12.7	10.4	11.5	11.6
6	HI8847	11.7	12.2	10.2	11.5	11.4
Mean		11.2	12.2	10.1	11.2	11.2
ILS (TAS)						
1	HD3407*	13.0	12.9	10.7	11.0	11.9
2	HD2932 (C)	12.9	12.8	10.9	10.1	11.7
3	HD2864 (C)	11.4	12.0	10.5	10.5	11.1
4	MP3336 (C)	11.8	12.6	11.6	11.7	11.9
5	CG1029 (C)	11.4	12.0	10.5	10.6	11.1
6	HI1634 (C)	12.4	12.7	10.7	10.8	11.6
7	HD3438	12.0	12.8	10.9	10.8	11.6
8	HD3439	13.1	13.2	11.6	11.2	12.3
Mean		12.2	12.6	10.9	10.8	11.7

Table 96: Sedimentation value (ml) of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	35.9	37.1	32.1	37.8	35.7
2	HI8713 (C)	27.1	28.3	25.2	26.4	26.8
3	HI8737 (C)	35.9	34.0	32.1	35.9	34.5
4	HI8759 (C)	30.2	32.9	28.3	35.9	31.8
5	HI8846	34.0	35.2	32.1	35.9	34.3
6	HI8847	35.9	34.8	30.2	35.5	34.1
Mean		33.2	33.7	30.0	34.6	32.9
ILS (TAS)						
1	HD3407*	53.1	47.4	45.5	51.2	49.3
2	HD2932 (C)	53.1	49.3	46.6	47.8	49.2
3	HD2864 (C)	45.5	41.6	37.8	43.6	42.1
4	MP3336 (C)	41.6	39.7	35.9	24.5	35.4
5	CG1029 (C)	39.7	37.8	34.8	35.9	37.1
6	HI1634 (C)	49.3	45.5	39.7	41.6	44.0
7	HD3438	50.4	47.4	43.9	47.4	47.3
8	HD3439	56.9	49.3	47.4	47.4	50.2
Mean		48.7	44.8	41.5	42.4	44.3

Table 97: Hardness index of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)				88	88
2	HI8713 (C)				95	95
3	HI8737 (C)				93	93
4	HI8759 (C)				89	89
5	HI8846				95	95
6	HI8847				87	87
Mean					91	91
ILS (TAS)						
1	HD3407*				86	86
2	HD2932 (C)				82	82
3	HD2864 (C)				75	75
4	MP3336 (C)				84	84
5	CG1029 (C)				72	72
6	HI1634 (C)				96	96
7	HD3438				83	83
8	HD3439				92	92
Mean					84	84

Table 98: Phenol test score (Max-10) of *T. aestivum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)					
2	HI8713 (C)					
3	HI8737 (C)					
4	HI8759 (C)					
5	HI8846					
6	HI8847					
Mean						
ILS (TAS)						
1	HD3407*	2.5	2.0	2.5	2.0	2.3
2	HD2932 (C)	2.5	2.5	2.0	2.0	2.3
3	HD2864 (C)	2.0	2.0	2.5	2.0	2.1
4	MP3336 (C)	2.0	1.0	2.0	2.5	1.9
5	CG1029 (C)	4.0	5.0	5.5	5.5	5.0
6	HI1634 (C)	4.5	4.5	4.5	6.0	4.9
7	HD3438	2.5	2.0	2.0	2.0	2.1
8	HD3439	2.5	2.5	3.0	2.0	2.5
Mean		2.8	2.7	3.0	3.0	2.9

Table 99: Grain iron content (ppm) of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	34.6	35.6	40.0	37.0	36.8
2	HI8713 (C)	31.2	35.4	37.2	37.9	35.4
3	HI8737 (C)	34.5	37.9	40.3	38.9	37.9
4	HI8759 (C)	35.4	37.9	38.4	42.1	38.5
5	HI8846	34.6	37.0	34.7	40.4	36.7
6	HI8847	34.3	32.1	36.2	37.5	35.0
Mean		34.1	36.0	37.8	39.0	36.7
ILS (TAS)						
1	HD3407*	35.7	35.3	35.4	35.0	35.4
2	HD2932 (C)	31.4	32.6	33.2	35.5	33.2
3	HD2864 (C)	31.8	33.6	35.7	37.4	34.6
4	MP3336 (C)	34.7	38.5	38.0	39.3	37.6
5	CG1029 (C)	36.5	32.0	36.3	40.4	36.3
6	HI1634 (C)	34.2	37.1	40.3	47.1	39.7
7	HD3438	35.4	30.5	36.4	35.8	34.5
8	HD3439	36.0	31.1	36.3	34.8	34.6
Mean		34.5	33.8	36.5	38.2	35.7

Table 100: Grain zinc content (ppm) of *T. aestivum* and *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	52.5	38.2	42.7	39.3	43.2
2	HI8713 (C)	41.8	37.1	37.4	37.8	38.5
3	HI8737 (C)	49.2	41.9	29.0	39.8	40.0
4	HI8759 (C)	45.9	38.4	39.3	39.9	40.9
5	HI8846	48.3	40.4	41.1	37.7	41.9
6	HI8847	51.0	40.6	44.2	38.4	43.6
Mean		48.1	39.4	39.0	38.8	41.3
ILS (TAS)						
1	HD3407*	42.2	37.9	30.1	31.5	35.4
2	HD2932 (C)	39.8	34.2	34.1	33.2	35.3
3	HD2864 (C)	40.5	38.6	37.6	36.9	38.4
4	MP3336 (C)	43.3	43.6	42.9	37.5	41.8
5	CG1029 (C)	44.3	33.8	37.9	31.7	36.9
6	HI1634 (C)	44.4	38.8	36.6	39.3	39.8
7	HD3438	40.1	34.9	32.6	30.1	34.4
8	HD3439	39.7	33.8	32.1	32.5	34.5
Mean		41.8	37.0	35.5	34.1	37.1

Table 101: Yellow pigment (ppm) of *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	5.2	5.2	4.4	3.9	4.7
2	HI8713 (C)	7.1	7.8	5.9	6.1	6.7
3	HI8737 (C)	5.2	5.8	5.4	5.1	5.4
4	HI8759 (C)	7.1	7.5	6.6	6.5	6.9
5	HI8846	5.6	5.9	5.6	4.2	5.3
6	HI8847	4.8	5.1	4.5	3.7	4.5
Mean		5.8	6.2	5.4	4.9	5.6
ILS (TAS)						
1	HD3407*					
2	HD2932 (C)					
3	HD2864 (C)					
4	MP3336 (C)					
5	CG1029 (C)					
6	HI1634 (C)					
7	HD3438					
8	HD3439					
Mean						

Table 102: Yellow berry (%) of *T. durum* genotypes of MABB CZ trial

S. No.	Entries	Vijapur	Junagarh	Powarkheda	Indore	Mean
ITS (TDM)						
1	HI8498 (C)	10	10	20	20	15.0
2	HI8713 (C)	40	10	60	20	32.5
3	HI8737 (C)	20	10	40	10	20.0
4	HI8759 (C)	10	10	20	0	10.0
5	HI8846	10	10	30	10	15.0
6	HI8847	10	20	50	15	23.8
Mean		16.7	11.7	36.7	12.5	19.4
ILS (TAS)						
1	HD3407*					
2	HD2932 (C)					
3	HD2864 (C)					
4	MP3336 (C)					
5	CG1029 (C)					
6	HI1634 (C)					
7	HD3438					
8	HD3439					
Mean						

Table 103: Grain appearance score (Max-10) of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	5.4	5.0	6.2	5.5
2	HD2932 (C)	5.2	5.0	6.0	5.4
3	HD3090 (C)	5.6	5.0	5.8	5.5
4	HI1633 (C)	5.6	5.0	6.0	5.5
5	HD3438	5.8	5.0	5.6	5.5
6	HD3439	5.8	5.0	5.4	5.4
Mean		5.6	5.0	5.8	5.5

Table 104: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	78.6	77.1	81.0	78.9
2	HD2932 (C)	78.9	73.6	80.7	77.7
3	HD3090 (C)	78.5	75.1	81.0	78.2
4	HI1633 (C)	78.8	77.6	83.1	79.8
5	HD3438	78.9	74.8	80.7	78.1
6	HD3439	80.9	74.0	80.5	78.5
Mean		79.1	75.4	81.2	78.5

Table 105: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	11.8	12.9	11.2	12.0
2	HD2932 (C)	11.4	13.5	10.8	11.9
3	HD3090 (C)	12.3	13.2	11.1	12.2
4	HI1633 (C)	11.8	14.1	10.7	12.2
5	HD3438	12.8	14.4	11.1	12.8
6	HD3439	13.3	14.3	12.2	13.3
Mean		12.2	13.8	11.2	12.4

Table 106: Sedimentation value (ml) of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	53.4	56.5	46.5	52.2
2	HD2932 (C)	47.3	51.5	46.1	48.3
3	HD3090 (C)	45.7	53.8	43.8	47.8
4	HI1633 (C)	46.5	49.6	46.9	47.7
5	HD3438	51.5	53.8	48.4	51.3
6	HD3439	51.5	55.4	51.1	52.7
Mean		49.3	53.4	47.1	50.0

Table 107: Hardness index of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	85			85
2	HD2932 (C)	80			80
3	HD3090 (C)	76			76
4	HI1633 (C)	84			84
5	HD3438	76			76
6	HD3439	79			79
Mean		80			80

Table 108: Phenol test score (Max-10) of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	7.5	7.0	4.0	6.2
2	HD2932 (C)	3.5	3.0	3.0	3.2
3	HD3090 (C)	8.5	8.5	5.0	7.3
4	HI1633 (C)	7.5	8.0	5.5	7.0
5	HD3438	4.0	3.5	2.5	3.3
6	HD3439	4.0	4.0	2.5	3.5
Mean		5.8	5.7	3.8	5.1

Table 109: Grain iron content (ppm) of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	41.9	41.9	37.2	40.3
2	HD2932 (C)	34.2	40.2	32.4	35.6
3	HD3090 (C)	36.8	38.9	33.7	36.5
4	HI1633 (C)	40.7	38.3	37.3	38.8
5	HD3438	35.0	42.5	33.4	37.0
6	HD3439	37.5	37.5	36.2	37.1
Mean		37.7	39.9	35.0	37.5

Table 110: Grain zinc content (ppm) of *T. aestivum* genotypes of MABB PZ trial

S. No.	Entries	Pune	Dharwad	Niphad	Mean
1	RAJ 4083 (C)	45.2	36.9	30.1	37.4
2	HD2932 (C)	36.8	41.2	33.6	37.2
3	HD3090 (C)	43.2	42.2	33.1	39.5
4	HI1633 (C)	41.4	40.3	36.4	39.4
5	HD3438	38.4	41.7	33.2	37.8
6	HD3439	39.1	40.5	31.4	37.0
Mean		40.7	40.5	33.0	38.0

AST

Table 111: Grain appearance score (Max-10) of *T. aestivum* genotypes in SPL-AST trial

S. No.	Entries	Code	Karnal	Hisar	Bhatinda	Mean
1	KRL19(C)	409	5.4	5.4	5.6	5.5
2	KRL210(C)	410	6.2	5.8	5.6	5.9
3	Kharchia65(C)	411	5.8	5.4	5.4	5.5
4	DBW366	401	6.0	6.2	6.0	6.1
5	UAS310	402	5.4	5.8	5.6	5.6
6	DBW402	403	5.2	5.8	5.6	5.5
7	KRL2006	404	6.0	5.8	5.6	5.8
8	DBW365	405	6.0	6.2	5.6	5.9
9	KRL2021	406	5.2	5.8	5.4	5.5
10	HD3415	407	5.4	5.6	5.6	5.5
11	RAJ4565	408	5.6	6.0	5.6	5.7
Mean			5.7	5.8	5.6	5.7

Table 112: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in SPL-AST trial

S. No.	Entries	Code	Karnal	Hisar	Bhatinda	Mean
1	KRL19(C)	409	81.9	71.8	76.7	76.8
2	KRL210(C)	410	82.1	75.3	74.6	77.3
3	Kharchia65(C)	411	81.5	74.8	76.8	77.7
4	DBW366	401	79.1	75.7	75.8	76.9
5	UAS310	402	72.6	71.6	74.0	72.7
6	DBW402	403	74.4	76.1	77.0	75.8
7	KRL2006	404	82.5	76.0	77.8	78.8
8	DBW365	405	76.9	77.6	73.3	75.9
9	KRL2021	406	75.8	79.0	78.7	77.8
10	HD3415	407	74.6	77.2	76.6	76.1
11	RAJ4565	408	77.6	74.9	74.9	75.8
Mean			78.1	75.5	76.0	76.5

Table 113: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in SPL-AST trial

S. No.	Entries	Code	Karnal	Hisar	Bhatinda	Mean
1	KRL19(C)	409	14.9	12.4	11.0	12.7
2	KRL210(C)	410	12.7	10.5	10.3	11.2
3	Kharchia65(C)	411	11.5	10.9	11.4	11.2
4	DBW366	401	12.6	10.9	10.5	11.3
5	UAS310	402	11.6	11.8	10.7	11.4
6	DBW402	403	12.6	11.3	11.1	11.7
7	KRL2006	404	12.1	11.8	11.5	11.8
8	DBW365	405	11.6	10.3	10.3	10.7
9	KRL2021	406	12.3	11.6	11.2	11.7
10	HD3415	407	12.8	11.1	10.9	11.6
11	RAJ4565	408	14.1	12.3	11.5	12.7
Mean			12.6	11.4	10.9	11.6

Table 114: Sedimentation value (ml) of *T. aestivum* genotypes in SPL-AST trial

S. No.	Entries	Code	Karnal	Hisar	Bhatinda	Mean
1	KRL19(C)	409	51.5	49.6	46.5	49.2
2	KRL210(C)	410	47.7	48.4	47.7	47.9
3	Kharchia65(C)	411	48.0	41.9	48.0	46.0
4	DBW366	401	40.3	43.8	45.7	43.3
5	UAS310	402	58.8	52.7	47.7	53.1
6	DBW402	403	55.4	45.7	43.8	48.3
7	KRL2006	404	51.5	44.6	42.3	46.1
8	DBW365	405	61.9	44.2	45.0	50.4
9	KRL2021	406	54.2	43.4	47.3	48.3
10	HD3415	407	53.4	41.9	41.1	45.5
11	RAJ4565	408	59.6	51.5	47.3	52.8
Mean			52.9	46.2	45.7	48.3

Table 115: Phenol test (Max-10) of *T. aestivum* genotypes SPL-AST trial

S. No.	Entries	Code	Karnal	Hisar	Bhatinda	Mean
1	KRL19(C)	409	4.0	4.0	4.0	4.0
2	KRL210(C)	410	7.5	6.5	6.0	6.7
3	Kharchia65(C)	411	3.0	4.5	3.5	3.7
4	DBW366	401	3.5	3.0	3.0	3.2
5	UAS310	402	6.5	7.0	6.0	6.5
6	DBW402	403	6.5	7.0	6.5	6.7
7	KRL2006	404	7.0	5.5	6.5	6.3
8	DBW365	405	3.0	3.5	3.0	3.2
9	KRL2021	406	6.5	6.0	5.5	6.0
10	HD3415	407	6.5	6.0	5.5	6.0
11	RAJ4565	408	7.0	7.0	7.0	7.0
Mean			5.5	5.4	5.1	5.4

Table 116: Hardness index of *T. aestivum* genotypes in SPL-AST trial

S. No.	Entries	Code	Karnal	Hisar	Bhatinda	Mean
1	KRL19(C)	409	81			81
2	KRL210(C)	410	82			82
3	Kharchia65(C)	411	61			61
4	DBW366	401	61			61
5	UAS310	402	75			75
6	DBW402	403	66			66
7	KRL2006	404	73			73
8	DBW365	405	60			60
9	KRL2021	406	86			86
10	HD3415	407	84			84
11	RAJ4565	408	79			79
Mean			73			73

Products (AVT, HYPT and MABB)

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

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	7.5	7.8	7.4	7.6
2	HS562(C)	102	7.2	7.5	7.9	7.5
3	HPW349(C)	104	7.7	7.3	7.5	7.5
4	HS507(C)	105	7.9	8.0	7.4	7.7
5	VL907(C)	107	7.7	7.9	7.8	7.8
Mean			7.6	7.7	7.6	7.6

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	7.0	7.5	8.1	7.5
2	DBW222(C)	102	7.1	7.7	8.4	7.7
3	HD3086(C)	103	7.7	8.3	7.5	7.8
4	HD2967(C)	104	6.7	7.9	7.4	7.3
5	DBW187(C)	106	7.2	8.5	8.4	8.0
Mean			7.1	8.0	8.0	7.7
	Restricted Irrigated Timely Sown					
1	HI1654*	302	7.9	7.3	7.3	7.5
2	HD3369*	316	8.1	7.1	7.1	7.4
3	HI1653*	317	7.5	7.3	7.1	7.3
4	NIAW3170(C)	301	6.6	7.1	7.2	6.9
5	PBW644(C)	304	7.2	7.0	7.5	7.2
6	DBW296(I)(C)	307	8.1	6.7	6.8	7.2
7	HUW838(I)(C)	309	8.1	7.2	7.3	7.5
8	HD3043(C)	313	8.6	7.3	6.6	7.5
9	HI1628(C)	314	7.9	7.1	7.2	7.4
Mean			7.7	7.1	7.1	7.3

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	7.8	8.1	7.4	7.7
2	HD3249(C)	101	7.6	8.5	7.1	7.7
3	DBW187(C)	102	7.3	8.4	7.7	7.8
4	HD2967(C)	103	7.8	8.3	8.4	8.2
5	DBW222(C)	105	8.2	8.0	8.2	8.1
6	HD3086(C)	107	8.1	7.1	7.8	7.6
Mean			7.8	8.0	7.7	7.8
	Irrigated Late Sown					
1	DBW316#*	201	7.1	8.3	6.7	7.4
2	PBW833*	203	7.9	8.1	8.5	8.1
3	PBW835Q*	208	7.3	7.7	8.6	7.8
4	HI1621(C)	202	7.5	7.6	7.4	7.5
5	HD3118(C)	205	7.9	7.4	7.8	7.7
6	DBW107(C)	206	7.8	7.6	7.6	7.6
7	HI1563(C)	207	7.7	7.2	8.8	7.9
Mean			7.6	7.7	7.9	7.7

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	7.4	8.3	8	7.9
2	MP3535*	107	8.4	8.2	8.5	8.4
3	MACS6768*	108	8	8.2	8.7	8.3
4	GW322(C)	101	8.3	6.9	7.1	7.4
5	HI1636(I)(C)	102	8	8.2	8.2	8.1
6	GW513(I)(C)	109	7.7	8.7	8.4	8.3
7	HI1544(C)	110	8.4	8.4	8.5	8.4
Mean			8.0	8.1	8.2	8.1
	Restricted Irrigated Timely Sown					
1	CG1036*	301	8.4	8.6	8.6	8.5
2	HI1655Q*	304	9.0	8.1	8.1	8.4
3	DBW110(C)	309	7.5	8.1	7.6	7.7
4	MP3288(C)	314	8.6	8.1	7.1	7.9
Mean			8.4	8.2	7.8	8.1

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	7.3	7.7	7.6	7.5
2	HD2932(C)	202	6.4	7.6	8.1	7.4
3	RAJ4083(C)	203	8.9	8.1	8.3	8.4
4	HD3090(C)	204	8.6	7.0	8.1	7.9
5	HI1633(C)	205	7.8	7.2	7.3	7.4
Mean			7.8	7.5	7.9	7.7

Table 2: Bread quality loaf volume (ml) of *T. aestivum* genotypes in AVTs**North Hills Zone**

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	515	440	455	470
2	HS562(C)	102	400	540	405	448
3	HPW349(C)	104	380	420	465	422
4	HS507(C)	105	315	475	375	388
5	VL907(C)	107	375	520	475	457
Mean			397	479	435	437

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	540	495	510	515
2	DBW222(C)	102	525	560	490	525
3	HD3086(C)	103	570	550	520	547
4	HD2967(C)	104	555	595	545	565
5	DBW187(C)	106	595	560	520	558
Mean			557	552	517	542
	Restricted Irrigated Timely Sown					
1	HI1654*	302	560	645	580	595
2	HD3369*	316	560	480	575	538
3	HI1653*	317	545	400	530	492
4	NIAW3170(C)	301	650	555	525	577
5	PBW644(C)	304	520	450	535	502
6	DBW296(I)(C)	307	600	595	620	605
7	HUW838(I)(C)	309	620	525	585	577
8	HD3043(C)	313	480	500	415	465
9	HI1628(C)	314	550	520	525	532
Mean			565	519	543	542

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	615	525	465	535
2	HD3249(C)	101	570	500	465	512
3	DBW187(C)	102	595	535	490	540
4	HD2967(C)	103	600	605	575	593
5	DBW222(C)	105	630	555	560	582
6	HD3086(C)	107	625	525	490	547
Mean			606	541	508	551
	Irrigated Late Sown					
1	DBW316#*	201	600	625	555	593
2	PBW833*	203	560	555	495	537
3	PBW835Q*	208	455	505	340	433
4	HI1621(C)	202	615	605	555	592
5	HD3118(C)	205	585	580	490	552
6	DBW107(C)	206	560	610	485	552
7	HI1563(C)	207	485	490	375	450
Mean			551	567	471	530

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	500	390	465	452
2	MP3535*	107	475	475	425	458
3	MACS6768*	108	430	480	380	430
4	GW322(C)	101	460	430	445	445
5	HI1636(I)(C)	102	375	385	390	383
6	GW513(I)(C)	109	420	445	375	413
7	HI1544(C)	110	350	400	400	383
Mean			430	429	411	424
	Restricted Irrigated Timely Sown					
1	CG1036*	301	360	450	385	398
2	HI1655Q*	304	375	450	410	412
3	DBW110(C)	309	450	480	550	493
4	MP3288(C)	314	450	450	485	462
Mean			409	458	458	441

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	525	535	440	500
2	HD2932(C)	202	530	550	540	540
3	RAJ4083(C)	203	540	610	420	523
4	HD3090(C)	204	575	635	475	562
5	HI1633(C)	205	550	555	520	542
Mean			544	577	479	533

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

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	6.1	4.6	4.7	5.1
2	HS562(C)	102	6.4	6.8	4.5	5.9
3	HPW349(C)	104	5.6	4.3	5.2	5.0
4	HS507(C)	105	5.5	5.7	3.2	4.8
5	VL907(C)	107	3.9	6.5	4.8	5.1
Mean			5.5	5.6	4.5	5.2

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	6.9	5.9	6.2	6.3
2	DBW222(C)	102	6.1	7.2	5.9	6.4
3	HD3086(C)	103	6.9	7.0	6.5	6.8
4	HD2967(C)	104	7.1	7.4	6.0	6.8
5	DBW187(C)	106	7.8	7.4	6.9	7.3
Mean			7.0	7.0	6.3	6.7
	Restricted Irrigated Timely Sown					
1	HI1654*	302	7.3	8.6	6.9	7.6
2	HD3369*	316	7.2	5.4	8.0	6.9
3	HI1653*	317	7.4	3.4	6.8	5.8
4	NIAW3170(C)	301	8.5	6.6	6.2	7.1
5	PBW644(C)	304	6.8	5.0	6.4	6.1
6	DBW296(I)(C)	307	7.7	8.0	7.8	7.9
7	HUW838(I)(C)	309	8.1	6.2	7.4	7.2
8	HD3043(C)	313	5.5	5.7	4.7	5.3
9	HI1628(C)	314	6.9	6.5	6.3	6.6
Mean			7.3	6.1	6.7	6.7

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	7.4	6.3	4.7	6.1
2	HD3249(C)	101	6.9	6.1	5.2	6.1
3	DBW187(C)	102	7.4	6.2	5.8	6.4
4	HD2967(C)	103	8.0	8.0	7.2	7.7
5	DBW222(C)	105	7.7	7.4	6.2	7.1
6	HD3086(C)	107	8.3	6.7	5.5	6.8
Mean			7.6	6.8	5.8	6.7
	Irrigated Late Sown					
1	DBW316#*	201	7.8	8.6	6.8	7.7
2	PBW833*	203	7.2	7.0	5.7	6.6
3	PBW835Q*	208	5.5	6.3	2.6	4.8
4	HI1621(C)	202	7.9	7.6	6.6	7.4
5	HD3118(C)	205	7.2	7.7	5.3	6.7
6	DBW107(C)	206	6.6	7.6	4.9	6.4
7	HI1563(C)	207	5.7	5.1	2.6	4.5
Mean			6.9	7.1	4.9	6.3

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	5.1	2.8	4.8	4.3
2	MP3535*	107	4.5	4.7	4.1	4.4
3	MACS6768*	108	3.9	4.7	3.4	4.0
4	GW322(C)	101	5.3	3.9	4.7	4.6
5	HI1636(I)(C)	102	3.5	3.2	3.1	3.3
6	GW513(I)(C)	109	4.2	4.3	3.5	4.0
7	HI1544(C)	110	3.8	2.8	4.1	3.6
Mean			4.3	3.8	3.9	4.0
	Restricted Irrigated Timely Sown					
1	CG1036*	301	3.2	4.1	3.7	3.6
2	HI1655Q*	304	5.4	4.6	4.3	4.8
3	DBW110(C)	309	4.9	5.1	6.9	5.6
4	MP3288(C)	314	4.3	4.9	5.6	4.9
Mean			4.5	4.7	5.1	4.7

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	6.2	6.6	4.6	5.8
2	HD2932(C)	202	5.4	6.2	6.8	6.1
3	RAJ4083(C)	203	6.5	8.1	4.3	6.3
4	HD3090(C)	204	7.6	8.7	5.7	7.4
5	HI1633(C)	205	6.9	7.4	6.5	6.9
Mean			6.5	7.4	5.6	6.5

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

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	11.9	12.7	10.4	11.7
2	HS562(C)	102	9.4	8.2	8.8	8.8
3	HPW349(C)	104	9.6	8.5	8.1	8.7
4	HS507(C)	105	8.8	8.0	8.0	8.3
5	VL907(C)	107	9.2	8.1	8.2	8.5
Mean			9.8	9.1	8.7	9.2

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	7.6	8.1	8.2	7.9
2	DBW222(C)	102	8.3	7.6	7.5	7.8
3	HD3086(C)	103	7.3	8.6	7.6	7.8
4	HD2967(C)	104	8.8	8.5	8.8	8.7
5	DBW187(C)	106	6.9	7.7	8.2	7.6
Mean			7.7	8.1	8.1	8.0
	Restricted Irrigated Timely Sown					
1	HI1654*	302	10.5	10.6	10.7	10.6
2	HD3369*	316	9.1	8.7	8.9	8.9
3	HI1653*	317	8.4	8.6	8.2	8.4
4	NIAW3170(C)	301	10.7	11.1	10.3	10.7
5	PBW644(C)	304	8.4	9.4	8.9	8.9
6	DBW296(I)(C)	307	11.0	10.7	11.5	11.1
7	HUW838(I)(C)	309	8.0	8.7	7.6	8.1
8	HD3043(C)	313	8.1	10.1	8.0	8.7
9	HI1628(C)	314	7.8	8.5	8.4	8.2
Mean			9.1	9.6	9.2	9.3

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	8.3	8.3	8.5	8.4
2	HD3249(C)	101	7.8	9.2	7.8	8.3
3	DBW187(C)	102	7.6	7.5	8.1	7.7
4	HD2967(C)	103	7.7	7.5	8.4	7.9
5	DBW222(C)	105	7.7	7.6	9.2	8.2
6	HD3086(C)	107	8.6	8.8	8.5	8.7
Mean			8.0	8.2	8.4	8.2
	Irrigated Late Sown					
1	DBW316#*	201	8.3	7.3	7.5	7.7
2	PBW833*	203	7.8	7.2	7.7	7.6
3	PBW835Q*	208	8.1	7.5	8.2	7.9
4	HI1621(C)	202	7.6	9.1	8.6	8.4
5	HD3118(C)	205	9.5	7.8	7.7	8.3
6	DBW107(C)	206	9.6	7.9	7.9	8.5
7	HI1563(C)	207	7.8	8.2	7.5	7.8
Mean			8.4	7.8	7.9	8.0

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	7.4	7.6	7.6	7.5
2	MP3535*	107	7.0	7.8	7.9	7.6
3	MACS6768*	108	7.6	7.8	7.8	7.7
4	GW322(C)	101	7.0	11.4	7.2	8.5
5	HI1636(I)(C)	102	8.0	8.0	7.4	7.8
6	GW513(I)(C)	109	8.0	7.5	7.9	7.8
7	HI1544(C)	110	7.6	7.5	7.2	7.5
Mean			7.5	8.2	7.6	7.8
	Restricted Irrigated Timely Sown					
1	CG1036*	301	7.5	5.7	6.4	6.6
2	HI1655Q*	304	6.7	7.0	7.3	7.0
3	DBW110(C)	309	7.4	8.0	7.8	7.7
4	MP3288(C)	314	8.1	8.1	8.1	8.1
Mean			7.4	7.2	7.4	7.3

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	8.0	8.2	8.0	8.1
2	HD2932(C)	202	8.5	8.5	7.7	8.3
3	RAJ4083(C)	203	7.1	8.3	7.1	7.5
4	HD3090(C)	204	8.9	8.8	8.4	8.7
5	HI1633(C)	205	8.4	7.6	8.1	8.0
Mean			8.2	8.3	7.9	8.1

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

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	11.0	14.8	20.7	15.5
2	HS562(C)	102	17.2	15.6	18.9	17.2
3	HPW349(C)	104	10.3	10.1	19.4	13.3
4	HS507(C)	105	18.4	16.0	22.1	18.8
5	VL907(C)	107	10.2	17.4	23.0	16.9
Mean			13.4	14.8	20.8	16.3

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	23.0	25.4	20.2	22.9
2	DBW222(C)	102	26.6	29.0	24.0	26.5
3	HD3086(C)	103	30.8	27.9	23.8	27.5
4	HD2967(C)	104	27.9	27.8	26.2	27.3
5	DBW187(C)	106	28.1	27.3	23.4	26.3
Mean			27.3	27.5	23.5	26.1
	Restricted Irrigated Timely Sown					
1	HI1654*	302	23.9	18.6	19.6	20.7
2	HD3369*	316	24.4	16.0	21.9	20.8
3	HI1653*	317	26.2	15.5	26.7	22.8
4	NIAW3170(C)	301	27.2	25.5	24.7	25.8
5	PBW644(C)	304	23.0	21.9	27.6	24.2
6	DBW296(I)(C)	307	24.5	18.0	25.8	22.8
7	HUW838(I)(C)	309	28.6	22.7	33.9	28.4
8	HD3043(C)	313	24.7	22.7	29.4	25.6
9	HI1628(C)	314	26.5	22.5	22.4	23.8
Mean			25.4	20.4	25.8	23.9

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	22.7	21.2	20.0	21.3
2	HD3249(C)	101	28.4	21.6	21.7	23.9
3	DBW187(C)	102	29.9	30.9	19.7	26.8
4	HD2967(C)	103	28.3	33.2	24.5	28.7
5	DBW222(C)	105	27.5	27.0	24.2	26.2
6	HD3086(C)	107	27.3	25.4	21.9	24.9
Mean			27.4	26.6	22.0	25.3
	Irrigated Late Sown					
1	DBW316#*	201	22.5	32.7	24.6	26.6
2	PBW833*	203	24.5	28.8	23.4	25.6
3	PBW835Q*	208	18.2	22.5	19.8	20.2
4	HI1621(C)	202	26.8	25.8	23.9	25.5
5	HD3118(C)	205	24.0	28.3	24.6	25.6
6	DBW107(C)	206	23.6	32.2	24.8	26.9
7	HI1563(C)	207	25.1	29.0	24.9	26.3
Mean			23.5	28.5	23.7	25.2

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	28.5	33.5	27.2	29.7
2	MP3535*	107	34.8	36.1	28.4	33.1
3	MACS6768*	108	32.7	36.3	31.5	33.5
4	GW322(C)	101	24.4	28.8	26.6	26.6
5	HI1636(I)(C)	102	27.8	36.0	27.5	30.4
6	GW513(I)(C)	109	30.4	35.9	29.1	31.8
7	HI1544(C)	110	31.7	37.8	25.6	31.7
Mean			30.0	34.9	28.0	31.0
	Restricted Irrigated Timely Sown					
1	CG1036*	301	28.7	28.7	28.3	28.6
2	HI1655Q*	304	31.5	31.5	33.1	32.0
3	DBW110(C)	309	29.7	29.7	26.9	28.8
4	MP3288(C)	314	29.5	29.5	30.8	29.9
Mean			29.9	29.9	29.8	29.8

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	30.7	33.3	29.3	31.1
2	HD2932(C)	202	32.4	32.9	30.4	31.9
3	RAJ4083(C)	203	29.0	28.8	30.2	29.3
4	HD3090(C)	204	28.8	34.4	30.1	31.1
5	HI1633(C)	205	30.1	33.6	28.9	30.9
Mean			30.2	32.6	29.8	30.9

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

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	6.4	4.9	6.7	6.0
2	HS562(C)	102	5.7	5.0	6.4	5.7
3	HPW349(C)	104	3.5	3.2	6.3	4.3
4	HS507(C)	105	6.1	5.5	7.3	6.3
5	VL907(C)	107	3.3	5.8	7.6	5.6
Mean			5.0	4.9	6.9	5.6

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	7.6	8.1	6.8	7.5
2	DBW222(C)	102	8.7	9.3	7.9	8.6
3	HD3086(C)	103	9.7	8.9	7.9	8.8
4	HD2967(C)	104	8.9	8.6	8.5	8.7
5	DBW187(C)	106	9.3	9.1	7.8	8.7
Mean			8.8	8.8	7.8	8.5
	Restricted Irrigated Timely Sown					
1	HI1654*	302	7.6	6.0	6.8	6.8
2	HD3369*	316	8.2	5.4	7.3	7.0
3	HI1653*	317	8.7	5.5	8.9	7.7
4	NIAW3170(C)	301	8.7	6.6	8.1	7.8
5	PBW644(C)	304	7.8	7.3	9.3	8.1
6	DBW296(I)(C)	307	8.2	5.8	8.3	7.4
7	HUW838(I)(C)	309	9.2	7.4	10.9	9.2
8	HD3043(C)	313	8.1	7.5	10.2	8.6
9	HI1628(C)	314	8.5	7.1	7.4	7.7
Mean			8.3	6.5	8.6	7.8

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	8.2	7.2	6.8	7.4
2	HD3249(C)	101	9.7	7.7	7.6	8.3
3	DBW187(C)	102	10.1	8.6	6.9	8.5
4	HD2967(C)	103	9.4	9.0	8.0	8.8
5	DBW222(C)	105	9.1	9.0	7.9	8.7
6	HD3086(C)	107	9.3	8.6	7.2	8.4
Mean			9.3	8.4	7.4	8.4
	Irrigated Late Sown					
1	DBW316#*	201	7.9	10.7	7.9	8.8
2	PBW833*	203	8.3	10.0	7.8	8.7
3	PBW835Q*	208	6.5	8.4	7.0	7.3
4	HI1621(C)	202	8.6	8.8	7.7	8.4
5	HD3118(C)	205	7.9	9.6	7.9	8.5
6	DBW107(C)	206	8.0	10.5	8.0	8.8
7	HI1563(C)	207	8.0	9.4	7.8	8.4
Mean			7.9	9.6	7.7	8.4

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	9.6	11.6	9.6	10.3
2	MP3535*	107	12.2	11.2	9.7	11.0
3	MACS6768*	108	10.4	12.2	10.3	11.0
4	GW322(C)	101	7.8	9.4	9.2	8.8
5	HI1636(I)(C)	102	8.6	11.9	9.1	9.9
6	GW513(I)(C)	109	10.6	12.8	10.1	11.2
7	HI1544(C)	110	10.5	13.2	8.3	10.7
Mean			10.0	11.8	9.5	10.4
	Restricted Irrigated Timely Sown					
1	CG1036*	301	9.1	9.1	8.91	9.0
2	HI1655Q*	304	10.7	10.7	11.6	11.0
3	DBW110(C)	309	9.8	9.8	9.01	9.5
4	MP3288(C)	314	9.6	9.6	10.3	9.8
Mean			9.8	9.8	10.0	9.9

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	9.6	11.0	9.2	9.9
2	HD2932(C)	202	10.3	11.8	9.5	10.5
3	RAJ4083(C)	203	9.6	10.4	10.4	10.1
4	HD3090(C)	204	9.4	11.5	9.4	10.1
5	HI1633(C)	205	9.5	11.2	9.5	10.1
Mean			9.7	11.2	9.6	10.2

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

S. No.	Variety	Code	Shimla	Malan	Almora	Mean
1	VL2041Q*	108	93	93	93	93
2	HS562(C)	102	98	97	95	97
3	HPW349(C)	104	99	98	97	98
4	HS507(C)	105	99	99	86	95
5	VL907(C)	107	98	95	61	85
Mean			97	96	86	93

North Western Plains Zone

S. No.	Variety	Code	Karnal	Hisar	P.nagar	Mean
	Irrigated Timely Sown					
1	PBW826*	101	92	65	97	85
2	DBW222(C)	102	82	69	79	77
3	HD3086(C)	103	52	57	83	64
4	HD2967(C)	104	73	60	86	73
5	DBW187(C)	106	88	80	95	88
Mean			77	66	88	77
	Restricted Irrigated Timely Sown					
1	HI1654*	302	77	75	98	83
2	HD3369*	316	95	99	99	98
3	HI1653*	317	85	99	88	91
4	NIAW3170(C)	301	68	69	58	65
5	PBW644(C)	304	97	78	63	79
6	DBW296(I)(C)	307	92	94	67	84
7	HUW838(I)(C)	309	61	85	44	63
8	HD3043(C)	313	84	55	54	64
9	HI1628(C)	314	70	61	77	69
Mean			81	79	72	77

North Eastern Plains Zone

S. No.	Variety	Code	Pusa	Sabour	Varanasi	Mean
	Irrigated Timely Sown					
1	PBW826#*	106	87	98	97	94
2	HD3249(C)	101	88	100	99	96
3	DBW187(C)	102	86	99	99	95
4	HD2967(C)	103	92	96	93	94
5	DBW222(C)	105	86	93	98	92
6	HD3086(C)	107	80	99	97	92
Mean			87	98	97	94
	Irrigated Late Sown					
1	DBW316#*	201	92	74	78	81
2	PBW833*	203	90	94	95	93
3	PBW835Q*	208	99	99	99	99
4	HI1621(C)	202	73	98	77	83
5	HD3118(C)	205	76	94	77	82
6	DBW107(C)	206	81	67	77	75
7	HI1563(C)	207	67	87	73	76
Mean			83	88	82	84

Central Zone

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
	Irrigated Timely Sown					
1	HI1650*	103	61	52	63	59
2	MP3535*	107	46	8	53	36
3	MACS6768*	108	35	41	44	40
4	GW322(C)	101	64	56	67	62
5	HI1636(I)(C)	102	53	56	63	57
6	GW513(I)(C)	109	49	43	58	50
7	HI1544(C)	110	48	50	53	50
Mean			51	44	57	51
	Restricted Irrigated Timely Sown					
1	CG1036*	301	56	56	57	56
2	HI1655Q*	304	55	55	60	57
3	DBW110(C)	309	70	70	97	79
4	MP3288(C)	314	80	80	80	80
Mean			65	65	74	68

Peninsular Zone

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
	Irrigated Late Sown					
1	DBW320#*	206	68	84	71	74
2	HD2932(C)	202	68	99	63	77
3	RAJ4083(C)	203	85	99	89	91
4	HD3090(C)	204	82	86	58	75
5	HI1633(C)	205	56	70	64	63
Mean			72	88	69	76

Table 8: Pasta cooking quality of *T. durum* genotypes in AVTs**Central Zone (Restricted Irrigated Timely Sown)**

S. No.	Variety	Code	Cooking time (Min.)	Water absorption (%)	Water uptake ratio	Gruel solid loss (%)	Stickiness
1	DDW55(d)Q*	302	11.0	126.4	1.3	9.5	PS
2	HI8830(d)*	312	9.5	129.2	1.3	10.5	PS
3	HI8823(I)(d)(C)	311	9.5	121.6	1.2	9.0	NS
4	HI8627(d)(C)	315	10.0	129.2	1.3	10.5	PS
5	DDW47(d)(C)	318	11.2	130.0	1.3	11.0	PS
Mean			10.2	127.3	1.27	10.1	

PS = Partial sticky; NS = None Sticky

Table 9: Pasta sensory evaluation of *T. durum* genotypes in AVTs**Central Zone (Restricted Irrigated Timely Sown)**

S. No.	Variety	Code	colour	Texture	Flavour/Aroma	Taste	Overall acceptability (Out of 9)
1	DDW55(d)Q*	302	6.5	5.8	6.7	6.1	6.3
2	HI8830(d)*	312	7.9	5.4	7.0	5.7	6.5
3	HI8823(I)(d)(C)	311	7.1	6.3	6.0	5.8	6.3
4	HI8627(d)(C)	315	6.8	7.5	6.5	5.9	6.7
5	DDW47(d)(C)	318	7.1	6.1	6.5	5.6	6.3
Mean			7.1	6.2	6.5	5.8	6.4

Table 10: Pasta cooking quality of *T. durum* genotypes in AVTs**Peninsular Zone (Irrigated Timely Sown)**

S. No.	Variety	Code	Cooking time (Min.)	Water absorption (%)	Water uptake ratio	Gruel solid loss (%)	Stickiness
1	MACS4100(d)*	104	9.3	126.8	1.3	10.5	PS
2	HI8826(d)*	111	8.4	109.2	1.2	10.0	PS
3	UAS428(d)(C)	106	9.6	120.4	1.3	10.0	PS
4	DDW48(d)(C)	108	10.0	131.2	1.3	8.5	PS
5	MACS3949(d)(C)	110	9.3	117.6	1.2	8.5	PS
Mean			9.3	121.0	1.2	9.5	

PS = Partial sticky

Table 11: Pasta sensory evaluation of *T. durum* genotypes in AVTs**Peninsular Zone (Irrigated Timely Sown)**

S. No.	Variety	Code	colour	Texture	Flavour/Aroma	Taste	Overall acceptability (Out of 9)
1	MACS4100(d)*	104	7.2	6.5	6.7	6.1	6.6
2	HI8826(d)*	111	7.1	7.0	6.7	5.6	6.6
3	UAS428(d)(C)	106	6.5	6.5	6.8	6.2	6.5
4	DDW48(d)(C)	108	7.1	6.0	6.0	6.2	6.3
5	MACS3949(d)(C)	110	6.8	7.0	6.3	6.1	6.6
Mean			6.9	6.6	6.5	6.0	6.5

**Table 1: Chapati quality (Max Score - 10) of *T. aestivum* genotypes in HYPT trial
North Western Plains Zone (IR-ES)**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	7.9	8.1	8.7	8.2
2	DBW371*	111	7.6	6.8	8.7	7.7
3	DBW370*	112	8.7	8.0	8.2	8.3
4	DBW372#*	113	8.5	6.8	7.6	7.6
5	DBW303(C)	101	7.6	6.8	7.6	7.3
6	DBW332(I)(C)	102	7.7	8.3	7.8	7.9
7	DBW327(I)(C)	103	8.0	8.2	7.4	7.9
8	HD3086(C)	105	7.6	8.0	7.7	7.7
9	DBW187(C)	107	7.9	8.7	8.0	8.2
Mean			7.9	7.7	7.9	7.9

North Eastern Plains Zone (IR-ES)

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	8.3	8.4	8.4
2	DBW371*	111	8.3	8.0	8.1
3	DBW370*	112	8.0	8.0	8.0
4	DBW372#*	113	8.0	8.3	8.2
5	DBW303(C)	101	7.2	8.0	7.6
6	DBW332(I)(C)	102	8.1	8.0	8.0
7	DBW327(I)(C)	103	8.2	7.8	8.0
8	HD3086(C)	105	8.2	7.8	8.0
9	DBW187(C)	107	7.8	7.0	7.4
Mean			8.0	7.9	8.0

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	8.1	8.5	8.7	8.4
2	GW322(C)	202	7.9	8.4	8.4	8.2
3	DBW303(C)	203	8.6	8.9	7.4	8.3
4	DBW187(C)	206	8.9	8.6	8.1	8.5
5	HD3086(C)	207	7.9	9.0	9.4	8.7
Mean			8.2	8.7	8.4	8.4

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	8.7	8.3	8.1	8.4
2	GW322(C)	202	8.6	7.9	8.4	8.3
3	DBW303(C)	203	8.6	7.8	7.6	8.0
4	DBW187(C)	206	8.6	8.2	8.3	8.3
5	HD3086(C)	207	8.1	7.7	8.3	8.0
Mean			8.5	8.0	8.1	8.2

**Table 2: Bread quality loaf volume (ml) of *T. aestivum* genotypes in HYPT trial
North Western Plains Zone**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	570	475	510	518
2	DBW371*	111	595	545	595	578
3	DBW370*	112	630	455	560	548
4	DBW372#*	113	550	505	565	540
5	DBW303(C)	101	565	425	565	518
6	DBW332(I)(C)	102	605	570	550	575
7	DBW327(I)(C)	103	495	550	515	520
8	HD3086(C)	105	535	490	510	512
9	DBW187(C)	107	530	580	455	522
Mean			564	511	536	537

North Eastern Plains Zone

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	525	460	493
2	DBW371*	111	500	505	503
3	DBW370*	112	470	505	488
4	DBW372#*	113	455	480	468
5	DBW303(C)	101	545	410	478
6	DBW332(I)(C)	102	555	560	558
7	DBW327(I)(C)	103	580	540	560
8	HD3086(C)	105	580	500	540
9	DBW187(C)	107	550	465	508
Mean			529	492	510

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	390	450	535	458
2	GW322(C)	202	435	360	380	392
3	DBW303(C)	203	480	500	535	505
4	DBW187(C)	206	400	525	400	442
5	HD3086(C)	207	530	570	530	543
Mean			447	481	476	468

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	600	575	400	525
2	GW322(C)	202	410	470	460	447
3	DBW303(C)	203	575	580	495	550
4	DBW187(C)	206	640	630	510	593
5	HD3086(C)	207	475	660	560	565
Mean			540	583	485	536

**Table 3: Bread quality score (Max 10) of *T. aestivum* genotypes in HYPT trial
North Western Plains Zone**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	7.2	5.3	6.4	6.3
2	DBW371*	111	8.3	7.2	8.2	7.9
3	DBW370*	112	8.4	5.1	7.3	6.9
4	DBW372#*	113	6.4	5.6	7.4	6.4
5	DBW303(C)	101	7.1	3.7	7.5	6.1
6	DBW332(I)(C)	102	7.9	7.7	7.3	7.6
7	DBW327(I)(C)	103	5.5	6.9	6.3	6.2
8	HD3086(C)	105	6.3	6.2	5.9	6.1
9	DBW187(C)	107	5.7	7.8	5.1	6.2
Mean			7.0	6.2	6.8	6.6

North Eastern Plains Zone

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	6.7	5.3	6.0
2	DBW371*	111	5.8	5.6	5.7
3	DBW370*	112	5.3	6.0	5.6
4	DBW372#*	113	4.9	5.3	5.1
5	DBW303(C)	101	7.1	3.5	5.3
6	DBW332(I)(C)	102	7.0	7.4	7.2
7	DBW327(I)(C)	103	6.8	6.6	6.7
8	HD3086(C)	105	8.1	5.8	7.0
9	DBW187(C)	107	7.4	5.3	6.4
Mean			6.6	5.7	6.1

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	3.4	4.7	6.3	4.8
2	GW322(C)	202	4.8	3.4	3.4	3.8
3	DBW303(C)	203	5.7	5.8	6.6	6.0
4	DBW187(C)	206	3.7	6.7	3.4	4.6
5	HD3086(C)	207	6.6	8.1	6.5	7.1
Mean			4.8	5.7	5.2	5.3

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	8.0	7.2	3.1	6.1
2	GW322(C)	202	4.1	5.0	5.3	4.8
3	DBW303(C)	203	7.5	7.2	5.5	6.7
4	DBW187(C)	206	8.5	8.5	5.9	7.7
5	HD3086(C)	207	5.7	8.9	7.8	7.5
Mean			6.8	7.4	5.5	6.5

Table 4: Biscuit spread factor of *T. aestivum* genotypes in HYPT trial**North Western Plains Zone**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	7.2	5.8	6.5	6.5
2	DBW371*	111	7.5	7.8	7.0	7.5
3	DBW370*	112	8.4	8.2	8.0	8.2
4	DBW372#*	113	7.9	8.2	8.4	8.2
5	DBW303(C)	101	8.2	7.4	7.3	7.6
6	DBW332(I)(C)	102	7.6	7.6	6.9	7.4
7	DBW327(I)(C)	103	7.8	7.4	7.7	7.6
8	HD3086(C)	105	8.0	6.9	7.2	7.4
9	DBW187(C)	107	8.4	6.7	7.3	7.4
Mean			7.9	7.3	7.4	7.5

North Eastern Plains Zone

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	6.9	7.2	7.0
2	DBW371*	111	7.8	9.1	8.4
3	DBW370*	112	8.4	8.8	8.6
4	DBW372#*	113	7.4	7.9	7.7
5	DBW303(C)	101	7.5	7.4	7.4
6	DBW332(I)(C)	102	8.5	8.1	8.3
7	DBW327(I)(C)	103	7.6	7.9	7.8
8	HD3086(C)	105	7.8	7.2	7.5
9	DBW187(C)	107	7.9	8.8	8.3
Mean			7.7	8.0	7.9

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	7.9	7.8	8.2	8.0
2	GW322(C)	202	6.4	7.9	7.6	7.3
3	DBW303(C)	203	7.8	7.9	8.1	7.9
4	DBW187(C)	206	7.4	7.4	7.3	7.4
5	HD3086(C)	207	7.3	7.4	7.8	7.5
Mean			7.4	7.7	7.8	7.6

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	7.3	8.3	7.4	7.6
2	GW322(C)	202	8.2	7.8	7.3	7.8
3	DBW303(C)	203	6.4	9.0	7.2	7.5
4	DBW187(C)	206	7.0	6.8	7.2	7.0
5	HD3086(C)	207	6.8	7.5	7.8	7.4
Mean			7.1	7.9	7.4	7.5

**Table 5: Wet gluten (%) of *T. aestivum* genotypes in HYPT trial
North Western Plains Zone**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	26.9	25.2	29.0	27.0
2	DBW371*	111	27.3	27.0	32.0	28.8
3	DBW370*	112	31.5	25.8	30.2	29.2
4	DBW372#*	113	34.0	28.1	33.9	32.0
5	DBW303(C)	101	32.0	29.6	35.1	32.2
6	DBW332(I)(C)	102	30.2	27.4	32.4	30.0
7	DBW327(I)(C)	103	27.8	26.3	27.9	27.3
8	HD3086(C)	105	34.0	27.4	32.8	31.4
9	DBW187(C)	107	28.6	27.9	31.1	29.2
Mean			30.3	27.2	31.6	29.7

North Eastern Plains Zone

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	25.0	20.5	22.8
2	DBW371*	111	25.1	20.7	22.9
3	DBW370*	112	25.1	22.0	23.6
4	DBW372#*	113	27.0	24.2	25.6
5	DBW303(C)	101	28.3	25.8	27.1
6	DBW332(I)(C)	102	28.3	22.9	25.6
7	DBW327(I)(C)	103	24.3	20.8	22.6
8	HD3086(C)	105	27.1	23.0	25.1
9	DBW187(C)	107	24.4	19.1	21.8
Mean			26.1	22.1	24.1

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	27.7	33.7	29.3	30.2
2	GW322(C)	202	23.7	30.5	29.4	27.9
3	DBW303(C)	203	27.6	33.5	29.6	30.2
4	DBW187(C)	206	28.5	33.4	22.9	28.3
5	HD3086(C)	207	30.2	32.4	27.0	29.9
Mean			27.5	32.7	27.6	29.3

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	36.3	30.8	27.2	31.4
2	GW322(C)	202	30.1	25.9	27.8	27.9
3	DBW303(C)	203	35.5	29.5	29.6	31.5
4	DBW187(C)	206	35.9	29.7	25.8	30.5
5	HD3086(C)	207	35.8	30.5	26.5	30.9
Mean			34.7	29.3	27.4	30.5

**Table 6: Dry gluten (%) of *T. aestivum* genotypes in HYPT trial
North Western Plains Zone**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	9.1	8.7	9.5	9.1
2	DBW371*	111	9.3	8.9	10.7	9.3
3	DBW370*	112	10.5	8.6	10.1	10.5
4	DBW372#*	113	11.2	9.3	11.0	11.2
5	DBW303(C)	101	11.3	9.9	11.5	11.3
6	DBW332(I)(C)	102	9.9	9.1	10.8	9.9
7	DBW327(I)(C)	103	9.1	8.9	9.3	9.1
8	HD3086(C)	105	10.8	9.1	10.6	10.8
9	DBW187(C)	107	9.5	9.5	10.5	9.5
Mean			10.1	9.1	10.4	10.1

North Eastern Plains Zone

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	8.8	6.9	7.9
2	DBW371*	111	9.1	7.3	8.2
3	DBW370*	112	8.9	7.7	8.3
4	DBW372#*	113	9.4	8.2	8.8
5	DBW303(C)	101	9.7	8.8	9.3
6	DBW332(I)(C)	102	9.8	8.0	8.9
7	DBW327(I)(C)	103	8.6	7.2	7.9
8	HD3086(C)	105	9.3	8.0	8.7
9	DBW187(C)	107	8.7	6.7	7.7
Mean			9.1	7.6	8.4

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	9.4	11.6	9.5	10.2
2	GW322(C)	202	8.2	10.6	10.2	9.7
3	DBW303(C)	203	9.3	11.1	9.7	10.0
4	DBW187(C)	206	10.0	11.6	7.8	9.8
5	HD3086(C)	207	10.2	11.2	8.8	10.1
Mean			9.4	11.2	9.2	9.9

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	12.0	10.5	9.1	10.5
2	GW322(C)	202	9.7	8.5	9.1	9.1
3	DBW303(C)	203	11.5	10.0	9.6	10.4
4	DBW187(C)	206	12.1	10.5	8.9	10.5
5	HD3086(C)	207	11.6	10.5	9.2	10.4
Mean			11.4	10.0	9.2	10.2

**Table 7: Gluten index (Max 100) of *T. aestivum* genotypes HYPT trial
North Western Plains Zone**

S. No.	Variety	Code	Karnal	Hisar	Delhi	Mean
1	PBW872*	108	84	80	82	82
2	DBW371*	111	87	79	70	79
3	DBW370*	112	74	73	71	73
4	DBW372#*	113	56	59	54	56
5	DBW303(C)	101	68	64	52	61
6	DBW332(I)(C)	102	74	82	72	76
7	DBW327(I)(C)	103	83	83	80	82
8	HD3086(C)	105	52	66	54	57
9	DBW187(C)	107	78	86	75	80
Mean			73	75	68	72

North Eastern Plains Zone

S. No.	Variety	Code	BISA-Pusa	Sabour	Mean
1	PBW872*	108	90	96	93
2	DBW371*	111	96	95	96
3	DBW370*	112	95	90	93
4	DBW372#*	113	81	89	85
5	DBW303(C)	101	82	93	88
6	DBW332(I)(C)	102	75	98	87
7	DBW327(I)(C)	103	90	96	93
8	HD3086(C)	105	93	96	95
9	DBW187(C)	107	93	98	96
Mean			88	95	91

Central Zone (IR-ES)

S. No.	Variety	Code	Vijapur	Junagarh	P.kheda	Mean
1	DBW372#*	205	79	65	66	70
2	GW322(C)	202	79	71	63	71
3	DBW303(C)	203	83	62	71	72
4	DBW187(C)	206	93	87	95	92
5	HD3086(C)	207	88	91	83	87
Mean			84	75	76	78

Peninsular Zone (IR-ES)

S. No.	Variety	Code	Pune	Dharwad	Niphad	Mean
1	DBW372#*	205	60	80	71	70
2	GW322(C)	202	64	81	66	70
3	DBW303(C)	203	69	70	74	71
4	DBW187(C)	206	75	93	92	87
5	HD3086(C)	207	76	95	89	87
Mean			69	84	78	77

**Table 1: Chapati quality (Max Score - 10) of *T. aestivum* genotypes in MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	8.0	7.5	8.0	7.8
2	HD2967 (C)	8.1	7.8	8.2	8.0
3	DBW187 (C)	8.3	8.1	8.3	8.2
4	DBW222 (C)	8.1	7.7	8.2	8.0
5	PBW677 (C)	7.8	7.6	8.2	7.9
6	PBW175 (C)	8.2	8.3	8.2	8.2
Mean		8.1	7.8	8.2	8.0

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	7.6	7.8	7.7
2	HD3411*	7.4	7.9	7.6
3	HD3249 (C)	7.4	8.0	7.7
4	DBW187 (C)	7.6	8.1	7.9
5	HD3086 (C)	8.1	7.2	7.7
6	HD2967 (C)	7.9	7.6	7.7
7	HD2733 (C)	7.8	7.8	7.8
Mean		7.7	7.7	7.7

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	8.3	8.2	7.9	8.1
2	HD2932 (C)	7.9	8.0	7.8	7.9
3	HD2864 (C)	8.0	7.7	8.6	8.1
4	MP3336 (C)	8.0	8.2	8.1	8.1
5	CG1029 (C)	8.4	8.1	8.0	8.2
6	HI1634 (C)	8.2	8.0	8.2	8.1
Mean		8.1	8.0	8.1	8.1

**Table 2: Bread quality loaf volume (ml) of *T. aestivum* genotypes in MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	545	560	585	563
2	HD2967 (C)	560	595	625	593
3	DBW187 (C)	590	570	600	587
4	DBW222 (C)	575	595	605	592
5	PBW677 (C)	620	650	645	638
6	PBW175 (C)	520	525	530	525
Mean		568	583	598	583

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	585	540	563
2	HD3411*	550	545	548
3	HD3249 (C)	525	525	525
4	DBW187 (C)	500	510	505
5	HD3086 (C)	500	495	498
6	HD2967 (C)	575	550	563
7	HD2733 (C)	590	550	570
Mean		546	531	539

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	460	480	505	477
2	HD2932 (C)	485	450	480	466
3	HD2864 (C)	445	435	500	453
4	MP3336 (C)	460	455	425	448
5	CG1029 (C)	460	435	450	452
6	HI1634 (C)	485	460	420	458
Mean		466	453	463	461

**Table 3: Bread quality score (Max 10) of *T. aestivum* genotypes in MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	5.9	6.0	7.4	6.4
2	HD2967 (C)	6.5	7.4	7.9	7.3
3	DBW187 (C)	7.2	7.2	7.7	7.3
4	DBW222 (C)	6.8	6.7	7.5	7.0
5	PBW677 (C)	7.4	8.7	8.7	8.3
6	PBW175 (C)	5.8	5.3	5.4	5.5
Mean		6.6	6.9	7.4	7.0

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	6.7	6.2	6.5
2	HD3411*	6.5	6.3	6.4
3	HD3249 (C)	6.4	6.3	6.4
4	DBW187 (C)	6.0	5.4	5.7
5	HD3086 (C)	6.1	5.9	6.0
6	HD2967 (C)	7.4	7.2	7.3
7	HD2733 (C)	8.0	7.3	7.6
Mean		6.7	6.4	6.5

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	4.9	5.1	5.7	4.9
2	HD2932 (C)	4.7	3.9	5.3	4.7
3	HD2864 (C)	4.9	4.1	5.4	4.9
4	MP3336 (C)	4.1	4.5	4.1	4.1
5	CG1029 (C)	4.5	3.7	3.9	4.5
6	HI1634 (C)	5.3	5.0	3.5	5.3
Mean		4.7	4.4	4.7	4.7

**Table 4: Biscuit spread factor of *T. aestivum* genotypes in MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	7.5	8.8	7.2	7.9
2	HD2967 (C)	8.9	9.1	7.4	8.5
3	DBW187 (C)	9.0	7.8	7.0	7.9
4	DBW222 (C)	8.0	8.7	8.2	8.3
5	PBW677 (C)	9.2	8.7	8.2	8.7
6	PBW175 (C)	8.9	7.4	7.4	7.9
Mean		8.6	8.4	7.6	8.2

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	6.7	7.5	7.1
2	HD3411*	7.7	8.0	7.8
3	HD3249 (C)	6.9	7.8	7.4
4	DBW187 (C)	7.4	8.3	7.8
5	HD3086 (C)	7.9	7.9	7.9
6	HD2967 (C)	8.0	8.3	8.1
7	HD2733 (C)	6.6	7.5	7.0
Mean		7.3	7.9	7.6

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	7.7	8.1	8.6	8.1
2	HD2932 (C)	7.9	7.6	8.1	7.9
3	HD2864 (C)	7.4	8.3	8.3	8.0
4	MP3336 (C)	8.1	7.1	6.3	7.1
5	CG1029 (C)	7.9	7.6	7.7	7.7
6	HI1634 (C)	7.1	7.6	7.9	7.5
Mean		7.7	7.7	7.8	7.7

**Table 5: Wet gluten (%) of *T. aestivum* genotypes in MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	28.9	35.4	34.9	33.1
2	HD2967 (C)	28.1	31.3	34.0	31.1
3	DBW187 (C)	27.6	32.4	33.8	31.3
4	DBW222 (C)	26.9	28.2	33.5	29.5
5	PBW677 (C)	30.6	33.6	34.5	32.9
6	PBW175 (C)	31.1	33.4	36.3	33.6
Mean		28.9	32.4	34.5	31.9

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	29.1	27.0	28.1
2	HD3411*	30.6	28.1	29.4
3	HD3249 (C)	25.8	22.1	24.0
4	DBW187 (C)	23.4	20.6	22.0
5	HD3086 (C)	26.0	20.8	23.4
6	HD2967 (C)	29.5	25.2	27.4
7	HD2733 (C)	28.6	24.4	26.5
Mean		27.6	24.0	25.8

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	34.3	33.2	29.5	32.3
2	HD2932 (C)	34.2	33.2	29.2	32.2
3	HD2864 (C)	30.8	29.8	26.8	29.1
4	MP3336 (C)	31.0	34.4	32.7	32.7
5	CG1029 (C)	29.6	34.2	28.5	30.8
6	HI1634 (C)	30.9	31.8	26.8	29.8
Mean		31.8	32.8	28.9	31.2

**Table 6: Dry gluten (%) of *T. aestivum* genotypes in MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	9.0	11.5	11.2	10.6
2	HD2967 (C)	8.7	10.5	10.9	10.0
3	DBW187 (C)	9.3	10.8	11.3	10.5
4	DBW222 (C)	8.7	9.2	10.7	9.5
5	PBW677 (C)	9.9	11.1	11.2	10.7
6	PBW175 (C)	10.0	10.2	11.7	10.6
Mean		9.3	10.6	11.2	10.3

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	9.6	9.0	9.3
2	HD3411*	10.1	9.2	9.7
3	HD3249 (C)	8.8	7.5	8.2
4	DBW187 (C)	8.2	7.1	7.7
5	HD3086 (C)	8.8	7.0	7.9
6	HD2967 (C)	9.9	8.1	9.0
7	HD2733 (C)	9.2	7.9	8.6
Mean		9.2	8.0	8.6

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	10.9	10.4	8.8	10.0
2	HD2932 (C)	10.9	10.5	9.2	10.2
3	HD2864 (C)	9.8	9.5	8.5	9.3
4	MP3336 (C)	10.2	11.9	10.5	10.9
5	CG1029 (C)	9.5	11.7	8.5	9.9
6	HI1634 (C)	10.0	10.7	8.8	9.8
Mean		10.2	10.8	9.1	10.0

**Table 7: Gluten index (Max 100) of *T. aestivum* genotypes MABB trial
North Western Plains Zone**

S. No.	Variety	Karnal	Hisar	Delhi	Mean
1	HD 3406*	69	58	58	62
2	HD2967 (C)	61	57	69	62
3	DBW187 (C)	97	81	81	86
4	DBW222 (C)	83	79	57	73
5	PBW677 (C)	69	68	57	65
6	PBW175 (C)	45	35	42	41
Mean		71	63	61	65

North Eastern Plains Zone

S. No.	Variety	Sabour	Varanasi	Mean
1	HD3406*	95	79	87
2	HD3411*	90	76	83
3	HD3249 (C)	97	97	97
4	DBW187 (C)	99	99	99
5	HD3086 (C)	96	98	97
6	HD2967 (C)	93	87	90
7	HD2733 (C)	83	75	79
Mean		93	87	90

Central Zone

S. No.	Variety	Vijapur	Junagarh	P.kheda	Mean
1	HD3407*	75	63	72	70
2	HD2932 (C)	69	53	61	61
3	HD2864 (C)	78	68	70	72
4	MP3336 (C)	64	58	50	57
5	CG1029 (C)	67	54	24	48
6	HI1634 (C)	64	58	69	64
Mean		70	59	58	62

National Initial Varietal Trials (NIVTs)

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

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Mean	Kanpur	Varanasi	Sabour	Mean	
1	HD3420	N-1A-101	5.8	6.5	6.6	6.1	6.2	6.6	6.3	6.1	6.3	6.3
2	KRL2002	N-1A-102	5.6	5.6	5.9	5.7	5.7	5.2	5.8	6.4	5.8	5.7
3	PBW883	N-1A-103	5.5	5.6	5.9	5.4	5.6	5.7	5.9	5.7	5.8	5.7
4	DBW383	N-1A-104	5.8	5.8	5.8	5.7	5.8	5.5	6.4	7.1	6.3	6.0
5	JAUW695	N-1A-105	5.5	5.5	5.3	5.6	5.5	5.9	6.5	5.9	6.1	5.7
6	PBW886	N-1A-106	6.9	6.7	5.6	6.1	6.3	6.2	6.3	6.2	6.2	6.3
7	HD3421	N-1A-107	6.7	5.5	5.5	6.3	6.0	5.5	6.7	5.5	5.9	5.9
8	DBW382	N-1A-108	5.6	6.0	5.3	5.4	5.6	5.9	6.0	5.3	5.7	5.6
9	UP3101	N-1A-109	5.6	5.9	5.2	5.8	5.6	5.6	5.8	5.5	5.6	5.6
10	NW8046	N-1A-110	5.8	5.2	5.3	5.9	5.5	5.6	6.3	5.9	5.9	5.7
11	HD3086(C)	N-1A-111	6.2	5.5	5.6	6.5	6.0	5.5	6.3	5.3	5.7	5.8
12	UP3102	N-1A-112	5.4	5.0	4.7	5.5	5.1	6.0	5.6	5.5	5.7	5.4
13	RAJ4568	N-1A-113	5.9	6.3	5.5	5.9	5.9	5.7	5.8	5.5	5.7	5.8
14	DBW222(C)	N-1A-114	5.3	5.4	5.7	5.4	5.4	6.1	5.5	5.2	5.6	5.5
15	HUW849	N-1A-115	5.6	5.2	5.7	5.5	5.5	5.9	5.6	5.1	5.5	5.5
16	WH1302	N-1A-116	6.4	5.6	6.2	6.1	6.1	6.1	5.4	6.0	5.8	6.0
17	BRW3921	N-1A-117	6.6	6.5	6.3	6.5	6.5	4.9	6.2	6.6	5.9	6.2
18	DBW379	N-1A-118	4.5	4.3	5.8	5.0	4.9	6.1	4.7	4.7	5.2	5.0
19	DBW380	N-1A-119	5.4	6.0	5.5	6.2	5.8	5.8	5.8	5.8	5.8	5.8
20	RVW4350	N-1A-120	5.5	5.8	6.3	6.3	6.0	5.6	5.9	6.5	6.0	6.0
21	K2101	N-1A-121	5.7	5.4	5.2	5.3	5.4	5.8	5.5	5.3	5.5	5.4
22	PBW884	N-1A-122	6.8	6.4	5.7	6.5	6.3	5.7	5.9	6.1	5.9	6.1
23	WH1303	N-1A-123	6.5	5.4	4.9	5.8	5.6	5.3	5.6	5.8	5.5	5.6
24	UBW16	N-1A-124	5.6	5.6	6.1	6.5	5.9	5.6	5.5	6.4	5.8	5.9
25	HD3419	N-1A-125	5.8	5.7	5.9	6.3	5.9	5.8	5.8	6.5	6.0	6.0
26	HP1974	N-1A-126	5.6	5.4	5.3	5.5	5.5	6.4	5.6	5.3	5.7	5.6
27	UP3103	N-1A-127	5.6	5.8	5.2	6.2	5.7	5.4	5.4	5.0	5.3	5.5
28	PBW885	N-1A-128	5.7	5.9	5.5	5.9	5.7	5.6	5.5	5.9	5.7	5.7
29	DBW187(C)	N-1A-129	5.2	5.7	5.5	6.7	5.8	6.0	6.7	6.7	6.5	6.1
30	DBW381	N-1A-130	5.2	5.6	5.7	6.0	5.6	6.1	5.9	6.2	6.1	5.8
31	WH1301	N-1A-131	5.3	6.6	4.9	5.7	5.6	6.1	5.9	5.4	5.8	5.7
32	PBW882	N-1A-132	6.7	8.0	6.4	5.9	6.8	6.3	5.4	5.1	5.6	6.3
33	UP3104	N-1A-133	5.5	5.0	5.1	5.6	5.3	5.3	6.4	5.0	5.6	5.4
34	BW17R6045	N-1A-134	6.9	5.6	6.9	6.7	6.5	6.5	5.9	6.0	6.1	6.4
35	RAJ4567	N-1A-135	5.5	5.5	6.3	6.0	5.8	6.4	6.8	6.1	6.4	6.1
36	RAJ4566	N-1A-136	6.4	5.5	5.5	6.4	5.9	6.3	6.7	6.6	6.5	6.2
Mean			5.8	5.7	5.7	5.9	5.8	5.8	5.9	5.8	5.8	5.8

Table 2: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT-1A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Mean	Kanpur	Varanasi	Sabour	Mean	
1	HD3420	N-1A-101	74.8	79.3	80.0	78.3	78.1	77.5	77.3	74.0	76.3	77.3
2	KRL2002	N-1A-102	68.3	75.5	75.8	72.0	72.9	71.5	72.5	70.5	71.5	72.3
3	PBW883	N-1A-103	73.0	77.5	80.0	76.8	76.8	76.3	76.8	70.8	74.6	75.9
4	DBW383	N-1A-104	77.0	79.5	79.5	79.3	78.8	77.3	77.5	74.5	76.4	77.8
5	JAUW695	N-1A-105	69.5	76.0	72.0	74.0	72.9	73.3	75.3	69.8	72.8	72.8
6	PBW886	N-1A-106	78.0	80.0	80.0	78.8	79.2	79.0	79.3	76.3	78.2	78.8
7	HD3421	N-1A-107	73.3	76.8	75.0	76.5	75.4	76.3	77.0	70.8	74.7	75.1
8	DBW382	N-1A-108	73.3	78.5	76.0	76.5	76.1	75.3	76.0	71.3	74.2	75.3
9	UP3101	N-1A-109	72.8	79.3	76.5	77.0	76.4	76.0	77.3	72.5	75.3	75.9
10	NW8046	N-1A-110	72.5	76.5	78.5	76.8	76.1	75.8	77.3	72.3	75.1	75.6
11	HD3086(C)	N-1A-111	73.8	77.8	79.3	78.0	77.2	76.3	77.5	72.5	75.4	76.4
12	UP3102	N-1A-112	72.8	76.5	78.3	78.3	76.4	77.8	79.0	73.8	76.8	76.6
13	RAJ4568	N-1A-113	76.5	78.5	79.0	78.3	78.1	77.5	78.3	75.0	76.9	77.6
14	DBW222(C)	N-1A-114	71.3	76.8	78.0	77.0	75.8	75.5	75.0	70.8	73.8	74.9
15	HUW849	N-1A-115	74.3	73.8	77.5	77.0	75.6	76.5	76.8	73.5	75.6	75.6
16	WH1302	N-1A-116	71.5	77.5	78.5	77.8	76.3	76.5	76.0	73.3	75.3	75.9
17	BRW3921	N-1A-117	75.8	80.0	81.0	79.3	79.0	78.3	78.8	75.5	77.5	78.4
18	DBW379	N-1A-118	72.8	75.3	79.8	77.3	76.3	77.8	77.8	73.3	76.3	76.3
19	DBW380	N-1A-119	71.3	78.8	78.8	78.5	76.8	75.5	76.0	73.3	74.9	76.0
20	RVW4350	N-1A-120	70.3	79.0	79.8	78.3	76.8	77.8	78.5	75.3	77.2	77.0
21	K2101	N-1A-121	73.8	77.5	76.0	76.0	75.8	76.3	76.5	67.8	73.5	74.8
22	PBW884	N-1A-122	75.3	79.5	80.8	79.3	78.7	77.0	78.3	75.0	76.8	77.9
23	WH1303	N-1A-123	75.0	78.5	78.0	76.5	77.0	76.0	77.3	73.5	75.6	76.4
24	UBW16	N-1A-124	71.3	76.0	78.0	76.8	75.5	73.8	76.5	71.0	73.8	74.8
25	HD3419	N-1A-125	70.8	77.3	80.0	76.8	76.2	77.0	76.5	74.0	75.8	76.0
26	HP1974	N-1A-126	73.3	75.8	76.0	76.0	75.3	75.3	74.0	66.8	72.0	73.9
27	UP3103	N-1A-127	73.3	77.0	75.3	77.0	75.6	75.8	76.3	71.5	74.5	75.1
28	PBW885	N-1A-128	73.0	76.0	76.8	75.8	75.4	75.8	75.5	72.0	74.4	75.0
29	DBW187(C)	N-1A-129	70.0	78.0	78.3	77.8	76.0	76.3	77.3	74.5	76.0	76.0
30	DBW381	N-1A-130	66.8	74.0	74.3	73.0	72.0	76.5	72.5	67.0	72.0	72.0
31	WH1301	N-1A-131	70.3	77.0	77.8	76.3	75.3	75.5	75.5	70.5	73.8	74.7
32	PBW882	N-1A-132	76.5	77.0	77.8	78.3	77.4	72.0	76.8	71.5	73.4	75.7
33	UP3104	N-1A-133	72.3	76.0	75.8	74.0	74.5	74.3	74.0	70.8	73.0	73.9
34	BW17R6045	N-1A-134	76.5	80.0	80.3	79.0	78.9	77.0	78.3	75.8	77.0	78.1
35	RAJ4567	N-1A-135	76.0	79.5	79.8	79.0	78.6	77.8	79.0	74.8	77.2	78.0
36	RAJ4566	N-1A-136	75.5	79.8	78.8	76.5	77.6	79.3	78.8	77.0	78.3	77.9
Mean			73.1	77.5	78.0	77.0	76.4	76.2	76.7	72.5	75.2	75.9

Table 3: Protein content (%) of at 12% moisture basis of *T. aestivum* genotypes in NIVT-1A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Mean	Kanpur	Varanasi	Sabour	Mean	
1	HD3420	N-1A-101	13.4	10.9	12.5	11.8	12.2	10.7	8.9	11.1	10.3	11.3
2	KRL2002	N-1A-102	12.6	9.8	13.2	10.7	11.6	12.3	9.8	10.8	10.9	11.3
3	PBW883	N-1A-103	12.1	9.6	12.6	10.8	11.3	11.2	9.3	11.3	10.6	11.0
4	DBW383	N-1A-104	11.5	10.0	13.1	11.9	11.6	11.6	9.0	12.3	10.9	11.3
5	JAUW695	N-1A-105	12.5	9.8	13.1	10.5	11.5	11.2	9.2	12.4	10.9	11.3
6	PBW886	N-1A-106	11.5	10.3	13.5	10.9	11.5	11.3	9.3	10.8	10.5	11.1
7	HD3421	N-1A-107	11.0	10.8	14.1	10.0	11.5	12.1	9.2	12.8	11.4	11.4
8	DBW382	N-1A-108	11.7	10.5	12.4	9.7	11.1	13.6	10.7	12.1	12.1	11.5
9	UP3101	N-1A-109	11.6	9.8	12.9	10.2	11.1	11.5	8.5	10.5	10.1	10.7
10	NW8046	N-1A-110	12.3	10.9	12.1	9.9	11.3	12.5	9.0	11.3	10.9	11.1
11	HD3086(C)	N-1A-111	11.0	10.9	11.8	10.6	11.1	10.4	9.5	11.2	10.4	10.8
12	UP3102	N-1A-112	12.5	10.8	12.6	10.4	11.6	11.4	9.3	10.8	10.5	11.1
13	RAJ4568	N-1A-113	13.3	11.2	13.4	11.4	12.3	13.4	10.6	11.9	12.0	12.2
14	DBW222(C)	N-1A-114	11.1	9.3	11.6	10.7	10.7	11.2	9.5	10.9	10.5	10.6
15	HUW849	N-1A-115	12.3	10.7	12.2	10.3	11.4	12.9	9.8	11.7	11.5	11.4
16	WH1302	N-1A-116	12.6	10.3	12.3	10.4	11.4	11.4	9.8	10.4	10.5	11.0
17	BRW3921	N-1A-117	12.5	11.7	11.7	10.6	11.6	11.6	9.2	11.2	10.6	11.2
18	DBW379	N-1A-118	12.8	10.1	12.8	11.2	11.7	11.6	10.1	11.2	11.0	11.4
19	DBW380	N-1A-119	13.0	9.8	12.3	10.0	11.3	12.3	9.3	10.9	10.8	11.1
20	RVW4350	N-1A-120	12.0	10.3	12.7	10.2	11.3	11.6	9.7	10.8	10.7	11.0
21	K2101	N-1A-121	12.3	10.5	12.8	11.2	11.7	12.4	9.7	13.0	11.7	11.7
22	PBW884	N-1A-122	12.5	11.4	13.6	11.5	12.2	12.0	9.4	11.6	11.0	11.7
23	WH1303	N-1A-123	12.3	9.7	13.2	11.6	11.7	12.4	9.2	10.7	10.8	11.3
24	UBW16	N-1A-124	13.3	9.3	12.0	11.6	11.5	10.9	8.9	11.2	10.3	11.0
25	HD3419	N-1A-125	13.3	12.1	12.8	11.2	12.4	11.0	9.8	11.9	10.9	11.7
26	HP1974	N-1A-126	12.8	11.1	13.0	11.2	12.0	11.4	10.0	12.7	11.4	11.7
27	UP3103	N-1A-127	11.9	11.3	12.4	10.0	11.4	10.2	8.5	10.9	9.9	10.7
28	PBW885	N-1A-128	13.4	11.6	14.4	11.9	12.8	12.3	9.7	11.0	11.0	12.1
29	DBW187(C)	N-1A-129	12.3	11.6	13.5	10.8	12.1	12.2	9.2	11.0	10.8	11.5
30	DBW381	N-1A-130	12.1	11.2	13.1	11.5	12.0	12.7	10.3	12.5	11.8	11.9
31	WH1301	N-1A-131	11.2	9.4	11.9	10.6	10.8	11.2	8.8	11.0	10.3	10.6
32	PBW882	N-1A-132	11.0	10.2	12.9	11.4	11.4	12.9	9.9	12.0	11.6	11.5
33	UP3104	N-1A-133	11.9	9.3	11.7	10.4	10.8	11.2	10.3	10.9	10.8	10.8
34	BW17R6045	N-1A-134	11.0	10.4	12.4	11.0	11.2	11.6	9.2	10.9	10.6	10.9
35	RAJ4567	N-1A-135	11.1	11.2	12.2	10.6	11.3	10.7	9.1	11.1	10.3	10.8
36	RAJ4566	N-1A-136	12.2	11.3	14.1	12.5	12.5	11.7	9.8	11.3	10.9	11.8
Mean			12.2	10.5	12.7	10.9	11.6	11.7	9.5	11.4	10.9	11.3

Table 4: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT-1A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Mean	Kanpur	Varanasi	Sabour	Mean	
1	HD3420	N-1A-101	59	35	51	46	48	47	45	46	46	47
2	KRL2002	N-1A-102	66	42	58	64	57	61	50	49	53	56
3	PBW883	N-1A-103	65	42	62	57	56	54	50	53	52	54
4	DBW383	N-1A-104	65	38	52	53	52	50	48	49	49	50
5	JAUW695	N-1A-105	67	50	65	60	60	58	55	61	58	59
6	PBW886	N-1A-106	52	40	53	44	47	41	44	43	43	45
7	HD3421	N-1A-107	62	45	58	49	53	53	52	58	54	54
8	DBW382	N-1A-108	51	39	51	46	47	44	42	41	42	45
9	UP3101	N-1A-109	63	39	63	49	53	51	47	50	49	52
10	NW8046	N-1A-110	55	40	56	49	50	41	44	45	43	47
11	HD3086(C)	N-1A-111	62	39	62	50	53	53	46	48	49	51
12	UP3102	N-1A-112	55	41	59	51	51	46	45	44	45	49
13	RAJ4568	N-1A-113	51	39	46	46	45	42	39	41	41	43
14	DBW222(C)	N-1A-114	64	43	59	56	55	56	50	47	51	53
15	HUW849	N-1A-115	62	43	58	55	54	50	46	48	48	52
16	WH1302	N-1A-116	62	40	52	55	52	53	50	43	48	50
17	BRW3921	N-1A-117	64	37	55	54	52	49	44	43	45	49
18	DBW379	N-1A-118	58	39	54	54	51	51	50	43	48	50
19	DBW380	N-1A-119	66	41	58	55	55	53	50	50	51	53
20	RVW4350	N-1A-120	64	36	51	52	51	46	42	47	45	48
21	K2101	N-1A-121	66	40	58	52	54	52	50	50	50	52
22	PBW884	N-1A-122	52	36	45	40	43	41	41	37	39	41
23	WH1303	N-1A-123	65	44	56	55	55	55	53	56	54	55
24	UBW16	N-1A-124	67	48	59	57	58	59	28	56	47	53
25	HD3419	N-1A-125	66	51	61	61	60	56	48	48	50	56
26	HP1974	N-1A-126	58	38	49	47	48	52	47	47	48	48
27	UP3103	N-1A-127	66	41	48	59	54	53	51	54	53	53
28	PBW885	N-1A-128	57	45	52	45	50	46	53	45	48	49
29	DBW187(C)	N-1A-129	66	45	67	55	58	45	54	54	51	55
30	DBW381	N-1A-130	62	51	60	61	58	48	53	52	51	55
31	WH1301	N-1A-131	62	43	65	56	56	61	54	54	56	56
32	PBW882	N-1A-132	63	50	52	47	53	65	43	41	49	51
33	UP3104	N-1A-133	49	38	50	45	45	40	40	43	41	43
34	BW17R6045	N-1A-134	60	35	54	49	49	53	42	42	46	48
35	RAJ4567	N-1A-135	63	46	58	56	55	55	52	52	53	54
36	RAJ4566	N-1A-136	54	35	46	42	44	45	44	41	43	44
Mean			61	41	55	52	52	50	47	48	48	51

Table 5: Phenol reaction score (Max. 10) of *T. aestivum* genotypes in NIVT-1A

Sr. No.	Entry	Trial Code	NWPZ				NEPZ					Overall Mean
			Ludhiana	Hisar	Delhi	Pantnagar	Mean	Kanpur	Varanasi	Sabour	Mean	
1	HD3420	N-1A-101	2.6	3.2	3.5	2.3	2.9	3.4	3.2	2.7	3.1	3.0
2	KRL2002	N-1A-102	3.3	5.8	4.7	3.1	4.2	3.7	3.5	3.9	3.7	4.0
3	PBW883	N-1A-103	3.7	8.0	4.7	3.3	4.9	6.3	3.9	5.8	5.3	5.1
4	DBW383	N-1A-104	4.1	8.4	6.1	3.9	5.6	3.6	4.3	5.4	4.4	5.1
5	JAUW695	N-1A-105	5.1	5.0	4.4	4.1	4.7	3.3	5.0	5.8	4.7	4.7
6	PBW886	N-1A-106	5.0	5.7	6.9	5.5	5.8	3.5	3.7	4.4	3.9	5.0
7	HD3421	N-1A-107	3.3	4.5	4.4	2.7	3.7	3.7	3.3	4.7	3.9	3.8
8	DBW382	N-1A-108	6.6	5.3	5.7	6.7	6.1	3.2	4.4	5.6	4.4	5.4
9	UP3101	N-1A-109	4.6	8.0	5.7	4.1	5.6	6.6	7.0	6.9	6.8	6.1
10	NW8046	N-1A-110	5.4	6.6	5.7	4.3	5.5	6.5	7.2	6.5	6.7	6.0
11	HD3086(C)	N-1A-111	4.6	5.0	5.9	4.2	4.9	6.4	4.6	5.7	5.6	5.2
12	UP3102	N-1A-112	4.5	4.9	6.3	4.4	5.0	3.6	6.3	5.1	5.0	5.0
13	RAJ4568	N-1A-113	4.3	6.9	5.7	6.0	5.7	6.4	6.9	5.5	6.3	6.0
14	DBW222(C)	N-1A-114	5.0	4.7	6.3	5.8	5.5	3.4	5.3	6.9	5.2	5.3
15	HUW849	N-1A-115	4.1	4.9	5.9	5.6	5.1	6.1	3.7	5.8	5.2	5.2
16	WH1302	N-1A-116	2.3	2.5	2.9	2.1	2.4	2.4	2.8	2.7	2.6	2.5
17	BRW3921	N-1A-117	4.7	5.8	4.4	5.5	5.1	6.1	3.5	5.3	5.0	5.0
18	DBW379	N-1A-118	5.4	3.9	4.7	5.3	4.8	3.2	6.8	4.6	4.9	4.8
19	DBW380	N-1A-119	4.1	4.9	6.9	5.6	5.4	6.6	6.3	5.9	6.3	5.8
20	RVW4350	N-1A-120	3.5	2.8	3.7	2.5	3.1	3.4	2.4	2.9	2.9	3.0
21	K2101	N-1A-121	3.6	3.8	6.1	4.6	4.5	4.2	4.4	6.4	5.0	4.7
22	PBW884	N-1A-122	4.3	3.7	5.7	4.7	4.6	4.2	4.1	6.8	5.0	4.8
23	WH1303	N-1A-123	6.0	4.5	5.6	7.0	5.8	6.5	7.2	6.4	6.7	6.2
24	UBW16	N-1A-124	4.5	4.5	5.5	4.9	4.9	4.2	4.1	5.6	4.6	4.8
25	HD3419	N-1A-125	4.4	3.6	3.9	4.3	4.1	3.6	6.5	4.5	4.9	4.4
26	HP1974	N-1A-126	5.5	6.8	4.1	6.2	5.6	4.5	6.2	5.7	5.5	5.6
27	UP3103	N-1A-127	5.8	5.3	6.6	5.0	5.7	6.7	3.6	7.0	5.8	5.7
28	PBW885	N-1A-128	5.8	6.6	3.3	5.2	5.2	3.3	2.9	6.9	4.4	4.9
29	DBW187(C)	N-1A-129	5.7	6.1	4.0	6.2	5.5	3.1	6.4	7.2	5.6	5.5
30	DBW381	N-1A-130	7.1	3.6	3.5	8.0	5.5	2.2	3.3	6.8	4.1	4.9
31	WH1301	N-1A-131	7.1	4.4	5.6	8.1	6.3	5.6	3.9	4.4	4.6	5.6
32	PBW882	N-1A-132	2.1	2.6	2.4	2.3	2.3	5.7	2.2	2.3	3.4	2.8
33	UP3104	N-1A-133	2.3	2.9	2.5	2.4	2.5	2.9	2.2	2.3	2.5	2.5
34	BW17R6045	N-1A-134	2.1	3.3	3.0	2.6	2.7	2.8	2.3	2.2	2.4	2.6
35	RAJ4567	N-1A-135	3.7	6.1	5.7	6.0	5.4	5.9	3.2	5.4	4.8	5.1
36	RAJ4566	N-1A-136	2.0	2.4	2.3	2.1	2.2	2.2	2.1	2.0	2.1	2.2
Mean			4.4	4.9	4.8	4.6	4.7	4.4	4.4	5.1	4.6	4.7

Table 6: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT-1B

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Kanpur	Sabour	Varanasi	Mean	
1	HUW850	201	6.0	6.0	5.0	6.0	5.8	5.0	7.0	5.0	5.7	5.7
2	KRL2020	202	5.0	6.0	5.0	7.0	5.8	6.0	7.0	5.0	6.0	5.9
3	RAJ4569	203	6.0	7.0	6.0	7.0	6.5	7.0	6.0	6.0	6.3	6.4
4	PBW888	204	5.0	6.0	6.0	8.0	6.3	6.0	7.0	6.0	6.3	6.3
5	WH1305	205	6.0	7.0	7.0	6.0	6.5	7.0	6.0	6.0	6.3	6.4
6	DBW222(C)	206	7.0	6.0	7.0	5.0	6.3	6.0	7.0	5.0	6.0	6.1
7	UP3106	207	5.0	6.0	6.0	7.0	6.0	7.0	7.0	6.0	6.7	6.3
8	RAJ4570	208	6.0	7.0	5.0	6.0	6.0	5.0	5.0	7.0	5.7	5.9
9	DBW386	209	7.0	6.0	7.0	8.0	7.0	6.0	6.0	6.0	6.0	6.6
10	AAI-W49	210	6.0	6.0	6.0	7.0	6.3	7.0	6.0	7.0	6.7	6.4
11	DBW187(C)	211	6.0	5.0	7.0	6.0	6.0	8.0	6.0	5.0	6.3	6.1
12	K2103	212	7.0	6.0	7.0	5.0	6.3	6.0	6.0	6.0	6.0	6.1
13	NW8044	213	7.0	7.0	7.0	8.0	7.3	6.0	6.0	6.0	6.0	6.7
14	UP3105	214	6.0	6.0	6.0	8.0	6.5	6.0	5.0	5.0	5.3	6.0
15	DBW379	215	6.0	6.0	6.0	7.0	6.3	8.0	7.0	6.0	7.0	6.6
16	DBW384	216	5.0	6.0	6.0	7.0	6.0	6.0	6.0	7.0	6.3	6.1
17	HUW851	217	6.0	6.0	6.0	6.0	6.0	7.0	5.0	6.0	6.0	6.0
18	TAW142	218	6.0	6.0	7.0	8.0	6.8	6.0	6.0	5.0	5.7	6.3
19	WH1304	219	6.0	7.0	5.0	7.0	6.3	5.0	6.0	6.0	5.7	6.0
20	HI1668	220	7.0	7.0	6.0	6.0	6.5	8.0	7.0	7.0	7.3	6.9
21	PBW887	221	6.0	7.0	6.0	8.0	6.8	6.0	7.0	7.0	6.7	6.7
22	NWS2214	222	5.0	8.0	6.0	8.0	6.8	7.0	6.0	6.0	6.3	6.6
23	K2105	223	5.0	6.0	7.0	6.0	6.0	6.0	6.0	7.0	6.3	6.1
24	DBW385	224	6.0	6.0	7.0	6.0	6.3	5.0	5.0	6.0	5.3	5.9
25	BRW3910	225	8.0	5.0	6.0	7.0	6.5	6.0	6.0	7.0	6.3	6.4
26	RVW4353	226	5.0	7.0	7.0	8.0	6.8	6.0	7.0	7.0	6.7	6.7
27	PBW890	227	7.0	7.0	6.0	7.0	6.8	6.0	6.0	7.0	6.3	6.6
28	NW8049	228	8.0	6.0	6.0	8.0	7.0	7.0	5.0	6.0	6.0	6.6
29	HD3423	229	7.0	7.0	5.0	7.0	6.5	5.0	5.0	7.0	5.7	6.1
30	HD3086(C)	230	6.0	8.0	6.0	7.0	6.8	6.0	6.0	7.0	6.3	6.6
31	JKW297	231	7.0	6.0	6.0	8.0	6.8	6.0	6.0	6.0	6.0	6.4
32	BRW3926	232	6.0	7.0	5.0	8.0	6.5	7.0	5.0	5.0	5.7	6.1
33	K2104	233	7.0	6.0	6.0	6.0	6.3	6.0	6.0	6.0	6.0	6.1
34	HP1975	234	7.0	7.0	5.0	7.0	6.5	7.0	5.0	7.0	6.3	6.4
35	PBW889	235	6.0	6.0	7.0	8.0	6.8	7.0	7.0	6.0	6.7	6.7
36	HD3422	236	7.0	7.0	7.0	6.0	6.8	6.0	6.0	6.0	6.0	6.4
Mean			6.2	6.4	6.1	6.9	6.4	6.3	6.1	6.1	6.2	6.3

Table 7: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT-1B

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Kanpur	Sabour	Varanasi	Mean	
1	HUW850	201	74.0	78.3	77.7	79.8	77.5	77.5	76.3	77.5	77.1	77.3
2	KRL2020	202	74.5	74.8	75.3	80.2	76.2	72.7	73.6	75.7	74.0	75.3
3	RAJ4569	203	71.2	75.7	77.4	76.8	75.3	75.3	73.4	75.5	74.7	75.0
4	PBW888	204	69.7	72.4	73.5	73.8	72.4	69.3	68.0	72.1	69.8	71.3
5	WH1305	205	69.5	75.6	75.9	77.2	74.6	72.9	70.9	76.0	73.3	74.0
6	DBW222(C)	206	70.6	77.7	76.1	75.3	74.9	74.0	71.6	75.2	73.6	74.4
7	UP3106	207	75.0	81.0	77.1	79.2	78.1	75.6	74.2	75.4	75.1	76.8
8	RAJ4570	208	74.1	77.8	75.5	77.2	76.2	74.9	70.3	76.5	73.9	75.2
9	DBW386	209	76.4	80.9	78.5	79.6	78.9	77.7	77.1	77.9	77.6	78.3
10	AAI-W49	210	66.0	67.6	72.3	72.2	69.5	72.7	73.1	72.0	72.6	70.8
11	DBW187(C)	211	75.9	77.0	77.1	78.6	77.2	74.5	73.4	76.4	74.8	76.1
12	K2103	212	71.0	77.0	75.3	72.8	74.0	78.0	75.3	76.4	76.6	75.1
13	NW8044	213	75.4	78.6	75.2	78.8	77.0	75.7	69.6	76.5	73.9	75.7
14	UP3105	214	75.9	77.6	77.5	78.0	77.3	76.0	69.9	76.5	74.1	75.9
15	DBW379	215	71.6	75.3	77.0	78.1	75.5	78.0	76.3	77.0	77.1	76.2
16	DBW384	216	72.1	77.5	76.9	77.8	76.1	77.2	72.0	77.3	75.5	75.8
17	HUW851	217	77.8	82.1	79.4	80.7	80.0	79.0	78.0	78.9	78.6	79.4
18	TAW142	218	74.3	74.9	77.8	78.0	76.3	75.5	72.9	77.1	75.2	75.8
19	WH1304	219	74.8	79.3	80.3	80.3	78.7	79.5	77.9	79.3	78.9	78.8
20	HI1668	220	74.7	76.5	74.3	78.4	76.0	76.3	77.0	76.3	76.5	76.2
21	PBW887	221	77.1	79.3	80.0	78.6	78.8	78.0	74.4	78.4	76.9	78.0
22	NWS2214	222	72.5	78.3	77.7	78.6	76.8	76.7	74.1	76.8	75.9	76.4
23	K2105	223	74.4	73.3	78.0	77.5	75.8	76.4	68.5	75.1	73.3	74.7
24	DBW385	224	77.3	80.2	78.2	79.8	78.9	78.8	76.0	78.8	77.9	78.4
25	BRW3910	225	77.0	76.7	78.9	80.3	78.2	77.8	75.3	76.0	76.4	77.4
26	RVW4353	226	68.5	76.5	75.5	76.5	74.3	74.9	73.7	76.1	74.9	74.5
27	PBW890	227	74.0	79.0	77.1	75.3	76.4	74.8	71.9	76.3	74.3	75.5
28	NW8049	228	75.2	77.1	77.8	79.6	77.4	77.5	74.4	76.5	76.1	76.9
29	HD3423	229	76.8	79.1	79.5	78.2	78.4	78.0	77.6	76.4	77.3	77.9
30	HD3086(C)	230	75.7	79.2	78.3	79.2	78.1	74.9	71.9	76.5	74.4	76.5
31	JKW297	231	73.1	80.4	74.5	76.0	76.0	75.2	71.0	74.3	73.5	74.9
32	BRW3926	232	75.3	77.2	78.5	80.2	77.8	79.3	73.9	78.6	77.3	77.6
33	K2104	233	76.0	78.8	77.4	80.5	78.2	76.5	74.0	78.5	76.3	77.4
34	HP1975	234	72.7	74.5	77.4	77.8	75.6	76.2	74.7	74.6	75.2	75.4
35	PBW889	235	78.3	80.6	78.4	80.8	79.5	78.6	76.3	76.9	77.3	78.6
36	HD3422	236	75.3	76.0	75.9	77.2	76.1	78.2	71.3	77.1	75.5	75.9
Mean			74.0	77.3	77.0	78.0	76.6	76.2	73.6	76.5	75.4	76.1

Table 8: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT-1B

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Kanpur	Sabour	Varanasi	Mean	
1	HUW850	201	12.3	12.0	10.2	10.6	11.3	10.5	11.1	10.2	10.6	11.0
2	KRL2020	202	12.7	13.7	10.6	9.9	11.7	11.0	11.0	9.5	10.5	11.2
3	RAJ4569	203	12.4	13.1	10.3	11.6	11.8	10.5	11.7	9.9	10.7	11.3
4	PBW888	204	11.1	12.7	9.8	10.8	11.1	10.8	12.6	9.7	11.0	11.1
5	WH1305	205	12.3	12.8	11.8	10.4	11.8	11.0	12.1	10.2	11.1	11.5
6	DBW222(C)	206	10.5	11.9	10.6	11.0	11.0	11.0	12.1	9.9	11.0	11.0
7	UP3106	207	12.4	12.1	12.5	11.1	12.1	11.4	13.2	9.9	11.5	11.8
8	RAJ4570	208	12.3	11.9	11.1	10.3	11.4	10.9	11.1	9.2	10.4	10.9
9	DBW386	209	10.9	11.4	10.5	10.2	10.8	9.5	10.3	9.3	9.7	10.3
10	AAI-W49	210	12.8	12.8	12.3	11.2	12.3	10.1	10.7	10.2	10.3	11.4
11	DBW187(C)	211	10.3	14.2	10.9	11.5	11.7	11.2	11.4	9.8	10.8	11.3
12	K2103	212	13.3	13.8	10.4	12.1	12.4	9.7	10.0	8.5	9.4	11.1
13	NW8044	213	11.5	13.7	11.9	10.0	11.8	10.8	12.4	10.2	11.1	11.5
14	UP3105	214	11.8	12.1	11.5	10.2	11.4	10.6	13.8	9.8	11.4	11.4
15	DBW379	215	13.3	13.5	12.2	10.8	12.4	9.9	11.9	9.4	10.4	11.6
16	DBW384	216	12.4	12.8	11.1	11.3	11.9	10.8	13.9	10.1	11.6	11.8
17	HUW851	217	13.1	12.0	10.5	11.4	11.8	11.4	11.5	9.7	10.9	11.4
18	TAW142	218	13.5	14.4	11.5	10.4	12.5	11.6	13.8	9.4	11.6	12.1
19	WH1304	219	13.2	12.5	11.6	11.7	12.2	10.5	11.2	9.4	10.4	11.4
20	HI1668	220	11.4	13.2	11.7	9.4	11.4	11.0	11.1	9.2	10.4	11.0
21	PBW887	221	11.4	13.2	11.3	10.6	11.6	9.6	12.0	9.0	10.2	11.0
22	NWS2214	222	11.6	13.0	11.2	10.4	11.5	9.3	11.1	9.3	9.9	10.8
23	K2105	223	11.0	12.3	10.2	9.0	10.6	9.4	13.1	10.2	10.9	10.7
24	DBW385	224	12.3	12.8	11.1	9.5	11.4	10.1	12.6	9.1	10.6	11.1
25	BRW3910	225	13.6	13.7	11.2	11.2	12.4	12.6	13.4	11.3	12.4	12.4
26	RVW4353	226	13.2	12.4	10.3	9.4	11.3	10.7	11.8	10.0	10.8	11.1
27	PBW890	227	12.0	12.2	10.6	12.4	11.8	11.1	12.1	9.5	10.9	11.4
28	NW8049	228	10.9	14.2	11.5	10.2	11.7	10.6	10.9	9.7	10.4	11.2
29	HD3423	229	12.7	12.9	10.7	11.3	11.9	10.2	10.8	11.0	10.6	11.4
30	HD3086(C)	230	12.4	13.0	10.3	9.8	11.4	10.1	13.2	9.5	10.9	11.2
31	JKW297	231	13.4	12.0	11.8	11.4	12.1	11.7	12.9	11.1	11.9	12.0
32	BRW3926	232	13.5	14.9	12.5	11.5	13.1	10.4	12.8	10.2	11.1	12.3
33	K2104	233	11.7	13.5	10.3	10.8	11.6	10.9	13.0	10.0	11.3	11.5
34	HP1975	234	12.5	14.0	11.0	11.2	12.2	11.2	11.6	10.7	11.2	11.7
35	PBW889	235	12.2	12.7	12.7	12.2	12.5	9.8	12.4	10.3	10.8	11.8
36	HD3422	236	12.7	13.5	10.6	11.0	11.9	9.9	13.8	10.3	11.3	11.7
Mean			12.2	13.0	11.1	10.8	11.8	10.6	12.1	9.8	10.8	11.4

Table 9: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT-1B

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Kanpur	Sabour	Varanasi	Mean	
1	HUW850	201	40.0	53.0	58.0	38.0	47.3	38.0	47.0	48.0	44.3	46.0
2	KRL2020	202	40.0	40.0	44.0	42.0	41.5	41.0	43.0	45.0	43.0	42.1
3	RAJ4569	203	38.0	44.0	65.0	45.0	48.0	48.0	49.0	44.0	47.0	47.6
4	PBW888	204	40.0	48.0	43.0	40.0	42.8	46.0	37.0	43.0	42.0	42.4
5	WH1305	205	37.0	46.0	48.0	46.0	44.3	47.0	45.0	46.0	46.0	45.0
6	DBW222(C)	206	41.0	45.0	42.0	46.0	43.5	44.0	46.0	42.0	44.0	43.7
7	UP3106	207	33.0	50.0	38.0	45.0	41.5	48.0	49.0	48.0	48.3	44.4
8	RAJ4570	208	36.0	42.0	34.0	43.0	38.8	43.0	40.0	43.0	42.0	40.1
9	DBW386	209	38.0	40.0	38.0	43.0	39.8	45.0	44.0	39.0	42.7	41.0
10	AAI-W49	210	40.0	40.0	36.0	45.0	40.3	43.0	46.0	38.0	42.3	41.1
11	DBW187(C)	211	48.0	43.0	68.0	48.0	51.8	49.0	46.0	43.0	46.0	49.3
12	K2103	212	31.0	35.0	43.0	35.0	36.0	44.0	47.0	44.0	45.0	39.9
13	NW8044	213	40.0	47.0	47.0	40.0	43.5	45.0	41.0	46.0	44.0	43.7
14	UP3105	214	38.0	45.0	65.0	45.0	48.3	43.0	42.0	45.0	43.3	46.1
15	DBW379	215	36.0	35.0	41.0	48.0	40.0	39.0	49.0	36.0	41.3	40.6
16	DBW384	216	40.0	45.0	58.0	48.0	47.8	44.0	47.0	45.0	45.3	46.7
17	HUW851	217	38.0	37.0	40.0	38.0	38.3	47.0	48.0	36.0	43.7	40.6
18	TAW142	218	45.0	54.0	50.0	59.0	52.0	46.0	43.0	49.0	46.0	49.4
19	WH1304	219	45.0	43.0	53.0	41.0	45.5	48.0	46.0	41.0	45.0	45.3
20	HI1668	220	45.0	48.0	73.0	53.0	54.8	39.0	46.0	47.0	44.0	50.1
21	PBW887	221	35.0	46.0	58.0	30.0	42.3	44.0	41.0	46.0	43.7	42.9
22	NWS2214	222	47.0	51.0	46.0	46.0	47.5	47.0	43.0	49.0	46.3	47.0
23	K2105	223	39.0	53.0	27.0	45.0	41.0	42.0	38.0	44.0	41.3	41.1
24	DBW385	224	35.0	32.0	35.0	28.0	32.5	46.0	42.0	50.0	46.0	38.3
25	BRW3910	225	31.0	33.0	32.0	35.0	32.8	49.0	45.0	44.0	46.0	38.4
26	RVW4353	226	33.0	41.0	49.0	33.0	39.0	39.0	43.0	46.0	42.7	40.6
27	PBW890	227	42.0	50.0	38.0	48.0	44.5	47.0	42.0	39.0	42.7	43.7
28	NW8049	228	50.0	40.0	48.0	44.0	45.5	50.0	44.0	40.0	44.7	45.1
29	HD3423	229	35.0	34.0	48.0	37.0	38.5	48.0	46.0	37.0	43.7	40.7
30	HD3086(C)	230	41.0	35.0	44.0	40.0	40.0	47.0	45.0	41.0	44.3	41.9
31	JKW297	231	38.0	47.0	38.0	44.0	41.8	44.0	40.0	35.0	39.7	40.9
32	BRW3926	232	37.0	33.0	40.0	46.0	39.0	42.0	41.0	41.0	41.3	40.0
33	K2104	233	30.0	30.0	35.0	37.0	33.0	43.0	42.0	38.0	41.0	36.4
34	HP1975	234	35.0	53.0	56.0	35.0	44.8	49.0	44.0	49.0	47.3	45.9
35	PBW889	235	35.0	34.0	46.0	45.0	40.0	47.0	47.0	41.0	45.0	42.1
36	HD3422	236	30.0	44.0	34.0	38.0	36.5	44.0	40.0	40.0	41.3	38.6
Mean			38.4	42.7	46.1	42.2	42.3	44.9	44.0	43.0	44.0	43.0

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

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Kanpur	Sabour	Varanasi	Mean	
1	HUW850	201	5.0	6.0	6.0	5.0	5.5	6.0	7.0	5.0	6.0	5.7
2	KRL2020	202	7.0	7.0	5.0	5.0	6.0	5.0	6.0	5.0	5.3	5.7
3	RAJ4569	203	6.0	6.0	5.0	6.0	5.8	4.0	6.0	4.0	4.7	5.3
4	PBW888	204	6.0	5.0	6.0	5.0	5.5	5.0	7.0	5.0	5.7	5.6
5	WH1305	205	5.0	7.0	6.0	6.0	6.0	6.0	5.0	5.0	5.3	5.7
6	DBW222(C)	206	5.0	7.0	5.0	4.0	5.3	6.0	6.0	6.0	6.0	5.6
7	UP3106	207	6.0	8.0	8.0	5.0	6.8	7.0	7.0	8.0	7.3	7.0
8	RAJ4570	208	7.0	6.0	6.0	5.0	6.0	7.0	7.0	7.0	7.0	6.4
9	DBW386	209	6.0	5.0	8.0	6.0	6.3	6.0	7.0	7.0	6.7	6.4
10	AAI-W49	210	5.0	6.0	5.0	6.0	5.5	5.0	6.0	5.0	5.3	5.4
11	DBW187(C)	211	5.0	7.0	6.0	5.0	5.8	7.0	6.0	4.0	5.7	5.7
12	K2103	212	6.0	8.0	5.0	7.0	6.5	7.0	5.0	6.0	6.0	6.3
13	NW8044	213	6.0	7.0	8.0	7.0	7.0	8.0	5.0	6.0	6.3	6.7
14	UP3105	214	5.0	8.0	4.0	6.0	5.8	7.0	7.0	5.0	6.3	6.0
15	DBW379	215	7.0	7.0	6.0	5.0	6.3	7.0	8.0	6.0	7.0	6.6
16	DBW384	216	4.0	7.0	6.0	6.0	5.8	6.0	6.0	5.0	5.7	5.7
17	HUW851	217	5.0	7.0	5.0	7.0	6.0	8.0	5.0	5.0	6.0	6.0
18	TAW142	218	7.0	6.0	6.0	5.0	6.0	5.0	6.0	5.0	5.3	5.7
19	WH1304	219	6.0	5.0	6.0	6.0	5.8	5.0	7.0	6.0	6.0	5.9
20	HI1668	220	7.0	6.0	7.0	7.0	6.8	7.0	8.0	5.0	6.7	6.7
21	PBW887	221	7.0	7.0	8.0	4.0	6.5	6.0	7.0	7.0	6.7	6.6
22	NWS2214	222	7.0	6.0	6.0	7.0	6.5	7.0	7.0	6.0	6.7	6.6
23	K2105	223	7.0	6.0	6.0	5.0	6.0	7.0	7.0	5.0	6.3	6.1
24	DBW385	224	8.0	7.0	7.0	7.0	7.3	6.0	8.0	4.0	6.0	6.7
25	BRW3910	225	8.0	7.0	6.0	6.0	6.8	5.0	6.0	8.0	6.3	6.6
26	RVW4353	226	7.0	6.0	7.0	7.0	6.8	6.0	8.0	6.0	6.7	6.7
27	PBW890	227	7.0	5.0	6.0	8.0	6.5	5.0	7.0	7.0	6.3	6.4
28	NW8049	228	8.0	6.0	7.0	7.0	7.0	6.0	6.0	5.0	5.7	6.4
29	HD3423	229	8.0	7.0	6.0	8.0	7.3	6.0	7.0	5.0	6.0	6.7
30	HD3086(C)	230	8.0	8.0	6.0	7.0	7.3	7.0	7.0	6.0	6.7	7.0
31	JKW297	231	8.0	8.0	7.0	7.0	7.5	7.0	8.0	7.0	7.3	7.4
32	BRW3926	232	7.0	7.0	7.0	6.0	6.8	8.0	7.0	8.0	7.7	7.1
33	K2104	233	8.0	7.0	8.0	7.0	7.5	8.0	7.0	8.0	7.7	7.6
34	HP1975	234	7.0	8.0	7.0	7.0	7.3	7.0	8.0	8.0	7.7	7.4
35	PBW889	235	7.0	8.0	7.0	8.0	7.5	8.0	7.0	9.0	8.0	7.7
36	HD3422	236	8.0	7.0	6.0	7.0	7.0	8.0	8.0	9.0	8.3	7.6
Mean			6.6	6.7	6.3	6.2	6.4	6.4	6.7	6.1	6.4	6.4

Table 11: Grain appearance score (Max. 10) of *T. aestivum* genotypes in NIVT 2

Sr. No	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P'kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	MACS6815	N-2-301	6.6	6.7	6.2	6.3	6.4	6.5	5.7	5.7	6.0	6.2
2	MACS6811	N-2-302	6.5	5.7	6.2	5.5	5.9	6.0	6.5	5.7	6.1	6.0
3	UAS3020	N-2-303	6.6	6.2	6.4	6.4	6.4	6.6	6.5	6.0	6.3	6.4
4	MP1386	N-2-304	6.6	6.2	6.4	6.2	6.3	6.1	6.6	5.9	6.2	6.3
5	MP3558	N-2-305	6.7	7.1	6.8	6.8	6.8	6.8	6.8	6.4	6.6	6.7
6	HI1670	N-2-306	7.1	7.0	6.7	6.7	6.9	6.7	5.8	6.4	6.3	6.6
7	MACS6222(C)	N-2-307	6.8	6.9	6.3	6.7	6.6	6.1	6.3	5.6	6.0	6.4
8	PWU15	N-2-308	6.6	7.1	6.4	6.7	6.7	6.9	5.9	5.9	6.2	6.5
9	HI1669	N-2-309	6.8	6.9	6.4	6.8	6.7	6.9	6.5	6.2	6.5	6.6
10	MP1387	N-2-310	6.6	6.6	6.6	6.2	6.5	6.4	6.6	6.2	6.4	6.4
11	BLK-Balaji	N-2-311	7.1	6.0	6.7	5.8	6.4	5.7	6.1	5.2	5.7	6.1
12	MACS6808	N-2-312	6.9	6.7	6.7	6.0	6.6	6.1	6.6	6.5	6.4	6.5
13	CG1043	N-2-313	7.0	6.7	6.7	7.0	6.8	6.9	7.1	6.4	6.8	6.8
14	NWS2222	N-2-314	6.6	6.7	6.5	6.5	6.6	6.5	6.7	6.2	6.4	6.5
15	NIAW4153	N-2-315	6.9	6.8	7.0	6.9	6.9	6.9	6.7	6.3	6.6	6.8
16	UAS3021	N-2-316	6.5	6.9	6.8	7.0	6.8	6.7	6.7	6.8	6.7	6.8
17	MACS6809	N-2-317	7.0	6.9	6.8	7.1	6.9	7.0	6.9	6.5	6.8	6.9
18	HI1544(C)	N-2-318	7.1	7.0	6.9	6.6	6.9	6.9	6.7	6.3	6.6	6.8
19	GW537	N-2-319	7.1	7.1	6.8	6.9	7.0	6.8	6.8	6.0	6.5	6.8
20	WH1306	N-2-320	6.9	6.6	6.8	6.2	6.6	6.7	6.8	6.7	6.7	6.7
21	GW536	N-2-321	6.2	5.4	6.0	5.3	5.7	5.7	6.0	5.8	5.8	5.7
22	HI1671	N-2-322	6.9	6.7	6.5	6.4	6.6	6.2	6.2	5.9	6.1	6.4
23	MP3559	N-2-323	6.5	6.7	6.1	6.8	6.5	6.1	6.2	5.7	6.0	6.3
24	PBW891	N-2-324	6.4	6.6	6.4	6.9	6.6	6.2	5.8	5.5	5.8	6.2
25	HD3424	N-2-325	6.1	5.8	6.0	6.0	6.0	5.7	5.6	5.0	5.4	5.7
26	AKAW5314	N-2-326	7.0	6.9	6.5	7.0	6.8	6.6	6.6	6.6	6.6	6.7
27	RVW4355	N-2-327	6.6	6.8	6.4	6.7	6.6	5.6	6.4	5.6	5.9	6.3
28	NIAW4183	N-2-328	6.9	6.9	6.8	7.0	6.9	6.8	6.8	5.8	6.5	6.7
29	AKAW5100	N-2-329	6.7	7.1	6.5	6.9	6.8	6.2	6.6	5.8	6.2	6.5
30	DBW387	N-2-330	6.7	6.5	6.2	6.5	6.5	6.2	6.2	5.3	5.9	6.2
31	GW322(C)	N-2-331	6.9	6.9	6.5	6.4	6.6	6.4	6.7	6.1	6.4	6.5
32	RVW4358	N-2-332	7.0	6.6	6.5	7.0	6.8	6.6	6.5	5.8	6.3	6.6
33	GW540	N-2-333	6.6	7.0	6.7	6.1	6.6	6.9	6.7	6.6	6.7	6.6
34	DBW388	N-2-334	6.6	6.7	6.6	6.9	6.7	6.8	6.8	5.9	6.5	6.6
35	RAJ4575	N-2-335	7.1	6.7	6.8	6.8	6.8	6.7	6.6	5.9	6.4	6.6
36	GW541	N-2-336	6.9	6.9	6.8	7.1	6.9	6.7	6.6	6.7	6.7	6.8
Mean			6.7	6.6	6.5	6.5	6.6	6.4	6.4	6.0	6.3	6.5

Table 12: Hectoliter weight (kg/hl) of *T. aestivum* genotypes in NIVT 2

Sr. No	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P'kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	MACS6815	N-2-301	80.7	82.4	82.4	80.6	81.5	81.2	82.5	76.2	80.0	80.9
2	MACS6811	N-2-302	78.7	79.9	79.8	78.7	79.3	80.8	81.6	74.9	79.1	79.2
3	UAS3020	N-2-303	79.2	79.8	80.2	79.0	79.5	79.6	80.0	76.7	78.8	79.2
4	MP1386	N-2-304	78.9	79.8	81.1	78.8	79.6	79.3	81.0	72.2	77.5	78.7
5	MP3558	N-2-305	82.6	83.8	83.4	82.0	82.9	82.2	80.7	78.7	80.5	81.9
6	HI1670	N-2-306	83.4	83.1	84.0	81.1	82.9	81.5	82.1	75.0	79.5	81.4
7	MACS6222(C)	N-2-307	80.0	81.9	81.2	80.2	80.8	80.3	81.5	74.2	78.6	79.9
8	PWU15	N-2-308	82.0	82.7	82.7	81.6	82.3	81.5	81.4	75.8	79.6	81.1
9	HI1669	N-2-309	82.9	82.8	82.6	82.0	82.6	81.8	82.3	76.8	80.3	81.6
10	MP1387	N-2-310	80.6	81.8	81.7	79.4	80.9	79.7	81.0	75.9	78.8	80.0
11	BLK-Balaji	N-2-311	80.7	80.9	81.4	79.2	80.5	79.2	81.0	72.9	77.7	79.3
12	MACS6808	N-2-312	82.2	82.8	82.3	81.1	82.1	81.4	81.7	77.5	80.2	81.3
13	CG1043	N-2-313	80.1	81.0	80.7	78.8	80.1	79.8	81.1	75.2	78.7	79.5
14	NWS2222	N-2-314	79.9	82.1	81.3	80.0	80.8	80.5	81.5	77.7	79.9	80.4
15	NIAW4153	N-2-315	77.4	79.5	78.6	77.2	78.2	77.0	79.2	72.8	76.3	77.4
16	UAS3021	N-2-316	78.9	81.7	81.4	79.8	80.5	80.1	82.0	76.7	79.6	80.1
17	MACS6809	N-2-317	82.7	83.2	83.2	81.2	82.5	82.3	82.7	78.5	81.2	82.0
18	HI1544(C)	N-2-318	80.9	81.7	82.0	81.1	81.4	80.6	79.7	75.8	78.7	80.3
19	GW537	N-2-319	83.1	83.3	84.3	81.3	83.0	81.4	81.4	76.1	79.6	81.5
20	WH1306	N-2-320	80.8	82.1	81.6	78.1	80.6	80.9	81.9	77.6	80.1	80.4
21	GW536	N-2-321	79.5	80.3	80.0	77.1	79.2	78.4	80.1	72.4	76.9	78.2
22	HI1671	N-2-322	82.8	83.8	83.6	81.3	82.9	81.4	81.9	78.7	80.6	81.9
23	MP3559	N-2-323	82.2	82.9	82.6	81.1	82.2	80.6	79.1	76.2	78.6	80.7
24	PBW891	N-2-324	78.6	81.1	80.6	78.2	79.6	79.1	79.7	73.9	77.5	78.7
25	HD3424	N-2-325	76.4	78.2	79.1	75.9	77.4	78.9	81.0	72.5	77.5	77.4
26	AKAW5314	N-2-326	81.8	83.1	82.8	81.0	82.2	81.4	82.1	76.7	80.1	81.3
27	RVW4355	N-2-327	80.0	80.8	81.2	78.6	80.1	80.0	81.1	75.4	78.8	79.6
28	NIAW4183	N-2-328	75.2	77.8	77.5	76.3	76.7	76.0	78.7	75.1	76.6	76.6
29	AKAW5100	N-2-329	79.6	81.0	82.1	79.8	80.6	80.0	82.8	75.7	79.5	80.1
30	DBW387	N-2-330	78.6	80.5	80.4	77.7	79.3	79.6	79.6	74.1	77.7	78.6
31	GW322(C)	N-2-331	79.6	81.1	80.1	78.9	79.9	78.2	79.8	74.2	77.4	78.8
32	RVW4358	N-2-332	79.3	80.7	80.5	79.1	79.9	78.3	79.3	71.2	76.3	78.3
33	GW540	N-2-333	82.1	82.7	83.8	81.4	82.5	81.5	81.0	77.3	79.9	81.4
34	DBW388	N-2-334	78.9	81.2	80.5	79.0	79.9	80.5	80.9	75.3	78.9	79.5
35	RAJ4575	N-2-335	79.0	78.5	80.3	77.9	78.9	77.2	79.7	71.0	75.9	77.6
36	GW541	N-2-336	82.3	82.5	83.4	81.4	82.4	81.5	81.6	77.5	80.2	81.4
Mean			80.3	81.5	81.5	79.6	80.7	80.1	81.0	75.4	78.8	79.9

Table 13: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT 2

Sr. No	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P'kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	MACS6815	N-2-301	11.0	12.2	9.0	11.8	11.0	11.8	11.0	12.8	11.9	11.4
2	MACS6811	N-2-302	11.5	11.6	10.1	11.2	11.1	11.4	10.7	11.5	11.2	11.2
3	UAS3020	N-2-303	11.0	11.9	10.0	11.0	11.0	11.7	10.6	12.3	11.5	11.2
4	MP1386	N-2-304	11.5	11.7	9.2	11.6	11.0	11.9	11.1	12.1	11.7	11.3
5	MP3558	N-2-305	11.4	12.0	10.3	11.2	11.2	11.9	10.9	12.3	11.7	11.4
6	HI1670	N-2-306	11.0	12.0	9.6	11.3	11.0	11.7	11.1	11.7	11.5	11.2
7	MACS6222(C)	N-2-307	11.6	12.2	10.1	11.4	11.3	12.1	11.3	13.0	12.1	11.7
8	PWU15	N-2-308	11.0	12.1	10.8	11.2	11.3	12.1	11.2	12.9	12.1	11.6
9	HI1669	N-2-309	10.5	12.1	9.8	11.7	11.0	12.0	10.8	12.5	11.7	11.4
10	MP1387	N-2-310	12.6	13.6	11.7	12.5	12.6	13.5	11.9	15.5	13.6	13.1
11	BLK-Balaji	N-2-311	10.7	12.4	10.3	11.1	11.1	11.7	11.9	13.1	12.2	11.6
12	MACS6808	N-2-312	11.0	12.7	9.5	11.3	11.1	12.2	10.6	12.4	11.7	11.4
13	CG1043	N-2-313	11.0	12.2	9.8	11.5	11.1	12.1	11.1	12.8	12.0	11.5
14	NWS2222	N-2-314	11.6	12.1	10.1	11.7	11.4	12.0	10.7	12.8	11.8	11.6
15	NIAW4153	N-2-315	10.8	11.9	9.4	11.0	10.8	11.8	10.7	12.3	11.6	11.1
16	UAS3021	N-2-316	11.4	12.3	10.1	10.9	11.2	12.1	10.6	12.4	11.7	11.4
17	MACS6809	N-2-317	10.8	12.4	9.5	11.8	11.1	12.3	11.3	13.0	12.2	11.6
18	HI1544(C)	N-2-318	10.8	12.2	10.3	11.0	11.1	11.9	11.4	12.5	12.0	11.5
19	GW537	N-2-319	11.3	12.5	10.0	11.5	11.3	12.0	11.1	12.4	11.9	11.6
20	WH1306	N-2-320	10.4	11.4	10.5	11.3	10.9	11.3	10.5	12.4	11.4	11.1
21	GW536	N-2-321	10.2	10.9	10.3	10.7	10.5	10.8	10.7	11.1	10.9	10.7
22	HI1671	N-2-322	10.3	11.9	9.9	10.8	10.7	11.8	10.4	12.2	11.5	11.1
23	MP3559	N-2-323	11.5	13.2	10.1	11.9	11.7	12.8	11.8	13.9	12.8	12.2
24	PBW891	N-2-324	11.4	12.4	9.5	11.6	11.2	12.6	11.5	14.6	12.9	12.0
25	HD3424	N-2-325	11.8	12.2	10.3	11.8	11.5	12.1	11.6	14.2	12.6	12.0
26	AKAW5314	N-2-326	11.4	12.6	10.3	11.4	11.4	12.5	11.5	12.9	12.3	11.8
27	RVW4355	N-2-327	11.4	12.8	11.0	12.1	11.9	12.6	12.0	12.5	12.4	12.1
28	NIAW4183	N-2-328	11.1	11.9	9.2	10.7	10.7	11.3	10.3	12.1	11.2	11.0
29	AKAW5100	N-2-329	10.9	11.8	10.3	11.0	11.0	12.2	11.0	11.8	11.7	11.3
30	DBW387	N-2-330	12.1	12.8	11.2	12.1	12.1	12.7	12.8	15.5	13.7	12.8
31	GW322(C)	N-2-331	9.9	11.2	9.5	10.0	10.2	10.8	10.1	11.1	10.7	10.4
32	RVW4358	N-2-332	11.9	13.5	11.0	12.4	12.2	12.9	12.5	13.4	13.0	12.5
33	GW540	N-2-333	10.0	11.0	10.0	9.9	10.3	10.8	10.3	11.6	10.9	10.6
34	DBW388	N-2-334	11.9	12.8	10.6	12.3	11.9	12.8	11.8	14.8	13.2	12.5
35	RAJ4575	N-2-335	11.1	12.3	10.6	11.1	11.3	12.1	11.1	12.7	12.0	11.6
36	GW541	N-2-336	10.6	11.9	9.9	11.0	10.9	11.5	11.2	11.7	11.5	11.1
Mean			11.1	12.2	10.1	11.4	11.2	12.0	11.2	12.7	12.0	11.5

Table 14: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 2

Sr. No	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P'kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	MACS6815	N-2-301	38	41	31	40	38	40	37	45	40	39
2	MACS6811	N-2-302	43	41	37	42	41	39	38	41	40	40
3	UAS3020	N-2-303	42	42	38	40	40	41	39	42	41	41
4	MP1386	N-2-304	40	41	32	39	38	41	38	41	40	39
5	MP3558	N-2-305	43	44	37	41	41	42	39	44	41	41
6	HI1670	N-2-306	38	41	33	37	37	40	36	40	39	38
7	MACS6222(C)	N-2-307	40	41	34	38	38	40	37	44	40	39
8	PWU15	N-2-308	39	42	38	37	39	41	38	43	41	40
9	HI1669	N-2-309	37	44	33	40	39	40	35	41	39	39
10	MP1387	N-2-310	49	51	44	47	48	49	46	55	50	49
11	BLK-Balaji	N-2-311	36	43	34	37	37	39	37	44	40	38
12	MACS6808	N-2-312	37	44	33	37	38	40	35	45	40	39
13	CG1043	N-2-313	40	44	36	40	40	42	39	44	42	41
14	NWS2222	N-2-314	46	48	41	45	45	46	42	49	45	45
15	NIAW4153	N-2-315	39	40	33	38	38	42	37	41	40	39
16	UAS3021	N-2-316	41	44	37	38	40	42	37	44	41	40
17	MACS6809	N-2-317	36	43	33	39	38	41	38	45	41	39
18	HI1544(C)	N-2-318	38	44	35	37	39	41	40	43	41	40
19	GW537	N-2-319	39	46	35	40	40	42	39	45	42	41
20	WH1306	N-2-320	40	41	39	41	40	41	38	45	41	41
21	GW536	N-2-321	34	36	36	36	36	38	36	39	38	36
22	HI1671	N-2-322	36	40	33	36	36	40	34	42	39	37
23	MP3559	N-2-323	40	49	35	43	42	46	43	48	46	43
24	PBW891	N-2-324	42	44	35	41	40	44	40	51	45	42
25	HD3424	N-2-325	41	41	36	40	40	41	39	48	43	41
26	AKAW5314	N-2-326	45	49	41	43	45	47	44	47	46	45
27	RVW4355	N-2-327	40	47	40	42	42	45	42	42	43	43
28	NIAW4183	N-2-328	39	43	34	37	38	40	37	39	38	38
29	AKAW5100	N-2-329	39	42	37	38	39	43	38	40	40	39
30	DBW387	N-2-330	46	48	43	45	45	48	47	52	49	47
31	GW322(C)	N-2-331	34	38	32	34	34	36	34	38	36	35
32	RVW4358	N-2-332	42	49	40	44	44	47	43	46	45	44
33	GW540	N-2-333	34	37	33	33	34	36	34	38	36	35
34	DBW388	N-2-334	45	47	42	46	45	48	45	51	48	46
35	RAJ4575	N-2-335	38	42	37	37	38	42	38	43	41	39
36	GW541	N-2-336	36	41	34	37	37	40	39	40	40	38
Mean			40	43	36	40	40	42	39	44	42	40

Table 15: Phenol test (0-10 scale) of *T. aestivum* genotypes in NIVT 2

Sr. No	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Junagadh	P'kheda	Vijapur	Mean	Pune	Niphad	Dharwad	Mean	
1	MACS6815	N-2-301	6.0	6.0	6.0	6.0	6.0	6.2	5.7	6.0	6.0	6.0
2	MACS6811	N-2-302	6.2	6.7	6.9	6.3	6.5	6.4	6.0	6.8	6.4	6.5
3	UAS3020	N-2-303	6.7	7.5	6.8	7.0	7.0	7.3	6.9	6.9	7.0	7.0
4	MP1386	N-2-304	6.7	6.4	6.8	6.7	6.7	6.2	6.7	7.0	6.6	6.6
5	MP3558	N-2-305	6.9	6.8	6.2	7.0	6.7	6.6	6.5	6.0	6.4	6.6
6	HI1670	N-2-306	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	MACS6222(C)	N-2-307	6.5	7.2	7.0	7.5	7.1	7.0	7.0	7.5	7.2	7.1
8	PWU15	N-2-308	1.2	1.3	1.3	1.5	1.3	1.0	1.2	1.3	1.2	1.3
9	HI1669	N-2-309	1.0	1.5	1.2	1.3	1.3	1.2	1.5	1.3	1.3	1.3
10	MP1387	N-2-310	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
11	BLK-Balaji	N-2-311	5.5	6.0	5.8	5.2	5.6	5.9	5.3	6.0	5.7	5.7
12	MACS6808	N-2-312	2.0	3.0	2.0	3.0	2.5	3.0	3.0	3.0	3.0	2.7
13	CG1043	N-2-313	6.3	6.5	6.0	6.2	6.3	6.8	6.5	6.8	6.7	6.4
14	NWS2222	N-2-314	6.7	6.0	6.2	6.0	6.2	6.5	6.5	6.5	6.5	6.3
15	NIAW4153	N-2-315	2.0	2.5	2.1	2.0	2.2	2.2	2.0	2.3	2.2	2.2
16	UAS3021	N-2-316	5.0	4.6	5.0	5.0	4.9	4.7	4.5	5.0	4.7	4.8
17	MACS6809	N-2-317	2.0	2.2	2.5	2.0	2.2	2.3	2.2	2.3	2.3	2.2
18	HI1544(C)	N-2-318	6.7	7.3	6.4	7.0	6.9	6.9	6.5	7.2	6.9	6.9
19	GW537	N-2-319	2.0	3.0	3.2	3.0	2.8	3.0	2.5	3.0	2.8	2.8
20	WH1306	N-2-320	2.8	3.5	2.5	3.0	3.0	3.0	2.8	3.3	3.0	3.0
21	GW536	N-2-321	5.9	4.9	5.5	5.2	5.4	5.3	5.8	6.2	5.8	5.5
22	HI1671	N-2-322	2.9	3.0	2.0	2.5	2.6	3.0	2.0	3.2	2.7	2.7
23	MP3559	N-2-323	6.8	7.5	7.0	7.0	7.1	7.5	6.8	6.9	7.1	7.1
24	PBW891	N-2-324	7.1	8.0	7.2	8.0	7.6	7.9	8.0	8.0	8.0	7.7
25	HD3424	N-2-325	7.2	7.5	7.5	7.6	7.5	7.2	7.5	7.8	7.5	7.5
26	AKAW5314	N-2-326	2.0	3.0	3.0	2.5	2.6	2.5	2.5	2.2	2.4	2.5
27	RVW4355	N-2-327	7.2	7.5	6.9	7.0	7.2	7.5	7.0	7.8	7.4	7.3
28	NIAW4183	N-2-328	2.0	2.0	1.8	2.0	2.0	2.5	2.5	3.0	2.7	2.3
29	AKAW5100	N-2-329	6.8	6.3	7.0	6.0	6.5	6.5	6.5	6.3	6.4	6.5
30	DBW387	N-2-330	7.8	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
31	GW322(C)	N-2-331	6.0	5.6	7.0	6.0	6.2	5.9	6.5	6.3	6.2	6.2
32	RVW4358	N-2-332	4.3	4.5	4.5	4.2	4.4	4.8	4.5	5.0	4.8	4.5
33	GW540	N-2-333	2.0	2.9	2.2	3.0	2.5	3.0	2.5	2.5	2.7	2.6
34	DBW388	N-2-334	8.0	8.5	8.0	8.0	8.1	8.5	8.0	8.0	8.2	8.1
35	RAJ4575	N-2-335	2.0	3.0	2.5	2.7	2.6	3.0	2.5	2.5	2.7	2.6
36	GW541	N-2-336	2.5	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	2.9
Mean			4.8	5.1	4.9	4.9	4.9	5.0	4.9	5.1	5.0	5.0

Table 16: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT 3A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	DBW393	401	6.0	4.0	5.5	5.5	5.3	6.0	7.0	6.0	6.3	5.8
2	K2107	402	5.5	4.0	6.0	5.5	5.3	6.0	6.5	5.5	6.0	5.6
3	RAJ4574	403	5.0	3.5	6.5	5.0	5.0	6.0	6.0	4.0	5.3	5.2
4	PBW895	404	5.0	4.0	6.0	5.0	5.0	5.5	6.0	4.5	5.3	5.2
5	HI1563(C)	405	5.5	3.5	5.0	6.0	5.0	6.0	6.5	5.0	5.8	5.4
6	K2108	406	5.5	4.0	6.0	5.5	5.3	6.5	5.5	4.5	5.5	5.4
7	AAI-W42	407	6.0	5.0	6.0	6.0	5.8	6.5	6.5	5.0	6.0	5.9
8	DBW392	408	5.5	4.5	6.5	6.0	5.6	5.5	6.0	5.5	5.7	5.6
9	PBW892	409	5.0	5.0	5.5	5.5	5.3	6.5	5.5	5.0	5.7	5.5
10	HD3427	410	5.0	5.5	6.5	6.0	5.8	6.5	6.0	5.0	5.8	5.8
11	UP3108	411	5.5	4.0	6.5	5.0	5.3	5.5	5.0	4.0	4.8	5.0
12	DBW390	412	6.0	5.5	7.0	5.5	6.0	6.5	5.5	5.5	5.8	5.9
13	PBW893	413	5.0	5.0	6.5	5.5	5.5	5.0	6.5	5.5	5.7	5.6
14	UP3109	414	6.0	5.5	6.0	6.0	5.9	6.5	6.5	5.5	6.2	6.0
15	UP3110	415	6.0	5.5	6.0	5.5	5.8	5.5	6.0	5.0	5.5	5.6
16	DBW391	416	5.0	5.5	5.5	6.0	5.5	6.5	7.0	5.0	6.2	5.8
17	HD3426	417	5.0	4.5	5.5	5.0	5.0	5.5	6.0	4.5	5.3	5.2
18	BRW3923	418	6.0	5.5	6.5	6.0	6.0	6.0	6.0	5.5	5.8	5.9
19	RAJ4572	419	6.0	5.0	6.5	6.0	5.9	7.0	6.0	5.5	6.2	6.0
20	WH1309	420	6.0	5.5	6.5	5.0	5.8	5.5	5.5	5.5	5.5	5.6
21	PBW894	421	5.0	4.5	6.0	5.0	5.1	5.0	4.0	4.0	4.3	4.7
22	RAJ4573	422	5.5	4.0	5.5	4.0	4.8	5.5	5.0	5.0	5.2	5.0
23	K2109	423	5.5	3.5	5.5	5.0	4.9	6.0	5.0	4.5	5.2	5.0
24	WH1307	424	5.5	4.5	5.5	6.0	5.4	5.5	6.0	4.0	5.2	5.3
25	DBW107(C)	425	6.0	5.5	5.5	6.0	5.8	6.5	7.0	5.5	6.3	6.0
26	HD3425	426	6.0	5.5	5.5	5.0	5.5	6.0	6.5	5.5	6.0	5.8
27	HUW852	427	6.5	5.5	5.5	6.0	5.9	6.0	6.0	5.0	5.7	5.8
28	JKW298	428	6.0	5.5	5.5	5.5	5.6	6.0	6.5	5.0	5.8	5.7
29	WH1308	429	6.0	5.5	7.0	6.0	6.1	5.5	6.5	4.0	5.3	5.7
30	NW8040	430	5.0	5.0	6.0	5.5	5.4	5.5	6.5	4.5	5.5	5.4
31	DBW389	431	5.0	4.0	5.5	5.5	5.0	5.0	6.0	4.5	5.2	5.1
32	HD3428	432	5.5	4.0	5.5	5.5	5.1	5.5	5.5	4.5	5.2	5.1
33	PBW896	433	5.5	6.0	5.5	6.0	5.8	6.5	6.5	5.5	6.2	6.0
34	HD3059(C)	434	6.5	5.0	5.5	5.5	5.6	6.0	5.5	5.0	5.5	5.6
35	DBW173(C)	435	6.0	5.5	5.5	5.0	5.5	5.5	6.0	4.0	5.2	5.3
36	NW8045	436	5.5	5.5	5.0	5.5	5.4	5.5	6.5	4.0	5.3	5.4
Mean			5.6	4.8	5.9	5.5	5.5	5.9	6.0	4.9	5.6	5.5

Table 17: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 3A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	DBW393	401	77.0	76.4	78.3	79.2	77.7	78.9	69.8	73.6	74.1	75.9
2	K2107	402	76.3	75.8	76.9	74.3	75.8	77.6	78.7	75.4	77.3	76.5
3	RAJ4574	403	69.3	64.7	79.1	71.9	71.2	72.6	68.8	62.7	68.0	69.6
4	PBW895	404	74.2	76.7	78.3	78.8	77.0	78.6	77.8	70.5	75.6	76.3
5	HI1563(C)	405	77.2	73.5	76.4	81.9	77.3	80.3	80.3	73.8	78.1	77.7
6	K2108	406	75.3	73.2	75.9	78.0	75.6	77.3	75.8	68.8	74.0	74.8
7	AAI-W42	407	75.3	72.8	76.2	77.0	75.3	74.5	74.2	68.5	72.4	73.9
8	DBW392	408	76.0	75.0	76.5	77.9	76.3	75.2	71.9	69.1	72.1	74.2
9	PBW892	409	73.3	74.0	73.8	75.6	74.1	76.6	74.2	66.1	72.3	73.2
10	HD3427	410	76.2	75.2	79.6	80.6	77.9	78.4	75.9	72.3	75.5	76.7
11	UP3108	411	75.7	72.5	77.1	77.5	75.7	73.4	72.0	65.5	70.3	73.0
12	DBW390	412	71.8	71.4	75.6	71.8	72.6	72.5	71.3	66.2	70.0	71.3
13	PBW893	413	77.0	78.6	79.2	80.7	78.9	80.0	79.6	66.0	75.2	77.0
14	UP3109	414	76.5	76.1	76.9	76.7	76.6	78.2	76.4	71.7	75.4	76.0
15	UP3110	415	77.9	77.5	78.3	78.0	77.9	76.9	75.1	71.1	74.3	76.1
16	DBW391	416	75.0	75.2	76.3	76.6	75.8	76.9	78.3	68.2	74.4	75.1
17	HD3426	417	75.8	75.0	77.9	77.7	76.6	75.6	74.6	66.7	72.3	74.4
18	BRW3923	418	73.9	74.6	77.1	78.1	75.9	73.2	73.2	70.0	72.1	74.0
19	RAJ4572	419	70.0	71.6	74.5	71.8	72.0	74.3	74.5	68.6	72.4	72.2
20	WH1309	420	72.9	70.8	75.9	74.2	73.4	74.5	74.1	71.0	73.2	73.3
21	PBW894	421	70.8	68.7	75.4	73.3	72.1	70.6	63.0	65.0	66.2	69.1
22	RAJ4573	422	78.4	76.6	79.7	77.3	78.0	79.7	77.3	73.6	76.9	77.4
23	K2109	423	74.0	66.7	76.2	78.3	73.8	76.0	72.1	64.6	70.9	72.4
24	WH1307	424	73.6	70.9	76.3	74.5	73.8	75.6	74.0	64.2	71.3	72.5
25	DBW107(C)	425	74.9	75.9	73.9	77.0	75.5	79.3	73.2	65.7	72.7	74.1
26	HD3425	426	72.2	73.1	77.0	77.1	74.8	74.8	75.1	66.7	72.2	73.5
27	HUW852	427	75.7	74.7	78.0	77.8	76.5	78.0	75.7	70.6	74.7	75.6
28	JKW298	428	72.6	72.4	76.8	75.6	74.4	76.1	74.4	70.7	73.7	74.0
29	WH1308	429	74.2	71.7	77.1	76.2	74.8	72.6	76.5	63.3	70.8	72.8
30	NW8040	430	65.6	70.2	75.3	77.4	72.1	74.0	75.7	66.0	71.9	72.0
31	DBW389	431	74.0	73.8	74.1	76.6	74.6	76.4	75.4	69.5	73.8	74.2
32	HD3428	432	77.1	74.1	77.1	77.6	76.5	77.7	74.8	71.6	74.7	75.6
33	PBW896	433	74.3	74.9	77.1	77.3	75.9	76.4	74.7	71.0	74.0	74.9
34	HD3059(C)	434	76.3	73.0	78.0	77.8	76.3	76.5	74.4	70.3	73.7	75.0
35	DBW173(C)	435	74.3	73.5	75.0	76.3	74.8	76.8	75.8	68.3	73.6	74.2
36	NW8045	436	74.5	73.9	74.7	79.3	75.6	77.8	76.8	67.5	74.0	74.8
Mean			74.4	73.5	76.7	76.9	75.4	76.2	74.6	68.7	73.2	74.3

Table 18: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT 3A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	DBW393	401	10.3	12.0	12.1	12.3	11.7	12.7	9.8	13.1	11.9	11.8
2	K2107	402	11.7	14.1	13.1	13.7	13.1	13.4	11.0	13.2	12.5	12.8
3	RAJ4574	403	11.4	14.7	13.3	12.6	13.0	12.8	11.9	14.0	12.9	12.9
4	PBW895	404	12.0	15.1	14.3	13.6	13.8	13.7	12.2	15.6	13.8	13.8
5	HI1563(C)	405	10.3	12.7	12.9	11.2	11.8	11.8	9.8	13.1	11.6	11.7
6	K2108	406	10.7	14.5	12.1	12.1	12.4	12.6	11.7	14.0	12.8	12.6
7	AAI-W42	407	11.8	14.2	13.1	13.1	13.1	13.7	11.5	12.2	12.5	12.8
8	DBW392	408	10.2	14.8	13.1	13.5	12.9	14.2	12.3	14.8	13.8	13.3
9	PBW892	409	10.5	13.2	12.8	12.3	12.2	12.2	10.9	13.3	12.1	12.2
10	HD3427	410	10.1	14.3	11.5	12.3	12.0	12.7	11.5	13.2	12.4	12.2
11	UP3108	411	11.7	13.8	12.2	12.1	12.5	13.3	11.7	12.9	12.6	12.5
12	DBW390	412	9.3	12.9	11.4	12.0	11.4	12.3	10.9	12.6	11.9	11.6
13	PBW893	413	11.0	14.9	12.8	14.7	13.4	14.5	11.1	13.7	13.1	13.2
14	UP3109	414	10.6	13.3	12.9	12.4	12.3	11.2	11.2	11.9	11.4	11.9
15	UP3110	415	10.7	13.2	12.2	12.9	12.2	13.3	12.0	13.2	12.8	12.5
16	DBW391	416	11.2	12.7	12.5	12.9	12.4	12.2	10.4	13.9	12.2	12.3
17	HD3426	417	11.0	13.2	12.3	12.3	12.2	13.7	11.7	15.1	13.5	12.8
18	BRW3923	418	11.3	15.0	14.6	13.9	13.7	15.0	12.3	13.7	13.6	13.7
19	RAJ4572	419	11.6	15.0	13.3	13.8	13.4	12.6	11.1	13.4	12.4	12.9
20	WH1309	420	12.6	14.2	12.8	13.3	13.2	12.9	11.3	13.0	12.4	12.8
21	PBW894	421	10.1	13.2	12.5	12.4	12.0	12.8	12.4	13.5	12.9	12.5
22	RAJ4573	422	10.6	13.4	12.1	13.0	12.3	12.5	11.5	13.0	12.3	12.3
23	K2109	423	9.5	11.7	11.0	11.3	10.9	12.4	11.2	12.8	12.1	11.5
24	WH1307	424	11.0	13.5	12.3	13.0	12.4	12.8	11.2	14.7	12.9	12.6
25	DBW107(C)	425	10.0	13.3	12.8	13.1	12.3	12.7	11.4	12.5	12.2	12.3
26	HD3425	426	10.3	14.2	13.0	12.7	12.6	12.9	10.0	14.3	12.4	12.5
27	HUW852	427	11.3	13.1	12.5	12.2	12.3	12.9	11.6	13.4	12.6	12.4
28	JKW298	428	11.6	13.6	12.1	12.6	12.5	12.6	11.5	13.6	12.6	12.5
29	WH1308	429	10.1	13.9	11.6	12.0	11.9	12.9	10.7	13.1	12.2	12.1
30	NW8040	430	12.1	14.4	14.3	13.2	13.5	13.9	11.4	14.1	13.1	13.3
31	DBW389	431	12.3	15.2	13.9	13.6	13.7	14.0	11.6	14.6	13.4	13.6
32	HD3428	432	10.2	14.6	13.2	12.5	12.6	12.8	11.2	12.8	12.3	12.5
33	PBW896	433	10.8	14.8	14.2	13.3	13.3	14.1	12.2	14.7	13.7	13.5
34	HD3059(C)	434	11.5	13.6	12.9	13.0	12.8	12.7	12.0	14.3	13.0	12.9
35	DBW173(C)	435	11.7	14.0	12.9	13.0	12.9	13.0	11.5	14.4	13.0	13.0
36	NW8045	436	10.9	13.7	12.9	13.3	12.7	12.2	11.2	13.6	12.4	12.5
Mean			10.9	13.8	12.8	12.8	12.6	13.0	11.4	13.6	12.6	12.6

Table 19: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 3A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	DBW393	401	34	40	35	36	36	27	35	30	31	33
2	K2107	402	35	34	30	45	36	25	38	25	29	33
3	RAJ4574	403	38	54	48	44	46	33	37	39	36	41
4	PBW895	404	38	52	42	48	45	26	39	37	34	40
5	HI1563(C)	405	32	43	39	43	39	30	31	36	32	36
6	K2108	406	40	60	46	50	49	30	42	37	36	43
7	AAI-W42	407	36	45	38	38	39	35	33	34	34	37
8	DBW392	408	40	50	35	44	42	32	35	35	34	38
9	PBW892	409	45	60	43	45	48	31	33	41	35	42
10	HD3427	410	48	53	41	46	47	30	45	38	38	42
11	UP3108	411	43	52	40	42	44	32	40	41	38	41
12	DBW390	412	45	54	41	46	47	33	46	54	44	45
13	PBW893	413	48	50	42	46	47	31	40	34	35	41
14	UP3109	414	45	50	47	46	47	33	45	38	39	43
15	UP3110	415	42	50	35	40	42	40	34	35	36	39
16	DBW391	416	48	57	40	46	48	50	46	40	45	47
17	HD3426	417	33	54	35	41	41	39	31	31	34	37
18	BRW3923	418	50	58	45	50	51	45	44	36	42	46
19	RAJ4572	419	32	45	33	40	38	34	32	40	35	36
20	WH1309	420	52	58	50	51	53	49	48	38	45	49
21	PBW894	421	37	50	37	44	42	43	34	35	37	40
22	RAJ4573	422	28	40	26	34	32	26	30	34	30	31
23	K2109	423	40	41	35	35	38	40	34	30	35	36
24	WH1307	424	47	60	41	42	48	44	38	30	37	42
25	DBW107(C)	425	37	48	37	38	40	38	35	40	38	39
26	HD3425	426	43	57	38	46	46	43	39	50	44	45
27	HUW852	427	43	56	46	36	45	44	30	54	43	44
28	JKW298	428	45	64	52	44	51	36	40	61	46	48
29	WH1308	429	41	53	41	42	44	34	35	57	42	43
30	NW8040	430	44	62	44	43	48	40	41	59	47	47
31	DBW389	431	46	54	36	40	44	29	33	42	35	39
32	HD3428	432	43	48	43	44	45	31	37	58	42	43
33	PBW896	433	40	48	46	40	44	36	43	46	42	43
34	HD3059(C)	434	48	60	49	45	51	39	42	55	45	48
35	DBW173(C)	435	35	65	54	50	51	38	33	58	43	47
36	NW8045	436	38	57	43	46	46	40	35	63	46	46
Mean			41	52	41	43	44	36	38	42	38	41

Table 20: Phenol test (Max score 10)) of *T. aestivum* genotypes in NIVT 3A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	DBW393	401	8.0	8.0	8.0	7.0	7.8	7.0	8.0	7.0	7.3	7.5
2	K2107	402	6.0	6.0	6.0	5.0	5.8	7.0	7.0	7.0	7.0	6.4
3	RAJ4574	403	6.0	6.0	6.0	5.0	5.8	6.0	7.0	7.0	6.7	6.2
4	PBW895	404	8.0	9.0	9.0	8.0	8.5	8.0	8.0	8.0	8.0	8.3
5	HI1563(C)	405	4.0	3.0	4.0	3.0	3.5	5.0	5.0	5.0	5.0	4.3
6	K2108	406	8.0	7.0	8.0	7.0	7.5	7.0	8.0	8.0	7.7	7.6
7	AAI-W42	407	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.3	3.2
8	DBW392	408	6.0	5.0	6.0	6.0	5.8	6.0	7.0	6.0	6.3	6.0
9	PBW892	409	8.0	8.0	8.0	7.0	7.8	8.0	7.0	8.0	7.7	7.7
10	HD3427	410	8.0	7.0	8.0	7.0	7.5	8.0	7.0	8.0	7.7	7.6
11	UP3108	411	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
12	DBW390	412	8.0	8.0	8.0	7.0	7.8	8.0	7.0	8.0	7.7	7.7
13	PBW893	413	8.0	8.0	7.0	8.0	7.8	8.0	8.0	7.0	7.7	7.7
14	UP3109	414	6.0	5.0	6.0	6.0	5.8	5.0	6.0	5.0	5.3	5.5
15	UP3110	415	7.0	6.0	6.0	7.0	6.5	7.0	6.0	6.0	6.3	6.4
16	DBW391	416	8.0	7.0	8.0	8.0	7.8	7.0	7.0	7.0	7.0	7.4
17	HD3426	417	7.0	6.0	6.0	7.0	6.5	7.0	7.0	8.0	7.3	6.9
18	BRW3923	418	8.0	8.0	7.0	7.0	7.5	8.0	7.0	7.0	7.3	7.4
19	RAJ4572	419	6.0	5.0	5.0	5.0	5.3	6.0	7.0	6.0	6.3	5.8
20	WH1309	420	8.0	7.0	7.0	7.0	7.3	7.0	9.0	8.0	8.0	7.6
21	PBW894	421	7.0	5.0	6.0	5.0	5.8	6.0	6.0	7.0	6.3	6.0
22	RAJ4573	422	6.0	5.0	6.0	6.0	5.8	6.0	5.0	5.0	5.3	5.5
23	K2109	423	8.0	7.0	8.0	7.0	7.5	8.0	8.0	7.0	7.7	7.6
24	WH1307	424	8.0	7.0	8.0	8.0	7.8	7.0	7.0	6.0	6.7	7.2
25	DBW107(C)	425	8.0	8.0	7.0	8.0	7.8	7.0	7.0	6.0	6.7	7.2
26	HD3425	426	7.0	8.0	8.0	7.0	7.5	6.0	7.0	7.0	6.7	7.1
27	HUW852	427	7.0	7.0	7.0	6.0	6.8	7.0	6.0	6.0	6.3	6.5
28	JKW298	428	8.0	7.0	7.0	7.0	7.3	7.0	8.0	8.0	7.7	7.5
29	WH1308	429	7.0	8.0	8.0	8.0	7.8	7.0	8.0	8.0	7.7	7.7
30	NW8040	430	7.0	7.0	8.0	7.0	7.3	7.0	7.0	8.0	7.3	7.3
31	DBW389	431	7.0	7.0	8.0	7.0	7.3	8.0	7.0	7.0	7.3	7.3
32	HD3428	432	6.0	8.0	7.0	7.0	7.0	7.0	8.0	7.0	7.3	7.2
33	PBW896	433	3.0	4.0	5.0	4.0	4.0	5.0	6.0	5.0	5.3	4.7
34	HD3059(C)	434	7.0	8.0	8.0	8.0	7.8	6.0	7.0	6.0	6.3	7.0
35	DBW173(C)	435	6.0	8.0	7.0	8.0	7.3	7.0	6.0	7.0	6.7	7.0
36	NW8045	436	8.0	8.0	8.0	7.0	7.8	7.0	8.0	8.0	7.7	7.7
Mean			6.9	6.7	6.9	6.6	6.8	6.8	6.9	6.8	6.9	6.8

Table 21: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT 3B

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Powarkher ^a	Junagarh	Vijapur	Mean	Dharwad	Niphad	Pune	Mean	
1	NIAW4120	501	6.0	7.0	7.0	6.0	6.5	3.0	8.0	7.0	6.0	6.3
2	HI1672	502	6.0	6.0	7.0	7.0	6.5	3.0	7.0	7.0	5.7	6.1
3	HI1673	503	6.0	6.0	7.0	6.0	6.3	4.0	6.0	7.0	5.7	6.0
4	HD2864(C)	504	5.0	7.0	7.0	5.0	6.0	4.0	7.0	6.0	5.7	5.8
5	GW542	505	7.0	7.0	8.0	7.0	7.3	4.0	8.0	8.0	6.7	7.0
6	HD2932(C)	506	6.0	6.0	7.0	6.0	6.3	4.0	6.0	5.0	5.0	5.6
7	CG1042	507	6.0	6.0	7.0	6.0	6.3	3.0	6.0	6.0	5.0	5.6
8	MP1388	508	7.0	7.0	8.0	7.0	7.3	5.0	7.0	7.0	6.3	6.8
9	LOK79	509	6.0	7.0	7.0	7.0	6.8	4.0	7.0	7.0	6.0	6.4
10	AKAW5104	510	6.0	7.0	7.0	6.0	6.5	3.0	5.0	7.0	5.0	5.8
11	HI1675	511	7.0	8.0	8.0	7.0	7.5	4.0	7.0	7.0	6.0	6.8
12	WH1310	512	6.0	6.0	6.0	7.0	6.3	4.0	5.0	6.0	5.0	5.6
13	MACS6805	513	7.0	6.0	7.0	7.0	6.8	4.0	6.0	6.0	5.3	6.0
14	PBW897	514	5.0	8.0	7.0	7.0	6.8	6.0	8.0	7.0	7.0	6.9
15	NIAW4114	515	7.0	6.0	7.0	6.0	6.5	4.0	6.0	8.0	6.0	6.3
16	GW538	516	7.0	7.0	8.0	7.0	7.3	5.0	7.0	7.0	6.3	6.8
17	HI1674	517	8.0	8.0	8.0	7.0	7.8	5.0	7.0	7.0	6.3	7.0
18	DBW395	518	7.0	7.0	7.0	6.0	6.8	3.0	7.0	7.0	5.7	6.2
19	MP3556	519	7.0	6.0	7.0	6.0	6.5	5.0	7.0	7.0	6.3	6.4
20	MACS6814	520	7.0	6.0	7.0	5.0	6.3	4.0	7.0	6.0	5.7	6.0
21	RVW4355	521	6.0	5.0	6.0	5.0	5.5	4.0	6.0	6.0	5.3	5.4
22	MP3557	522	8.0	5.0	7.0	5.0	6.3	5.0	8.0	7.0	6.7	6.5
23	DBW394	523	7.0	8.0	7.0	5.0	6.8	5.0	6.0	8.0	6.3	6.5
24	UAS3023	524	7.0	7.0	6.0	5.0	6.3	4.0	5.0	6.0	5.0	5.6
25	UAS3022	525	5.0	6.0	7.0	5.0	5.8	5.0	7.0	7.0	6.3	6.0
Mean			6.5	6.6	7.1	6.1	6.6	4.2	6.6	6.8	5.9	6.2

Table 22: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 3B

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Powarkher ^a	Junagarh	Vijapur	Mean	Dharwad	Niphad	Pune	Mean	
1	NIAW4120	501	71.1	67.9	73.8	68.1	70.2	70.9	74.5	72.0	72.5	71.3
2	HII672	502	77.7	78.6	81.2	80.3	79.4	74.1	80.4	78.7	77.7	78.6
3	HII673	503	77.2	74.9	79.7	74.5	76.6	76.2	78.7	77.0	77.3	76.9
4	HD2864(C)	504	78.5	77.9	81.1	77.2	78.7	76.1	81.7	78.8	78.9	78.8
5	GW542	505	77.7	79.2	80.6	73.0	77.6	75.2	80.7	78.4	78.1	77.9
6	HD2932(C)	506	74.8	77.2	78.7	73.0	75.9	65.3	75.8	75.5	72.2	74.1
7	CG1042	507	72.9	71.2	76.3	70.2	72.7	67.8	71.3	72.7	70.6	71.6
8	MP1388	508	76.7	76.3	78.0	73.2	76.0	73.0	77.7	75.2	75.3	75.7
9	LOK79	509	74.9	75.7	78.0	72.6	75.3	71.8	76.7	76.2	74.9	75.1
10	AKAW5104	510	76.8	76.7	78.2	76.4	77.0	74.0	77.9	78.0	76.6	76.8
11	HII675	511	79.3	78.2	79.5	79.1	79.0	69.0	78.8	79.2	75.7	77.3
12	WH1310	512	71.3	72.1	72.3	67.6	70.8	67.6	72.0	70.9	70.2	70.5
13	MACS6805	513	76.7	73.7	78.9	75.0	76.1	74.9	78.4	78.2	77.2	76.6
14	PBW897	514	74.5	76.3	76.8	73.6	75.3	72.3	74.8	75.0	74.0	74.7
15	NIAW4114	515	77.9	75.3	78.7	76.8	77.2	73.9	80.1	78.6	77.5	77.3
16	GW538	516	77.0	75.6	80.6	77.1	77.6	75.4	81.6	79.2	78.7	78.1
17	HII674	517	77.7	78.4	70.5	76.4	75.8	74.9	78.3	77.8	77.0	76.4
18	DBW395	518	78.4	72.6	75.9	72.6	74.9	72.9	75.9	75.8	74.9	74.9
19	MP3556	519	75.0	76.1	77.9	75.1	76.0	73.9	76.9	75.9	75.6	75.8
20	MACS6814	520	74.8	70.4	75.1	70.4	72.7	71.0	76.2	75.7	74.3	73.5
21	RVW4355	521	74.0	70.2	76.0	71.9	73.0	69.4	76.6	74.7	73.6	73.3
22	MP3557	522	64.0	70.0	77.9	71.2	70.8	64.5	79.1	78.3	74.0	72.4
23	DBW394	523	72.0	76.0	76.9	73.2	74.5	72.9	78.2	76.6	75.9	75.2
24	UAS3023	524	74.6	71.9	73.7	70.1	72.6	65.3	76.2	75.2	72.2	72.4
25	UAS3022	525	75.1	71.2	77.8	70.8	73.7	74.5	77.5	77.0	76.3	75.0
Mean			75.2	74.5	77.4	73.6	75.2	71.9	77.4	76.4	75.2	75.2

Table 23: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT 3B

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Powarkher ^a	Junagarh	Vijapur	Mean	Dharwad	Niphad	Pune	Mean	
1	NIAW4120	501	11.3	12.0	12.5	10.8	11.6	14.1	12.4	13.6	13.4	12.5
2	HI1672	502	11.4	10.7	13.0	10.7	11.5	13.6	11.1	13.4	12.7	12.1
3	HI1673	503	10.7	11.0	11.4	9.8	10.7	13.3	11.2	13.4	12.7	11.7
4	HD2864(C)	504	10.8	11.4	12.4	10.5	11.2	14.1	12.0	12.5	12.9	12.1
5	GW542	505	10.5	10.6	12.2	10.1	10.8	13.0	11.2	11.8	12.0	11.4
6	HD2932(C)	506	10.5	11.3	13.0	11.8	11.7	14.3	11.3	12.7	12.7	12.2
7	CG1042	507	11.4	11.5	12.9	12.0	11.9	13.9	11.8	12.7	12.8	12.4
8	MP1388	508	11.2	11.7	13.2	10.4	11.6	14.2	12.2	13.2	13.2	12.4
9	LOK79	509	11.3	11.7	12.3	12.4	11.9	13.8	11.4	12.1	12.5	12.2
10	AKAW5104	510	11.0	11.6	11.6	10.3	11.1	13.6	11.6	12.0	12.4	11.8
11	HI1675	511	11.9	11.1	12.6	11.0	11.7	13.7	11.9	13.3	12.9	12.3
12	WH1310	512	12.3	12.2	13.2	11.5	12.3	14.5	11.8	13.2	13.2	12.7
13	MACS6805	513	10.8	11.6	12.3	11.0	11.4	14.1	11.4	12.0	12.5	12.0
14	PBW897	514	12.6	12.8	13.5	10.5	12.4	15.0	13.7	14.5	14.4	13.4
15	NIAW4114	515	11.4	11.4	12.4	10.0	11.3	13.7	11.0	13.0	12.5	11.9
16	GW538	516	11.2	11.8	12.5	10.6	11.5	14.4	12.2	13.1	13.3	12.4
17	HI1674	517	11.4	11.3	12.2	10.0	11.2	13.1	11.8	12.6	12.5	11.9
18	DBW395	518	11.6	11.9	13.2	12.0	12.2	14.4	12.3	13.0	13.2	12.7
19	MP3556	519	13.6	13.5	14.4	10.6	13.0	15.4	14.1	15.2	14.9	14.0
20	MACS6814	520	12.0	12.1	13.0	12.3	12.3	15.2	12.0	12.6	13.3	12.8
21	RVW4355	521	12.2	13.5	14.1	12.6	13.1	15.5	12.8	13.4	13.9	13.5
22	MP3557	522	11.8	12.1	14.0	12.0	12.5	14.5	12.3	12.8	13.2	12.8
23	DBW394	523	11.1	11.7	13.5	9.8	11.5	15.5	12.0	14.6	14.0	12.8
24	UAS3023	524	12.8	12.6	12.6	12.6	12.7	14.0	12.4	13.6	13.3	13.0
25	UAS3022	525	11.4	12.2	12.0	11.3	11.7	13.2	11.1	12.5	12.3	12.0
Mean			11.5	11.8	12.8	11.1	11.8	14.2	12.0	13.1	13.1	12.4

Table 24: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 3B

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Powarkher a	Junagarh	Vijapur	Mean	Dharwad	Niphad	Pune	Mean	
1	NIAW4120	501	41.0	40.0	54.0	58.0	48.3	40.5	43.5	55.5	46.5	47.4
2	HI1672	502	58.0	50.0	55.0	57.0	55.0	37.0	42.0	54.5	44.5	49.8
3	HI1673	503	33.0	42.0	42.0	47.0	41.0	26.5	32.5	39.5	32.8	36.9
4	HD2864(C)	504	36.0	38.0	46.0	41.0	40.3	26.5	33.5	39.5	33.2	36.7
5	GW542	505	32.0	25.0	24.0	32.0	28.3	22.0	22.5	21.0	21.8	25.0
6	HD2932(C)	506	42.0	49.0	46.0	55.0	48.0	52.0	43.0	48.0	47.7	47.8
7	CG1042	507	24.0	20.0	28.0	36.0	27.0	24.5	22.0	28.0	24.8	25.9
8	MP1388	508	41.0	50.0	52.0	56.0	49.8	48.0	42.5	57.0	49.2	49.5
9	LOK79	509	45.0	49.0	57.0	50.0	50.3	50.0	40.0	45.0	45.0	47.6
10	AKAW5104	510	30.0	32.0	37.0	51.0	37.5	45.5	38.5	38.0	40.7	39.1
11	HI1675	511	38.0	35.0	41.0	41.0	38.8	37.5	43.5	39.5	40.2	39.5
12	WH1310	512	49.0	20.0	47.0	51.0	41.8	54.5	51.5	54.0	53.3	47.5
13	MACS6805	513	25.0	35.0	32.0	39.0	32.8	26.5	24.0	25.0	25.2	29.0
14	PBW897	514	51.0	42.0	40.0	50.0	45.8	51.0	44.0	46.0	47.0	46.4
15	NIAW4114	515	45.0	50.0	52.0	51.0	49.5	56.5	49.5	49.0	51.7	50.6
16	GW538	516	30.0	34.0	36.0	35.0	33.8	42.0	33.0	31.0	35.3	34.5
17	HI1674	517	40.0	35.0	39.0	38.0	38.0	38.5	24.5	34.5	32.5	35.3
18	DBW395	518	41.0	42.0	46.0	55.0	46.0	53.0	47.0	48.0	49.3	47.7
19	MP3556	519	62.0	61.0	58.0	62.0	60.8	61.0	62.0	62.0	61.7	61.2
20	MACS6814	520	42.0	34.0	52.0	61.0	47.3	46.0	45.5	38.5	43.3	45.3
21	RVW4355	521	43.0	43.0	62.0	45.0	48.3	53.0	42.5	41.0	45.5	46.9
22	MP3557	522	54.0	44.0	61.0	60.0	54.8	60.0	62.0	60.5	60.8	57.8
23	DBW394	523	47.0	44.0	62.0	60.0	53.3	62.0	72.0	62.0	65.3	59.3
24	UAS3023	524	33.0	52.0	62.0	61.0	52.0	60.0	60.5	61.0	60.5	56.3
25	UAS3022	525	35.0	62.0	51.0	55.0	50.8	55.0	43.5	43.0	47.2	49.0
Mean			40.7	41.1	47.3	49.9	44.7	45.2	42.6	44.8	44.2	44.5

Table 25: Phenol test (Max score 10)) of *T. aestivum* genotypes in NIVT 3B

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Indore	Powarkher ^a	Junagarh	Vijapur	Mean	Dharwad	Niphad	Pune	Mean	
1	NIAW4120	501	4.0	3.0	1.0	1.0	2.3	1.0	1.0	1.0	1.0	1.6
2	HII672	502	4.0	3.0	1.0	1.0	2.3	1.0	1.0	1.0	1.0	1.6
3	HII673	503	5.0	3.0	4.0	6.0	4.5	2.0	3.0	4.0	3.0	3.8
4	HD2864(C)	504	4.0	3.0	3.0	3.0	3.3	1.0	1.0	1.0	1.0	2.1
5	GW542	505	2.0	1.0	2.0	2.0	1.8	2.0	1.0	3.0	2.0	1.9
6	HD2932(C)	506	4.0	3.0	3.0	3.0	3.3	2.0	1.0	3.0	2.0	2.6
7	CG1042	507	6.0	4.0	5.0	6.0	5.3	4.0	5.0	6.0	5.0	5.1
8	MP1388	508	5.0	4.0	5.0	5.0	4.8	2.0	2.0	4.0	2.7	3.7
9	LOK79	509	5.0	4.0	4.0	4.0	4.3	2.0	2.0	3.0	2.3	3.3
10	AKAW5104	510	6.0	4.0	4.0	5.0	4.8	3.0	5.0	6.0	4.7	4.7
11	HII675	511	5.0	4.0	2.0	3.0	3.5	1.0	1.0	2.0	1.3	2.4
12	WH1310	512	6.0	4.0	4.0	6.0	5.0	3.0	3.0	5.0	3.7	4.3
13	MACS6805	513	6.0	4.0	4.0	6.0	5.0	3.0	3.0	5.0	3.7	4.3
14	PBW897	514	6.0	4.0	4.0	6.0	5.0	3.0	3.0	5.0	3.7	4.3
15	NIAW4114	515	5.0	4.0	1.0	3.0	3.3	1.0	1.0	2.0	1.3	2.3
16	GW538	516	5.0	3.0	2.0	4.0	3.5	3.0	3.0	4.0	3.3	3.4
17	HII674	517	4.0	3.0	1.0	1.0	2.3	1.0	1.0	1.0	1.0	1.6
18	DBW395	518	4.0	3.0	2.0	3.0	3.0	2.0	1.0	2.0	1.7	2.3
19	MP3556	519	4.0	3.0	1.0	1.0	2.3	2.0	1.0	2.0	1.7	2.0
20	MACS6814	520	6.0	5.0	4.0	5.0	5.0	4.0	2.0	4.0	3.3	4.2
21	RVW4355	521	6.0	4.0	4.0	6.0	5.0	5.0	4.0	6.0	5.0	5.0
22	MP3557	522	6.0	5.0	4.0	4.0	4.8	5.0	4.0	5.0	4.7	4.7
23	DBW394	523	6.0	4.0	5.0	6.0	5.3	5.0	5.0	6.0	5.3	5.3
24	UAS3023	524	6.0	5.0	4.0	5.0	5.0	5.0	4.0	6.0	5.0	5.0
25	UAS3022	525	6.0	4.0	5.0	6.0	5.3	5.0	4.0	6.0	5.0	5.1
		Mean	5.0	3.6	3.2	4.0	4.0	2.7	2.5	3.7	3.0	3.5

Table 26: Grain appearance score (Max-10) of *T. durum* genotypes in NIVT 4

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Powarkhera	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1	HI8737(C)	601	8.0	8.0	8.0	7.0	7.8	7.0	6.0	6.0	6.3	7.0
2	GW1360	602	7.0	8.0	7.0	7.0	7.3	7.0	8.0	6.0	7.0	7.1
3	MPO1389	603	7.0	7.0	5.0	6.0	6.3	6.0	4.0	5.0	5.0	5.6
4	HI8842	604	7.0	8.0	7.0	7.0	7.3	7.0	6.0	6.0	6.3	6.8
5	NIDW1485	605	8.0	8.0	8.0	8.0	8.0	7.0	6.0	7.0	6.7	7.3
6	HI8843	606	7.0	8.0	7.0	8.0	7.5	5.0	4.0	6.0	5.0	6.3
7	PWU19	607	7.0	7.0	7.0	8.0	7.3	7.0	6.0	6.0	6.3	6.8
8	GW1364	608	8.0	6.0	7.0	7.0	7.0	6.0	5.0	7.0	6.0	6.5
9	MPO1390	609	7.0	7.0	6.0	7.0	6.8	7.0	5.0	7.0	6.3	6.5
10	DDW60	610	7.0	8.0	7.0	7.0	7.3	8.0	5.0	4.0	5.7	6.5
11	GW1363	611	8.0	8.0	8.0	7.0	7.8	7.0	6.0	6.0	6.3	7.0
12	DDW59	612	6.0	7.0	7.0	6.0	6.5	7.0	6.0	5.0	6.0	6.3
13	MACS3949(C)	613	8.0	8.0	7.0	7.0	7.5	7.0	5.0	7.0	6.3	6.9
14	GW1361	614	6.0	7.0	6.0	6.0	6.3	6.0	5.0	6.0	5.7	6.0
15	UAS479	615	7.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0	5.3	6.2
16	MACS4120	616	8.0	8.0	8.0	7.0	7.8	7.0	6.0	7.0	6.7	7.2
17	HI8713(C)	617	7.0	7.0	7.0	6.0	6.8	6.0	7.0	4.0	5.7	6.2
18	AKDW4773	618	6.0	7.0	7.0	6.0	6.5	7.0	5.0	7.0	6.3	6.4
19	HI8841	619	7.0	8.0	8.0	6.0	7.3	6.0	4.0	5.0	5.0	6.1
20	PDW363	620	8.0	8.0	8.0	8.0	8.0	8.0	8.0	6.0	7.3	7.7
21	PDW362	621	8.0	8.0	8.0	8.0	8.0	8.0	7.0	7.0	7.3	7.7
22	MACS4121	622	8.0	8.0	7.0	8.0	7.8	7.0	5.0	7.0	6.3	7.0
23	PWU18	623	7.0	8.0	7.0	7.0	7.3	8.0	6.0	7.0	7.0	7.1
24	MACS4122	624	7.0	7.0	8.0	7.0	7.3	8.0	5.0	6.0	6.3	6.8
25	UAS480	625	7.0	6.0	6.0	6.0	6.3	7.0	6.0	6.0	6.3	6.3
Mean			7.2	7.5	7.1	7.0	7.2	6.9	5.6	6.0	6.2	6.7

Table 27: Hectolitre weight (kg/hl) of *T. durum* genotypes in NIVT 4

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Powarkhera	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1	HI8737(C)	601	82.4	79.8	82.2	82.5	81.7	80.5	75.8	80.0	78.8	80.2
2	GW1360	602	83.8	76.7	79.3	79.7	79.9	79.1	72.5	81.3	77.6	78.8
3	MPO1389	603	79.6	77.7	71.9	75.9	76.3	75.0	70.4	79.9	75.1	75.7
4	HI8842	604	82.3	79.8	80.3	80.1	80.6	81.3	75.1	80.7	79.0	79.8
5	NIDW1485	605	80.8	79.5	79.3	78.5	79.5	80.0	74.9	80.5	78.5	79.0
6	HI8843	606	78.5	77.2	77.9	76.6	77.5	74.1	70.9	76.0	73.7	75.6
7	PWU19	607	80.0	72.5	77.9	77.6	77.0	76.1	74.8	80.2	77.0	77.0
8	GW1364	608	79.7	74.2	76.6	76.7	76.8	76.1	71.2	80.0	75.8	76.3
9	MPO1390	609	81.0	76.5	76.4	77.8	77.9	79.6	72.8	81.5	78.0	77.9
10	DDW60	610	82.4	77.8	80.9	78.6	79.9	81.1	75.1	81.2	79.1	79.5
11	GW1363	611	81.7	76.1	80.7	78.5	79.3	79.5	70.9	80.8	77.1	78.2
12	DDW59	612	79.9	71.8	77.4	77.2	76.6	77.2	71.2	77.1	75.2	75.9
13	MACS3949(C)	613	83.5	79.7	80.2	80.8	81.0	81.8	76.2	82.2	80.1	80.5
14	GW1361	614	78.9	72.2	77.8	77.8	76.7	76.7	73	77.5	75.7	76.2
15	UAS479	615	82.5	78.1	79.7	78.2	79.7	77.5	73.2	81.1	77.3	78.5
16	MACS4120	616	80.4	77.0	80.6	80.1	79.5	80.6	75.4	80.5	78.8	79.2
17	HI8713(C)	617	83.1	78.8	78.8	79.7	80.1	81.2	74.9	81.4	79.2	79.6
18	AKDW4773	618	82.5	78.6	81.2	78.4	80.2	80.2	73.6	80.6	78.1	79.1
19	HI8841	619	82.4	79.6	80.3	76.7	79.8	81.1	73.5	81.7	78.8	79.3
20	PDW363	620	82.5	79.2	79.6	79.4	80.2	79.7	76.1	79.9	78.6	79.4
21	PDW362	621	82.6	78.5	81.4	78.9	80.3	79.8	76.1	81.6	79.2	79.8
22	MACS4121	622	83.9	79.9	80.6	80.7	81.3	80.9	73.2	80.2	78.1	79.7
23	PWU18	623	82.3	79.3	78.4	79.2	79.8	80.3	71.7	81.4	77.8	78.8
24	MACS4122	624	83.7	80.4	80.0	80.8	81.2	81.4	76.6	81.8	79.9	80.6
25	UAS480	625	81.7	78.0	79.5	78.6	79.5	80.0	78.5	79.4	79.3	79.4
Mean			81.7	77.6	79.2	78.7	79.3	79.2	73.9	80.3	77.8	78.6

Table 28: Protein content (%) at 12% moisture basis of *T. durum* genotypes in NIVT 4

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Powarkhera	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1	HI8737(C)	601	11.1	12.2	12.5	10.9	11.7	11.7	13.6	10.2	11.8	11.8
2	GW1360	602	10.7	11.4	13.0	10.8	11.5	12.1	14.4	10.4	12.3	11.9
3	MPO1389	603	11.2	12.0	13.6	13.2	12.5	12.9	14.9	10.4	12.7	12.6
4	HI8842	604	10.6	11.7	12.4	11.5	11.5	12.1	13.5	10.4	12.0	11.8
5	NIDW1485	605	11.5	11.2	12.7	11.7	11.8	11.9	13.4	10.3	11.8	11.8
6	HI8843	606	11.6	12.2	12.4	11.3	11.9	12.8	14.3	10.4	12.5	12.2
7	PWU19	607	10.8	12.8	13.1	10.1	11.7	13.0	14.0	10.3	12.4	12.1
8	GW1364	608	11.1	13.1	13.7	11.8	12.4	13.4	14.7	11.5	13.2	12.8
9	MPO1390	609	10.1	12.6	13.3	11.5	11.9	12.4	14.3	9.2	11.9	11.9
10	DDW60	610	9.9	11.5	12.3	11.7	11.4	11.9	14.5	9.4	11.9	11.7
11	GW1363	611	11.4	12.3	12.2	11.0	11.7	11.2	13.0	11.2	11.8	11.8
12	DDW59	612	10.7	12.5	13.5	11.4	12.0	13.1	14.1	10.6	12.6	12.3
13	MACS3949(C)	613	10.8	11.7	12.8	10.6	11.5	12.0	13.0	10.3	11.7	11.6
14	GW1361	614	9.1	11.2	12.0	10.0	10.6	11.6	13.3	9.9	11.6	11.1
15	UAS479	615	9.3	10.8	12.1	10.6	10.7	11.3	14.0	9.3	11.6	11.1
16	MACS4120	616	11.6	12.3	12.5	12.0	12.1	12.0	13.6	9.8	11.8	12.0
17	HI8713(C)	617	9.4	10.7	12.2	9.6	10.5	11.2	13.0	8.9	11.0	10.8
18	AKDW4773	618	11.2	12.5	12.7	12.3	12.2	12.4	13.9	10.4	12.3	12.2
19	HI8841	619	9.7	11.2	12.0	10.8	10.9	11.0	13.5	10.5	11.7	11.3
20	PDW363	620	10.8	12.6	13.3	11.8	12.1	12.5	13.8	10.8	12.3	12.2
21	PDW362	621	11.5	12.1	12.9	12.4	12.2	13.0	15.0	11.3	13.1	12.7
22	MACS4121	622	10.0	11.8	12.6	10.0	11.1	11.6	14.1	10.8	12.1	11.6
23	PWU18	623	11.2	11.9	13.3	12.2	12.1	12.0	14.0	10.4	12.1	12.1
24	MACS4122	624	9.7	11.8	12.8	10.4	11.2	12.0	14.2	10.3	12.2	11.7
25	UAS480	625	10.6	13.1	13.2	10.8	11.9	11.8	14.8	11.0	12.6	12.2
Mean			10.6	12.0	12.8	11.2	11.6	12.1	14.0	10.3	12.1	11.9

Table 29: Sedimentation value (ml) of *T. durum* genotypes in NIVT 4

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Powarkhera	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1	HI8737(C)	601	31.0	51.0	43.0	33.0	39.5	35.5	33.5	40.5	36.5	38.0
2	GW1360	602	26.0	30.0	36.0	30.0	30.5	38.5	29.5	35.0	34.3	32.4
3	MPO1389	603	26.0	36.0	42.0	22.0	31.5	40.5	32.0	29.5	34.0	32.8
4	HI8842	604	34.0	26.0	41.0	36.0	34.3	40.5	33.5	39.0	37.7	36.0
5	NIDW1485	605	28.0	31.0	20.0	21.0	25.0	26.0	21.0	21.0	22.7	23.8
6	HI8843	606	43.0	43.0	47.0	50.0	45.8	51.0	50.0	46.0	49.0	47.4
7	PWU19	607	42.0	46.0	50.0	51.0	47.3	50.0	29.5	50.0	43.2	45.2
8	GW1364	608	27.0	23.0	27.0	28.0	26.3	28.0	22.0	20.0	23.3	24.8
9	MPO1390	609	36.0	51.0	50.0	51.0	47.0	47.0	35.0	51.0	44.3	45.7
10	DDW60	610	36.0	48.0	50.0	51.0	46.3	40.0	50.5	51.0	47.2	46.7
11	GW1363	611	50.0	48.0	51.0	48.0	49.3	50.0	42.0	42.0	44.7	47.0
12	DDW59	612	51.0	51.0	51.0	50.0	50.8	51.0	49.0	50.0	50.0	50.4
13	MACS3949(C)	613	44.0	51.0	49.0	50.0	48.5	48.5	50.0	43.0	47.2	47.8
14	GW1361	614	27.0	43.0	27.0	27.0	31.0	29.0	31.5	22.5	27.7	29.3
15	UAS479	615	43.0	51.0	48.0	51.0	48.3	50.0	44.5	42.5	45.7	47.0
16	MACS4120	616	33.0	37.0	45.0	44.0	39.8	33.5	33.5	34.5	33.8	36.8
17	HI8713(C)	617	24.0	30.0	38.0	26.0	29.5	32.0	29.0	36.0	32.3	30.9
18	AKDW4773	618	38.0	37.0	42.0	43.0	40.0	45.5	34.0	35.0	38.2	39.1
19	HI8841	619	33.0	41.0	38.0	27.0	34.8	30.0	33.5	40.0	34.5	34.6
20	PDW363	620	40.0	49.0	46.0	40.0	43.8	42.5	34.0	35.0	37.2	40.5
21	PDW362	621	45.0	50.0	50.0	46.0	47.8	50.0	28.0	50.0	42.7	45.2
22	MACS4121	622	32.0	44.0	43.0	32.0	37.8	36.5	39.0	40.0	38.5	38.1
23	PWU18	623	36.0	50.0	50.0	36.0	43.0	40.5	35.0	39.5	38.3	40.7
24	MACS4122	624	30.0	45.0	46.0	30.0	37.8	38.0	28.5	32.5	33.0	35.4
25	UAS480	625	43.0	51.0	50.0	50.0	48.5	47.5	36.0	47.5	43.7	46.1
Mean			35.9	42.5	43.2	38.9	40.1	40.9	35.4	38.9	38.4	39.3

Table 30: Yellow berries incidence (%) of *T. durum* genotypes in NIVT 4

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Powarkhera	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1	HI8737(C)	601	2.0	1.0	0.0	3.0	1.5	1.0	2.0	3.0	2.0	1.8
2	GW1360	602	0.5	2.0	0.0	1.0	0.9	0.0	1.0	2.0	1.0	0.9
3	MPO1389	603	1.0	0.0	0.0	1.0	0.5	0.0	2.0	0.5	0.8	0.7
4	HI8842	604	0.5	0.0	0.0	1.0	0.4	1.0	3.0	4.0	2.7	1.5
5	NIDW1485	605	0.3	0.0	0.0	0.5	0.2	1.0	2.0	3.0	2.0	1.1
6	HI8843	606	0.5	0.0	0.0	1.0	0.4	5.0	1.0	10.0	5.3	2.9
7	PWU19	607	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.7	0.3
8	GW1364	608	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.3	0.7
9	MPO1390	609	0.5	0.0	0.0	0.0	0.1	0.0	3.0	3.0	2.0	1.1
10	DDW60	610	2.0	1.0	0.0	0.0	0.8	1.0	3.0	10.0	4.7	2.7
11	GW1363	611	0.3	0.0	0.0	0.0	0.1	2.0	3.0	2.0	2.3	1.2
12	DDW59	612	0.0	0.0	0.0	1.0	0.3	0.0	1.0	4.0	1.7	1.0
13	MACS3949(C)	613	0.0	0.0	0.0	1.0	0.3	0.0	3.0	2.0	1.7	1.0
14	GW1361	614	3.0	1.0	0.0	3.0	1.8	4.0	3.0	12.0	6.3	4.0
15	UAS479	615	3.0	2.0	0.0	0.0	1.3	2.0	4.0	15.0	7.0	4.1
16	MACS4120	616	0.3	0.0	0.0	0.0	0.1	1.0	2.0	3.0	2.0	1.0
17	HI8713(C)	617	3.0	1.0	0.0	2.0	1.5	4.0	2.0	20.0	8.7	5.1
18	AKDW4773	618	0.0	0.0	0.0	1.0	0.3	0.0	1.0	1.0	0.7	0.5
19	HI8841	619	2.0	0.0	0.0	0.0	0.5	4.0	5.0	5.0	4.7	2.6
20	PDW363	620	0.5	0.0	0.0	0.0	0.1	0.0	1.0	4.0	1.7	0.9
21	PDW362	621	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.3	0.7
22	MACS4121	622	2.0	0.0	0.0	3.0	1.3	1.0	2.0	3.0	2.0	1.6
23	PWU18	623	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	0.8	0.4
24	MACS4122	624	3.0	0.0	0.0	0.5	0.9	0.0	3.0	3.0	2.0	1.4
25	UAS480	625	1.0	0.0	0.0	1.0	0.5	2.0	3.0	2.0	2.3	1.4
Mean			1.0	0.3	0.0	0.8	0.5	1.2	2.4	4.6	2.7	1.6

Table 31: Yellow pigment (ppm) of *T. durum* genotypes in NIVT 4

Sr. No.	Entry	Trial Code	CZ					PZ				Overall Mean
			Powarkhera	Indore	Junagarh	Vijapur	Mean	Pune	Dharwad	Niphad	Mean	
1	HI8737(C)	601	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2	GW1360	602	7.0	5.0	5.0	4.0	5.3	6.0	4.0	6.0	5.3	5.3
3	MPO1389	603	4.0	6.0	6.0	6.0	5.5	7.0	5.0	6.0	6.0	5.8
4	HI8842	604	4.0	5.0	4.0	4.0	4.3	4.0	4.0	4.0	4.0	4.1
5	NIDW1485	605	6.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6	HI8843	606	5.0	4.0	4.0	5.0	4.5	5.0	4.0	5.0	4.7	4.6
7	PWU19	607	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
8	GW1364	608	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9	MPO1390	609	6.0	7.0	6.0	6.0	6.3	5.0	6.0	6.0	5.7	6.0
10	DDW60	610	8.0	6.0	7.0	7.0	7.0	6.0	6.0	7.0	6.3	6.7
11	GW1363	611	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
12	DDW59	612	3.5	4.0	4.0	4.0	3.9	4.0	3.0	4.0	3.7	3.8
13	MACS3949(C)	613	5.0	5.0	5.0	7.0	5.5	5.0	5.0	5.0	5.0	5.3
14	GW1361	614	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
15	UAS479	615	7.0	7.0	7.0	8.0	7.3	7.0	6.0	7.0	6.7	7.0
16	MACS4120	616	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
17	HI8713(C)	617	6.0	6.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.3
18	AKDW4773	618	5.0	5.0	5.0	5.0	5.0	4.0	4.0	5.0	4.3	4.7
19	HI8841	619	7.0	6.0	6.0	7.0	6.5	6.0	6.0	6.0	6.0	6.3
20	PDW363	620	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
21	PDW362	621	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
22	MACS4121	622	5.0	4.0	5.0	5.0	4.8	5.0	5.0	5.0	5.0	4.9
23	PWU18	623	6.0	6.0	7.0	6.0	6.3	6.0	6.0	7.0	6.3	6.3
24	MACS4122	624	6.0	5.0	6.0	6.0	5.8	6.0	6.0	6.0	6.0	5.9
25	UAS480	625	6.0	6.0	6.0	6.0	6.0	5.0	5.0	6.0	5.3	5.7
Mean			5.3	5.1	5.2	5.4	5.2	5.1	4.9	5.3	5.1	5.2

Table 32: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT 5A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	BRW3924	701	5.5	5.5	6.0	5.5	5.6	6.5	6.0	5.5	6.0	5.8
2	K1317(C)	702	6.5	6.0	6.0	7.5	6.5	5.5	6.0	6.0	5.8	6.2
3	DBW399	703	6.5	5.5	6.0	7.0	6.3	6.0	6.0	5.5	5.8	6.0
4	DBW397	704	6.5	5.5	6.0	6.5	6.1	6.0	5.5	6.0	5.8	6.0
5	PBW900	705	6.5	5.5	6.5	5.5	6.0	6.0	6.0	5.5	5.8	5.9
6	TAW133	706	6.5	5.5	6.0	5.5	5.9	5.0	6.0	6.0	5.7	5.8
7	UP3112	707	7.0	6.0	6.5	6.5	6.5	6.0	6.5	6.0	6.2	6.3
8	HD3430	708	6.5	5.5	6.5	7.0	6.4	6.5	6.0	5.5	6.0	6.2
9	HP1976	709	6.5	5.5	6.0	7.0	6.3	6.5	6.0	5.0	5.8	6.0
10	NW8048	710	6.5	5.0	6.5	6.5	6.1	5.0	6.5	5.5	5.7	5.9
11	K2121	711	6.5	6.0	6.5	7.0	6.5	5.5	6.0	6.0	5.8	6.2
12	JAUW704	712	7.0	5.5	6.0	6.0	6.1	5.5	6.0	5.5	5.7	5.9
13	WH1311	713	7.0	5.5	6.0	6.0	6.1	6.5	6.0	5.5	6.0	6.1
14	JKW292	714	6.5	5.5	6.5	6.5	6.3	6.0	6.0	5.0	5.7	6.0
15	WH1312	715	6.5	5.0	6.0	6.5	6.0	6.0	5.5	4.5	5.3	5.7
16	HUW853	716	7.0	5.5	6.5	6.5	6.4	6.5	6.0	5.5	6.0	6.2
17	PBW899	717	6.5	5.5	6.0	6.0	6.0	6.0	6.0	5.5	5.8	5.9
18	DBW398	718	6.5	6.0	6.5	7.0	6.5	6.5	6.5	6.5	6.5	6.5
19	HI1676	719	7.0	6.0	6.5	6.5	6.5	6.5	6.5	6.0	6.3	6.4
20	DBW396	720	6.5	6.0	7.0	6.5	6.5	5.5	6.0	5.5	5.7	6.1
21	HD3429	721	7.0	6.0	6.5	7.0	6.6	6.5	6.0	6.0	6.2	6.4
22	PBW898	722	6.0	5.5	6.0	6.5	6.0	6.5	5.5	5.0	5.7	5.8
23	PBW644(C)	723	6.5	6.0	6.0	6.5	6.3	6.0	6.0	6.0	6.0	6.1
24	UP3111	724	6.5	6.0	6.5	6.5	6.4	6.0	5.5	6.0	5.8	6.1
25	HI1612(C)	725	6.5	5.5	6.0	6.0	6.0	5.5	5.5	6.0	5.7	5.8
Mean			6.6	5.6	6.3	6.5	6.2	6.0	6.0	5.6	5.9	6.1

Table 33: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT 5A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	BRW3924	701	76.4	74.1	79.0	79.2	77.2	76.8	74.9	72.7	74.8	76.0
2	K1317(C)	702	80.7	77.0	81.6	84.1	80.9	81.3	80.1	77.7	79.7	80.3
3	DBW399	703	79.2	73.6	79.3	82.3	78.6	76.8	74.6	73.7	75.1	76.8
4	DBW397	704	78.6	74.3	80.2	81.7	78.7	78.8	79.1	76.2	78.0	78.4
5	PBW900	705	77.5	72.3	78.3	76.7	76.2	78.3	77.4	74.2	76.6	76.4
6	TAW133	706	77.1	73.9	79.0	80.4	77.6	75.9	76.7	75.5	76.0	76.8
7	UP3112	707	77.4	79.3	83.0	82.1	80.5	78.9	78.2	76.9	78.0	79.2
8	HD3430	708	75.9	75.0	79.6	82.1	78.2	79.2	78.3	76.4	78.0	78.1
9	HP1976	709	78.1	74.9	78.7	81.2	78.2	78.2	77.4	73.9	76.5	77.4
10	NW8048	710	78.4	75.6	78.6	81.6	78.5	75.8	77.3	74.7	75.9	77.2
11	K2121	711	80.0	77.8	81.3	82.8	80.4	81.8	78.0	77.8	79.2	79.8
12	JAUW704	712	77.6	70.9	75.3	76.5	75.1	75.6	76.0	72.3	74.7	74.9
13	WH1311	713	78.0	77.2	79.7	78.4	78.3	80.4	79.2	74.6	78.1	78.2
14	JKW292	714	76.5	72.8	79.3	81.2	77.4	78.9	77.8	74.0	76.9	77.2
15	WH1312	715	78.5	75.8	78.9	83.0	79.0	81.5	79.0	76.2	78.9	79.0
16	HUW853	716	76.1	73.0	79.0	79.9	77.0	77.6	75.0	72.4	75.0	76.0
17	PBW899	717	78.8	76.1	78.7	81.2	78.7	79.0	77.9	75.4	77.4	78.1
18	DBW398	718	72.7	74.5	79.0	79.3	76.3	75.8	78.3	74.9	76.4	76.3
19	HI1676	719	80.9	78.7	81.7	83.4	81.2	81.4	79.9	77.7	79.6	80.4
20	DBW396	720	77.2	79.0	81.2	82.7	80.0	76.9	78.9	76.6	77.4	78.7
21	HD3429	721	78.6	77.1	81.2	82.9	79.9	79.4	79.6	77.4	78.8	79.4
22	PBW898	722	75.0	74.9	75.7	78.5	76.0	76.9	74.9	72.3	74.7	75.4
23	PBW644(C)	723	78.7	76.2	79.1	81.5	78.9	77.9	77.3	76.1	77.1	78.0
24	UP3111	724	77.2	77.7	79.8	82.1	79.2	77.7	77.0	74.8	76.5	77.8
25	HI1612(C)	725	79.4	74.0	80.4	79.8	78.4	79.9	76.4	77.2	77.8	78.1
Mean			77.8	75.4	79.5	81.0	78.4	78.4	77.6	75.3	77.1	77.8

Table 34: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT 5A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	BRW3924	701	13.5	11.9	9.4	9.9	11.2	11.2	10.1	9.3	10.2	10.7
2	K1317(C)	702	12.7	12.8	10.8	10.3	11.7	11.9	10.3	10.2	10.8	11.2
3	DBW399	703	11.8	12.5	9.9	10.1	11.1	11.8	9.9	9.4	10.4	10.7
4	DBW397	704	14.2	13.6	10.0	11.8	12.4	11.1	10.2	9.6	10.3	11.3
5	PBW900	705	11.9	13.6	9.9	12.2	11.9	10.9	9.6	10.1	10.2	11.1
6	TAW133	706	13.0	12.9	10.2	9.3	11.3	11.8	10.6	9.7	10.7	11.0
7	UP3112	707	14.3	12.1	10.3	10.0	11.7	11.4	10.9	9.0	10.4	11.0
8	HD3430	708	12.7	13.4	10.9	10.7	11.9	10.5	10.8	9.6	10.3	11.1
9	HP1976	709	11.8	12.3	9.8	9.2	10.7	10.9	9.9	8.9	9.9	10.3
10	NW8048	710	12.7	12.3	10.1	10.6	11.4	12.5	9.7	10.1	10.7	11.1
11	K2121	711	12.6	12.4	9.8	9.9	11.2	10.8	9.5	10.1	10.1	10.6
12	JAUW704	712	12.6	12.2	11.0	11.2	11.7	10.2	9.3	9.0	9.5	10.6
13	WH1311	713	11.0	12.1	9.6	11.5	11.1	9.9	9.2	10.1	9.8	10.4
14	JKW292	714	12.1	11.1	9.9	9.2	10.6	10.0	9.6	10.1	9.9	10.2
15	WH1312	715	12.2	12.1	9.5	9.1	10.7	9.8	10.6	9.1	9.8	10.3
16	HUW853	716	13.5	14.5	10.9	9.8	12.2	11.0	10.3	10.8	10.7	11.4
17	PBW899	717	13.6	12.3	10.8	9.2	11.5	10.8	10.4	8.7	10.0	10.7
18	DBW398	718	12.5	12.4	10.1	10.3	11.3	11.5	10.2	10.1	10.6	11.0
19	HI1676	719	11.4	11.9	10.1	10.0	10.8	10.6	10.2	9.2	10.0	10.4
20	DBW396	720	12.7	11.0	10.0	8.6	10.6	11.4	9.9	9.1	10.1	10.3
21	HD3429	721	11.2	11.2	10.3	10.2	10.7	12.1	9.6	9.5	10.4	10.5
22	PBW898	722	11.5	11.5	10.6	9.7	10.8	9.3	9.4	8.8	9.1	10.0
23	PBW644(C)	723	12.1	11.0	10.5	10.4	11.0	10.6	9.4	9.2	9.7	10.4
24	UP3111	724	11.4	11.6	9.1	11.2	10.8	10.1	9.9	8.5	9.5	10.2
25	HI1612(C)	725	11.3	12.9	10.1	11.1	11.3	10.5	10.0	8.8	9.8	10.6
Mean			12.4	12.3	10.1	10.2	11.3	10.9	10.0	9.5	10.1	10.7

Table 35: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT 5A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	BRW3924	701	56	50	45	43	49	47	42	38	42	45
2	K1317(C)	702	42	38	37	31	37	31	31	34	32	35
3	DBW399	703	46	45	41	35	42	43	40	35	39	41
4	DBW397	704	50	43	38	38	42	42	40	36	39	41
5	PBW900	705	45	53	44	50	48	46	46	40	44	46
6	TAW133	706	53	55	47	48	51	50	45	41	45	48
7	UP3112	707	46	36	36	36	39	39	35	35	36	37
8	HD3430	708	47	51	43	38	45	45	40	39	41	43
9	HP1976	709	39	35	35	30	35	37	35	34	35	35
10	NW8048	710	50	48	46	42	47	50	43	38	44	45
11	K2121	711	45	35	32	37	37	36	30	36	34	36
12	JAUW704	712	45	55	41	44	46	49	48	42	46	46
13	WH1311	713	48	47	41	50	47	40	40	41	40	43
14	JKW292	714	38	36	32	30	34	37	35	34	35	35
15	WH1312	715	54	53	38	40	46	47	45	38	43	45
16	HUW853	716	40	40	33	34	37	34	40	39	38	37
17	PBW899	717	30	36	30	30	32	30	43	29	34	33
18	DBW398	718	36	48	37	42	41	30	35	45	37	39
19	HI1676	719	35	45	36	46	41	31	44	40	38	39
20	DBW396	720	45	40	34	32	38	40	50	37	42	40
21	HD3429	721	39	35	35	35	36	36	45	38	40	38
22	PBW898	722	48	55	46	54	51	38	53	48	46	49
23	PBW644(C)	723	30	40	35	39	36	43	38	39	40	38
24	UP3111	724	40	35	34	46	39	40	47	38	42	40
25	HI1612(C)	725	37	51	41	53	46	45	54	45	48	47
Mean			43	44	38	40	41	40	42	38	40	41

Table 36: Phenol test (Max score 10)) of *T. aestivum* genotypes in NIVT 5A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ				Overall Mean
			Pantnagar	Ludhiana	Hisar	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean	
1	BRW3924	701	8.0	7.0	7.0	8.0	7.5	7.0	8.0	7.0	7.3	7.4
2	K1317(C)	702	6.0	5.0	5.0	6.0	5.5	4.0	4.0	5.0	4.3	4.9
3	DBW399	703	8.0	7.0	7.0	8.0	7.5	6.0	7.0	6.0	6.3	6.9
4	DBW397	704	8.0	7.0	8.0	7.0	7.5	8.0	7.0	8.0	7.7	7.6
5	PBW900	705	8.0	7.0	8.0	8.0	7.8	8.0	7.0	8.0	7.7	7.7
6	TAW133	706	8.0	7.0	8.0	8.0	7.8	8.0	8.0	9.0	8.3	8.0
7	UP3112	707	7.0	7.0	7.0	8.0	7.3	8.0	7.0	7.0	7.3	7.3
8	HD3430	708	7.0	7.0	8.0	8.0	7.5	9.0	8.0	9.0	8.7	8.1
9	HP1976	709	7.0	6.0	7.0	7.0	6.8	7.0	7.0	7.0	7.0	6.9
10	NW8048	710	8.0	8.0	7.0	8.0	7.8	8.0	7.0	8.0	7.7	7.7
11	K2121	711	8.0	7.0	7.0	8.0	7.5	8.0	7.0	8.0	7.7	7.6
12	JAUW704	712	7.0	7.0	8.0	8.0	7.5	7.0	7.0	7.0	7.0	7.3
13	WH1311	713	8.0	7.0	7.0	8.0	7.5	8.0	7.0	8.0	7.7	7.6
14	JKW292	714	6.0	5.0	6.0	6.0	5.8	6.0	6.0	5.0	5.7	5.7
15	WH1312	715	8.0	7.0	7.0	8.0	7.5	8.0	7.0	8.0	7.7	7.6
16	HUW853	716	5.0	4.0	4.0	4.0	4.3	5.0	4.0	4.0	4.3	4.3
17	PBW899	717	8.0	7.0	8.0	8.0	7.8	8.0	7.0	8.0	7.7	7.7
18	DBW398	718	3.0	4.0	4.0	4.0	3.8	4.0	4.0	3.0	3.7	3.7
19	HI1676	719	4.0	5.0	5.0	5.0	4.8	5.0	5.0	4.0	4.7	4.7
20	DBW396	720	7.0	7.0	7.0	8.0	7.3	7.0	7.0	7.0	7.0	7.1
21	HD3429	721	7.0	7.0	7.0	8.0	7.3	7.0	7.0	7.0	7.0	7.1
22	PBW898	722	7.0	8.0	8.0	8.0	7.8	8.0	7.0	7.0	7.3	7.5
23	PBW644(C)	723	7.0	8.0	8.0	8.0	7.8	8.0	8.0	8.0	8.0	7.9
24	UP3111	724	8.0	7.0	7.0	8.0	7.5	8.0	8.0	7.0	7.7	7.6
25	HI1612(C)	725	7.0	7.0	8.0	8.0	7.5	9.0	8.0	8.0	8.3	7.9
Mean			7.0	6.6	6.9	7.3	7.0	7.2	6.8	6.9	6.9	7.0

Table 37: Grain appearance score (Max-10) for *T. aestivum* and *T. durum* genotypes in NIVT-5B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone			Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Mean	
<i>T. aestivum</i>											
1	HI1677	N-802	7.0	7.5	7.0	7.3	7.1	6.8	7.5	7.1	7.1
2	MP3562	N-805	7.8	7.5	7.0	8.0	7.3	7.0	6.5	6.8	7.0
3	MACS6801	N-807	7.0	6.8	7.3	8.0	7.0	7.0	7.0	7.0	7.0
4	MP1384	N-808	7.5	7.5	6.8	7.0	7.1	6.8	6.8	6.8	6.9
5	DBW397	N-809	7.3	7.0	7.0	7.0	7.3	8.0	7.0	7.5	7.4
6	NIAW4178	N-810	8.0	7.8	7.8	7.0	7.6	7.0	6.8	6.9	7.3
7	HI1679	N-812	7.3	7.0	6.5	7.0	6.9	7.0	7.0	7.0	7.0
8	HI1678	N-813	7.5	7.5	7.5	7.0	7.4	7.0	7.0	7.0	7.2
9	MACS6797	N-814	8.0	8.0	8.0	7.3	7.8	7.0	8.0	7.5	7.6
10	DBW400	N-815	7.3	6.8	6.8	7.3	6.9	7.0	6.8	6.9	6.9
11	MP1385	N-817	8.3	6.8	7.8	7.3	7.6	7.5	7.0	7.3	7.4
12	UAS3024	N-818	8.0	7.5	7.0	7.3	7.4	7.0	7.5	7.3	7.3
13	NIAW4172	N-819	7.8	8.0	8.0	7.5	7.9	7.8	7.5	7.6	7.8
14	CG1041	N-821	7.3	7.5	7.5	8.0	7.6	8.0	7.5	7.8	7.7
15	GW539	N-822	7.0	7.0	6.8	6.0	6.9	6.8	6.8	6.8	6.8
16	WSM253	N-824	7.5	6.8	6.8	7.0	6.9	6.5	7.0	6.8	6.8
17	DBW110©	N-801	6.8	7.0	7.5	6.5	7.1	7.0	7.0	7.0	7.0
18	HI1605©	N-806	7.5	7.3	6.8	7.5	7.1	7.0	7.0	7.0	7.1
Mean			7.5	7.3	7.2	7.2	7.3	7.1	7.1	7.1	7.2
<i>T. durum</i>											
1	HI8844(d)	N-803	8.0	7.0	7.5	7.8	7.3	6.5	7.0	6.8	7.0
2	HI8845(d)	N-804	7.0	7.0	8.0	7.5	7.2	6.8	8.0	7.4	7.3
3	GW1362(d)	N-811	7.8	5.8	7.5	7.5	6.8	6.0	7.3	6.6	6.7
4	UAS481(d)	N-820	7.3	6.3	6.8	6.5	6.6	6.0	6.5	6.3	6.4
5	DDW61(d)	N-825	7.0	7.3	7.5	7.3	7.3	7.3	8.0	7.6	7.4
6	HI8627(d)©	N-816	7.8	7.5	7.8	7.8	7.5	7.0	7.5	7.3	7.4
7	UAS446(d)©	N-823	7.8	7.5	7.0	7.8	7.4	7.5	8.0	7.8	7.6
Mean			7.5	6.9	7.4	7.4	7.1	6.7	7.5	7.1	7.1

Table 38: Hectolitre weight (kg/hl) for *T. aestivum* and *T. durum* genotypes in NIVT-5B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone			Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Mean	
	<i>T. aestivum</i>										
1	HI1677	N-802	83.3	85.4	84.6	84.3	83.4	80.4	81.0	80.7	82.1
2	MP3562	N-805	86.3	85.2	85.7	88.5	85.3	84.1	84.2	84.2	84.7
3	MACS6801	N-807	84.6	84.5	85.3	87.7	84.5	83.6	82.0	82.8	83.6
4	MP1384	N-808	83.5	85.4	85.2	87.3	83.4	79.8	81.7	80.7	82.1
5	DBW397	N-809	81.3	84.5	85.3	86.8	83.5	82.9	84.3	83.6	83.6
6	NIAW4178	N-810	82.8	83.3	81.7	84.5	81.5	78.1	79.6	78.8	80.2
7	HI1679	N-812	85.2	85.4	87.7	86.4	85.5	83.9	81.6	82.7	84.1
8	HI1678	N-813	84.6	86.5	85.2	87.7	84.8	83.0	83.5	83.3	84.1
9	MACS6797	N-814	85.7	84.4	84.5	84.2	84.2	82.3	79.5	80.9	82.6
10	DBW400	N-815	80.6	84.6	84.7	84.8	83.2	82.9	81.0	81.9	82.6
11	MP1385	N-817	83.3	80.4	82.4	85.9	81.2	78.6	80.6	79.6	80.4
12	UAS3024	N-818	81.8	85.4	85.6	87.7	83.8	82.6	82.8	82.7	83.3
13	NIAW4172	N-819	79.6	81.5	81.2	82.9	80.4	79.5	79.7	79.6	80.0
14	CG1041	N-821	85.3	86.5	85.8	86.0	85.2	83.1	83.7	83.4	84.3
15	GW539	N-822	79.3	80.5	82.5	84.5	81.3	82.8	79.8	81.3	81.3
16	WSM253	N-824	82.6	82.4	83.2	85.0	83.7	86.4	82.5	84.5	84.1
17	DBW110©	N-801	82.8	82.4	84.3	86.2	82.5	80.7	82.7	81.7	82.1
18	HI1605©	N-806	86.8	85.3	85.2	87.2	86.0	86.5	86.0	86.2	86.1
Mean			83.3	84.1	84.4	86.0	83.5	82.3	82.0	82.1	82.8
	<i>T. durum</i>										
1	HI8844(d)	N-803	83.5	86.5	85.8	86.3	85.1	84.6	84.6	84.6	84.8
2	HI8845(d)	N-804	85.4	87.4	85.9	85.7	85.6	83.7	83.3	83.5	84.6
3	GW1362(d)	N-811	76.4	74.2	76.8	80.1	75.4	74.2	76.0	75.1	75.3
4	UAS481(d)	N-820	83.3	84.3	86.3	86.4	84.4	83.9	84.5	84.2	84.3
5	DDW61(d)	N-825	85.5	86.5	86.7	87.3	85.9	84.9	83.9	84.4	85.1
6	HI8627(d)©	N-816	82.5	87.7	85.6	84.6	84.7	83.0	82.0	82.5	83.6
7	UAS446(d)©	N-823	84.4	85.3	85.5	85.6	84.9	84.2	83.3	83.7	84.3
Mean			83.0	84.5	84.7	85.1	83.7	82.6	82.5	82.6	83.1

Table 39: Protein content (%) at 12% moisture basis for *T. aestivum* and *T. durum* genotypes in NIVT-5B

Sl No.	Entry	Trial Code	Central Zone					Peninsular Zone			Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Mean	
	<i>T. aestivum</i>										
1	HI1677	N-802	13.0	9.9	11.5	12.6	11.8	10.8	14.6	12.7	12.2
2	MP3562	N-805	13.7	11.3	13.2	14.5	13.2	11.3	10.9	11.1	12.1
3	MACS6801	N-807	12.5	9.9	11.7	13.3	11.8	10.4	10.5	10.4	11.1
4	MP1384	N-808	11.9	9.3	11.8	12.2	11.3	10.5	12.3	11.4	11.4
5	DBW397	N-809	14.2	9.5	13.7	14.3	12.9	11.9	11.7	11.8	12.4
6	NIAW4178	N-810	12.2	9.3	11.3	12.2	11.3	10.4	9.4	9.9	10.6
7	HI1679	N-812	14.3	10.6	12.0	13.0	12.5	12.0	11.7	11.8	12.1
8	HI1678	N-813	13.7	9.9	11.1	13.0	11.9	9.9	11.4	10.7	11.3
9	MACS6797	N-814	13.7	10.3	12.4	13.2	12.4	11.4	9.1	10.3	11.3
10	DBW400	N-815	13.3	10.2	13.1	14.8	12.9	10.1	12.5	11.3	12.1
11	MP1385	N-817	11.5	9.0	11.7	12.8	11.2	10.5	9.8	10.2	10.7
12	UAS3024	N-818	11.9	8.4	11.3	13.0	11.2	9.8	9.8	9.8	10.5
13	NIAW4172	N-819	12.8	9.1	11.8	12.9	11.6	9.2	10.7	10.0	10.8
14	CG1041	N-821	12.1	9.2	11.8	13.2	11.6	11.2	9.7	10.4	11.0
15	GW539	N-822	11.7	8.9	10.7	13.6	11.2	9.3	9.5	9.4	10.3
16	WSM253	N-824	11.9	9.3	11.4	11.5	11.0	8.9	10.5	9.7	10.4
17	DBW110©	N-801	12.0	9.5	12.1	12.8	11.6	10.5	10.2	10.4	11.0
18	HI1605©	N-806	12.7	9.9	12.2	13.2	12.0	10.4	10.3	10.3	11.2
Mean			12.7	9.6	11.9	13.1	11.9	10.5	10.8	10.6	11.2
	<i>T. durum</i>										
1	HI8844(d)	N-803	13.4	9.5	12.1	12.5	11.9	8.7	10.0	9.4	10.6
2	HI8845(d)	N-804	12.5	9.6	11.4	12.0	11.4	9.4	10.1	9.7	10.6
3	GW1362(d)	N-811	12.6	10.5	12.5	12.2	11.9	9.5	12.1	10.8	11.4
4	UAS481(d)	N-820	12.0	8.0	12.1	11.3	10.8	8.7	9.8	9.2	10.0
5	DDW61(d)	N-825	12.2	9.1	12.5	11.8	11.4	9.9	10.8	10.4	10.9
6	HI8627(d)©	N-816	12.3	9.8	12.1	12.2	11.6	12.4	9.9	11.1	11.4
7	UAS446(d)©	N-823	14.1	9.6	13.1	13.3	12.5	10.9	12.3	11.6	12.1
Mean			12.7	9.4	12.2	12.2	11.6	9.9	10.7	10.3	11.0

Table 40: Sedimentation value (ml) for *T. aestivum* and *T. durum* genotypes in NIVT-5B

Sl No.	Entry	Trial Code	Central Zone					Peninsular Zone			Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Mean	
<i>T. aestivum</i>											
1	HI1677	N-802	53.0	46.5	52.0	53.5	50.4	51.0	49.5	50.3	50.3
2	MP3562	N-805	64.5	63.0	63.0	63.0	62.6	61.0	60.0	60.5	61.6
3	MACS6801	N-807	56.0	53.5	52.0	55.0	53.4	51.0	49.5	50.3	51.8
4	MP1384	N-808	50.0	47.0	49.0	50.0	48.5	47.0	49.0	48.0	48.3
5	DBW397	N-809	53.0	53.5	54.0	58.5	54.6	56.5	55.5	56.0	55.3
6	NIAW4178	N-810	56.5	47.0	54.0	54.0	50.1	42.0	42.5	42.3	46.2
7	HI1679	N-812	50.0	43.0	47.0	44.0	46.5	46.0	46.5	46.3	46.4
8	HI1678	N-813	51.5	46.0	49.5	51.0	48.5	46.5	45.0	45.8	47.1
9	MACS6797	N-814	58.5	49.0	53.0	52.0	52.6	51.5	46.5	49.0	50.8
10	DBW400	N-815	64.0	59.0	62.5	63.5	61.4	59.0	56.0	57.5	59.4
11	MP1385	N-817	53.0	47.0	53.0	51.5	51.5	52.0	50.5	51.3	51.4
12	UAS3024	N-818	39.0	46.5	38.0	53.0	42.9	47.5	49.0	48.3	45.6
13	NIAW4172	N-819	54.0	47.0	52.5	53.0	48.9	43.0	44.5	43.8	46.3
14	CG1041	N-821	56.5	49.0	53.0	58.5	50.6	45.0	49.0	47.0	48.8
15	GW539	N-822	51.0	41.5	52.5	49.0	46.3	41.5	41.0	41.3	43.8
16	WSM253	N-824	57.5	55.0	56.5	59.0	55.3	53.0	54.0	53.5	54.4
17	DBW110©	N-801	55.5	51.0	56.0	57.0	54.1	51.5	53.0	52.3	53.2
18	HI1605©	N-806	59.0	58.5	60.0	54.5	58.1	55.0	52.0	53.5	55.8
Mean			54.6	50.2	53.2	54.4	52.0	50.0	49.6	49.8	50.9
<i>T. durum</i>											
1	HI8844(d)	N-803	33.5	30.5	33.5	33.0	33.1	33.5	34.5	34.0	33.6
2	HI8845(d)	N-804	34.5	31.0	33.5	36.5	33.0	32.5	34.0	33.3	33.1
3	GW1362(d)	N-811	27.5	24.0	26.5	29.5	25.5	24.0	27.5	25.8	25.6
4	UAS481(d)	N-820	39.0	37.0	35.5	39.0	35.9	32.0	39.0	35.5	35.7
5	DDW61(d)	N-825	43.0	40.5	41.5	43.5	40.8	38.5	39.0	38.8	39.8
6	HI8627(d)©	N-816	33.0	29.5	31.5	31.5	31.5	30.5	31.0	30.8	31.1
7	UAS446(d)©	N-823	44.0	38.0	45.5	43.0	41.9	38.5	40.0	39.3	40.6
Mean			36.4	32.9	35.4	36.6	34.5	32.8	35.0	33.9	34.2

Table 41: Yellow berry incidence (%) for *T. aestivum* and *T. durum* genotypes in NIVT-5B

Sl No.	Entry	Trial Code	Central Zone					Peninsular Zone			Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Mean	
	<i>T. aestivum</i>										
1	HI1677	N-802	2.0	2.0	1.0	1.0	1.5	1.0	1.0	1.0	1.3
2	MP3562	N-805	1.0	2.0	0.0	0.0	2.0	5.0	3.0	4.0	3.0
3	MACS6801	N-807	3.0	8.0	2.0	2.0	4.5	5.0	4.0	4.5	4.5
4	MP1384	N-808	2.0	14.0	1.0	2.0	5.5	5.0	5.0	5.0	5.3
5	DBW397	N-809	3.0	30.0	0.0	3.0	9.3	4.0	2.0	3.0	6.1
6	NIAW4178	N-810	5.0	12.0	0.0	0.0	5.8	6.0	22.0	14.0	9.9
7	HI1679	N-812	0.0	2.0	0.0	0.0	1.0	2.0	5.0	3.5	2.3
8	HI1678	N-813	0.0	1.0	0.0	1.0	0.8	2.0	2.0	2.0	1.4
9	MACS6797	N-814	0.0	4.0	1.0	2.0	4.8	14.0	2.0	8.0	6.4
10	DBW400	N-815	2.0	10.0	0.0	0.0	4.8	7.0	9.0	8.0	6.4
11	MP1385	N-817	3.0	26.0	1.0	2.0	7.8	1.0	5.0	3.0	5.4
12	UAS3024	N-818	0.0	13.0	1.0	2.0	5.3	7.0	7.0	7.0	6.1
13	NIAW4172	N-819	1.0	19.0	0.0	3.0	7.0	8.0	3.0	5.5	6.3
14	CG1041	N-821	1.0	29.0	1.0	2.0	9.0	5.0	26.0	15.5	12.3
15	GW539	N-822	7.0	11.0	0.0	2.0	6.8	9.0	12.0	10.5	8.6
16	WSM253	N-824	2.0	32.0	2.0	6.0	17.0	32.0	15.0	23.5	20.3
17	DBW110©	N-801	6.0	31.0	0.0	2.0	12.5	13.0	12.0	12.5	12.5
18	HI1605©	N-806	0.0	7.0	0.0	1.0	4.3	10.0	9.0	9.5	6.9
Mean			2.1	14.1	0.6	1.7	6.1	7.6	8.0	7.8	6.9
	<i>T. durum</i>										
1	HI8844(d)	N-803	2.0	22.0	2.0	7.0	16.5	40.0	17.0	28.5	22.5
2	HI8845(d)	N-804	2.0	7.0	0.0	2.0	5.3	12.0	4.0	8.0	6.6
3	GW1362(d)	N-811	3.0	38.0	3.0	1.0	21.3	41.0	8.0	24.5	22.9
4	UAS481(d)	N-820	7.0	58.0	2.0	30.0	28.8	48.0	34.0	41.0	34.9
5	DDW61(d)	N-825	3.0	13.0	0.0	7.0	5.3	5.0	1.0	3.0	4.1
6	HI8627(d)©	N-816	1.0	17.0	1.0	0.0	6.3	6.0	8.0	7.0	6.6
7	UAS446(d)©	N-823	0.0	8.0	0.0	2.0	4.8	11.0	0.0	5.5	5.1
Mean			2.6	23.3	1.1	7.0	12.6	23.3	10.3	16.8	14.7

Table 42: Yellow Pigment (ppm) for *T. aestivum* and *T. durum* genotypes in NIVT-5B

Sl No.	Entry	Trial Code	Central Zone					Peninsular Zone			Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Mean	
	<i>T. aestivum</i>										
1	HI1677	N-802	4.2	5.5	5.0	4.5	4.8	4.9	3.8	4.3	4.6
2	MP3562	N-805	5.1	4.8	4.0	3.9	4.5	4.8	4.2	4.5	4.5
3	MACS6801	N-807	4.5	5.1	5.5	3.9	4.8	4.8	3.9	4.4	4.6
4	MP1384	N-808	5.1	5.4	5.0	4.3	5.0	5.2	3.9	4.6	4.8
5	DBW397	N-809	5.6	4.5	5.4	3.5	4.7	4.6	3.6	4.1	4.4
6	NIAW4178	N-810	5.6	5.4	5.7	4.6	5.3	5.6	4.8	5.2	5.3
7	HI1679	N-812	4.0	4.2	4.6	3.6	4.1	5.0	3.2	4.1	4.1
8	HI1678	N-813	4.1	4.9	5.4	3.6	4.5	4.8	3.9	4.3	4.4
9	MACS6797	N-814	5.3	5.2	4.4	4.4	4.8	5.4	4.2	4.8	4.8
10	DBW400	N-815	5.5	5.0	4.2	4.3	4.7	5.7	4.7	5.2	5.0
11	MP1385	N-817	4.8	4.9	5.5	3.9	4.8	5.2	3.8	4.5	4.6
12	UAS3024	N-818	4.3	4.3	4.5	4.7	4.4	4.4	4.4	4.4	4.4
13	NIAW4172	N-819	5.1	5.3	4.5	4.2	4.8	5.6	4.4	5.0	4.9
14	CG1041	N-821	4.8	5.1	4.8	4.1	4.7	5.1	3.8	4.5	4.6
15	GW539	N-822	6.0	6.2	6.1	4.5	5.7	5.4	4.8	5.1	5.4
16	WSM253	N-824	5.7	5.6	5.7	4.2	5.3	5.9	4.9	5.4	5.3
17	DBW110©	N-801	4.9	4.8	5.3	3.7	4.7	4.2	3.4	3.8	4.2
18	HI1605©	N-806	4.3	5.2	4.9	3.6	4.5	4.1	3.2	3.7	4.1
Mean			4.9	5.1	5.0	4.1	4.8	5.0	4.0	4.5	4.7
	<i>T. durum</i>										
1	HI8844(d)	N-803	7.2	7.3	6.7	6.2	6.9	6.3	6.4	6.4	6.7
2	HI8845(d)	N-804	7.0	8.5	6.9	7.5	7.5	8.4	6.8	7.6	7.6
3	GW1362(d)	N-811	6.6	6.4	6.9	6.7	6.6	6.4	6.7	6.6	6.6
4	UAS481(d)	N-820	8.9	8.4	6.2	8.6	8.1	8.9	8.7	8.8	8.5
5	DDW61(d)	N-825	8.8	8.1	6.7	8.2	8.0	8.3	8.7	8.5	8.3
6	HI8627(d)©	N-816	8.8	8.9	6.2	8.8	8.2	8.7	7.7	8.2	8.2
7	UAS446(d)©	N-823	8.0	8.8	6.6	7.9	7.5	6.7	7.7	7.2	7.4
Mean			7.9	8.1	6.6	7.7	7.6	7.7	7.5	7.6	7.6

Table 43: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT-6A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ			Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Sabour	Varanasi	Mean	
1	HD3433	901	6.0	7.0	6.0	6.0	6.3	7.0	7.0	7.0	6.5
2	HI1682	902	7.0	6.0	7.0	5.0	6.3	7.0	6.0	6.5	6.3
3	UP3115	903	5.0	7.0	6.0	5.0	5.8	8.0	7.0	7.5	6.3
4	DBW404	904	6.0	6.0	6.0	5.0	5.8	6.0	5.0	5.5	5.7
5	DBW382	905	7.0	7.0	6.0	6.0	6.5	8.0	6.0	7.0	6.7
6	PBW878	906	6.0	6.0	6.0	7.0	6.3	7.0	7.0	7.0	6.5
7	HD3086(C)	907	6.0	6.0	7.0	7.0	6.5	6.0	6.0	6.0	6.3
8	BRW3922	908	7.0	7.0	7.0	6.0	6.8	8.0	6.0	7.0	6.8
9	HD3432	909	5.0	7.0	8.0	5.0	6.3	7.0	6.0	6.5	6.3
10	WH1314	910	6.0	8.0	6.0	7.0	6.8	7.0	7.0	7.0	6.8
11	DBW303(C)	911	7.0	7.0	7.0	7.0	7.0	6.0	6.0	6.0	6.7
12	K2001	912	6.0	7.0	7.0	7.0	6.8	8.0	5.0	6.5	6.7
13	PBW879	913	6.0	6.0	6.0	7.0	6.3	7.0	7.0	7.0	6.5
14	PBW880	914	5.0	7.0	6.0	7.0	6.3	7.0	6.0	6.5	6.3
15	RAJ4571	915	6.0	7.0	7.0	5.0	6.3	6.0	7.0	6.5	6.3
16	HD3431	916	7.0	6.0	7.0	6.0	6.5	6.0	6.0	6.0	6.3
17	DBW187(C)	917	7.0	6.0	6.0	5.0	6.0	5.0	5.0	5.0	5.7
18	WH1313	918	8.0	8.0	6.0	6.0	7.0	8.0	6.0	7.0	7.0
19	DBW380	919	8.0	7.0	7.0	6.0	7.0	7.0	6.0	6.5	6.8
20	DBW403	920	6.0	8.0	6.0	7.0	6.8	6.0	5.0	5.5	6.3
21	PBW877	921	5.0	6.0	7.0	6.0	6.0	7.0	6.0	6.5	6.2
22	DBW296	922	6.0	6.0	6.0	7.0	6.3	7.0	6.0	6.5	6.3
23	DBW379	923	5.0	7.0	7.0	7.0	6.5	8.0	7.0	7.5	6.8
24	DBW383	924	7.0	7.0	7.0	6.0	6.8	7.0	7.0	7.0	6.8
25	UP3116	925	8.0	6.0	7.0	7.0	7.0	5.0	6.0	5.5	6.5
Mean			6.3	6.7	6.6	6.2	6.5	6.8	6.2	6.5	6.5

Table 44: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT-6A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ			Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Sabour	Varanasi	Mean	
1	HD3433	901	72.1	77.4	75.3	77.0	75.5	70.3	75.9	73.1	74.7
2	HI1682	902	80.0	82.6	78.3	82.6	80.9	79.0	80.7	79.9	80.5
3	UP3115	903	75.5	77.1	75.6	77.6	76.5	72.8	76.4	74.6	75.8
4	DBW404	904	75.7	79.1	75.7	78.0	77.1	74.4	78.1	76.3	76.8
5	DBW382	905	74.4	77.8	75.9	78.2	76.6	71.3	79.5	75.4	76.2
6	PBW878	906	77.4	81.5	78.9	80.9	79.7	77.8	79.9	78.9	79.4
7	HD3086(C)	907	76.9	78.6	77.7	79.5	78.2	74.9	79.6	77.3	77.9
8	BRW3922	908	76.8	78.8	76.4	78.2	77.6	75.6	79.5	77.6	77.6
9	HD3432	909	73.5	77.0	75.8	77.5	76.0	72.0	77.3	74.7	75.5
10	WH1314	910	76.9	79.3	73.7	80.2	77.5	77.5	78.7	78.1	77.7
11	DBW303(C)	911	76.8	80.6	76.8	82.2	79.1	76.3	81.1	78.7	79.0
12	K2001	912	75.8	76.8	75.5	78.1	76.6	66.4	77.1	71.8	75.0
13	PBW879	913	76.5	79.1	78.3	77.6	77.9	72.2	77.8	75.0	76.9
14	PBW880	914	79.2	80.6	77.3	79.4	79.1	74.9	79.3	77.1	78.5
15	RAJ4571	915	79.9	80.8	78.4	81.2	80.1	78.4	78.8	78.6	79.6
16	HD3431	916	77.5	79.2	78.1	80.6	78.9	76.2	80.0	78.1	78.6
17	DBW187(C)	917	75.0	80.4	76.0	79.5	77.7	76.6	79.3	78.0	77.8
18	WH1313	918	79.5	79.6	77.8	80.7	79.4	77.3	79.7	78.5	79.1
19	DBW380	919	77.5	81.4	74.6	81.0	78.6	77.6	78.7	78.2	78.5
20	DBW403	920	75.9	80.0	75.9	78.0	77.5	76.7	76.8	76.8	77.2
21	PBW877	921	74.2	76.9	76.8	77.4	76.3	71.2	77.7	74.5	75.7
22	DBW296	922	75.2	81.1	75.5	80.5	78.1	77.0	78.6	77.8	78.0
23	DBW379	923	76.1	80.7	77.4	79.5	78.4	76.2	76.7	76.5	77.8
24	DBW383	924	79.0	80.2	78.6	81.5	79.8	76.4	81.2	78.8	79.5
25	UP3116	925	74.9	75.6	75.2	74.2	75.0	71.7	77.2	74.5	74.8
Mean			76.5	79.3	76.6	79.2	77.9	74.8	78.6	76.7	77.5

Table 45: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT-6A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ			Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Sabour	Varanasi	Mean	
1	HD3433	901	13.9	13.0	14.2	11.4	13.1	13.5	10.7	12.1	12.6
2	HI1682	902	11.2	12.0	13.3	11.6	12.0	11.3	10.4	10.9	11.5
3	UP3115	903	12.2	14.0	14.4	11.8	13.1	13.7	11.6	12.6	12.9
4	DBW404	904	12.2	11.7	13.8	9.2	11.7	11.9	10.3	11.1	11.4
5	DBW382	905	12.5	12.5	12.7	11.9	12.4	13.3	10.6	11.9	12.2
6	PBW878	906	11.5	11.0	12.2	9.1	11.0	11.7	8.9	10.3	10.7
7	HD3086(C)	907	13.0	12.9	13.2	11.4	12.6	12.1	9.6	10.8	11.7
8	BRW3922	908	11.3	12.1	12.6	11.3	11.8	11.4	10.1	10.8	11.3
9	HD3432	909	13.4	12.5	12.5	10.3	12.2	10.7	9.8	10.3	11.3
10	WH1314	910	13.6	12.9	14.0	11.0	12.9	11.8	11.0	11.4	12.2
11	DBW303(C)	911	12.0	13.2	13.9	11.1	12.5	12.2	10.8	11.5	12.0
12	K2001	912	12.3	12.7	13.6	10.7	12.3	13.3	10.2	11.8	12.1
13	PBW879	913	11.1	12.9	14.2	12.3	12.6	13.4	11.0	12.2	12.4
14	PBW880	914	13.5	13.4	14.1	11.7	13.2	12.0	13.4	12.7	13.0
15	RAJ4571	915	12.1	12.1	13.7	10.0	12.0	10.6	10.0	10.3	11.2
16	HD3431	916	10.9	12.7	14.2	11.1	12.2	12.9	11.3	12.1	12.2
17	DBW187(C)	917	12.6	13.1	13.0	10.5	12.3	11.4	9.5	10.4	11.4
18	WH1313	918	10.9	12.4	13.7	9.8	11.7	11.7	9.6	10.6	11.2
19	DBW380	919	11.2	11.3	14.4	10.3	11.8	11.1	10.1	10.6	11.2
20	DBW403	920	12.0	13.4	14.8	11.6	13.0	11.2	11.6	11.4	12.2
21	PBW877	921	12.6	12.8	13.5	9.8	12.2	12.7	9.8	11.3	11.8
22	DBW296	922	12.8	12.5	14.1	11.5	12.7	11.4	10.1	10.7	11.7
23	DBW379	923	11.5	12.8	13.2	12.0	12.4	13.9	10.8	12.3	12.4
24	DBW383	924	11.3	13.7	12.9	11.3	12.3	12.2	9.5	10.8	11.6
25	UP3116	925	12.9	13.6	13.7	11.9	13.0	12.3	10.0	11.1	12.1
Mean			12.2	12.7	13.6	11.0	12.4	12.1	10.4	11.3	11.8

Table 46: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT-6A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ			Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Sabour	Varanasi	Mean	
1	HD3433	901	43.0	39.0	40.0	47.0	42.3	45.0	47.0	46.0	43.5
2	HI1682	902	48.0	44.0	45.0	40.0	44.3	47.0	47.0	47.0	45.2
3	UP3115	903	54.0	51.0	41.0	45.0	47.8	41.0	50.0	45.5	47.0
4	DBW404	904	48.0	48.0	44.0	41.0	45.3	43.0	36.0	39.5	43.3
5	DBW382	905	35.0	47.0	45.0	42.0	42.3	40.0	36.0	38.0	40.8
6	PBW878	906	45.0	51.0	50.0	40.0	46.5	46.0	40.0	43.0	45.3
7	HD3086(C)	907	50.0	43.0	47.0	43.0	45.8	47.0	47.0	47.0	46.2
8	BRW3922	908	51.0	44.0	50.0	50.0	48.8	46.0	53.0	49.5	49.0
9	HD3432	909	45.0	45.0	48.0	47.0	46.3	45.0	48.0	46.5	46.3
10	WH1314	910	48.0	46.0	39.0	44.0	44.3	46.0	47.0	46.5	45.0
11	DBW303(C)	911	42.0	49.0	43.0	36.0	42.5	48.0	48.0	48.0	44.3
12	K2001	912	44.0	47.0	45.0	46.0	45.5	39.0	46.0	42.5	44.5
13	PBW879	913	48.0	46.0	49.0	42.0	46.3	44.0	40.0	42.0	44.8
14	PBW880	914	50.0	49.0	44.0	52.0	48.8	47.0	47.0	47.0	48.2
15	RAJ4571	915	45.0	50.0	43.0	53.0	47.8	49.0	44.0	46.5	47.3
16	HD3431	916	42.0	48.0	49.0	43.0	45.5	48.0	41.0	44.5	45.2
17	DBW187(C)	917	58.0	53.0	44.0	51.0	51.5	48.0	45.0	46.5	49.8
18	WH1313	918	32.0	46.0	46.0	41.0	41.3	46.0	40.0	43.0	41.8
19	DBW380	919	45.0	52.0	42.0	47.0	46.5	45.0	42.0	43.5	45.5
20	DBW403	920	39.0	48.0	49.0	39.0	43.8	47.0	47.0	47.0	44.8
21	PBW877	921	48.0	43.0	47.0	46.0	46.0	44.0	41.0	42.5	44.8
22	DBW296	922	49.0	49.0	48.0	52.0	49.5	42.0	51.0	46.5	48.5
23	DBW379	923	36.0	45.0	44.0	41.0	41.5	48.0	40.0	44.0	42.3
24	DBW383	924	45.0	49.0	44.0	47.0	46.3	47.0	47.0	47.0	46.5
25	UP3116	925	63.0	48.0	48.0	68.0	56.8	40.0	44.0	42.0	51.8
Mean			46.1	47.2	45.4	45.7	46.1	45.1	44.6	44.8	45.7

Table 47: Phenol test score (Max-10) of *T. aestivum* genotypes in NIVT-6A

Sr. No.	Entry	Trial Code	NWPZ					NEPZ			Overall Mean
			Ludhiana	Delhi	Pantnagar	Hisar	Mean	Sabour	Varanasi	Mean	
1	HD3433	901	5.0	6.0	6.0	6.0	5.8	7.0	6.0	6.5	6.0
2	HI1682	902	6.0	7.0	5.0	5.0	5.8	7.0	5.0	6.0	5.8
3	UP3115	903	5.0	6.0	6.0	7.0	6.0	6.0	5.0	5.5	5.8
4	DBW404	904	6.0	5.0	6.0	6.0	5.8	6.0	6.0	6.0	5.8
5	DBW382	905	7.0	6.0	6.0	5.0	6.0	5.0	6.0	5.5	5.8
6	PBW878	906	5.0	6.0	5.0	6.0	5.5	6.0	6.0	6.0	5.7
7	HD3086(C)	907	5.0	7.0	5.0	7.0	6.0	5.0	5.0	5.0	5.7
8	BRW3922	908	6.0	6.0	6.0	6.0	6.0	6.0	7.0	6.5	6.2
9	HD3432	909	5.0	6.0	7.0	5.0	5.8	6.0	7.0	6.5	6.0
10	WH1314	910	6.0	6.0	5.0	6.0	5.8	5.0	6.0	5.5	5.7
11	DBW303(C)	911	5.0	6.0	6.0	7.0	6.0	6.0	7.0	6.5	6.2
12	K2001	912	6.0	7.0	6.0	6.0	6.3	7.0	6.0	6.5	6.3
13	PBW879	913	5.0	6.0	8.0	7.0	6.5	6.0	8.0	7.0	6.7
14	PBW880	914	6.0	8.0	6.0	7.0	6.8	5.0	5.0	5.0	6.2
15	RAJ4571	915	7.0	7.0	6.0	7.0	6.8	8.0	7.0	7.5	7.0
16	HD3431	916	6.0	7.0	6.0	6.0	6.3	7.0	6.0	6.5	6.3
17	DBW187(C)	917	6.0	6.0	5.0	7.0	6.0	6.0	5.0	5.5	5.8
18	WH1313	918	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	5.3
19	DBW380	919	6.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.7
20	DBW403	920	7.0	6.0	7.0	7.0	6.8	6.0	7.0	6.5	6.7
21	PBW877	921	6.0	7.0	6.0	5.0	6.0	6.0	7.0	6.5	6.2
22	DBW296	922	5.0	6.0	7.0	7.0	6.3	5.0	7.0	6.0	6.2
23	DBW379	923	7.0	7.0	6.0	5.0	6.3	6.0	6.0	6.0	6.2
24	DBW383	924	6.0	8.0	6.0	7.0	6.8	5.0	5.0	5.0	6.2
25	UP3116	925	5.0	7.0	5.0	6.0	5.8	6.0	7.0	6.5	6.0
Mean			5.8	6.4	5.9	6.2	6.1	6.0	6.1	6.0	6.1

Table 48: Grain appearance score (Max-10) of *T. aestivum* genotypes in NIVT-6B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone				Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Dharwad	Mean	
1	MP3567	N-1002	7.5	7.5	7.5	7.0	7.4	7.3	7.0	7.0	7.1	7.2
2	DBW381	N-1003	7.0	7.0	5.5	6.0	6.4	6.5	7.0	6.8	6.8	6.6
3	HI1680	N-1004	7.3	5.8	7.8	7.5	7.1	7.0	7.0	7.0	7.0	7.0
4	GW543	N-1005	7.5	7.5	7.0	7.5	7.4	7.3	6.8	6.8	6.9	7.2
5	UAS3026	N-1006	7.5	7.0	7.0	7.0	7.1	7.0	7.0	6.5	6.8	7.0
6	PBW881	N-1007	6.0	5.0	6.0	6.0	5.8	6.5	6.0	6.5	6.3	6.0
7	NIAW4040	N-1008	8.0	7.0	7.8	7.5	7.6	7.8	6.8	6.8	7.1	7.3
8	DBW405	N-1009	7.0	6.3	6.5	6.8	6.6	6.5	6.5	6.8	6.6	6.6
9	HD3435	N-1010	6.5	5.5	5.0	6.8	5.9	6.5	5.8	6.5	6.3	6.1
10	MP3564	N-1011	7.0	6.5	7.0	6.3	6.7	6.8	7.0	6.5	6.8	6.7
11	MP1391	N-1012	7.8	8.0	6.8	7.0	7.4	7.3	7.0	7.0	7.1	7.2
12	NIAW4174	N-1013	7.8	5.0	8.0	7.0	6.9	7.8	7.0	6.8	7.2	7.1
13	UAS3025	N-1015	7.0	7.0	7.0	6.5	6.9	7.5	6.8	6.5	6.9	6.9
14	CG1044	N-1016	8.5	8.0	6.8	8.0	7.8	7.3	7.0	7.5	7.3	7.5
15	MACS6802	N-1017	6.8	7.5	7.0	7.0	7.1	7.3	7.3	6.5	7.0	7.0
16	DBW401	N-1018	7.5	6.5	7.0	6.8	6.9	7.0	7.0	6.5	6.8	6.9
17	GW545	N-1019	5.5	5.5	6.5	7.0	6.1	6.0	5.5	6.5	6.0	6.1
18	GW546	N-1020	6.0	7.3	7.3	7.3	6.9	6.8	6.8	6.5	6.7	6.8
19	HI1681	N-1021	6.5	6.3	6.8	6.8	6.6	6.5	6.5	6.5	6.5	6.5
20	DBW406	N-1022	7.5	6.8	6.8	7.5	7.1	7.0	7.0	7.0	7.0	7.1
21	GW544	N-1023	8.0	7.5	8.0	7.5	7.8	7.8	7.3	6.8	7.3	7.5
22	MACS6803	N-1024	6.3	7.0	7.8	7.0	7.0	6.8	6.5	6.8	6.7	6.8
23	HP1977	N-1025	6.0	5.5	6.8	7.0	6.3	7.0	6.8	6.3	6.7	6.5
24	GW322©	N-1001	6.5	6.8	6.8	7.5	6.9	7.5	6.5	6.3	6.8	6.8
25	DBW187©	N-1014	6.8	6.3	7.0	6.8	6.7	7.0	6.5	6.8	6.8	6.7
Mean			7.0	6.6	6.9	7.0	6.9	7.0	6.7	6.7	6.8	6.9

Table 49: Hectolitre weight (kg/hl) of *T. aestivum* genotypes in NIVT-6B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone				Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Dharwad	Mean	
1	MP3567	N-1002	85.8	84.8	84.8	88.0	85.8	83.9	87.7	79.8	83.8	84.8
2	DBW381	N-1003	82.3	80.2	82.3	83.5	82.1	82.3	84.4	77.3	81.3	81.7
3	HI1680	N-1004	84.5	84.5	85.5	85.9	85.1	84.5	88.0	80.9	84.5	84.8
4	GW543	N-1005	82.2	81.1	80.2	86.2	82.4	82.1	84.6	78.5	81.8	82.1
5	UAS3026	N-1006	83.3	80.2	79.2	83.3	81.5	83.5	84.1	75.3	80.9	81.2
6	PBW881	N-1007	83.6	82.5	82.5	84.3	83.2	84.5	84.2	75.1	81.3	82.3
7	NIAW4040	N-1008	83.6	81.5	82.5	83.5	82.8	84.5	84.2	76.9	81.9	82.3
8	DBW405	N-1009	81.3	76.2	78.3	84.3	80.0	81.3	82.7	77.5	80.5	80.3
9	HD3435	N-1010	80.6	74.6	74.6	83.4	78.3	81.7	81.4	74.9	79.3	78.8
10	MP3564	N-1011	84.2	83.1	84.1	86.3	84.4	85.1	86.4	78.2	83.2	83.8
11	MP1391	N-1012	86.4	82.4	82.5	87.3	84.6	81.5	87.8	79.5	82.9	83.8
12	NIAW4174	N-1013	82.7	78.8	80.7	82.2	81.1	80.9	81.0	74.6	78.8	80.0
13	UAS3025	N-1015	81.6	82.6	78.6	83.9	81.7	83.7	85.1	76.6	81.8	81.7
14	CG1044	N-1016	84.6	82.7	83.6	84.6	83.9	83.7	87.5	80.6	83.9	83.9
15	MACS6802	N-1017	85.0	83.9	84.0	86.2	84.8	83.0	85.1	79.2	82.4	83.6
16	DBW401	N-1018	79.7	74.7	77.7	82.7	78.7	78.8	82.0	74.9	78.5	78.6
17	GW545	N-1019	83.8	83.7	84.7	87.8	85.0	83.8	87.7	77.3	82.9	84.0
18	GW546	N-1020	84.7	85.7	85.7	87.3	85.9	84.8	85.7	80.4	83.6	84.7
19	HI1681	N-1021	84.5	84.5	84.5	85.0	84.6	83.5	85.8	78.6	82.6	83.6
20	DBW406	N-1022	80.7	80.7	80.7	83.6	81.4	81.7	85.0	78.2	81.6	81.5
21	GW544	N-1023	84.3	82.2	85.2	86.0	84.4	83.8	85.9	77.5	82.4	83.4
22	MACS6803	N-1024	83.7	84.7	83.6	86.3	84.6	86.8	87.7	77.9	84.1	84.3
23	HP1977	N-1025	81.7	80.7	82.7	86.0	82.8	84.7	85.7	77.5	82.6	82.7
24	GW322©	N-1001	82.4	82.3	81.3	84.3	82.6	81.4	85.6	75.8	80.9	81.8
25	DBW187©	N-1014	84.4	81.3	82.3	85.4	83.3	81.4	84.3	77.2	81.0	82.2
Mean			83.3	81.6	82.1	85.1	83.0	83.1	85.2	77.6	82.0	82.5

Table 50: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in NIVT-6B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone				Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Dharwad	Mean	
1	MP3567	N-1002	10.7	11.0	10.2	12.6	11.1	12.7	12.0	12.6	12.5	11.8
2	DBW381	N-1003	11.5	12.2	11.0	13.8	12.1	14.4	12.6	14.6	13.9	13.0
3	HI1680	N-1004	11.9	10.9	10.5	12.8	11.5	13.0	9.7	13.2	12.0	11.8
4	GW543	N-1005	10.4	10.9	9.8	11.8	10.7	12.7	9.9	13.3	11.9	11.3
5	UAS3026	N-1006	11.7	11.5	10.0	12.4	11.4	13.0	10.9	13.0	12.3	11.9
6	PBW881	N-1007	12.2	11.3	11.4	13.9	12.2	14.0	9.9	13.1	12.4	12.3
7	NIAW4040	N-1008	11.1	11.4	11.2	11.9	11.4	13.3	9.9	13.1	12.1	11.8
8	DBW405	N-1009	12.1	11.8	11.5	12.9	12.1	13.6	9.7	13.9	12.4	12.2
9	HD3435	N-1010	10.1	11.8	10.9	12.3	11.3	12.3	10.4	12.5	11.7	11.5
10	MP3564	N-1011	12.1	11.8	11.3	14.6	12.5	14.2	11.5	14.1	13.3	12.9
11	MP1391	N-1012	10.2	10.0	9.8	11.7	10.4	12.4	8.7	12.3	11.1	10.8
12	NIAW4174	N-1013	10.5	10.6	10.6	12.4	11.0	12.5	9.6	12.7	11.6	11.3
13	UAS3025	N-1015	10.8	10.6	10.1	11.7	10.8	12.6	12.0	12.6	12.4	11.6
14	CG1044	N-1016	11.3	9.5	9.5	11.9	10.5	12.9	8.2	12.3	11.1	10.8
15	MACS6802	N-1017	12.6	10.2	10.6	12.7	11.5	13.4	10.0	13.4	12.2	11.9
16	DBW401	N-1018	11.4	11.9	10.1	12.5	11.5	13.3	11.2	13.8	12.7	12.1
17	GW545	N-1019	10.7	10.2	9.3	11.7	10.5	12.2	9.2	12.0	11.1	10.8
18	GW546	N-1020	12.4	10.7	10.7	14.1	12.0	14.0	10.6	12.8	12.5	12.2
19	HI1681	N-1021	12.6	10.9	10.1	13.1	11.7	13.1	9.3	13.6	12.0	11.8
20	DBW406	N-1022	10.7	11.5	10.7	12.2	11.3	13.1	9.3	12.8	11.7	11.5
21	GW544	N-1023	11.2	11.4	11.5	13.6	11.9	14.4	13.5	13.0	13.6	12.8
22	MACS6803	N-1024	11.9	10.7	11.1	13.1	11.7	13.3	12.4	13.7	13.1	12.4
23	HP1977	N-1025	11.9	11.7	9.2	12.3	11.3	13.5	10.0	13.1	12.2	11.7
24	GW322©	N-1001	10.5	10.6	10.3	11.4	10.7	12.0	8.9	11.6	10.8	10.8
25	DBW187©	N-1014	13.0	11.5	10.4	13.2	12.1	13.8	10.1	13.4	12.4	12.2
Mean			11.4	11.1	10.5	12.7	11.4	13.2	10.4	13.1	12.2	11.8

Table 51: Sedimentation value (ml) of *T. aestivum* genotypes in NIVT-6B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone				Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Dharwad	Mean	
1	MP3567	N-1002	63	59	60	54	59	61	64	62	62	60
2	DBW381	N-1003	61	56	61	64	60	65	55	64	61	61
3	HI1680	N-1004	47	44	46	45	45	47	47	47	47	46
4	GW543	N-1005	54	48	50	53	51	56	50	55	54	52
5	UAS3026	N-1006	56	52	57	54	55	55	55	57	55	55
6	PBW881	N-1007	64	59	61	64	62	65	59	55	59	61
7	NIAW4040	N-1008	44	45	43	47	44	48	46	39	44	44
8	DBW405	N-1009	56	58	55	63	58	63	55	56	58	58
9	HD3435	N-1010	45	47	45	46	45	47	44	43	44	45
10	MP3564	N-1011	67	66	62	65	65	62	67	69	66	65
11	MP1391	N-1012	48	53	45	53	49	52	48	50	50	50
12	NIAW4174	N-1013	46	51	48	49	48	51	46	54	50	49
13	UAS3025	N-1015	53	53	50	52	52	55	56	55	55	54
14	CG1044	N-1016	54	59	55	59	56	61	44	55	53	55
15	MACS6802	N-1017	43	44	43	43	43	47	49	43	46	45
16	DBW401	N-1018	55	62	62	64	61	64	57	61	61	61
17	GW545	N-1019	46	43	43	48	45	51	42	47	46	45
18	GW546	N-1020	53	47	49	53	50	57	57	56	56	53
19	HI1681	N-1021	52	57	49	54	53	54	50	54	53	53
20	DBW406	N-1022	57	56	59	64	59	63	58	63	61	60
21	GW544	N-1023	52	52	53	55	53	52	47	50	50	51
22	MACS6803	N-1024	43	47	44	48	45	50	46	41	46	45
23	HP1977	N-1025	54	53	54	55	54	57	54	53	54	54
24	GW322©	N-1001	44	41	40	44	42	47	44	47	46	44
25	DBW187©	N-1014	66	61	63	64	63	63	62	64	63	63
Mean			53	52	52	54	53	56	52	53	54	53

Table 52: Phenol Test [Max. Score = 10.0] of *T. aestivum* genotypes in NIVT-6B

Sr. No.	Entry	Trial Code	Central Zone					Peninsular Zone				Overall Mean
			Vijapur	Indore	Powarkheda	Junagadh	Mean	Pune	Niphad	Dharwad	Mean	
1	MP3567	N-1002	7.0	7.5	8.0	7.0	7.4	7.5	8.0	7.5	7.7	7.5
2	DBW381	N-1003	7.5	8.0	7.5	7.5	7.6	8.0	8.0	7.5	7.8	7.7
3	HI1680	N-1004	7.0	6.5	7.0	7.0	6.9	8.0	7.0	6.5	7.2	7.0
4	GW543	N-1005	5.5	4.0	4.5	5.5	4.9	6.0	5.0	6.0	5.7	5.3
5	UAS3026	N-1006	4.0	5.0	4.0	4.0	4.3	5.0	4.0	5.5	4.8	4.5
6	PBW881	N-1007	7.5	8.0	8.0	7.5	7.8	7.0	7.0	7.5	7.2	7.5
7	NIAW4040	N-1008	5.5	5.0	5.0	6.0	5.4	6.0	6.0	6.0	6.0	5.7
8	DBW405	N-1009	7.0	7.5	7.5	7.0	7.3	8.0	8.0	7.0	7.7	7.5
9	HD3435	N-1010	8.0	7.5	7.5	7.0	7.5	7.5	8.0	6.5	7.3	7.4
10	MP3564	N-1011	8.0	6.5	7.5	7.0	7.3	7.5	7.0	8.0	7.5	7.4
11	MP1391	N-1012	7.0	7.5	7.5	7.5	7.4	7.0	7.0	6.5	6.8	7.1
12	NIAW4174	N-1013	4.5	4.0	5.0	5.5	4.8	5.0	4.5	5.0	4.8	4.8
13	UAS3025	N-1015	7.5	8.0	8.0	7.5	7.8	7.5	8.0	7.0	7.5	7.6
14	CG1044	N-1016	8.0	8.0	7.5	7.5	7.8	7.5	7.0	7.0	7.2	7.5
15	MACS6802	N-1017	6.0	7.5	7.0	5.5	6.5	6.0	7.0	8.0	7.0	6.8
16	DBW401	N-1018	7.5	7.5	7.0	7.5	7.4	7.0	8.0	8.0	7.7	7.5
17	GW545	N-1019	4.5	4.0	4.0	5.5	4.5	4.0	4.5	4.0	4.2	4.3
18	GW546	N-1020	4.5	4.0	4.0	5.5	4.5	4.0	4.5	4.0	4.2	4.3
19	HI1681	N-1021	4.5	4.0	4.0	5.5	4.5	4.0	4.0	5.5	4.5	4.5
20	DBW406	N-1022	7.5	8.0	7.5	8.0	7.8	7.0	8.0	8.0	7.7	7.7
21	GW544	N-1023	8.0	8.0	8.0	8.0	8.0	6.5	8.0	7.5	7.3	7.7
22	MACS6803	N-1024	7.0	6.5	7.0	8.5	7.3	6.0	7.0	7.5	6.8	7.0
23	HP1977	N-1025	7.0	7.5	7.0	7.5	7.3	6.5	7.0	7.0	6.8	7.0
24	GW322©	N-1001	5.5	8.0	7.5	7.5	7.1	6.0	8.0	6.5	6.8	7.0
25	DBW187©	N-1014	7.5	8.0	8.0	7.5	7.8	7.5	8.0	7.5	7.7	7.7
Mean			6.5	6.6	6.6	6.8	6.7	6.5	6.7	6.7	6.6	6.6

Table 53: Grain appearance score (Max-10) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Irrigated Late Sown						
1	VL892(C)	201	5.6	5.2	5.2	5.3
2	HS490(C)	204	6.0	5.4	5.2	5.5
3	HPW487	202	6.2	5.6	5.4	5.7
4	HS694	203	5.6	5.2	5.2	5.3
5	HS692	205	6.2	6.0	5.6	5.9
6	HS693	206	6.4	5.4	5.6	5.8
7	VL3029	207	6.0	5.6	5.4	5.7
8	UP3114	208	5.4	5.2	5.0	5.2
9	VL3030	209	6.0	5.4	5.6	5.7
10	HPW488	210	6.0	5.4	5.6	5.7
11	VL3028	211	6.0	5.4	5.6	5.7
12	HPW481	212	6.0	5.4	5.8	5.7
	Mean		6.0	5.4	5.4	5.6
Rainfed Timely Sown						
1	HS507(C)	306	6.6	5.8	6.0	6.1
2	HS562(C)	310	6.4	6.2	6.2	6.3
3	HS690	301	6.4	6.4	6.8	6.5
4	VL2050	302	6.0	6.2	5.8	6.0
5	UP3113	303	6.2	6.2	6.0	6.1
6	HS691	304	6.2	6.0	6.4	6.2
7	HS689	305	6.0	6.0	5.8	5.9
8	HPW483	307	6.4	5.8	6.0	6.1
9	HPW486	308	6.2	6.2	6.2	6.2
10	SKW362	309	6.2	6.2	6.0	6.1
11	HPW485	311	6.8	6.0	6.2	6.3
12	HS688	312	6.2	6.0	6.2	6.1
13	VL2048	313	6.2	6.2	6.0	6.1
14	HPW484	314	6.4	6.2	6.0	6.2
15	VL2049	315	6.4	6.6	7.0	6.7
16	VL2047	316	6.2	6.2	6.4	6.3
	Mean		6.3	6.1	6.2	6.2

Table 53: Hectolitre weight (Kg/hl) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Irrigated Late Sown						
1	VL892(C)	201	77.9	75.0	72.0	75.0
2	HS490(C)	204	74.2	73.4	71.0	72.9
3	HPW487	202	74.9	73.4	70.7	73.0
4	HS694	203	77.3	72.7	71.9	74.0
5	HS692	205	78.6	78.6	76.0	77.7
6	HS693	206	77.0	71.3	70.0	72.8
7	VL3029	207	78.2	78.3	70.8	75.8
8	UP3114	208	74.8	73.5	69.5	72.6
9	VL3030	209	76.2	76.4	75.5	76.0
10	HPW488	210	76.3	74.8	73.6	74.9
11	VL3028	211	76.3	76.6	73.8	75.6
12	HPW481	212	77.0	76.2	75.3	76.2
	Mean		76.6	75.0	72.5	74.7
Rainfed Timely Sown						
1	HS507(C)	306	79.5	79.0	80.2	79.6
2	HS562(C)	310	79.3	79.9	75.1	78.1
3	HS690	301	81.6	81.7	81.2	81.5
4	VL2050	302	78.4	78.5	78.4	78.4
5	UP3113	303	79.7	80.1	78.1	79.3
6	HS691	304	79.6	80.3	79.0	79.6
7	HS689	305	80.3	80.1	77.5	79.3
8	HPW483	307	79.6	78.4	78.8	78.9
9	HPW486	308	77.6	78.9	79.2	78.6
10	SKW362	309	77.4	77.9	75.3	76.9
11	HPW485	311	79.5	77.7	78.5	78.6
12	HS688	312	77.8	80.1	77.6	78.5
13	VL2048	313	80.1	77.7	79.8	79.2
14	HPW484	314	77.2	75.0	75.3	75.8
15	VL2049	315	78.4	77.7	79.9	78.7
16	VL2047	316	78.0	76.9	79.7	78.2
	Mean		79.0	78.7	78.4	78.7

Table 54: Protein content (%) at 12% moisture basis of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Irrigated Late Sown						
1	VL892(C)	201	11.5	12.6	12.8	12.3
2	HS490(C)	204	11.4	12.1	12.5	12.0
3	HPW487	202	12.0	12.9	13.0	12.6
4	HS694	203	11.7	14.1	13.5	13.1
5	HS692	205	12.5	12.1	13.2	12.6
6	HS693	206	11.9	13.7	14.2	13.3
7	VL3029	207	11.4	11.7	12.7	12.0
8	UP3114	208	12.3	12.9	14.6	13.3
9	VL3030	209	12.0	12.3	12.5	12.3
10	HPW488	210	12.6	13.2	12.4	12.7
11	VL3028	211	11.7	11.9	11.9	11.8
12	HPW481	212	10.9	12.3	11.5	11.6
	Mean		11.8	12.7	12.9	12.5
Rainfed Timely Sown						
1	HS507(C)	306	10.1	8.3	9.0	9.1
2	HS562(C)	310	9.9	6.7	10.2	8.9
3	HS690	301	9.9	7.3	9.4	8.9
4	VL2050	302	10.5	7.1	10.0	9.2
5	UP3113	303	11.1	8.0	10.4	9.9
6	HS691	304	9.6	7.6	9.6	9.0
7	HS689	305	12.0	7.0	10.7	9.9
8	HPW483	307	10.2	7.9	10.0	9.3
9	HPW486	308	11.0	7.5	9.7	9.4
10	SKW362	309	11.9	8.8	10.4	10.4
11	HPW485	311	10.9	8.2	10.5	9.8
12	HS688	312	11.9	6.4	9.6	9.3
13	VL2048	313	10.5	6.8	9.8	9.0
14	HPW484	314	10.6	7.6	9.4	9.2
15	VL2049	315	12.7	8.5	12.0	11.1
16	VL2047	316	10.6	7.1	9.8	9.2
	Mean		10.8	7.6	10.0	9.5

Table 55: Sedimentation value (ml) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Irrigated Late Sown						
1	VL892(C)	201	43.4	40.3	54.2	46.0
2	HS490(C)	204	48.0	47.7	50.0	48.6
3	HPW487	202	40.3	40.0	47.3	42.5
4	HS694	203	56.9	47.3	67.7	57.3
5	HS692	205	43.0	48.0	47.7	46.3
6	HS693	206	47.3	47.7	53.4	49.5
7	VL3029	207	48.8	26.9	51.5	42.4
8	UP3114	208	58.4	24.2	61.5	48.0
9	VL3030	209	59.2	51.5	58.8	56.5
10	HPW488	210	63.1	55.0	59.6	59.2
11	VL3028	211	52.3	38.8	51.5	47.5
12	HPW481	212	46.5	40.7	48.0	45.1
	Mean		50.6	42.3	54.3	49.1
Rainfed Timely Sown						
1	HS507(C)	306	42.7	35.7	43.0	40.5
2	HS562(C)	310	47.7	35.0	50.4	44.3
3	HS690	301	37.3	31.9	40.0	36.4
4	VL2050	302	36.9	28.0	39.6	34.8
5	UP3113	303	39.6	31.5	40.0	37.0
6	HS691	304	40.0	31.1	43.8	38.3
7	HS689	305	49.2	36.1	49.2	44.8
8	HPW483	307	36.5	32.3	41.1	36.6
9	HPW486	308	40.7	32.6	40.3	37.9
10	SKW362	309	51.1	46.9	48.8	48.9
11	HPW485	311	40.7	29.2	40.7	36.9
12	HS688	312	51.5	36.1	47.7	45.1
13	VL2048	313	51.1	40.0	55.4	48.8
14	HPW484	314	47.3	38.0	48.8	44.7
15	VL2049	315	45.7	39.6	42.7	42.7
16	VL2047	316	46.9	38.0	47.3	44.1
	Mean		44.1	35.1	44.9	41.4

Table 56: Phenol test (Max-10) of *T. aestivum* genotypes in Northern Hills Zone (NHZ) IVTs

S. No.	Entries	Code	Almora	Shimla	Malan	Mean
Irrigated Late Sown						
1	VL892(C)	201	8.0	7.0	7.5	7.5
2	HS490(C)	204	7.5	6.5	7.5	7.2
3	HPW487	202	8.5	6.5	7.0	7.3
4	HS694	203	8.5	8.0	7.5	8.0
5	HS692	205	4.5	3.0	4.0	3.8
6	HS693	206	9.0	8.5	8.0	8.5
7	VL3029	207	3.5	3.5	3.5	3.5
8	UP3114	208	7.5	7.5	8.5	7.8
9	VL3030	209	7.0	8.0	7.0	7.3
10	HPW488	210	7.0	7.5	8.0	7.5
11	VL3028	211	6.5	6.0	7.5	6.7
12	HPW481	212	8.0	7.5	8.0	7.8
	Mean		7.1	6.6	7.0	6.9
Rainfed Timely Sown						
1	HS507(C)	306	6.0	7.0	6.5	6.5
2	HS562(C)	310	7.0	8.5	7.5	7.7
3	HS690	301	6.5	6.0	7.0	6.5
4	VL2050	302	5.5	5.0	7.0	5.8
5	UP3113	303	6.5	8.5	7.5	7.5
6	HS691	304	7.0	7.5	7.0	7.2
7	HS689	305	7.5	8.0	7.5	7.7
8	HPW483	307	4.5	4.0	5.5	4.7
9	HPW486	308	6.0	7.0	7.5	6.8
10	SKW362	309	7.0	8.0	7.0	7.3
11	HPW485	311	7.5	8.0	7.5	7.7
12	HS688	312	6.5	7.5	7.0	7.0
13	VL2048	313	7.0	7.0	7.5	7.2
14	HPW484	314	4.5	4.5	4.5	4.5
15	VL2049	315	1.0	1.5	1.0	1.2
16	VL2047	316	6.5	5.5	7.0	6.3
	Mean		6.0	6.5	6.5	6.3

QCWBN

Table 1: Grain appearance score (Max-10) of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	5.8		4.8	5.8	5.5	5.0	5.2	5.2	5.1
2	RWP 1174	5.8	5.0	4.4	4.8	5.0	5.6	5.2	5.2	5.3
3	WB 02 (C)	6.0	5.2	4.8	5.0	5.3	5.4	5.4	5.2	5.3
4	CG 2117	7.0	5.0	4.8	5.6	5.6	6.0	6.0	5.6	5.9
5	IDW 2116 (d)	5.8	5.4	4.4	5.0	5.2	5.8	4.6	5.4	5.3
6	WBL 1630	5.8		5.2	5.0	5.3	5.6	5.6	5.4	5.5
7	DBW 187 (C)	6.0	5.4	5.0	5.2	5.4	5.8	5.2	5.6	5.5
8	QLD 124	6.2	5.6	4.6	5.0	5.4	6.0	5.2	5.8	5.7
9	INDB 2119	6.4	5.4	4.6	5.2	5.4	5.8	4.8	5.4	5.3
10	MACS 6849	5.4	5.0	4.6	5.0	5.0	5.6	4.6	5.4	5.2
11	MP 3562	5.8	5.0	4.0	5.0	5.0	5.4	5.0	5.4	5.3
12	DBW 222 (C)	5.6	5.2	4.0	5.6	5.1	6.0	5.4	5.6	5.7
13	GW 322 (C)	5.6	5.2	4.8	4.4	5.0	5.8	5.2	5.4	5.5
14	AKDW 4773	5.8	5.4	4.8	5.6	5.4	5.8	4.8	5.2	5.3
15	GW 2021-1018	4.8	4.8	3.8	5.4	4.7	4.8	4.8	5.0	4.9
17	CG 2116	6.4	5.6	4.0	5.6	5.4	5.6	5.0	5.6	5.4
18	GW 2021-1017	5.8	5.0	3.8	5.4	5.0	5.6	4.8	5.2	5.2
20	PBS 04	5.8	5.4	5.2	5.2	5.4	6.2	5.4	5.4	5.7
21	WBL 1626	5.8	5.6	4.0	5.8	5.3	5.8	5.4	5.6	5.6
22	MP 3564	6.2	5.6	3.8	5.0	5.2	6.0	5.0	5.6	5.5
24	QBI 21-4	5.6	5.6	5.2	5.8	5.6	5.6	5.0	5.2	5.3
25	QBI 21-1	6.2	5.6	4.8	6.0	5.7	6.0	5.4	5.6	5.7
27	RAJ 4083	6.0	5.4	5.0	6.0	5.6	6.0	5.0	5.6	5.5
28	PBS 01	5.6	5.2	5.2	6.0	5.5	5.6	4.8	5.4	5.3
29	MACS 6847	5.6	5.0	3.8	5.4	5.0	5.6	5.6	5.2	5.5
30	GW 2021-1026	5.8	5.2	5.2	7.0	5.8	5.6	5.0	5.6	5.4
31	PBS 02	5.8	5.2	5.0	7.0	5.8	5.8	5.4	5.8	5.7
34	AKAW 4781	6.2	5.2	4.8	5.2	5.4	5.8	5.6	6.0	5.8
35	CG 2118	6.0	5.6	4.8	5.0	5.4	6.4	5.6	5.8	5.9
36	MACS 6845	6.2	5.4	3.8	4.6	5.0	6.0	5.4	5.8	5.7
38	NEQ 2021-2	6.0	5.0	5.2	5.6	5.5	5.6	5.6	5.8	5.7
39	BNSR 9	5.8	5.0	5.2	5.8	5.5	5.8	5.8	5.6	5.7
40	RAJ 4238	6.2	5.6	3.8	5.8	5.4	5.8	5.2	5.6	5.5
41	UP 3083	5.6	5.4	5.4	5.4	5.5	6.0	5.4	5.8	5.7
43	UASQ 332	5.6	5.8	4.0	5.6	5.3	6.0	5.8	5.6	5.8
44	WBL 1629	6.0	5.4	4.8	5.0	5.3	5.8	5.2	5.4	5.5
46	MACS 6846	5.8	5.0	4.8	4.8	5.1	5.2	5.4	5.4	5.3
48	UP 3086	5.4	5.2	4.4	5.0	5.0	5.6	5.0	5.4	5.3
49	QBI 21-3	5.2	5.2	3.8	5.2	4.9	6.2	5.2	5.4	5.6
51	INDB 2120	6.4	5.8	3.8	5.8	5.5	6.0	5.4	5.6	5.7
52	WBL 1627	5.8	5.2	3.8	5.8	5.2	5.4	5.2	5.4	5.3
53	BNSR 8	5.8	5.6	4.0	6.2	5.4	5.8	6.2	5.6	5.9
55	GW 2021-1020	6.0	5.8	5.4	6.0	5.8	5.8	6.0	5.4	5.7
56	UP 3088	5.2	5.6	5.2	5.8	5.5	5.8	6.0	5.6	5.8
57	RWP 1216	5.8	5.4	5.2	5.8	5.6	5.6	5.8	5.6	5.7
59	MACS 6848	5.8	5.2	5.0	5.4	5.4	5.6	5.6	5.2	5.5
60	QLD 125	6.4	5.4	4.8	5.8	5.6	6.2	5.8	5.4	5.8
62	GW 2021-1022	5.6	5.2	3.8	5.4	5.0	5.4	5.0	5.6	5.3
63	WBL 1628	5.4	5.4	4.2	5.0	5.0	5.8	5.6	5.2	5.5
64	QBI 21-5	5.6	5.6	5.0	5.6	5.5	5.8	5.8	5.4	5.7
66	PBS 03	6.0	5.6	5.4	5.8	5.7	5.6	6.0	5.8	5.8
67	INDB 2121	5.6	5.4	3.8	5.2	5.0	6.0	6.0	5.8	5.9
68	MP 3340	5.8	5.4	5.0	5.8	5.5	5.6	6.2	5.8	5.9
70	NEQ 2021-1	5.8	5.6	5.2	6.0	5.7	6.0	5.8	5.6	5.8
	Mean	5.8	5.3	4.6	5.5	5.3	5.7	5.4	5.5	5.5

Table 1 continued

S. No.	Genotype	CZ				PZ			
		Indore	Vijapur	P.kheda	Mean	Pune	Dharwad	Niphad	Mean
1	QBI 21-2	6.2	6.8	5.8	6.3	5.6	5.6	6.8	6.0
2	RWP 1174	5.6	6.4	5.8	5.9	5.4	5.2	6.2	5.6
3	WB 02 (C)	6.6	6.6	6.2	6.5	5.6	5.4	6.6	5.9
4	CG 2117	7.0	7.2	6.4	6.9	6.4	6.2	6.8	6.5
5	IDW 2116 (d)	6.8	6.8	6.2	6.6	6.4	5.2	7.0	6.2
6	WBL 1630	5.8	6.4	6.0	6.1	6.2	5.2	6.4	5.9
7	DBW 187 (C)	6.0	5.6	5.8	5.8	5.8	5.0	6.0	5.6
8	QLD 124	6.0	6.4	6.4	6.3	5.8	5.0	6.2	5.7
9	INDB 2119	6.2	6.4	6.2	6.3	5.8	5.0	5.8	5.5
10	MACS 6849	5.6	5.8	5.8	5.7	5.8	5.0	5.8	5.5
11	MP 3562	6.2	5.6	5.6	5.8	6.0	4.2	5.6	5.3
12	DBW 222 (C)	5.2	5.8	5.8	5.6	5.4	4.0	5.4	4.9
13	GW 322 (C)	5.8	5.2	6.0	5.7	5.4	4.8	5.4	5.2
14	AKDW 4773	6.4	6.4	5.8	6.2	5.8	6.2	6.8	6.3
15	GW 2021-1018	6.0	5.4	5.2	5.5	5.8	5.0	5.2	5.3
17	CG 2116	6.8	6.4	5.6	6.3	6.0	5.4	6.4	5.9
18	GW 2021-1017	6.8	6.6	5.8	6.4	5.8	4.4	6.6	5.6
20	PBS 04	6.4	5.2	5.6	5.7	5.4	4.4	5.8	5.2
21	WBL 1626	6.2	6.2	6.2	6.2	6.0	5.4	5.8	5.7
22	MP 3564	5.8	6.2	6.2	6.1	6.0	5.0	6.0	5.7
24	QBI 21-4	5.4	6.0	5.8	5.7	5.4	5.0	6.0	5.5
25	QBI 21-1	6.6	6.4	5.6	6.2	6.2	5.8	6.0	6.0
27	RAJ 4083	6.6	6.2	5.6	6.1	6.2	5.4	5.4	5.7
28	PBS 01	6.4	5.6	5.6	5.9	5.6	5.4	5.5	5.5
29	MACS 6847	5.2	6.0	5.6	5.6	5.8	5.2	5.6	5.5
30	GW 2021-1026	6.8	6.6	5.6	6.3	5.6	5.8	6.2	5.9
31	PBS 02	7.0	6.6	6.0	6.5	6.0	5.8	6.4	6.1
34	AKAW 4781	6.6	6.2	6.2	6.3	5.8	4.0	5.8	5.2
35	CG 2118	6.8	6.8	6.4	6.7	6.4	4.0	6.6	5.7
36	MACS 6845	5.4	7.2	6.2	6.3	6.2	4.8	6.6	5.9
38	NEQ 2021-2	6.2	6.4	6.0	6.2	5.8	5.0	6.4	5.7
39	BNSR 9	6.2	6.4	5.8	6.1	6.2	5.2	6.2	5.9
40	RAJ 4238	6.8	6.4	6.0	6.4	6.4	5.6	6.0	6.0
41	UP 3083	5.8	6.6	6.0	6.1	6.2	5.8	6.4	6.1
43	UASQ 332	6.4	6.2	5.0	5.9	5.6	5.2	6.0	5.6
44	WBL 1629	5.8	6.0	5.4	5.7	5.6	5.0	5.4	5.3
46	MACS 6846	5.8	5.8	5.4	5.7	5.6	4.8	5.2	5.2
48	UP 3086	5.6	5.8	5.6	5.7	5.6	4.8	6.0	5.5
49	QBI 21-3	5.8	6.0	5.6	5.8	6.0	5.0	6.2	5.7
51	INDB 2120	6.2	6.4	6.2	6.3	6.0	5.2	5.2	5.5
52	WBL 1627	6.8	6.4	6.0	6.4	6.0	5.4	5.8	5.7
53	BNSR 8	5.6	6.0	6.2	5.9	6.2	4.8	5.0	5.3
55	GW 2021-1020	6.2	5.8	6.2	6.1	5.4	4.4	6.6	5.5
56	UP 3088	7.0	5.6	6.0	6.2	5.6	5.0	6.2	5.6
57	RWP 1216	6.4	6.2	6.0	6.2	5.6	5.4	5.6	5.5
59	MACS 6848	6.2	6.2	5.4	5.9	5.8	5.0	5.2	5.3
60	QLD 125	6.2	6.0	6.8	6.3	6.0	5.2	5.8	5.7
62	GW 2021-1022	5.8	6.2	5.8	5.9	6.6	5.2	5.4	5.7
63	WBL 1628	6.6	6.2	5.6	6.1	5.8	4.2	5.2	5.1
64	QBI 21-5	6.2	6.0	5.8	6.0	5.6	5.2	5.6	5.5
66	PBS 03	6.2	5.8	5.8	5.9	5.8	6.0	6.4	6.1
67	INDB 2121	6.6	6.6	6.0	6.4	5.8	5.2	5.2	5.4
68	MP 3340	6.2	5.8	5.8	5.9	5.8	5.2	5.2	5.4
70	NEQ 2021-1	6.4	6.6	5.8	6.3	5.8	4.8	6.4	5.7
	Mean	6.2	6.2	5.9	6.1	5.9	5.1	6.0	5.6

Table 2: Hectolitre weight (Kg/hl) of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	79.5		74.5	80.2	78.1*	80.3	78.8	76.2	78.4
2	RWP 1174	75.4	73.1	68.3	72.3	72.3	74.5	73.5	73.5	73.8
3	WB 02 (C)	79.2	75.9	75.7	74.5	76.3	75.4	78.0	71.6	75.0
4	CG 2117	81.2	74.1	72.0	76.9	76.1	77.8	79.8	74.7	77.4
5	IDW 2116 (d)	81.5	76.4	72.1	80.4	77.6	76.1	70.1	74.0	73.4
6	WBL 1630	79.0		74.9	76.7	76.9*	78.0	77.2	73.6	76.3
7	DBW 187 (C)	79.7	75.3	70.9	74.8	75.2	77.1	78.7	76.6	77.5
8	QLD 124	77.8	73.2	67.7	72.7	72.9	76.9	74.4	74.8	75.4
9	INDB 2119	78.8	75.2	67.8	77.2	74.8	79.1	74.4	75.2	76.2
10	MACS 6849	76.5	71.9	66.1	73.5	72.0	75.7	73.8	73.1	74.2
11	MP 3562	79.6	76.5	60.0	76.1	73.1	77.9	78.0	75.7	77.2
12	DBW 222 (C)	77.7	75.0	64.5	72.2	72.4	75.6	75.9	73.7	75.1
13	GW 322 (C)	77.6	74.6	66.9	73.1	73.1	75.1	77.0	70.3	74.1
14	AKDW 4773	80.1	75.5	71.0	80.0	76.7	78.7	78.2	74.8	77.2
15	GW 2021-1018	72.2	70.3	50.6	70.7	66.0	68.9	70.9	66.6	68.8
17	CG 2116	77.8	78.8	65.4	78.1	75.0	76.3	78.4	76.1	76.9
18	GW 2021-1017	75.8	70.1	46.4	73.5	66.5	73.5	74.5	74.1	74.0
20	PBS 04	78.3	75.5	69.4	74.2	74.4	78.5	72.2	73.9	74.9
21	WBL 1626	81.0	76.5	73.6	80.3	77.9	80.5	79.9	75.7	78.7
22	MP 3564	77.0	77.5	62.6	74.3	72.9	77.1	77.0	75.7	76.6
24	QBI 21-4	76.4	75.5	61.3	76.0	72.3	75.9	73.6	70.5	73.3
25	QBI 21-1	79.1	74.9	69.5	78.6	75.5	76.4	73.7	74.2	74.8
27	RAJ 4083	78.4	76.5	67.7	78.4	75.3	76.7	74.0	76.5	75.7
28	PBS 01	77.9	72.6	73.3	79.1	75.7	77.8	74.3	76.8	76.3
29	MACS 6847	77.3	71.0	55.7	74.4	69.6	78.1	76.0	72.6	75.6
30	GW 2021-1026	82.0	76.4	79.1	81.2	79.7	79.6	81.2	77.3	79.4
31	PBS 02	77.8	68.8	70.6	78.3	73.9	78.7	76.9	74.2	76.6
34	AKAW 4781	79.5	74.5	69.5	74.4	74.5	79.0	78.1	76.5	77.9
35	CG 2118	79.8	77.1	68.3	73.0	74.6	80.5	76.3	75.8	77.5
36	MACS 6845	77.6	76.0	59.1	68.8	70.4	77.3	76.0	73.8	75.7
38	NEQ 2021-2	80.6	78.6	71.1	78.2	77.1	80.9	77.5	76.7	78.4
39	BNSR 9	79.0	75.9	73.1	79.0	76.8	79.9	79.5	76.7	78.7
40	RAJ 4238	80.9	77.1	63.7	76.9	74.7	81.3	76.3	73.6	77.1
41	UP 3083	77.9	75.3	72.1	74.7	75.0	78.6	75.9	73.2	75.9
43	UASQ 332	72.6	67.4	58.2	69.5	66.9	72.8	70.7	66.3	69.9
44	WBL 1629	75.9	69.9	65.0	72.3	70.8	74.4	68.5	69.2	70.7
46	MACS 6846	82.1	76.1	70.1	75.6	76.0	81.4	80.0	76.5	79.3
48	UP 3086	77.9	74.9	67.1	75.4	73.8	77.5	74.6	73.4	75.2
49	QBI 21-3	79.6	73.9	61.6	77.5	73.2	82.0	76.8	73.3	77.4
51	INDB 2120	80.8	78.4	61.8	80.3	75.3	81.1	70.0	77.3	76.1
52	WBL 1627	79.8	74.2	60.9	77.7	73.2	79.4	74.8	71.6	75.3
53	BNSR 8	80.1	77.7	69.3	80.9	77.0	79.9	79.9	76.8	78.9
55	GW 2021-1020	78.5	76.5	72.5	75.4	75.7	77.0	80.1	74.8	77.3
56	UP 3088	77.6	77.5	72.4	75.5	75.8	79.1	77.9	76.2	77.7
57	RWP 1216	81.5	76.1	75.4	80.0	78.3	82.1	81.5	77.5	80.4
59	MACS 6848	80.2	75.0	71.7	75.5	75.6	78.2	76.6	74.3	76.4
60	QLD 125	80.7	72.0	68.7	75.4	74.2	79.0	76.6	72.0	75.9
62	GW 2021-1022	82.0	75.0	67.9	79.1	76.0	80.3	77.9	77.4	78.5
63	WBL 1628	80.8	75.2	71.9	77.2	76.3	79.4	76.9	73.2	76.5
64	QBI 21-5	80.7	78.8	72.7	79.0	77.8	80.0	79.7	75.1	78.3
66	PBS 03	78.6	76.3	72.1	77.5	76.1	78.9	78.6	73.3	76.9
67	INDB 2121	81.4	77.9	65.4	81.4	76.5	82.8	80.3	78.8	80.6
68	MP 3340	81.8	79.2	77.0	80.4	79.6	83.1	83.2	78.4	81.6
70	NEQ 2021-1	78.8	75.5	74.9	78.0	76.8	79.9	76.5	73.6	76.7
	Mean	78.9	75.1	68.0	76.4	74.6	78.2	76.5	74.4	76.4

*average of 3 locations

Table 2 continued

S. No.	Genotype	CZ				PZ			
		Indore	Vijapur	P.kheda	Mean	Pune	Dharwad	Niphad	Mean
1	QBI 21-2	82.1	83.2	82.3	82.5	81.9	77.1	82.8	80.6
2	RWP 1174	75.7	77.9	76.8	76.8	77.6	74.7	77.9	76.7
3	WB 02 (C)	81.6	80.8	81.4	81.3	77.3	75.2	79.5	77.3
4	CG 2117	82.8	83.1	83.2	83.0	82.4	76.9	82.0	80.4
5	IDW 2116 (d)	83.0	84.6	83.4	83.7	83.6	80.6	84.9	83.0
6	WBL 1630	74.1	79.2	79.4	77.6	78.3	75.6	78.9	77.6
7	DBW 187 (C)	80.3	81.8	81.8	81.3	78.6	76.6	80.8	78.7
8	QLD 124	76.9	80.3	79.7	79.0	76.0	76.1	79.1	77.1
9	INDB 2119	82.0	82.1	81.0	81.7	80.8	78.4	82.0	80.4
10	MACS 6849	75.6	80.1	79.0	78.2	78.9	74.4	79.2	77.5
11	MP 3562	81.1	81.9	80.8	81.3	81.4	72.7	81.1	78.4
12	DBW 222 (C)	73.4	79.6	80.1	77.7	76.7	72.1	78.9	75.9
13	GW 322 (C)	77.9	81.8	79.9	79.9	78.2	73.6	80.3	77.4
14	AKDW 4773	83.1	83.6	82.8	83.2	83.3	80.1	84.7	82.7
15	GW 2021-1018	77.4	80.3	78.8	78.8	80.0	75.3	78.5	77.9
17	CG 2116	82.6	83.6	79.8	82.0	81.8	78.3	82.6	80.9
18	GW 2021-1017	78.4	82.3	80.2	80.3	80.8	73.6	81.6	78.7
20	PBS 04	77.6	79.3	78.5	78.5	75.7	74.2	79.3	76.4
21	WBL 1626	82.2	83.5	82.9	82.9	80.5	77.0	82.5	80.0
22	MP 3564	76.9	82.3	81.3	80.2	79.1	74.9	80.2	78.1
24	QBI 21-4	71.1	80.5	80.7	77.4	73.2	77.3	79.6	76.7
25	QBI 21-1	79.7	81.5	81.0	80.7	79.4	75.7	81.5	78.9
27	RAJ 4083	81.3	82.6	82.3	82.1	79.6	77.6	81.2	79.5
28	PBS 01	80.9	82.3	82.2	81.8	78.9	77.8	80.6	79.1
29	MACS 6847	73.8	79.3	78.6	77.2	77.6	76.2	79.6	77.8
30	GW 2021-1026	84.2	84.3	82.8	83.8	81.9	80.4	83.9	82.1
31	PBS 02	80.6	81.3	82.1	81.3	78.7	78.0	81.5	79.4
34	AKAW 4781	81.5	81.1	81.9	81.5	77.5	67.9	79.6	75.0
35	CG 2118	81.8	81.3	81.9	81.7	78.5	72.2	80.3	77.0
36	MACS 6845	70.8	80.8	78.8	76.8	77.4	74.6	80.4	77.5
38	NEQ 2021-2	81.0	82.3	82.2	81.8	80.7	77.2	81.8	79.9
39	BNSR 9	81.4	82.9	83.4	82.6	80.1	76.5	80.3	79.0
40	RAJ 4238	83.2	84.0	83.6	83.6	81.5	77.8	82.7	80.7
41	UP 3083	78.1	81.8	81.6	80.5	77.2	76.4	80.7	78.1
43	UASQ 332	75.5	76.3	75.2	75.7	72.0	70.5	75.2	72.6
44	WBL 1629	76.2	77.7	76.7	76.9	73.9	72.6	76.7	74.4
46	MACS 6846	83.5	83.5	81.9	83.0	81.2	78.1	82.0	80.4
48	UP 3086	73.6	79.5	78.6	77.2	78.4	75.3	79.3	77.7
49	QBI 21-3	79.3	81.5	82.2	81.0	80.9	79.3	83.3	81.2
51	INDB 2120	83.0	83.5	83.4	83.3	80.9	78.5	82.7	80.7
52	WBL 1627	80.6	83.6	83.1	82.4	79.4	78.5	83.2	80.4
53	BNSR 8	81.8	82.7	83.3	82.6	81.0	77.0	81.1	79.7
55	GW 2021-1020	82.3	82.0	82.5	82.3	75.5	73.3	82.3	77.0
56	UP 3088	82.6	81.9	79.9	81.5	77.7	76.1	81.9	78.6
57	RWP 1216	83.6	83.8	84.7	84.0	83.5	79.0	83.8	82.1
59	MACS 6848	79.9	81.5	80.3	80.6	79.1	76.6	81.6	79.1
60	QLD 125	81.3	81.3	81.2	81.3	78.7	75.0	79.5	77.7
62	GW 2021-1022	84.9	84.7	83.4	84.3	83.0	79.0	83.9	82.0
63	WBL 1628	81.0	81.4	81.7	81.4	80.3	76.9	80.6	79.3
64	QBI 21-5	81.6	82.2	81.6	81.8	80.8	77.3	82.3	80.1
66	PBS 03	78.0	81.5	81.3	80.3	78.5	78.0	82.0	79.5
67	INDB 2121	84.2	85.2	84.6	84.7	82.4	79.0	83.1	81.5
68	MP 3340	84.2	84.5	85.3	84.7	81.6	79.2	83.5	81.4
70	NEQ 2021-1	80.1	80.5	80.1	80.2	77.0	76.5	81.7	78.4
	Mean	79.8	81.8	81.2	81.0	79.3	76.2	81.1	78.9

Table 3: Protein content (%) at 12% moisture basis of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	12.67		11.43	13.96	12.69*	12.59	8.46	10.90	10.65
2	RWP 1174	12.46	10.93	12.22	14.09	12.42	12.86	9.37	11.05	11.09
3	WB 02 (C)	13.71	11.84	12.53	15.21	13.32	11.50	9.15	10.77	10.48
4	CG 2117	12.04	12.59	12.46	13.46	12.64	13.37	9.81	11.56	11.58
5	IDW 2116 (d)	11.35	10.92	11.84	12.22	11.58	10.82	11.25	10.48	10.85
6	WBL 1630	12.17		12.17	13.62	12.65*	11.94	10.28	10.82	11.01
7	DBW 187 (C)	12.51	10.05	12.35	13.24	12.04	11.11	8.47	9.97	9.85
8	QLD 124	14.01	11.29	14.18	14.94	13.60	12.48	10.06	11.00	11.18
9	INDB 2119	12.70	11.30	11.91	12.62	12.13	11.66	10.10	10.56	10.77
10	MACS 6849	13.18	10.64	12.99	13.09	12.48	11.39	10.01	10.14	10.51
11	MP 3562	11.76	10.18	13.33	12.42	11.92	11.57	9.38	11.05	10.67
12	DBW 222 (C)	11.90	11.34	12.66	13.34	12.31	12.10	9.20	10.66	10.65
13	GW 322 (C)	11.81	10.08	12.05	12.29	11.56	12.09	8.79	10.12	10.33
14	AKDW 4773	13.40	10.83	12.82	13.66	12.68	13.12	10.88	11.32	11.77
15	GW 2021-1018	12.51	9.39	12.72	12.68	11.83	12.33	9.91	11.57	11.27
17	CG 2116	11.83	10.29	13.34	12.58	12.01	12.33	9.93	11.03	11.09
18	GW 2021-1017	11.60	11.14	13.16	11.59	11.87	10.53	9.62	9.95	10.04
20	PBS 04	11.68	10.78	11.98	12.95	11.85	12.35	10.22	9.25	10.60
21	WBL 1626	13.50	10.32	11.83	13.70	12.34	11.82	9.77	10.70	10.77
22	MP 3564	14.07	9.23	12.80	13.52	12.40	11.32	9.13	9.68	10.05
24	QBI 21-4	12.87	10.55	14.29	13.29	12.75	11.90	10.82	12.34	11.69
25	QBI 21-1	14.10	11.06	13.59	13.85	13.15	11.91	10.47	12.33	11.57
27	RAJ 4083	13.18	10.26	12.51	12.23	12.05	11.89	11.01	10.88	11.26
28	PBS 01	13.40	10.03	11.89	13.01	12.08	12.81	12.22	11.01	12.01
29	MACS 6847	12.47	9.67	12.68	13.98	12.20	9.77	9.11	10.85	9.91
30	GW 2021-1026	12.13	10.06	11.69	13.85	11.93	9.98	10.96	11.42	10.79
31	PBS 02	14.86	12.62	13.02	14.21	13.68	11.93	11.54	11.27	11.58
34	AKAW 4781	13.02	11.49	12.23	14.23	12.74	11.55	10.88	10.82	11.08
35	CG 2118	13.72	10.02	11.83	14.25	12.45	11.78	10.76	10.86	11.13
36	MACS 6845	11.66	9.69	12.15	14.98	12.12	9.81	9.02	10.36	9.73
38	NEQ 2021-2	13.84	10.44	13.61	14.54	13.11	9.40	11.23	11.74	10.79
39	BNSR 9	14.58	10.57	13.12	14.63	13.22	11.04	11.91	11.97	11.64
40	RAJ 4238	11.93	10.72	12.17	12.69	11.88	8.50	10.69	10.83	10.00
41	UP 3083	14.02	10.86	12.07	13.72	12.67	11.04	10.63	11.33	11.00
43	UASQ 332	14.81	11.80	11.86	14.94	13.35	12.13	10.15	10.84	11.04
44	WBL 1629	12.71	10.76	12.25	13.42	12.28	11.58	9.99	11.11	10.89
46	MACS 6846	12.80	10.58	12.53	13.47	12.35	10.35	10.67	9.50	10.17
48	UP 3086	12.20	11.96	13.58	14.81	13.14	11.08	11.18	11.64	11.30
49	QBI 21-3	11.54	10.10	12.38	12.40	11.61	10.06	9.79	11.23	10.36
51	INDB 2120	14.28	12.46	11.64	12.67	12.76	10.17	11.25	11.66	11.03
52	WBL 1627	13.76	10.95	14.22	13.47	13.10	10.38	11.90	12.09	11.46
53	BNSR 8	13.36	10.43	12.51	13.69	12.50	10.96	11.09	11.74	11.26
55	GW 2021-1020	12.93	11.19	11.18	12.32	11.91	11.51	10.42	11.13	11.02
56	UP 3088	12.81	10.18	11.34	13.57	11.97	9.80	10.07	10.85	10.24
57	RWP 1216	13.33	10.71	12.14	13.50	12.42	9.88	10.81	11.05	10.58
59	MACS 6848	11.89	11.59	11.79	13.41	12.17	9.78	11.20	10.97	10.65
60	QLD 125	14.11	12.46	12.15	13.90	13.15	10.17	11.17	11.92	11.08
62	GW 2021-1022	12.42	11.93	12.84	11.90	12.27	9.13	11.14	11.03	10.43
63	WBL 1628	11.68	10.14	11.35	11.73	11.22	9.31	9.58	10.76	9.88
64	QBI 21-5	12.32	10.14	11.35	12.11	11.48	10.03	9.84	11.20	10.36
66	PBS 03	12.73	10.11	11.73	11.35	11.48	9.11	10.41	11.72	10.41
67	INDB 2121	13.25	10.65	11.93	11.37	11.80	9.96	11.83	12.02	11.27
68	MP 3340	14.00	11.88	11.25	12.45	12.40	10.73	11.42	12.69	11.61
70	NEQ 2021-1	13.56	10.31	10.90	12.16	11.73	10.41	11.61	11.85	11.29
	Mean	12.91	10.80	12.38	13.28	12.36	11.09	10.38	11.07	10.85

*average of 3 locations

Table 3 continued

S. No.	Genotype	CZ				PZ			
		Indore	Vijapur	P.kheda	Mean	Pune	Dharwad	Niphad	Mean
1	QBI 21-2	10.79	11.31	8.20	10.10	13.58	14.29	11.45	13.11
2	RWP 1174	10.68	10.74	8.57	10.00	13.86	14.77	11.84	13.49
3	WB 02 (C)	11.71	11.29	8.79	10.60	14.77	16.51	13.24	14.84
4	CG 2117	11.29	10.42	8.15	9.95	14.02	13.19	11.76	12.99
5	IDW 2116 (d)	10.01	8.65	7.12	8.59	12.79	12.21	9.82	11.61
6	WBL 1630	12.65	11.10	8.04	10.59	14.86	15.43	12.10	14.13
7	DBW 187 (C)	10.42	8.77	7.70	8.96	12.84	15.03	11.70	13.19
8	QLD 124	10.69	9.49	9.05	9.74	14.14	15.52	12.23	13.96
9	INDB 2119	10.73	9.07	8.05	9.28	14.63	14.20	12.17	13.67
10	MACS 6849	11.38	9.34	8.08	9.60	13.10	14.79	12.17	13.35
11	MP 3562	10.96	8.59	7.00	8.85	10.95	13.44	12.06	12.15
12	DBW 222 (C)	10.17	8.82	7.22	8.74	12.85	14.99	11.17	13.00
13	GW 322 (C)	9.56	7.55	8.42	8.51	11.18	12.57	10.76	11.50
14	AKDW 4773	10.17	8.49	7.97	8.88	12.80	14.55	12.06	13.13
15	GW 2021-1018	10.33	9.82	7.20	9.12	11.39	14.19	10.26	11.95
17	CG 2116	11.33	10.59	7.28	9.73	14.51	14.56	11.75	13.61
18	GW 2021-1017	10.48	9.09	6.99	8.86	11.88	13.16	10.20	11.75
20	PBS 04	10.33	10.58	8.68	9.86	13.08	15.36	11.50	13.31
21	WBL 1626	10.81	9.60	8.74	9.72	13.13	14.40	12.77	13.43
22	MP 3564	10.59	8.44	7.95	9.00	12.44	13.62	11.41	12.49
24	QBI 21-4	11.79	9.02	8.03	9.62	12.85	14.71	11.49	13.02
25	QBI 21-1	11.72	9.03	7.97	9.57	12.79	14.79	11.42	13.00
27	RAJ 4083	11.05	9.32	6.91	9.09	12.03	14.01	12.00	12.68
28	PBS 01	11.79	9.06	9.36	10.07	13.15	0.00	13.14	8.76
29	MACS 6847	12.05	12.51	7.24	10.60	12.78	14.17	10.96	12.64
30	GW 2021-1026	12.00	12.13	7.55	10.56	13.52	13.90	10.68	12.70
31	PBS 02	11.68	11.12	8.61	10.47	14.14	14.65	10.21	13.00
34	AKAW 4781	11.17	11.71	8.34	10.41	13.63	13.94	12.63	13.40
35	CG 2118	10.84	10.39	7.46	9.56	12.53	12.67	11.47	12.22
36	MACS 6845	10.34	10.25	7.79	9.46	12.41	13.85	11.20	12.49
38	NEQ 2021-2	10.74	10.52	8.70	9.99	13.46	15.81	10.67	13.31
39	BNSR 9	11.65	11.34	8.04	10.34	14.42	15.89	12.45	14.25
40	RAJ 4238	9.47	8.19	6.34	8.00	11.45	12.74	10.06	11.42
41	UP 3083	11.50	10.40	7.69	9.86	12.89	14.58	11.88	13.11
43	UASQ 332	11.76	11.67	9.08	10.83	13.68	15.34	13.91	14.31
44	WBL 1629	10.33	9.82	7.64	9.26	12.96	13.48	10.31	12.25
46	MACS 6846	9.20	8.57	6.49	8.08	12.80	13.32	9.36	11.83
48	UP 3086	10.52	11.33	7.95	9.93	14.04	15.57	10.15	13.26
49	QBI 21-3	9.77	10.48	6.74	9.00	11.89	13.36	10.01	11.75
51	INDB 2120	11.07	9.85	7.89	9.60	15.18	15.20	13.39	14.59
52	WBL 1627	10.94	8.67	7.79	9.13	12.92	14.35	11.47	12.91
53	BNSR 8	10.49	10.45	8.91	9.95	13.51	16.54	13.35	14.47
55	GW 2021-1020	9.70	8.13	7.74	8.52	12.49	12.70	11.29	12.16
56	UP 3088	9.14	8.56	8.70	8.80	12.60	13.66	10.92	12.39
57	RWP 1216	10.16	10.73	7.50	9.46	12.43	14.84	11.77	13.01
59	MACS 6848	9.93	9.88	6.41	8.74	12.19	13.11	9.57	11.62
60	QLD 125	10.40	11.21	8.61	10.07	13.86	15.16	11.39	13.47
62	GW 2021-1022	9.76	9.12	6.51	8.46	13.42	14.31	10.26	12.66
63	WBL 1628	9.39	10.94	7.14	9.16	11.79	12.98	11.18	11.98
64	QBI 21-5	8.71	11.58	7.59	9.29	12.02	12.89	11.41	12.11
66	PBS 03	8.31	8.91	6.80	8.01	12.21	14.26	10.76	12.41
67	INDB 2121	10.56	9.06	7.73	9.12	12.54	13.29	11.82	12.55
68	MP 3340	10.86	9.35	8.31	9.51	12.12	13.81	11.14	12.36
70	NEQ 2021-1	12.18	10.60	8.24	10.34	12.90	14.52	12.22	13.21
	Mean	10.67	9.92	7.83	9.47	13.01	13.99	11.45	12.81

Table 4: Sedimentation value (ml) of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	53.4		53.8	56.1	54.5*	47.3	45.7	47.7	46.9
2	RWP 1174	55.0	50.0	51.1	51.5	51.9	46.9	43.8	52.3	47.7
3	WB 02 (C)	68.8	58.1	67.3	65.0	64.8	38.0	48.4	46.5	44.3
4	CG 2117	46.5	51.9	49.6	49.6	49.4	55.0	44.2	49.6	49.6
5	IDW 2116 (d)	38.0	43.0	43.0	35.0	39.8	40.0	36.1	48.0	41.4
6	WBL 1630	63.1		61.9	55.4	60.1*	42.7	53.4	48.4	48.2
7	DBW 187 (C)	70.8	55.0	67.7	61.1	63.6	53.4	45.7	53.4	50.9
8	QLD 124	67.7	55.4	69.6	53.4	61.5	55.0	53.4	50.4	52.9
9	INDB 2119	47.3	46.5	49.6	45.7	47.3	44.6	41.9	43.8	43.4
10	MACS 6849	53.4	45.7	51.9	47.3	49.6	45.4	45.7	45.0	45.4
11	MP 3562	49.6	45.7	59.2	50.7	51.3	48.8	43.8	46.1	46.3
12	DBW 222 (C)	51.1	51.5	62.7	58.8	56.0	54.6	46.1	49.6	50.1
13	GW 322 (C)	36.1	38.0	40.0	38.0	38.0	40.3	33.4	38.0	37.3
14	AKDW 4773	32.3	34.2	40.7	34.2	35.3	34.6	31.5	36.9	34.3
15	GW 2021-1018	47.3	43.8	50.4	42.7	46.0	43.8	42.3	45.7	43.9
17	CG 2116	40.0	38.0	43.8	39.2	40.3	41.5	38.0	40.3	40.0
18	GW 2021-1017	43.4	44.6	58.8	41.9	47.2	41.1	38.0	41.9	40.3
20	PBS 04	54.6	48.0	65.0	54.2	55.5	47.7	47.3	49.6	48.2
21	WBL 1626	48.8	48.4	57.3	45.7	50.1	48.0	43.8	47.7	46.5
22	MP 3564	55.4	42.7	53.4	44.2	48.9	45.0	43.8	45.7	44.8
24	QBI 21-4	63.1	51.9	65.8	51.5	58.1	52.7	47.7	47.7	49.3
25	QBI 21-1	51.5	45.7	55.4	43.8	49.1	51.1	42.7	48.8	47.5
27	RAJ 4083	49.6	44.6	51.9	44.2	47.6	46.9	46.9	43.8	45.9
28	PBS 01	41.9	49.6	40.7	30.7	40.7	35.3	34.2	36.1	35.2
29	MACS 6847	53.4	36.1	59.2	46.9	48.9	47.7	43.8	47.7	46.4
30	GW 2021-1026	41.9	32.6	40.3	31.9	36.7	40.3	36.1	34.2	36.9
31	PBS 02	41.9	43.8	47.3	38.0	42.8	43.0	41.9	40.7	41.9
34	AKAW 4781	45.7	63.1	50.4	48.0	51.8	46.5	43.8	44.2	44.8
35	CG 2118	38.0	34.2	34.2	35.0	35.3	37.7	38.0	40.7	38.8
36	MACS 6845	48.4	44.6	48.4	39.6	45.3	43.8	40.0	45.7	43.2
38	NEQ 2021-2	56.1	49.6	60.0	48.4	53.5	50.7	55.4	48.8	51.6
39	BNSR 9	55.0	54.2	66.9	55.4	57.9	55.4	61.1	53.4	56.6
40	RAJ 4238	43.8	48.4	45.7	43.8	45.4	39.6	42.7	46.9	43.0
41	UP 3083	59.2	59.6	59.2	56.9	58.7	52.3	49.6	47.7	49.8
43	UASQ 332	28.4	27.6	26.5	30.7	28.3	28.0	25.3	30.3	27.9
44	WBL 1629	51.5	50.4	63.1	57.3	55.6	50.4	47.7	45.7	47.9
46	MACS 6846	55.0	54.2	59.6	57.7	56.6	51.5	57.3	50.7	53.2
48	UP 3086	50.4	58.1	59.2	55.4	55.7	48.0	49.6	47.7	48.4
49	QBI 21-3	51.5	48.0	55.4	48.8	50.9	47.7	42.7	43.8	44.7
51	INDB 2120	47.7	46.9	53.4	49.6	49.4	46.5	51.5	45.7	47.9
52	WBL 1627	55.7	51.5	61.1	47.3	53.9	48.0	51.5	51.1	50.2
53	BNSR 8	66.9	52.7	63.1	50.4	58.2	52.3	50.7	51.5	51.5
55	GW 2021-1020	43.8	44.2	45.7	43.8	44.4	43.8	43.8	45.4	44.3
56	UP 3088	57.3	50.7	51.5	46.9	51.6	50.4	45.7	45.7	47.3
57	RWP 1216	51.9	50.0	57.3	52.3	52.9	48.8	54.2	47.7	50.2
59	MACS 6848	45.7	46.5	53.4	47.7	48.3	43.8	46.9	48.4	46.4
60	QLD 125	53.4	55.4	63.1	54.6	56.6	46.9	48.0	59.2	51.4
62	GW 2021-1022	41.9	45.7	42.7	40.0	42.6	38.8	40.0	41.9	40.2
63	WBL 1628	45.7	44.6	45.7	46.5	45.6	45.0	43.0	50.7	46.3
64	QBI 21-5	63.1	51.5	53.4	51.5	54.9	47.3	47.7	67.3	54.1
66	PBS 03	46.9	44.6	51.5	43.8	46.7	43.0	44.2	49.6	45.6
67	INDB 2121	41.1	40.3	41.9	38.0	40.3	39.6	43.8	43.8	42.4
68	MP 3340	41.9	45.7	41.9	41.9	42.9	41.9	42.7	55.4	46.6
70	NEQ 2021-1	53.4	46.1	53.4	51.5	51.1	49.2	49.6	53.8	50.9
	Mean	50.1	47.2	53.1	47.0	49.4	45.7	44.7	46.8	45.8

*average of 3 locations

Table 4 continued

S. No.	Genotype	CZ				PZ			
		Indore	Vijapur	P.kheda	Mean	Pune	Dharwad	Niphad	Mean
1	QBI 21-2	43.8	48.0	41.9	44.6	50.4	53.4	51.5	51.8
2	RWP 1174	43.4	44.2	38.0	41.9	53.4	48.4	47.7	49.8
3	WB 02 (C)	61.1	50.7	45.7	52.5	67.7	66.9	66.5	67.0
4	CG 2117	48.4	45.7	38.0	44.1	51.5	52.3	47.7	50.5
5	IDW 2116 (d)	34.2	32.3	27.6	31.4	36.1	39.6	35.0	36.9
6	WBL 1630	57.7	56.1	43.0	52.3	65.8	58.1	61.5	61.8
7	DBW 187 (C)	54.6	48.4	43.8	48.9	70.4	66.9	63.1	66.8
8	QLD 124	53.8	50.4	47.7	50.6	70.0	60.0	56.1	62.0
9	INDB 2119	40.7	40.0	36.1	38.9	47.3	48.4	43.0	46.3
10	MACS 6849	47.7	43.8	40.0	43.8	49.6	54.6	48.4	50.9
11	MP 3562	45.7	40.0	40.7	42.1	49.6	55.4	49.6	51.5
12	DBW 222 (C)	51.5	47.7	41.1	46.8	51.5	63.8	53.4	56.3
13	GW 322 (C)	34.2	34.2	32.3	33.5	36.5	43.4	36.5	38.8
14	AKDW 4773	29.2	28.8	28.8	28.9	30.7	56.1	27.6	38.2
15	GW 2021-1018	43.8	40.3	37.3	40.5	50.7	69.6	45.7	55.4
17	CG 2116	39.2	36.1	43.8	39.7	39.6	47.7	43.8	43.7
18	GW 2021-1017	40.0	38.0	34.2	37.4	42.3	52.3	40.0	44.8
20	PBS 04	51.5	58.4	45.7	51.9	58.1	57.3	53.4	56.3
21	WBL 1626	45.7	48.0	44.6	46.1	48.0	62.7	49.6	53.4
22	MP 3564	43.8	43.8	41.9	43.2	50.0	59.6	47.3	52.3
24	QBI 21-4	59.2	44.6	45.7	49.8	59.2	64.2	54.6	59.3
25	QBI 21-1	47.7	40.7	36.9	41.8	56.1	63.1	48.8	56.0
27	RAJ 4083	44.2	41.9	36.1	40.7	53.4	52.3	43.8	49.8
28	PBS 01	30.7	30.3	28.4	29.8	38.0	45.0	30.3	37.8
29	MACS 6847	51.1	51.5	40.0	47.5	58.4	59.6	55.4	57.8
30	GW 2021-1026	31.5	34.2	30.3	32.0	34.2	42.7	36.9	37.9
31	PBS 02	39.2	40.0	30.7	36.6	42.3	48.8	46.5	45.9
34	AKAW 4781	42.7	41.9	38.0	40.9	47.3	52.3	53.4	51.0
35	CG 2118	36.5	36.1	26.9	33.2	40.3	43.8	45.7	43.3
36	MACS 6845	44.2	45.7	34.2	41.4	51.5	49.6	49.6	50.2
38	NEQ 2021-2	48.4	53.4	40.3	47.4	58.8	55.4	53.4	55.9
39	BNSR 9	53.4	54.6	45.0	51.0	57.3	66.9	68.8	64.3
40	RAJ 4238	38.4	41.9	34.2	38.2	45.7	65.8	45.7	52.4
41	UP 3083	59.2	51.5	40.0	50.2	66.9	66.9	59.2	64.3
43	UASQ 332	27.6	25.3	23.4	25.5	26.5	31.1	29.2	28.9
44	WBL 1629	43.8	47.7	38.0	43.2	55.7	55.4	51.9	54.3
46	MACS 6846	49.6	52.7	41.9	48.0	60.0	67.7	59.6	62.4
48	UP 3086	50.4	51.5	39.2	47.0	62.7	57.3	53.8	57.9
49	QBI 21-3	44.2	51.9	36.1	44.1	53.8	54.6	52.3	53.6
51	INDB 2120	47.3	46.1	44.2	45.9	51.9	49.6	57.3	52.9
52	WBL 1627	48.4	46.5	41.9	45.6	61.1	62.7	59.2	61.0
53	BNSR 8	55.4	54.2	47.3	52.3	67.3	58.1	65.8	63.7
55	GW 2021-1020	40.3	36.9	35.7	37.7	48.0	55.4	48.0	50.5
56	UP 3088	45.7	46.1	43.8	45.2	53.4	53.4	55.4	54.1
57	RWP 1216	46.5	52.3	39.2	46.0	62.3	68.8	63.1	64.7
59	MACS 6848	43.8	46.1	35.0	41.6	51.1	49.6	47.7	49.5
60	QLD 125	46.9	49.6	40.3	45.6	61.1	61.5	54.2	59.0
62	GW 2021-1022	35.3	40.0	32.3	35.9	46.5	51.1	43.0	46.9
63	WBL 1628	40.0	46.9	36.5	41.1	51.9	56.1	50.0	52.7
64	QBI 21-5	48.4	58.8	43.0	50.1	61.5	63.8	65.0	63.4
66	PBS 03	44.6	42.7	35.3	40.9	53.4	55.4	49.6	52.8
67	INDB 2121	36.1	39.2	34.6	36.6	43.0	44.6	41.9	43.2
68	MP 3340	37.3	40.0	36.1	37.8	48.4	45.7	43.8	46.0
70	NEQ 2021-1	47.7	51.9	39.2	46.3	61.1	59.2	53.4	57.9
	Mean	44.7	44.6	38.2	42.5	52.0	55.4	50.1	52.5

Table 5: Grain iron content (ppm) of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	37.8		32.5	40.7	37.0*	35.0	30.9	34.1	33.3
2	RWP 1174	38.5	38.0	33.7	35.6	36.5	41.6	29.7	38.8	36.7
3	WB 02 (C)	39.1	48.5	38.4	41.9	42.0	36.6	30.6	33.1	33.4
4	CG 2117	37.2	42.4	31.9	34.6	36.5	40.9	40.4	47.0	42.8
5	IDW 2116 (d)	38.2	40.4	30.1	36.2	36.2	36.3	34.5	34.1	35.0
6	WBL 1630	39.4		33.1	39.7	37.4*	34.8	28.2	33.4	32.1
7	DBW 187 (C)	40.6	40.9	34.7	38.5	38.7	34.7	28.4	31.0	31.4
8	QLD 124	39.3	38.2	30.8	39.1	36.9	37.6	27.5	37.2	34.1
9	INDB 2119	48.2	42.7	33.9	41.2	41.5	37.2	35.7	39.7	37.5
10	MACS 6849	43.6	41.2	31.6	33.2	37.4	33.6	30.9	39.8	34.8
11	MP 3562	37.9	40.0	30.1	35.1	35.8	34.1	31.1	38.2	34.5
12	DBW 222 (C)	35.1	37.6	27.6	33.4	33.4	35.8	29.0	37.4	34.1
13	GW 322 (C)	34.6	39.0	25.4	34.1	33.3	35.5	29.7	34.6	33.3
14	AKDW 4773	34.8	35.5	30.5	41.3	35.5	34.9	31.7	33.9	33.5
15	GW 2021-1018	35.5	32.4	28.3	34.5	32.7	32.6	36.2	33.9	34.2
17	CG 2116	44.0	34.2	29.1	35.4	35.7	34.3	31.7	38.7	34.9
18	GW 2021-1017	43.8	42.2	30.7	35.4	38.0	36.5	32.6	30.6	33.2
20	PBS 04	45.5	39.8	33.3	42.2	40.2	41.0	32.1	34.8	36.0
21	WBL 1626	43.8	37.0	38.9	39.6	39.8	33.7	35.7	34.8	34.7
22	MP 3564	44.4	37.2	31.7	34.2	36.9	33.9	30.5	34.2	32.9
24	QBI 21-4	38.6	40.0	33.2	40.7	38.1	34.4	30.2	34.1	32.9
25	QBI 21-1	40.6	39.2	32.0	36.2	37.0	36.0	33.0	37.2	35.4
27	RAJ 4083	41.8	37.9	30.2	42.2	38.0	37.9	36.8	33.8	36.2
28	PBS 01	38.7	36.9	26.4	35.2	34.3	37.4	32.1	36.9	35.5
29	MACS 6847	41.2	33.5	30.5	42.9	37.0	36.6	30.3	38.8	35.2
30	GW 2021-1026	35.0	35.2	29.6	38.0	34.5	34.4	30.2	37.1	33.9
31	PBS 02	42.9	37.1	28.5	37.5	36.5	32.6	40.9	35.0	36.2
34	AKAW 4781	37.2	40.3	33.4	37.9	37.2	38.0	32.1	38.6	36.2
35	CG 2118	35.0	44.2	29.8	36.0	36.3	38.9	34.8	37.3	37.0
36	MACS 6845	41.3	39.5	28.1	32.4	35.3	30.1	28.9	34.1	31.0
38	NEQ 2021-2	36.5	34.2	31.3	43.0	36.3	29.4	36.9	37.7	34.7
39	BNSR 9	40.4	40.6	33.0	37.9	38.0	34.2	39.4	41.8	38.5
40	RAJ 4238	39.2	36.7	29.8	39.4	36.3	33.3	36.3	33.0	34.2
41	UP 3083	47.4	40.2	39.9	42.8	42.6	39.2	38.2	36.1	37.8
43	UASQ 332	53.1	35.6	33.5	45.9	42.0	42.4	35.8	35.5	37.9
44	WBL 1629	40.6	42.4	34.8	38.6	39.1	34.8	34.6	37.4	35.6
46	MACS 6846	35.1	41.4	27.8	33.7	34.5	27.7	32.8	36.4	32.3
48	UP 3086	49.0	41.1	31.8	38.4	40.1	35.5	33.8	40.5	36.6
49	QBI 21-3	43.1	38.8	32.5	37.2	37.9	32.4	33.9	37.0	34.4
51	INDB 2120	42.6	41.0	37.2	38.7	39.9	29.1	35.7	38.0	34.3
52	WBL 1627	38.2	38.3	28.9	38.0	35.9	30.6	30.8	34.6	32.0
53	BNSR 8	38.8	36.1	29.2	38.8	35.7	36.5	30.9	37.7	35.0
55	GW 2021-1020	35.1	42.8	37.5	36.3	37.9	29.9	41.8	37.5	36.4
56	UP 3088	38.7	34.7	33.1	39.5	36.5	33.5	33.7	40.9	36.0
57	RWP 1216	44.5	37.8	39.3	37.6	39.8	34.8	33.2	35.6	34.5
59	MACS 6848	34.5	37.4	30.0	38.3	35.1	35.8	29.7	40.2	35.2
60	QLD 125	45.8	40.7	33.3	44.0	41.0	32.0	32.7	33.4	32.7
62	GW 2021-1022	40.4	48.2	32.4	44.9	41.5	28.4	36.2	42.9	35.8
63	WBL 1628	33.7	42.1	30.7	40.0	36.6	30.3	33.3	38.4	34.0
64	QBI 21-5	36.7	36.6	29.8	40.8	36.0	35.7	31.5	37.3	34.8
66	PBS 03	38.3	35.4	37.7	39.7	37.8	29.8	34.4	43.1	35.8
67	INDB 2121	39.2	38.3	30.3	42.4	37.6	33.8	45.6	38.3	39.2
68	MP 3340	41.3	40.2	28.7	43.4	38.4	35.0	40.7	44.3	40.0
70	NEQ 2021-1	41.3	35.9	34.1	38.1	37.4	36.6	34.1	39.0	36.6
	Mean	40.1	39.0	31.9	38.6	37.4	34.8	33.4	37.0	35.1

*average of 3 locations

Table 5 continued

S. No.	Genotype	CZ				PZ			
		Indore	Vijapur	P.kheda	Mean	Pune	Dharwad	Niphad	Mean
1	QBI 21-2	47.4	38.9	34.4	40.2	40.7	40.1	40.3	40.4
2	RWP 1174	42.8	35.1	32.2	36.7	43.5	45.7	40.2	43.1
3	WB 02 (C)	42.1	44.2	35.1	40.5	44.2	50.7	37.2	44.0
4	CG 2117	44.1	37.6	35.2	39.0	40.5	44.7	40.2	41.8
5	IDW 2116 (d)	45.6	31.9	32.3	36.6	38.5	36.3	35.9	36.9
6	WBL 1630	49.5	39.9	33.6	41.0	40.6	32.8	37.9	37.1
7	DBW 187 (C)	41.7	45.2	31.9	39.6	39.6	41.3	43.3	41.4
8	QLD 124	42.6	39.5	30.8	37.6	42.8	41.9	42.6	42.4
9	INDB 2119	46.6	42.1	34.6	41.1	50.7	49.4	52.0	50.7
10	MACS 6849	46.7	35.9	35.6	39.4	42.9	40.8	42.3	42.0
11	MP 3562	40.5	32.7	33.5	35.6	38.0	38.0	38.3	38.1
12	DBW 222 (C)	39.5	31.8	35.2	35.5	35.7	36.6	37.4	36.6
13	GW 322 (C)	36.1	37.0	32.9	35.3	39.6	33.7	33.3	35.5
14	AKDW 4773	41.3	33.8	39.1	38.1	36.0	39.0	43.4	39.5
15	GW 2021-1018	42.9	35.0	29.0	35.6	38.6	38.8	37.6	38.3
17	CG 2116	55.3	34.1	30.6	40.0	44.5	37.4	38.0	40.0
18	GW 2021-1017	43.0	34.3	34.1	37.1	40.4	39.7	40.7	40.3
20	PBS 04	48.3	39.1	34.4	40.6	42.3	41.4	40.1	41.3
21	WBL 1626	49.7	40.7	33.1	41.2	41.9	35.0	40.9	39.3
22	MP 3564	40.5	33.7	29.5	34.6	42.0	38.1	37.8	39.3
24	QBI 21-4	44.5	46.5	34.2	41.7	41.2	45.8	43.2	43.4
25	QBI 21-1	48.6	40.9	35.2	41.6	40.8	39.5	44.2	41.5
27	RAJ 4083	41.5	39.8	34.8	38.7	41.1	41.3	36.8	39.7
28	PBS 01	40.3	36.5	34.5	37.1	36.3	40.4	38.9	38.5
29	MACS 6847	49.3	40.6	31.5	40.5	39.8	45.3	37.8	41.0
30	GW 2021-1026	42.4	34.4	30.4	35.7	34.0	36.6	35.9	35.5
31	PBS 02	46.0	35.7	33.2	38.3	36.6	36.5	36.4	36.5
34	AKAW 4781	49.9	36.5	33.6	40.0	36.6	34.7	47.5	39.6
35	CG 2118	47.3	34.4	31.7	37.8	45.8	35.7	42.5	41.3
36	MACS 6845	44.0	39.5	27.6	37.0	45.4	38.8	37.0	40.4
38	NEQ 2021-2	50.5	49.3	36.6	45.5	45.5	41.6	36.2	41.1
39	BNSR 9	45.7	38.5	31.9	38.7	41.2	40.9	41.2	41.1
40	RAJ 4238	51.2	31.2	34.5	39.0	39.7	40.7	34.2	38.2
41	UP 3083	47.9	39.2	32.5	39.9	43.0	49.6	42.3	45.0
43	UASQ 332	42.4	41.1	36.5	40.0	46.2	46.7	44.4	45.8
44	WBL 1629	38.5	41.6	30.9	37.0	49.7	44.7	38.0	44.1
46	MACS 6846	46.1	34.1	26.2	35.5	39.1	36.0	38.8	38.0
48	UP 3086	44.5	36.7	32.8	38.0	45.1	49.1	41.5	45.2
49	QBI 21-3	39.5	38.7	31.1	36.4	42.9	39.5	41.3	41.2
51	INDB 2120	45.0	38.1	35.6	39.6	42.1	44.1	44.2	43.5
52	WBL 1627	42.4	40.6	32.4	38.5	35.5	38.4	43.5	39.1
53	BNSR 8	39.9	43.2	39.7	40.9	40.6	40.6	44.3	41.8
55	GW 2021-1020	39.3	35.3	35.4	36.7	38.5	43.8	39.9	40.7
56	UP 3088	44.6	35.9	33.5	38.0	40.4	37.5	41.5	39.8
57	RWP 1216	45.6	40.0	34.5	40.0	37.4	38.7	43.4	39.8
59	MACS 6848	46.3	29.5	32.7	36.2	37.9	38.5	38.3	38.2
60	QLD 125	48.8	37.5	35.4	40.6	42.0	47.7	41.0	43.6
62	GW 2021-1022	38.9	35.1	30.3	34.8	40.1	41.4	39.8	40.4
63	WBL 1628	45.8	32.2	31.4	36.5	37.7	38.7	36.3	37.6
64	QBI 21-5	44.3	38.3	30.2	37.6	38.1	39.6	43.3	40.3
66	PBS 03	38.6	40.5	34.6	37.9	43.9	40.7	46.4	43.7
67	INDB 2121	42.8	35.9	34.6	37.8	41.3	39.5	40.0	40.3
68	MP 3340	44.7	32.9	32.3	36.6	44.4	39.3	47.5	43.7
70	NEQ 2021-1	42.9	36.5	32.7	37.4	40.0	40.4	40.2	40.2
	Mean	44.4	37.6	33.2	38.4	40.9	40.6	40.5	40.7

Table 6: Grain zinc content (ppm) of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	43.2		56.9	64.6	54.9*	31.4	29.7	27.4	29.5
2	RWP 1174	32.3	29.0	54.1	53.7	42.3	31.1	30.1	27.5	29.6
3	WB 02 (C)	34.2	36.1	48.9	58.4	44.4	31.1	27.0	27.1	28.4
4	CG 2117	37.9	42.0	54.3	56.3	47.6	31.1	32.4	32.1	31.9
5	IDW 2116 (d)	39.1	31.8	44.1	49.8	41.2	33.6	33.2	29.0	31.9
6	WBL 1630	34.0		44.0	55.3	44.4*	32.4	27.3	26.4	28.7
7	DBW 187 (C)	28.9	30.6	42.5	45.1	36.8	28.5	26.8	23.9	26.4
8	QLD 124	36.9	31.7	71.4	47.9	47.0	38.9	33.8	25.8	32.8
9	INDB 2119	36.0	35.4	58.4	55.0	46.2	33.1	30.6	29.8	31.2
10	MACS 6849	30.7	33.7	45.3	40.6	37.6	30.8	29.4	28.2	29.5
11	MP 3562	34.3	34.6	46.2	45.6	40.2	31.3	29.8	29.1	30.1
12	DBW 222 (C)	32.5	25.8	45.6	52.8	39.2	32.3	25.7	25.1	27.7
13	GW 322 (C)	28.7	38.7	42.6	50.0	40.0	35.6	29.8	28.3	31.2
14	AKDW 4773	39.0	38.6	62.3	61.4	50.3	35.8	34.4	31.4	33.9
15	GW 2021-1018	33.7	33.3	42.5	50.3	40.0	33.4	32.2	27.0	30.9
17	CG 2116	39.9	39.8	64.2	46.2	47.5	35.1	29.1	29.7	31.3
18	GW 2021-1017	35.9	31.0	44.9	48.3	40.0	31.2	29.7	23.8	28.2
20	PBS 04	31.1	34.7	50.9	52.7	42.4	37.2	29.2	25.3	30.6
21	WBL 1626	39.5	34.9	61.2	62.9	49.6	34.9	35.6	26.3	32.3
22	MP 3564	34.6	34.2	51.7	44.2	41.2	34.6	32.0	26.9	31.2
24	QBI 21-4	35.5	38.3	67.0	53.0	52.5	37.7	34.5	32.3	34.8
25	QBI 21-1	41.7	36.9	64.2	53.2	49.0	35.7	36.8	33.4	35.3
27	RAJ 4083	31.6	33.5	48.2	46.7	40.0	31.1	31.3	28.0	30.1
28	PBS 01	44.9	35.3	48.9	51.1	45.1	37.0	36.1	38.7	37.3
29	MACS 6847	30.0	32.7	55.3	54.5	43.1	40.7	33.4	28.8	34.3
30	GW 2021-1026	27.6	44.3	45.5	50.9	42.1	35.1	36.0	28.9	33.3
31	PBS 02	56.7	44.2	65.2	52.1	54.6	40.5	34.8	31.0	35.4
34	AKAW 4781	34.7	37.6	50.4	49.5	43.1	44.1	33.2	28.8	35.4
35	CG 2118	41.4	38.2	65.1	56.5	50.3	44.0	34.1	31.5	36.5
36	MACS 6845	38.1	38.2	48.6	49.8	43.7	29.5	28.7	28.8	29.0
38	NEQ 2021-2	35.9	29.1	58.6	56.9	45.1	36.2	32.1	29.2	32.5
39	BNSR 9	35.3	34.8	47.0	46.1	40.8	34.3	32.0	32.3	32.9
40	RAJ 4238	33.4	32.9	42.2	43.3	38.0	31.7	34.2	25.0	30.3
41	UP 3083	35.6	31.2	48.3	51.6	41.7	35.4	27.6	27.8	30.3
43	UASQ 332	59.6	36.0	52.9	62.5	52.8	44.4	36.7	33.3	38.1
44	WBL 1629	30.9	40.6	57.8	52.9	45.6	38.2	30.8	29.1	32.7
46	MACS 6846	30.0	27.7	39.0	45.2	35.5	32.5	27.7	31.1	30.4
48	UP 3086	35.8	33.6	52.0	47.8	42.3	34.4	35.6	30.5	33.5
49	QBI 21-3	37.4	30.3	49.3	45.6	40.7	33.2	32.6	29.2	31.7
51	INDB 2120	33.8	36.7	53.4	51.7	43.9	32.7	30.1	30.3	31.0
52	WBL 1627	38.6	33.3	54.7	48.0	43.7	39.2	33.3	32.1	34.9
53	BNSR 8	36.6	34.7	45.9	49.2	41.6	36.9	29.8	30.5	32.4
55	GW 2021-1020	33.5	39.8	59.6	55.6	47.1	35.2	38.8	28.8	34.3
56	UP 3088	42.4	33.8	41.7	52.7	42.7	30.9	28.2	28.3	29.1
57	RWP 1216	34.5	30.6	49.6	53.5	42.1	39.6	33.2	29.0	33.9
59	MACS 6848	31.6	29.5	46.7	50.2	39.5	41.2	29.7	27.8	32.9
60	QLD 125	45.3	37.6	53.5	54.8	47.8	36.0	34.1	31.3	33.8
62	GW 2021-1022	34.2	33.0	63.6	48.0	44.7	31.8	26.4	28.4	28.9
63	WBL 1628	36.4	36.4	65.5	50.6	47.2	37.5	29.7	31.4	32.9
64	QBI 21-5	38.6	34.4	65.7	53.8	48.1	35.7	30.0	29.6	31.8
66	PBS 03	34.6	30.8	61.1	48.4	43.7	31.6	28.3	28.1	29.3
67	INDB 2121	36.9	39.7	48.9	48.9	43.6	41.5	35.7	30.0	35.7
68	MP 3340	44.4	45.1	49.7	51.1	47.6	39.0	39.0	34.5	37.5
70	NEQ 2021-1	39.4	34.7	47.5	49.0	42.7	30.4	34.6	32.9	32.6
	Mean	36.7	34.9	52.6	51.4	43.9	35.2	31.8	29.3	32.1

*average of 3 locations

Table 6 continued

S. No.	Genotype	CZ				PZ			
		Indore	Vijapur	P.kheda	Mean	Pune	Dharwad	Niphad	Mean
1	QBI 21-2	45.9	56.8	38.9	47.2	60.7	39.0	37.6	45.8
2	RWP 1174	38.4	40.5	28.2	35.7	49.0	36.6	34.2	39.9
3	WB 02 (C)	42.6	53.0	35.2	43.6	54.7	42.8	41.6	46.4
4	CG 2117	47.1	46.1	37.3	43.5	57.3	44.0	35.7	45.7
5	IDW 2116 (d)	46.4	42.3	35.0	41.2	51.6	37.9	43.9	44.5
6	WBL 1630	48.6	41.5	39.5	43.2	49.7	30.5	35.9	38.7
7	DBW 187 (C)	36.2	33.1	28.2	32.5	44.1	36.3	29.6	36.7
8	QLD 124	43.6	38.3	31.1	37.7	48.9	34.5	33.4	38.9
9	INDB 2119	38.4	41.5	34.0	38.0	52.9	34.8	41.7	43.1
10	MACS 6849	39.7	37.8	34.1	37.2	44.2	35.7	37.3	39.1
11	MP 3562	39.2	36.7	33.2	36.4	38.8	41.9	36.6	39.1
12	DBW 222 (C)	39.7	34.7	36.2	36.9	35.8	49.1	35.2	40.0
13	GW 322 (C)	43.7	43.4	35.6	40.9	51.0	32.8	36.1	40.0
14	AKDW 4773	47.8	46.4	44.5	46.2	50.1	50.2	51.7	50.7
15	GW 2021-1018	36.4	43.3	29.9	36.5	48.7	39.2	37.1	41.7
17	CG 2116	44.8	44.2	29.2	39.4	60.1	44.8	38.1	47.7
18	GW 2021-1017	38.4	36.7	28.8	34.6	50.1	37.4	37.8	41.8
20	PBS 04	37.5	42.4	37.3	39.1	46.1	41.5	32.6	40.1
21	WBL 1626	44.4	41.7	38.6	41.6	57.9	33.2	45.5	45.5
22	MP 3564	38.9	40.6	34.0	37.8	47.9	38.7	36.3	41.0
24	QBI 21-4	46.5	47.6	36.0	43.4	51.0	42.9	43.4	45.8
25	QBI 21-1	43.4	50.1	40.5	44.7	49.5	44.1	45.1	46.2
27	RAJ 4083	35.2	45.1	39.8	40.0	52.9	40.8	36.3	43.3
28	PBS 01	43.5	43.6	47.4	44.8	55.8	49.6	42.8	49.4
29	MACS 6847	48.5	56.4	32.2	45.7	48.1	43.7	32.2	41.3
30	GW 2021-1026	47.1	53.8	32.4	44.4	63.8	45.6	43.1	50.8
31	PBS 02	44.8	54.6	41.3	46.9	55.6	49.7	43.1	49.5
34	AKAW 4781	39.6	49.5	40.1	43.1	53.2	45.3	43.8	47.4
35	CG 2118	46.5	50.2	39.7	45.5	58.9	45.6	40.6	48.4
36	MACS 6845	36.3	42.4	29.7	36.1	51.7	39.3	37.6	42.9
38	NEQ 2021-2	39.2	44.8	38.7	40.9	53.8	37.4	39.8	43.7
39	BNSR 9	34.3	46.9	35.2	38.8	48.2	43.5	38.7	43.5
40	RAJ 4238	39.7	36.2	32.4	36.1	46.6	39.4	31.9	39.3
41	UP 3083	41.0	38.9	26.6	35.5	47.4	43.6	36.2	42.4
43	UASQ 332	41.3	55.0	39.7	45.3	57.8	59.8	43.4	53.7
44	WBL 1629	37.4	52.8	33.0	41.1	43.8	35.3	35.0	38.0
46	MACS 6846	37.5	45.9	25.8	36.4	49.4	33.6	34.8	39.3
48	UP 3086	39.6	43.5	30.1	37.7	49.4	44.8	40.6	44.9
49	QBI 21-3	40.4	49.3	31.7	40.5	47.1	33.7	34.6	38.5
51	INDB 2120	37.9	47.2	39.1	41.4	55.3	40.0	40.7	45.3
52	WBL 1627	37.5	51.7	36.6	41.9	46.0	37.7	41.5	41.7
53	BNSR 8	42.0	43.2	41.4	42.2	47.0	35.4	40.2	40.9
55	GW 2021-1020	33.8	47.6	40.3	40.6	51.7	34.9	42.2	42.9
56	UP 3088	39.3	46.0	32.5	39.3	47.6	34.0	40.8	40.8
57	RWP 1216	39.3	56.6	34.5	43.5	44.4	43.9	37.6	42.0
59	MACS 6848	35.8	40.5	36.2	37.5	45.0	34.0	39.1	39.4
60	QLD 125	43.1	46.1	40.8	43.3	58.3	42.6	39.9	46.9
62	GW 2021-1022	33.2	43.4	29.1	35.2	40.6	38.3	34.1	37.7
63	WBL 1628	51.7	42.0	33.9	42.5	46.0	35.3	40.5	40.6
64	QBI 21-5	40.5	46.7	28.0	38.4	47.2	35.8	45.5	42.8
66	PBS 03	38.0	45.8	34.5	39.4	48.1	34.1	37.9	40.0
67	INDB 2121	39.8	41.5	36.8	39.4	51.6	34.5	41.7	42.6
68	MP 3340	38.0	51.1	33.4	40.8	52.3	36.5	44.0	44.3
70	NEQ 2021-1	35.5	51.6	33.2	40.1	49.7	37.8	37.8	41.8
	Mean	40.8	45.3	35.0	40.4	50.3	39.9	39.0	43.0

Table 7: Hardness index of QCWBN entries

S. No.	Genotype	NWPZ					NEPZ			
		Karnal	Pantnagar	Ludhiana	Delhi	Mean	Kanpur	Varanasi	Sabour	Mean
1	QBI 21-2	68								68
2	RWP 1174	96								96
3	WB 02 (C)	66								66
4	CG 2117	71								71
5	IDW 2116 (d)	95								95
6	WBL 1630	73								73
7	DBW 187 (C)	74								74
8	QLD 124	71								71
9	INDB 2119	75								75
10	MACS 6849	69								69
11	MP 3562	75								75
12	DBW 222 (C)	80								80
13	GW 322 (C)	77								77
14	AKDW 4773	91								91
15	GW 2021-1018	80								80
17	CG 2116	75								75
18	GW 2021-1017	69								69
20	PBS 04	73								73
21	WBL 1626	67								67
22	MP 3564	73								73
24	QBI 21-4	81								81
25	QBI 21-1	62								62
27	RAJ 4083	78								78
28	PBS 01	100								100
29	MACS 6847	77								77
30	GW 2021-1026	89								89
31	PBS 02	86								86
34	AKAW 4781	69								69
35	CG 2118	59								59
36	MACS 6845	75								75
38	NEQ 2021-2	73								73
39	BNSR 9	76								76
40	RAJ 4238	77								77
41	UP 3083	72								72
43	UASQ 332	87								87
44	WBL 1629	72								72
46	MACS 6846	65								65
48	UP 3086	46								46
49	QBI 21-3	73								73
51	INDB 2120	71								71
52	WBL 1627	73								73
53	BNSR 8	77								77
55	GW 2021-1020	68								68
56	UP 3088	69								69
57	RWP 1216	80								80
59	MACS 6848	73								73
60	QLD 125	70								70
62	GW 2021-1022	72								72
63	WBL 1628	69								69
64	QBI 21-5	72								72
66	PBS 03	71								71
67	INDB 2121	74								74
68	MP 3340	80								80
70	NEQ 2021-1	75								75
	Mean	75								75