

Table 1: Chapati Quality (Max. Score 10) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	7.58	7.70	7.45	7.58
2. VL 804 (C)	6	7.81	7.72	7.67	7.73
3. VL 907 (C)	2	7.62	7.58	7.43	7.54
4. HS 507 (C)	1	7.65	7.52	7.40	7.52
5. HPW 349 (I)	5	7.55	7.60	7.65	7.60
Mean		7.64	7.62	7.52	7.60
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	7.60	7.67	7.62	7.63
2. VL 804 (C)	6	7.70	7.65	7.74	7.70
3. VL 907 (C)	2	7.60	7.55	7.45	7.53
4. HS 507 (C)	1	7.65	7.70	7.58	7.64
5. HPW 349 (I)	5	7.52	7.58	7.67	7.59
Mean		7.61	7.63	7.61	7.62
Rainfed, Early Sown					
1. HS 542	2	7.95	7.88	7.80	7.88
2. HS 277 (C)	1	6.80	6.95	7.05	6.93
3. VL 829 (C)	7	6.95	7.15	7.20	7.10
4. HPW 251 (C)	5	7.82	7.75	7.67	7.75
Mean		7.38	7.43	7.43	7.41
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	7.05	6.95	6.88	6.96
2. HS 490 (C)	4	6.95	7.15	6.88	6.99
Mean		7.00	7.05	6.88	6.98

Table 2: Chapati Quality (Max. Score 10) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	7.75	7.65	7.60	7.50	7.80	7.66
2. HD 3086	8	7.70	7.60	7.68	7.55	7.72	7.65
3. DBW 17 (C)	14	7.65	7.58	7.45	7.40	7.60	7.54
4. DPW 621-50 (C)	10	7.55	7.58	7.40	7.60	7.70	7.57
5. HD 2967 (C)	13	7.75	7.67	7.55	7.50	7.80	7.65
6. WH 1105 (I)	11	7.58	7.62	7.38	7.50	7.70	7.56
Mean		7.66	7.62	7.51	7.51	7.72	7.60
Irrigated Late Sown							
1. DBW 90	17	7.60	7.55	7.75	7.50	7.58	7.60
2. WH 1124	10	7.55	7.40	7.50	7.35	7.48	7.46
3. HD 3091	5	7.65	7.55	7.60	7.45	7.52	7.55
4. PBW 373 (C)	8	7.55	7.52	7.46	7.40	7.60	7.51
5. PBW 590 (C)	7	7.50	7.38	7.55	7.48	7.58	7.50
6. WH 1021 (C)	16	7.45	7.30	7.60	7.40	7.50	7.45
7. DBW 71 (I)	4	7.72	7.50	7.75	7.40	7.65	7.60
8. HD 3059 (I)	15	7.65	7.72	7.60	7.75	7.65	7.67
Mean		7.58	7.49	7.60	7.47	7.57	7.54
Rainfed, Timely Sown							
1. PBW 660	17	7.95	-	8.10	7.90	7.88	7.96
2. DBW 74	5	7.80	-	7.55	7.50	7.65	7.63
3. WH 1098	8	7.85	-	7.77	7.60	7.56	7.70
4. PBW 674	2	7.77	-	7.45	7.65	7.55	7.61
5. PBW 675	1	7.75	-	7.80	7.95	8.05	7.89
6. WH 1126	10	7.60	-	7.55	7.50	7.65	7.58
7. WH 1127	20	7.65	-	7.55	7.62	7.46	7.57
8. C 306 (C)	15	8.00	-	8.15	7.95	8.20	8.08
9. PBW 175 (C)	18	8.00	-	8.20	7.90	8.10	8.05
10. PBW 644 (C)	7	7.50	-	7.60	7.45	7.40	7.49
11. WH 1080 (C)	13	7.60	-	7.50	7.65	7.40	7.54
Mean		7.77	-	7.75	7.70	7.72	7.73
Restricted Irrigation Timely Sown							
1. HD 3070	14	7.75	-	7.65	7.45	7.60	7.61
2. DBW 74	2	7.80	-	7.60	7.55	7.70	7.66
3. PBW 660	3	8.05	-	7.95	7.80	8.10	7.98
4. C 306 (C)	1	7.95	-	8.10	8.20	8.12	8.09
5. PBW 175 (C)	5	7.90	-	8.15	8.05	8.20	8.08
6. WH 1080 (C)	9	7.60	-	7.55	7.40	7.65	7.55
7. HD 3043 (C)	8	7.65	-	7.52	7.45	7.60	7.56
Mean		7.81	-	7.79	7.70	7.85	7.79

Table 3: Chapati Quality (Max. Score 10) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	7.40	7.65	7.58	7.54
2. K 1006	3	7.60	7.52	7.45	7.52
3. WH 1120	14	7.65	7.55	7.48	7.56
4. HD 3076	11	7.45	7.60	7.40	7.48
5. PBW 661	10	7.40	7.50	7.65	7.52
6. K 0307 (C)	7	7.62	7.58	7.72	7.64
7. DBW 39 (C)	8	7.75	7.82	7.68	7.75
8. HD 2733 (C)	1	7.62	7.70	7.55	7.62
9. Raj 4229 (I)	9	7.65	7.55	7.48	7.56
Mean		7.57	7.61	7.55	7.58
Irrigated, Late Sown					
1. Raj 4250	5	8.10	8.00	7.92	8.01
2. NW 2036 (C)	7	7.48	7.55	7.60	7.54
3. DBW 14 (C)	8	7.55	7.65	7.70	7.63
4. HD 2985 (C)	1	7.50	7.65	7.42	7.52
5. HI 1563 (C)	4	7.95	8.05	8.15	8.05
Mean		7.72	7.78	7.76	7.75
Rainfed, Timely Sown					
1. WH 1127	5	7.50	7.60	7.42	7.51
2. C 306 (C)	7	7.95	8.15	8.05	8.05
3. K 8027 (C)	1	7.90	8.20	8.00	8.03
4. HD 2888 (C)	3	7.95	8.05	8.20	8.07
Mean		7.83	8.00	7.92	7.91

Table 4: Chapati Quality (Max. Score 10) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	7.48	7.42	7.38	7.60	7.52	7.48
2. HI 1544 (C)	2	7.45	7.55	7.60	7.52	7.50	7.52
Mean		7.47	7.49	7.49	7.56	7.51	7.50
Irrigated, Late Sown							
1. HD 3095	3	7.80	7.75	7.77	7.68	7.60	7.72
2. HD 2932 (C)	6	8.05	7.90	8.00	7.88	8.10	7.99
3. HD 2864 (C)	8	8.10	7.95	8.05	7.90	8.15	8.03
4. MP 4010 (C)	5	7.80	7.85	7.60	7.75	7.68	7.74
5. Raj 4238 (I)	7	8.05	7.90	8.15	8.00	8.12	8.04
6. MP 3336 (I)	1	7.95	8.10	8.05	8.15	7.90	8.03
Mean		7.96	7.91	7.94	7.89	7.93	7.92
Rainfed, Timely Sown							
1. HI 1500 (C)	5	8.05	8.10	-	-	-	8.08
2. MP 3288 (C)	6	7.60	7.45	-	-	-	7.53
Mean		7.83	7.78	-	-	-	7.80
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	8.15	7.95	-	-	-	8.05
2. MP 3288 (C)	6	7.65	7.55	-	-	-	7.60
Mean		7.90	7.75	-	-	-	7.83

Table 5: Chapati Quality (Max. Score 10) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	8.08	7.96	8.10	8.05
2. UAS 334	8	7.65	7.55	7.60	7.60
3. GW 322 (C)	12	7.72	7.55	7.65	7.64
4. MACS 6222 (C)	1	7.55	7.38	7.42	7.45
Mean		7.75	7.61	7.69	7.68
Irrigated, Late Sown					
1. HD 3090	7	7.66	7.50	7.48	7.55
2. HD 3093	15	8.20	7.95	8.05	8.07
3. GW 432	11	8.05	7.90	8.15	8.03
4. HD 2932 (C)	12	7.90	7.95	8.05	7.97
5. Raj 4083 (C)	2	7.80	7.68	7.55	7.68
6. NIAW 34 (C)	9	8.15	7.95	8.08	8.06
Mean		7.96	7.82	7.89	7.89
Rainfed, Timely Sown					
1. DBW 93	9	-	7.58	7.75	7.67
2. NIAW 1415 (C)	6	-	7.90	8.15	8.03
3. NI 5439 (C)	5	-	7.60	7.70	7.65
Mean		-	7.69	7.87	7.78
Restricted Irrigation, Timely Sown					
1. DBW 93	9	7.58	7.77	7.72	7.69
2. NIAW 1415 (C)	6	7.90	8.10	8.20	8.07
3. NI 5439 (C)	5	7.52	7.68	7.58	7.59
Mean		7.67	7.85	7.83	7.78

Table 6: Chapati Quality (Max. Score 10) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington (ITS)	Wellington (LS)	Ooty	Kotagiri	Kodai Kanal	Mean
Restricted Irrigation, Timely Sown							
1. HW 5224	8	7.50	7.42	7.35	7.40	7.30	7.39
2. CoW (W) 1 (C)	2	7.65	7.52	7.48	7.70	7.55	7.58
3. HW 2044 (C)	4	7.65	7.60	7.55	7.50	7.45	7.55
4. HW 5216 (I)	9	7.50	7.65	7.60	7.40	7.45	7.52
Mean		7.58	7.55	7.50	7.50	7.44	7.51

Table 7: Phenol Test (Max. Score 10) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	6.5	6.0	7.0	6.5
2. VL 804 (C)	6	4.0	4.5	5.5	4.7
3. VL 907 (C)	2	6.0	6.0	7.0	6.3
4. HS 507 (C)	1	5.0	5.0	6.0	5.3
5. HPW 349 (I)	5	6.0	6.5	5.5	6.0
Mean		5.5	5.6	6.2	5.8
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	7.0	6.0	7.0	6.7
2. VL 804 (C)	6	5.0	5.0	5.0	5.0
3. VL 907 (C)	2	6.0	6.0	6.5	6.2
4. HS 507 (C)	1	5.5	5.0	5.5	5.3
5. HPW 349 (I)	5	6.0	6.0	5.5	5.8
Mean		5.9	5.6	5.9	5.8
Rainfed, Early Sown					
1. HS 542	2	3.5	3.0	4.0	3.5
2. HS 277 (C)	1	7.0	6.5	6.0	6.5
3. VL 829 (C)	7	6.5	6.5	6.5	6.5
4. HPW 251 (C)	5	3.5	4.0	4.5	4.0
Mean		5.1	5.0	5.3	5.1
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	6.0	6.5	6.5	6.3
2. HS 490 (C)	4	6.5	6.0	6.5	6.3
Mean		6.3	6.3	6.5	6.3

Table 8: Phenol Test (Max. Score 10) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	6.0	7.0	7.0	7.5	6.0	6.7
2. HD 3086	8	6.5	7.0	6.5	7.0	6.5	6.7
3. DBW 17 (C)	14	6.0	6.0	7.0	7.0	6.0	6.4
4. DPW 621-50 (C)	10	7.0	7.0	7.5	7.0	6.5	7.0
5. HD 2967 (C)	13	5.5	6.0	6.5	6.5	5.0	5.9
6. WH 1105 (I)	11	7.0	7.0	7.5	7.0	6.0	6.9
Mean		6.3	6.7	7.0	7.0	6.0	6.6
Irrigated Late Sown							
1. DBW 90	17	6.0	6.5	5.5	6.5	6.0	6.1
2. WH 1124	10	6.0	6.5	6.0	6.5	6.0	6.2
3. HD 3091	5	6.0	6.5	6.0	6.5	6.5	6.3
4. PBW 373 (C)	8	6.0	6.5	6.5	7.0	6.0	6.4
5. PBW 590 (C)	7	7.0	7.5	7.0	7.0	7.0	7.1
6. WH 1021 (C)	16	6.0	7.5	5.5	6.5	6.0	6.3
7. DBW 71 (I)	4	5.5	6.5	5.0	7.0	5.5	5.9
8. HD 3059 (I)	15	6.0	7.0	6.0	7.0	6.5	6.5
Mean		6.1	6.8	5.9	6.8	6.2	6.4
Rainfed, Timely Sown							
1. PBW 660	17	3.0	-	2.0	3.5	3.5	3.0
2. DBW 74	5	6.0	-	7.0	7.0	6.5	6.6
3. WH 1098	8	6.5	-	6.5	7.0	7.0	6.8
4. PBW 674	2	6.5	-	7.0	6.5	6.5	6.6
5. PBW 675	1	4.0	-	3.5	3.0	3.0	3.4
6. WH 1126	10	6.5	-	7.0	7.0	6.5	6.8
7. WH 1127	20	6.0	-	7.0	6.5	7.5	6.8
8. C 306 (C)	15	2.5	-	2.0	3.5	2.0	2.5
9. PBW 175 (C)	18	3.0	-	2.0	3.5	2.5	2.8
10. PBW 644 (C)	7	7.0	-	6.5	7.0	7.0	6.9
11. WH 1080 (C)	13	7.0	-	7.5	7.0	7.5	7.3
Mean		5.3	-	5.3	5.6	5.4	5.4
Restricted Irrigation Timely Sown							
1. HD 3070	14	6.0	-	6.5	7.0	6.5	6.5
2. DBW 74	2	6.0	-	7.0	7.0	6.5	6.6
3. PBW 660	3	3.0	-	3.5	3.5	3.0	3.3
4. C 306 (C)	1	3.0	-	2.5	2.0	2.5	2.5
5. PBW 175 (C)	5	2.5	-	2.0	2.5	1.5	2.1
6. WH 1080 (C)	9	6.5	-	6.5	7.0	6.5	6.6
7. HD 3043 (C)	8	6.0	-	6.5	7.0	6.0	6.4
Mean		4.7	-	4.9	5.1	4.6	4.9

Table 9: Phenol Test (Max. Score 10) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	7.0	6.5	6.5	6.7
2. K 1006	3	6.5	6.5	7.0	6.7
3. WH 1120	14	6.5	7.0	7.0	6.8
4. HD 3076	11	7.0	6.5	7.0	6.8
5. PBW 661	10	7.0	7.0	6.5	6.8
6. K 0307 (C)	7	6.5	6.5	6.0	6.3
7. DBW 39 (C)	8	4.0	4.0	4.0	4.0
8. HD 2733 (C)	1	7.0	6.5	7.0	6.8
9. Raj 4229 (I)	9	6.0	6.0	6.0	6.0
Mean		6.4	6.3	6.3	6.3
Irrigated, Late Sown					
1. Raj 4250	5	3.5	4.0	3.0	3.5
2. NW 2036 (C)	7	6.5	6.5	6.0	6.3
3. DBW 14 (C)	8	6.5	6.0	6.0	6.2
4. HD 2985 (C)	1	7.0	6.5	7.0	6.8
5. HI 1563 (C)	4	3.5	3.5	3.0	3.3
Mean		5.4	5.3	5.0	5.2
Rainfed, Timely Sown					
1. WH 1127	5	7.0	6.5	7.5	7.0
2. C 306 (C)	7	3.5	3.0	3.5	3.3
3. K 8027 (C)	1	3.0	2.0	2.5	2.5
4. HD 2888 (C)	3	4.0	3.5	3.0	3.5
Mean		4.4	3.8	4.1	4.1

Table 10: Phenol Test (Max. Score 10) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	6.5	6.5	7.0	6.0	6.5	6.5
2. HI 1544 (C)	2	7.0	6.5	6.5	6.5	6.5	6.6
Mean		6.8	6.5	6.8	6.3	6.5	6.6
Irrigated, Late Sown							
1. HD 3095	3	5.5	5.5	5.5	5.5	6.0	5.6
2. HD 2932 (C)	6	3.5	4.0	3.5	4.0	3.0	3.6
3. HD 2864 (C)	8	3.5	4.0	3.0	4.0	2.5	3.4
4. MP 4010 (C)	5	5.5	5.5	6.0	5.5	5.5	5.6
5. Raj 4238 (I)	7	3.5	4.0	2.5	3.5	2.5	3.2
6. MP 3336 (I)	1	3.5	3.0	3.0	3.0	3.5	3.2
Mean		4.2	4.3	3.9	4.3	3.8	4.1
Rainfed, Timely Sown							
1. HI 1500 (C)	5	3.5	3.0	-	-	-	3.3
2. MP 3288 (C)	6	7.5	7.0	-	-	-	7.3
Mean		5.5	5.0	-	-	-	5.3
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	3.0	3.0	-	-	-	3.0
2. MP 3288 (C)	6	6.5	6.5	-	-	-	6.5
Mean		4.8	4.8	-	-	-	4.8

Table 11: Phenol Test (Max. Score 10) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	3.0	3.5	2.5	3.0
2. UAS 334	8	6.0	7.5	6.5	6.7
3. GW 322 (C)	12	6.0	6.5	6.0	6.2
4. MACS 6222 (C)	1	6.0	7.0	6.5	6.5
Mean		5.3	6.1	5.4	5.6
Irrigated, Late Sown					
1. HD 3090	7	6.0	6.5	6.5	6.3
2. HD 3093	15	1.5	3.0	2.5	2.3
3. GW 432	11	3.0	4.0	2.5	3.2
4. HD 2932 (C)	12	3.5	3.0	2.5	3.0
5. Raj 4083 (C)	2	5.5	6.0	6.5	6.0
6. NIAW 34 (C)	9	2.0	4.0	2.5	2.8
Mean		3.6	4.4	3.8	3.9
Rainfed, Timely Sown					
1. DBW 93	9	-	7.5	6.5	7.0
2. NIAW 1415 (C)	6	-	3.5	3.0	3.3
3. NI 5439 (C)	5	-	7.0	6.5	6.8
Mean		-	6.0	5.3	5.7
Restricted Irrigation, Timely Sown					
1. DBW 93	9	7.0	7.0	6.5	6.8
2. NIAW 1415 (C)	6	4.0	3.5	3.0	3.5
3. NI 5439 (C)	5	7.5	6.5	7.0	7.0
Mean		6.2	5.7	5.5	5.8

Table 12: Phenol Test (Max. Score 10) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington (ITS)	Wellington (LS)	Ooty	Kotagiri	Kodai Kanal	Mean
Restricted Irrigation, Timely Sown							
1. HW 5224	8	7.5	7.5	8.0	8.0	8.0	7.8
2. CoW (W) 1 (C)	2	5.5	6.0	6.5	5.5	6.0	5.9
3. HW 2044 (C)	4	7.5	7.5	8.0	8.0	8.0	7.8
4. HW 5216 (I)	9	6.5	6.0	6.0	6.0	6.0	6.1
Mean		6.8	6.8	7.1	6.9	7.0	6.9

Table 13: Bread Loaf Volume (ml) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	545	540	560	548
2. VL 804 (C)	6	540	520	555	538
3. VL 907 (C)	2	545	540	550	545
4. HS 507 (C)	1	535	530	545	537
5. HPW 349 (I)	5	540	520	550	537
Mean		541	530	552	541
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	565	550	540	552
2. VL 804 (C)	6	550	535	530	538
3. VL 907 (C)	2	545	520	515	527
4. HS 507 (C)	1	540	525	510	525
5. HPW 349 (I)	5	565	540	530	545
Mean		553	534	525	537
Rainfed, Early Sown					
1. HS 542	2	535	510	520	522
2. HS 277 (C)	1	540	510	525	525
3. VL 829 (C)	7	530	505	520	518
4. HPW 251 (C)	5	545	495	515	518
Mean		538	505	520	521
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	520	495	510	508
2. HS 490 (C)	4	510	490	495	498
Mean		515	493	503	503

Table 14: Bread Loaf Volume (ml) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	560	565	555	570	575	565
2. HD 3086	8	565	555	565	565	575	565
3. DBW 17 (C)	14	570	550	565	560	570	563
4. DPW 621-50 (C)	10	560	570	575	565	565	567
5. HD 2967 (C)	13	550	575	570	565	575	567
6. WH 1105 (I)	11	560	575	575	570	565	569
Mean		561	565	568	566	571	566
Irrigated Late Sown							
1. DBW 90	17	560	565	555	575	550	561
2. WH 1124	10	565	575	570	580	555	569
3. HD 3091	5	570	580	575	570	560	571
4. PBW 373 (C)	8	560	570	575	580	555	568
5. PBW 590 (C)	7	565	570	560	575	560	566
6. WH 1021 (C)	16	570	575	580	570	555	570
7. DBW 71 (I)	4	560	570	580	580	550	568
8. HD 3059 (I)	15	580	575	570	580	560	573
Mean		566	573	571	576	556	568
Rainfed, Timely Sown							
1. PBW 660	17	570	-	580	555	540	561
2. DBW 74	5	575	-	575	540	550	560
3. WH 1098	8	570	-	580	540	535	556
4. PBW 674	2	565	-	585	545	540	559
5. PBW 675	1	575	-	580	550	535	560
6. WH 1126	10	565	-	575	540	545	556
7. WH 1127	20	580	-	590	550	540	565
8. C 306 (C)	15	520	-	530	470	480	500
9. PBW 175 (C)	18	510	-	525	475	470	495
10. PBW 644 (C)	7	560	-	570	535	545	553
11. WH 1080 (C)	13	570	-	585	565	545	566
Mean		560	-	570	533	530	548
Restricted Irrigation Timely Sown							
1. HD 3070	14	560	-	575	550	540	556
2. DBW 74	2	570	-	575	540	535	555
3. PBW 660	3	560	-	575	570	555	565
4. C 306 (C)	1	520	-	535	510	490	514
5. PBW 175 (C)	5	510	-	520	505	495	508
6. WH 1080 (C)	9	560	-	570	565	540	559
7. HD 3043 (C)	8	550	-	565	550	540	551
Mean		547	-	559	541	528	544

Table 15: Bread Loaf Volume (ml) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	555	575	540	557
2. K 1006	3	560	580	565	568
3. WH 1120	14	555	570	550	558
4. HD 3076	11	560	575	555	563
5. PBW 661	10	565	570	560	565
6. K 0307 (C)	7	560	575	565	567
7. DBW 39 (C)	8	565	575	570	570
8. HD 2733 (C)	1	560	575	575	570
9. Raj 4229 (I)	9	565	580	565	570
Mean		561	575	561	565
Irrigated, Late Sown					
1. Raj 4250	5	555	575	570	567
2. NW 2036 (C)	7	565	580	585	577
3. DBW 14 (C)	8	550	575	565	563
4. HD 2985 (C)	1	555	570	565	563
5. HI 1563 (C)	4	555	575	570	567
Mean		556	575	571	567
Rainfed, Timely Sown					
1. WH 1127	5	530	545	535	537
2. C 306 (C)	7	470	520	485	492
3. K 8027 (C)	1	465	510	490	488
4. HD 2888 (C)	3	480	515	490	495
Mean		486	523	500	503

Table 16: Bread Loaf Volume (ml) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	525	495	530	510	490	510
2. HI 1544 (C)	2	520	530	540	520	515	525
Mean		523	513	535	515	503	518
Irrigated, Late Sown							
1. HD 3095	3	540	530	550	545	555	544
2. HD 2932 (C)	6	550	555	565	545	570	557
3. HD 2864 (C)	8	555	550	570	550	560	557
4. MP 4010 (C)	5	560	550	565	560	565	560
5. Raj 4238 (I)	7	540	530	560	535	565	546
6. MP 3336 (I)	1	545	550	555	545	535	546
Mean		548	544	561	547	558	552
Rainfed, Timely Sown							
1. HI 1500 (C)	5	540	525	-	-	-	533
2. MP 3288 (C)	6	565	540	-	-	-	553
Mean		553	533	-	-	-	543
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	550	530	-	-	-	540
2. MP 3288 (C)	6	560	550	-	-	-	555
Mean		555	540	-	-	-	548

Table 17: Bread Loaf Volume (ml) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	560	570	575	568
2. UAS 334	8	565	570	565	567
3. GW 322 (C)	12	560	570	555	562
4. MACS 6222 (C)	1	580	585	575	580
Mean		566	574	568	569
Irrigated, Late Sown					
1. HD 3090	7	575	580	570	575
2. HD 3093	15	560	575	570	568
3. GW 432	11	570	585	570	575
4. HD 2932 (C)	12	575	590	585	583
5. Raj 4083 (C)	2	565	595	580	580
6. NIAW 34 (C)	9	575	595	585	585
Mean		570	587	577	578
Rainfed, Timely Sown					
1. DBW 93	9	-	580	575	578
2. NIAW 1415 (C)	6	-	590	575	583
3. NI 5439 (C)	5	-	600	580	590
Mean		-	590	577	583
Restricted Irrigation, Timely Sown					
1. DBW 93	9	585	575	570	577
2. NIAW 1415 (C)	6	600	590	570	587
3. NI 5439 (C)	5	595	585	570	583
Mean		593	583	570	582

Table 18: Bread Loaf Volume (ml) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington	Mean
Restricted Irrigation, Timely Sown			
1. HW 5224	8	540	540
2. CoW (W) 1 (C)	2	545	545
3. HW 2044 (C)	4	555	555
4. HW 5216 (I)	9	540	540
Mean		545	545

Table 19: Bread Quality (Max. Score 10) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	6.37	6.18	6.67	6.41
2. VL 804 (C)	6	6.21	5.81	6.61	6.21
3. VL 907 (C)	2	6.41	6.11	6.50	6.34
4. HS 507 (C)	1	6.32	6.11	6.43	6.29
5. HPW 349 (I)	5	6.15	5.85	6.45	6.15
Mean		6.29	6.01	6.53	6.28
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	6.67	6.42	6.40	6.50
2. VL 804 (C)	6	6.37	6.22	6.05	6.21
3. VL 907 (C)	2	6.40	5.80	5.61	5.94
4. HS 507 (C)	1	6.28	5.95	5.45	5.89
5. HPW 349 (I)	5	6.70	6.28	6.00	6.33
Mean		6.48	6.13	5.90	6.17
Rainfed, Early Sown					
1. HS 542	2	6.38	5.37	5.80	5.85
2. HS 277 (C)	1	6.35	5.40	5.97	5.91
3. VL 829 (C)	7	6.25	5.11	5.85	5.74
4. HPW 251 (C)	5	6.42	4.95	5.67	5.68
Mean		6.35	5.21	5.82	5.79
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	5.77	4.90	5.25	5.31
2. HS 490 (C)	4	5.20	4.77	4.95	4.97
Mean		5.49	4.84	5.10	5.14

Table 20: Bread Quality (Max. Score 10) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	6.72	6.80	6.67	6.88	6.98	6.81
2. HD 3086	8	6.77	6.63	6.82	6.77	6.95	6.79
3. DBW 17 (C)	14	6.85	6.47	6.82	6.67	6.85	6.73
4. DPW 621-50 (C)	10	6.65	6.82	6.98	6.75	6.80	6.80
5. HD 2967 (C)	13	6.45	6.98	6.85	6.75	6.95	6.80
6. WH 1105 (I)	11	6.67	6.95	7.00	6.85	6.77	6.85
Mean		6.69	6.78	6.86	6.78	6.88	6.80
Irrigated Late Sown							
1. DBW 90	17	6.67	6.75	6.58	6.95	6.47	6.68
2. WH 1124	10	6.78	7.00	6.87	7.15	6.60	6.88
3. HD 3091	5	6.85	7.20	7.05	6.88	6.70	6.94
4. PBW 373 (C)	8	6.65	6.85	6.98	7.10	6.55	6.83
5. PBW 590 (C)	7	6.72	6.88	6.65	7.00	6.67	6.78
6. WH 1021 (C)	16	6.88	6.95	7.20	6.82	6.55	6.88
7. DBW 71 (I)	4	6.62	6.84	7.10	7.15	6.44	6.83
8. HD 3059 (I)	15	7.20	7.00	6.88	7.10	6.70	6.98
Mean		6.80	6.93	6.91	7.02	6.59	6.85
Rainfed, Timely Sown							
1. PBW 660	17	6.85	-	7.12	6.65	6.35	6.74
2. DBW 74	5	7.00	-	6.95	6.40	6.52	6.72
3. WH 1098	8	6.88	-	7.15	6.33	6.20	6.64
4. PBW 674	2	6.67	-	7.30	6.44	6.32	6.68
5. PBW 675	1	7.05	-	5.10	6.50	6.25	6.23
6. WH 1126	10	6.64	-	6.98	6.30	6.48	6.60
7. WH 1127	20	7.20	-	7.40	6.50	6.35	6.86
8. C 306 (C)	15	5.67	-	6.11	4.67	4.80	5.31
9. PBW 175 (C)	18	5.40	-	5.90	4.75	4.60	5.16
10. PBW 644 (C)	7	6.60	-	6.82	6.15	6.45	6.51
11. WH 1080 (C)	13	6.90	-	7.30	6.67	6.45	6.83
Mean		6.62	-	6.74	6.12	6.07	6.39
Restricted Irrigation Timely Sown							
1. HD 3070	14	6.67	-	6.98	6.50	6.37	6.63
2. DBW 74	2	6.85	-	7.00	6.32	6.25	6.61
3. PBW 660	3	6.60	-	7.05	6.88	6.58	6.78
4. C 306 (C)	1	5.81	-	6.20	5.37	4.88	5.57
5. PBW 175 (C)	5	5.32	-	5.67	5.18	4.95	5.28
6. WH 1080 (C)	9	6.67	-	6.88	6.72	6.35	6.66
7. HD 3043 (C)	8	6.50	-	6.75	6.45	6.40	6.53
Mean		6.35	-	6.65	6.20	5.97	6.29

Table 21: Bread Quality (Max. Score 10) of *T.aestivum* genotypes in North Eastern Plains Zone AVT

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	6.65	7.05	6.37	6.69
2. K 1006	3	6.72	7.20	6.82	6.91
3. WH 1120	14	6.60	6.92	6.50	6.67
4. HD 3076	11	6.70	7.00	6.62	6.77
5. PBW 661	10	6.80	6.90	6.70	6.80
6. K 0307 (C)	7	6.67	7.10	6.84	6.87
7. DBW 39 (C)	8	6.77	7.00	6.95	6.91
8. HD 2733 (C)	1	6.70	6.98	7.15	6.94
9. Raj 4229 (I)	9	6.82	7.15	6.80	6.92
Mean		6.71	7.03	6.75	6.83
Irrigated, Late Sown					
1. Raj 4250	5	6.60	6.95	6.80	6.78
2. NW 2036 (C)	7	6.70	7.10	7.35	7.05
3. DBW 14 (C)	8	6.50	7.00	6.75	6.75
4. HD 2985 (C)	1	6.55	6.82	6.74	6.70
5. HI 1563 (C)	4	6.62	7.05	6.80	6.82
Mean		6.59	6.98	6.89	6.82
Rainfed, Timely Sown					
1. WH 1127	5	6.11	6.40	6.28	6.26
2. C 306 (C)	7	4.67	5.67	4.81	5.05
3. K 8027 (C)	1	4.47	5.20	4.90	4.86
4. HD 2888 (C)	3	4.80	5.50	4.90	5.07
Mean		5.01	5.69	5.22	5.31

Table 22: Bread Quality (Max. Score 10) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	5.90	4.95	6.18	5.20	4.88	5.42
2. HI 1544 (C)	2	5.80	6.11	6.37	5.75	5.60	5.93
Mean		5.85	5.53	6.28	5.48	5.24	5.67
Irrigated, Late Sown							
1. HD 3095	3	6.37	6.11	6.50	6.42	6.61	6.40
2. HD 2932 (C)	6	6.45	6.65	6.80	6.37	6.88	6.63
3. HD 2864 (C)	8	6.55	6.48	6.90	6.50	6.67	6.62
4. MP 4010 (C)	5	6.70	6.50	6.77	6.72	6.80	6.70
5. Raj 4238 (I)	7	6.40	6.15	6.67	6.25	6.75	6.44
6. MP 3336 (I)	1	6.48	6.55	6.61	6.40	6.20	6.45
Mean		6.49	6.41	6.71	6.44	6.65	6.54
Rainfed, Timely Sown							
1. HI 1500 (C)	5	6.37	6.00	-	-	-	6.19
2. MP 3288 (C)	6	6.80	6.40	-	-	-	6.60
Mean		6.59	6.20	-	-	-	6.39
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	6.50	6.10	-	-	-	6.30
2. MP 3288 (C)	6	6.60	6.50	-	-	-	6.55
Mean		6.55	6.30	-	-	-	6.43

Table 23: Bread Quality (Max. Score 10) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	6.75	6.95	7.10	6.93
2. UAS 334	8	6.85	7.00	6.80	6.88
3. GW 322 (C)	12	6.70	6.95	6.67	6.77
4. MACS 6222 (C)	1	7.25	7.40	7.10	7.25
Mean		6.89	7.08	6.92	6.96
Irrigated, Late Sown					
1. HD 3090	7	7.15	7.30	7.05	7.17
2. HD 3093	15	6.80	7.10	7.00	6.97
3. GW 432	11	7.05	7.40	7.05	7.17
4. HD 2932 (C)	12	7.15	7.55	7.40	7.37
5. Raj 4083 (C)	2	6.90	7.70	7.35	7.32
6. NIAW 34 (C)	9	7.05	7.65	7.45	7.38
Mean		7.02	7.45	7.22	7.23
Rainfed, Timely Sown					
1. DBW 93	9	-	7.20	7.00	7.10
2. NIAW 1415 (C)	6	-	7.40	7.05	7.23
3. NI 5439 (C)	5	-	7.67	7.15	7.41
Mean		-	7.42	7.07	7.25
Restricted Irrigation, Timely Sown					
1. DBW 93	9	7.25	7.00	6.85	7.03
2. NIAW 1415 (C)	6	7.67	7.40	6.80	7.29
3. NI 5439 (C)	5	7.55	7.30	6.90	7.25
Mean		7.49	7.23	6.85	7.19

Table 24: Bread Quality (Max. Score 10) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington	Mean
Restricted Irrigation, Timely Sown			
1. HW 5224	8	6.62	6.62
2. CoW (W) 1 (C)	2	6.40	6.40
3. HW 2044 (C)	4	6.60	6.60
4. HW 5216 (I)	9	6.35	6.35
Mean		6.49	6.49

Table 25: Bread Loaf Volume (ml) / Dough Weight (g) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	3.25	3.22	3.34	3.27
2. VL 804 (C)	6	3.22	3.10	3.31	3.21
3. VL 907 (C)	2	3.25	3.22	3.28	3.25
4. HS 507 (C)	1	3.19	3.16	3.25	3.20
5. HPW 349 (I)	5	3.22	3.10	3.28	3.20
Mean		3.23	3.16	3.30	3.23
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	3.37	3.28	3.22	3.29
2. VL 804 (C)	6	3.28	3.19	3.16	3.21
3. VL 907 (C)	2	3.25	3.10	3.07	3.14
4. HS 507 (C)	1	3.22	3.13	3.04	3.13
5. HPW 349 (I)	5	3.37	3.22	3.16	3.25
Mean		3.30	3.19	3.13	3.21
Rainfed, Early Sown					
1. HS 542	2	3.19	3.04	3.10	3.11
2. HS 277 (C)	1	3.22	3.04	3.13	3.13
3. VL 829 (C)	7	3.16	3.01	3.10	3.09
4. HPW 251 (C)	5	3.25	2.96	3.07	3.09
Mean		3.21	3.01	3.10	3.11
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	3.10	2.96	3.04	3.03
2. HS 490 (C)	4	3.04	2.93	2.96	2.98
Mean		3.07	2.94	3.00	3.00

Table 26: Bread Loaf Volume (ml) / Dough Weight (g) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	3.34	3.37	3.31	3.40	3.43	3.37
2. HD 3086	8	3.37	3.31	3.37	3.37	3.43	3.37
3. DBW 17 (C)	14	3.40	3.28	3.37	3.34	3.40	3.36
4. DPW 621-50 (C)	10	3.34	3.40	3.43	3.37	3.37	3.39
5. HD 2967 (C)	13	3.28	3.43	3.40	3.37	3.43	3.39
6. WH 1105 (I)	11	3.34	3.43	3.43	3.40	3.37	3.40
Mean		3.35	3.37	3.39	3.38	3.41	3.38
Irrigated Late Sown							
1. DBW 90	17	3.34	3.37	3.31	3.43	3.28	3.35
2. WH 1124	10	3.37	3.43	3.40	3.46	3.31	3.40
3. HD 3091	5	3.40	3.46	3.43	3.40	3.34	3.41
4. PBW 373 (C)	8	3.34	3.40	3.43	3.46	3.31	3.39
5. PBW 590 (C)	7	3.37	3.40	3.34	3.43	3.34	3.38
6. WH 1021 (C)	16	3.40	3.43	3.46	3.40	3.31	3.40
7. DBW 71 (I)	4	3.34	3.40	3.46	3.46	3.28	3.39
8. HD 3059 (I)	15	3.46	3.43	3.40	3.46	3.34	3.42
Mean		3.38	3.42	3.41	3.44	3.32	3.39
Rainfed, Timely Sown							
1. PBW 660	17	3.40	-	3.46	3.31	3.22	3.35
2. DBW 74	5	3.43	-	3.43	3.22	3.28	3.34
3. WH 1098	8	3.40	-	3.46	3.22	3.19	3.32
4. PBW 674	2	3.37	-	3.49	3.25	3.22	3.34
5. PBW 675	1	3.43	-	3.46	3.28	3.19	3.34
6. WH 1126	10	3.37	-	3.43	3.22	3.25	3.32
7. WH 1127	20	3.46	-	3.52	3.28	3.22	3.37
8. C 306 (C)	15	3.10	-	3.16	2.81	2.87	2.99
9. PBW 175 (C)	18	3.04	-	3.13	2.84	2.81	2.96
10. PBW 644 (C)	7	3.34	-	3.40	3.19	3.25	3.30
11. WH 1080 (C)	13	3.40	-	3.49	3.37	3.25	3.38
Mean		3.34	-	3.41	3.18	3.16	3.27
Restricted Irrigation Timely Sown							
1. HD 3070	14	3.34	-	3.43	3.28	3.22	3.32
2. DBW 74	2	3.40	-	3.43	3.22	3.19	3.31
3. PBW 660	3	3.34	-	3.43	3.40	3.31	3.37
4. C 306 (C)	1	3.10	-	3.19	3.04	2.93	3.07
5. PBW 175 (C)	5	3.04	-	3.10	3.01	2.96	3.03
6. WH 1080 (C)	9	3.34	-	3.40	3.37	3.22	3.34
7. HD 3043 (C)	8	3.28	-	3.37	3.28	3.22	3.29
Mean		3.27	-	3.34	3.23	3.15	3.25

Table 27: Bread Loaf Volume (ml) / Dough Weight (g) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	3.31	3.43	3.22	3.32
2. K 1006	3	3.34	3.46	3.37	3.39
3. WH 1120	14	3.31	3.40	3.28	3.33
4. HD 3076	11	3.34	3.43	3.31	3.36
5. PBW 661	10	3.37	3.40	3.34	3.37
6. K 0307 (C)	7	3.34	3.43	3.37	3.38
7. DBW 39 (C)	8	3.37	3.43	3.40	3.40
8. HD 2733 (C)	1	3.34	3.43	3.43	3.40
9. Raj 4229 (I)	9	3.37	3.46	3.37	3.40
Mean		3.35	3.43	3.35	3.38
Irrigated, Late Sown					
1. Raj 4250	5	3.31	3.43	3.40	3.38
2. NW 2036 (C)	7	3.37	3.46	3.49	3.44
3. DBW 14 (C)	8	3.28	3.43	3.37	3.36
4. HD 2985 (C)	1	3.31	3.40	3.37	3.36
5. HI 1563 (C)	4	3.31	3.43	3.40	3.38
Mean		3.32	3.43	3.41	3.39
Rainfed, Timely Sown					
1. WH 1127	5	3.16	3.25	3.19	3.20
2. C 306 (C)	7	2.81	3.10	2.90	2.94
3. K 8027 (C)	1	2.78	3.04	2.93	2.92
4. HD 2888 (C)	3	2.87	3.07	2.93	2.96
Mean		2.90	3.12	2.99	3.00

Table 28: Bread Loaf Volume (ml) / Dough Weight (g) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	3.13	2.96	3.16	3.04	2.93	3.04
2. HI 1544 (C)	2	3.10	3.16	3.22	3.10	3.07	3.13
Mean		3.12	3.06	3.19	3.07	3.00	3.09
Irrigated, Late Sown							
1. HD 3095	3	3.22	3.16	3.28	3.25	3.31	3.25
2. HD 2932 (C)	6	3.28	3.31	3.37	3.25	3.40	3.33
3. HD 2864 (C)	8	3.31	3.28	3.40	3.28	3.34	3.33
4. MP 4010 (C)	5	3.34	3.28	3.37	3.34	3.37	3.34
5. Raj 4238 (I)	7	3.22	3.16	3.34	3.19	3.37	3.26
6. MP 3336 (I)	1	3.25	3.28	3.31	3.25	3.19	3.26
Mean		3.27	3.25	3.35	3.26	3.33	3.29
Rainfed, Timely Sown							
1. HI 1500 (C)	5	3.22	3.13	-	-	-	3.18
2. MP 3288 (C)	6	3.37	3.22	-	-	-	3.30
Mean		3.30	3.18	-	-	-	3.24
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	3.28	3.16	-	-	-	3.22
2. MP 3288 (C)	6	3.34	3.28	-	-	-	3.31
Mean		3.31	3.22	-	-	-	3.27

Table 29: Bread Loaf Volume (ml) / Dough Weight (g) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	3.34	3.40	3.43	3.39
2. UAS 334	8	3.37	3.40	3.37	3.38
3. GW 322 (C)	12	3.34	3.40	3.31	3.35
4. MACS 6222 (C)	1	3.46	3.49	3.43	3.46
Mean		3.38	3.43	3.39	3.40
Irrigated, Late Sown					
1. HD 3090	7	3.43	3.46	3.40	3.43
2. HD 3093	15	3.34	3.43	3.40	3.39
3. GW 432	11	3.40	3.49	3.40	3.43
4. HD 2932 (C)	12	3.43	3.52	3.49	3.48
5. Raj 4083 (C)	2	3.37	3.55	3.46	3.46
6. NIAW 34 (C)	9	3.43	3.55	3.49	3.49
Mean		3.40	3.50	3.44	3.45
Rainfed, Timely Sown					
1. DBW 93	9	-	3.46	3.43	3.45
2. NIAW 1415 (C)	6	-	3.52	3.43	3.48
3. NI 5439 (C)	5	-	3.58	3.46	3.52
Mean		-	3.52	3.44	3.48
Restricted Irrigation, Timely Sown					
1. DBW 93	9	3.49	3.43	3.40	3.44
2. NIAW 1415 (C)	6	3.58	3.52	3.40	3.50
3. NI 5439 (C)	5	3.55	3.49	3.40	3.48
Mean		3.54	3.48	3.40	3.48

Table 30: Bread Loaf Volume (ml) / Dough Weight (g) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington	Mean
Restricted Irrigation, Timely Sown			
1. HW 5224	8	3.22	3.22
2. CoW (W) 1 (C)	2	3.25	3.25
3. HW 2044 (C)	4	3.31	3.31
4. HW 5216 (I)	9	3.22	3.22
Mean		3.25	3.25

Table 31: Extraction Rate (%) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	65.8	66.8	64.7	65.8
2. VL 804 (C)	6	66.7	64.5	62.1	64.4
3. VL 907 (C)	2	64.3	65.1	60.6	63.3
4. HS 507 (C)	1	65.7	63.8	64.6	64.7
5. HPW 349 (I)	5	65.5	63.6	66.2	65.1
Mean		65.6	64.8	63.6	64.7
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	64.6	65.1	66.7	65.5
2. VL 804 (C)	6	64.8	63.1	64.3	64.1
3. VL 907 (C)	2	64.2	62.5	61.8	62.8
4. HS 507 (C)	1	63.5	63.6	63.8	63.6
5. HPW 349 (I)	5	65.6	62.3	63.8	63.9
Mean		64.5	63.3	64.1	64.0
Rainfed, Early Sown					
1. HS 542	2	65.7	62.5	63.6	63.9
2. HS 277 (C)	1	64.2	61.3	65.1	63.5
3. VL 829 (C)	7	65.3	62.2	63.5	63.7
4. HPW 251 (C)	5	64.8	61.5	62.6	63.0
Mean		65.0	61.9	63.7	63.5
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	64.5	63.1	62.5	63.4
2. HS 490 (C)	4	61.5	60.6	61.1	61.1
Mean		63.0	61.9	61.8	62.2

Table 32: Extraction Rate (%) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	70.2	72.6	71.1	70.0	68.9	70.6
2. HD 3086	8	70.0	72.2	71.5	70.3	68.6	70.5
3. DBW 17 (C)	14	69.2	72.0	69.6	69.9	69.6	70.1
4. DPW 621-50 (C)	10	70.2	72.4	71.8	72.1	69.8	71.3
5. HD 2967 (C)	13	69.9	72.5	72.1	72.6	68.6	71.1
6. WH 1105 (I)	11	68.9	70.6	68.1	70.2	68.2	69.2
Mean		69.7	72.1	70.7	70.9	69.0	70.5
Irrigated Late Sown							
1. DBW 90	17	71.2	72.6	71.8	72.1	68.6	71.3
2. WH 1124	10	68.8	72.2	69.1	72.5	71.8	70.9
3. HD 3091	5	71.3	72.8	72.3	72.5	71.6	72.1
4. PBW 373 (C)	8	70.8	71.8	70.2	72.6	69.3	70.9
5. PBW 590 (C)	7	68.5	73.1	71.8	70.6	70.2	70.8
6. WH 1021 (C)	16	70.5	69.6	72.1	70.2	68.8	70.2
7. DBW 71 (I)	4	68.1	72.5	69.1	72.3	68.6	70.1
8. HD 3059 (I)	15	70.8	69.2	69.6	71.3	69.2	70.0
Mean		70.0	71.7	70.8	71.8	69.8	70.8
Rainfed, Timely Sown							
1. PBW 660	17	68.5	-	69.1	71.2	69.5	69.6
2. DBW 74	5	69.1	-	72.6	68.1	69.2	69.8
3. WH 1098	8	69.8	-	68.1	67.8	68.1	68.5
4. PBW 674	2	68.2	-	69.5	67.2	68.5	68.4
5. PBW 675	1	68.5	-	68.8	69.2	69.6	69.0
6. WH 1126	10	69.2	-	69.9	68.6	71.6	69.8
7. WH 1127	20	72.1	-	71.8	72.5	71.5	72.0
8. C 306 (C)	15	72.5	-	70.6	73.2	73.5	72.5
9. PBW 175 (C)	18	68.8	-	72.5	69.3	68.5	69.8
10. PBW 644 (C)	7	71.6	-	71.3	70.3	70.8	71.0
11. WH 1080 (C)	13	70.3	-	72.1	69.3	71.5	70.8
Mean		69.9	-	70.6	69.7	70.2	70.1
Restricted Irrigation Timely Sown							
1. HD 3070	14	73.6	-	73.2	73.8	69.7	72.6
2. DBW 74	2	69.9	-	70.1	68.5	70.6	69.8
3. PBW 660	3	69.5	-	71.6	72.2	68.8	70.5
4. C 306 (C)	1	72.8	-	71.6	72.2	72.5	72.3
5. PBW 175 (C)	5	71.6	-	70.2	70.8	69.9	70.6
6. WH 1080 (C)	9	69.6	-	68.8	69.2	68.6	69.1
7. HD 3043 (C)	8	72.5	-	69.6	71.2	70.8	71.0
Mean		71.4	-	70.7	71.1	70.1	70.8

Table 33: Extraction Rate (%) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	66.7	67.1	66.8	66.9
2. K 1006	3	67.2	68.6	68.1	68.0
3. WH 1120	14	67.8	67.2	66.8	67.3
4. HD 3076	11	66.8	68.1	67.3	67.4
5. PBW 661	10	66.5	67.9	67.3	67.2
6. K 0307 (C)	7	69.3	68.8	68.1	68.7
7. DBW 39 (C)	8	69.2	69.4	67.8	68.8
8. HD 2733 (C)	1	69.5	68.7	67.6	68.6
9. Raj 4229 (I)	9	67.2	69.6	68.5	68.4
Mean		67.8	68.4	67.6	67.9
Irrigated, Late Sown					
1. Raj 4250	5	69.1	69.8	67.8	68.9
2. NW 2036 (C)	7	68.2	70.1	67.5	68.6
3. DBW 14 (C)	8	67.8	68.2	66.8	67.6
4. HD 2985 (C)	1	69.1	68.2	67.1	68.1
5. HI 1563 (C)	4	68.8	69.3	67.5	68.5
Mean		68.6	69.1	67.3	68.4
Rainfed, Timely Sown					
1. WH 1127	5	67.8	69.8	70.2	69.3
2. C 306 (C)	7	69.3	70.1	71.6	70.3
3. K 8027 (C)	1	68.6	71.2	70.6	70.1
4. HD 2888 (C)	3	69.5	70.1	72.1	70.6
Mean		68.8	70.3	71.1	70.1

Table 34: Extraction Rate (%) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	72.3	69.7	69.1	68.1	72.1	70.3
2. HI 1544 (C)	2	71.6	69.5	69.9	68.3	71.8	70.2
Mean		72.0	69.6	69.5	68.2	72.0	70.2
Irrigated, Late Sown							
1. HD 3095	3	67.2	69.1	69.8	67.1	70.1	68.7
2. HD 2932 (C)	6	66.5	67.9	67.6	68.1	69.3	67.9
3. HD 2864 (C)	8	67.1	68.5	70.2	66.9	69.9	68.5
4. MP 4010 (C)	5	66.1	67.8	69.9	67.2	70.3	68.3
5. Raj 4238 (I)	7	67.3	68.6	68.4	67.9	70.1	68.5
6. MP 3336 (I)	1	67.6	69.1	68.6	68.1	70.3	68.7
Mean		67.0	68.5	69.1	67.6	70.0	68.4
Rainfed, Timely Sown							
1. HI 1500 (C)	5	70.5	69.9	-	-	-	70.2
2.. MP 3288 (C)	6	72.2	70.6	-	-	-	71.4
Mean		71.4	70.3	-	-	-	70.8
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	69.6	70.1	-	-	-	69.9
2. MP 3288 (C)	6	70.1	69.9	-	-	-	70.0
Mean		69.9	70.0	-	-	-	69.9

Table 35: Extraction Rate (%) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	69.8	68.1	72.2	70.0
2. UAS 334	8	69.1	68.8	71.8	69.9
3. GW 322 (C)	12	69.9	70.2	72.5	70.9
4. MACS 6222 (C)	1	69.3	68.8	72.8	70.3
Mean		69.5	69.0	72.3	70.3
Irrigated, Late Sown					
1. HD 3090	7	69.3	67.8	70.1	69.1
2. HD 3093	15	70.2	71.8	69.6	70.5
3. GW 432	11	69.3	68.5	69.1	69.0
4. HD 2932 (C)	12	68.1	68.6	70.2	69.0
5. Raj 4083 (C)	2	72.1	70.6	71.3	71.3
6. NIAW 34 (C)	9	69.3	68.6	69.8	69.2
Mean		69.7	69.3	70.0	69.7
Rainfed, Timely Sown					
1. DBW 93	9	-	69.9	73.6	71.8
2. NIAW 1415 (C)	6	-	70.5	73.6	72.1
3. NI 5439 (C)	5	-	69.6	70.0	69.8
Mean		-	70.0	72.4	71.2
Restricted Irrigation, Timely Sown					
1. DBW 93	9	70.5	72.6	71.5	71.5
2. NIAW 1415 (C)	6	71.2	72.5	73.8	72.5
3. NI 5439 (C)	5	69.8	68.2	70.1	69.4
Mean		70.5	71.1	71.8	71.1

Table 36: Extraction Rate (%) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington (ITS)	Wellington (LS)	Ooty	Kotagiri	Kodai Kanal	Mean
Restricted Irrigation, Timely Sown							
1. HW 5224	8	69.2	70.1	72.5	68.3	68.1	69.6
2. CoW (W) 1 (C)	2	69.3	71.5	72.6	71.8	72.5	71.5
3. HW 2044 (C)	4	69.8	70.6	72.8	71.6	70.5	71.1
4. HW 5216 (I)	9	68.6	69.1	72.8	68.8	69.3	69.7
Mean		69.2	70.3	72.7	70.1	70.1	70.5

Table 37: Wet Gluten (%) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	19.7	17.9	29.8	22.5
2. VL 804 (C)	6	24.1	20.0	31.8	25.3
3. VL 907 (C)	2	23.3	25.5	30.9	26.6
4. HS 507 (C)	1	23.1	22.9	26.0	24.0
5. HPW 349 (I)	5	24.0	16.0	26.0	22.0
Mean		22.8	20.5	28.9	24.1
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	23.1	15.6	15.1	17.9
2. VL 804 (C)	6	27.7	14.2	14.9	18.9
3. VL 907 (C)	2	31.1	14.3	14.9	20.1
4. HS 507 (C)	1	30.9	17.4	14.0	20.8
5. HPW 349 (I)	5	27.0	19.0	17.2	21.1
Mean		28.0	16.1	15.2	19.8
Rainfed, Early Sown					
1. HS 542	2	28.2	22.9	19.8	23.6
2. HS 277 (C)	1	33.5	8.1	19.0	20.2
3. VL 829 (C)	7	34.7	10.0	19.0	21.2
4. HPW 251 (C)	5	33.8	12.9	21.5	22.7
Mean		32.6	13.5	19.8	22.0
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	28.5	21.5	21.5	23.8
2. HS 490 (C)	4	24.8	17.7	17.9	20.1
Mean		26.7	19.6	19.7	22.0

Table 38: Wet Gluten (%) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	28.1	26.7	35.1	31.2	34.5	31.1
2. HD 3086	8	29.6	25.7	34.1	32.2	34.8	31.3
3. DBW 17 (C)	14	30.2	25.0	30.3	29.6	33.9	29.8
4. DPW 621-50 (C)	10	27.7	28.9	32.1	29.6	28.3	29.3
5. HD 2967 (C)	13	26.7	26.4	29.0	31.7	38.7	30.5
6. WH 1105 (I)	11	27.3	28.1	29.6	31.4	29.9	29.3
Mean		28.3	26.8	31.7	31.0	33.4	30.2
Irrigated Late Sown							
1. DBW 90	17	31.6	28.0	29.3	33.1	26.4	29.7
2. WH 1124	10	28.1	30.0	30.3	32.6	25.9	29.4
3. HD 3091	5	30.2	29.7	30.3	28.7	23.6	28.5
4. PBW 373 (C)	8	27.8	32.9	32.0	22.9	22.9	27.7
5. PBW 590 (C)	7	30.0	28.3	34.6	28.1	26.6	29.5
6. WH 1021 (C)	16	34.9	36.2	32.6	33.9	26.2	32.8
7. DBW 71 (I)	4	29.3	29.2	28.0	31.2	27.5	29.0
8. HD 3059 (I)	15	30.0	28.2	34.8	31.7	26.2	30.2
Mean		30.2	30.3	31.5	30.3	25.7	29.6
Rainfed, Timely Sown							
1. PBW 660	17	30.4	-	36.1	20.6	25.7	28.2
2. DBW 74	5	31.5	-	39.0	20.8	23.0	28.6
3. WH 1098	8	28.1	-	35.8	21.2	20.0	26.3
4. PBW 674	2	30.1	-	39.2	24.6	24.6	29.6
5. PBW 675	1	36.0	-	39.3	27.2	22.9	31.4
6. WH 1126	10	28.5	-	42.7	21.0	20.0	28.1
7. WH 1127	20	36.9	-	35.1	20.1	20.6	28.2
8. C 306 (C)	15	31.1	-	42.5	22.7	23.5	30.0
9. PBW 175 (C)	18	30.3	-	36.1	23.3	20.6	27.6
10. PBW 644 (C)	7	35.7	-	35.5	23.7	26.3	30.3
11. WH 1080 (C)	13	27.5	-	39.8	25.0	22.3	28.7
Mean		31.5	-	38.3	22.7	22.7	28.8
Restricted Irrigation Timely Sown							
1. HD 3070	14	27.4	-	32.5	24.8	21.0	26.4
2. DBW 74	2	30.9	-	36.8	25.0	24.3	29.3
3. PBW 660	3	28.9	-	32.2	26.6	24.9	28.2
4. C 306 (C)	1	28.6	-	30.2	27.5	22.7	27.3
5. PBW 175 (C)	5	33.9	-	37.9	28.8	28.6	32.3
6. WH 1080 (C)	9	30.6	-	32.9	28.2	24.0	28.9
7. HD 3043 (C)	8	28.9	-	33.4	28.7	24.8	29.0
Mean		29.9	-	33.7	27.1	24.3	28.8

Table 39: Wet Gluten (%) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	26.5	33.1	21.0	26.9
2. K 1006	3	31.6	35.9	29.4	32.3
3. WH 1120	14	29.4	33.6	23.9	29.0
4. HD 3076	11	26.3	32.2	25.8	28.1
5. PBW 661	10	28.0	34.8	22.9	28.6
6. K 0307 (C)	7	25.7	34.9	25.4	28.7
7. DBW 39 (C)	8	30.4	31.4	27.7	29.8
8. HD 2733 (C)	1	27.3	36.1	28.2	30.5
9. Raj 4229 (I)	9	28.8	35.1	33.7	32.5
Mean		28.2	34.1	26.4	29.6
Irrigated, Late Sown					
1. Raj 4250	5	24.7	29.7	30.1	28.2
2. NW 2036 (C)	7	26.0	30.2	27.6	27.9
3. DBW 14 (C)	8	24.5	34.0	27.2	28.6
4. HD 2985 (C)	1	27.1	32.4	30.7	30.1
5. HI 1563 (C)	4	25.1	34.0	28.6	29.2
Mean		25.5	32.1	28.8	28.8
Rainfed, Timely Sown					
1. WH 1127	5	21.4	28.6	21.6	23.9
2. C 306 (C)	7	24.3	37.8	25.4	29.2
3. K 8027 (C)	1	20.7	36.2	25.7	27.5
4. HD 2888 (C)	3	25.6	34.8	23.2	27.9
Mean		23.0	34.4	24.0	27.1

Table 40: Wet Gluten (%) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	30.2	28.1	29.9	28.7	26.5	28.7
2. HI 1544 (C)	2	29.0	31.8	39.7	33.3	31.2	33.0
Mean		29.6	30.0	34.8	31.0	28.9	30.8
Irrigated, Late Sown							
1. HD 3095	3	26.1	28.9	34.4	32.7	36.7	31.8
2. HD 2932 (C)	6	29.7	29.9	38.0	33.1	34.1	33.0
3. HD 2864 (C)	8	28.0	28.6	33.2	29.3	30.9	30.0
4. MP 4010 (C)	5	27.0	29.9	38.4	30.9	37.5	32.7
5. Raj 4238 (I)	7	27.7	27.0	32.2	28.9	32.7	29.7
6. MP 3336 (I)	1	30.1	28.3	36.4	34.9	32.8	32.5
Mean		28.1	28.8	35.4	31.6	34.1	31.6
Rainfed, Timely Sown							
1. HI 1500 (C)	5	27.1	22.0	-	-	-	24.6
2. MP 3288 (C)	6	32.0	26.6	-	-	-	29.3
Mean		29.6	24.3	-	-	-	26.9
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	28.3	30.5	-	-	-	29.4
2. MP 3288 (C)	6	26.9	28.1	-	-	-	27.5
Mean		27.6	29.3	-	-	-	28.5

Table 41: Wet Gluten (%) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	31.7	32.5	36.3	33.5
2. UAS 334	8	35.2	33.2	27.9	32.1
3. GW 322 (C)	12	33.0	34.3	27.2	31.5
4. MACS 6222 (C)	1	38.9	35.0	35.0	36.3
Mean		34.7	33.8	31.6	33.4
Irrigated, Late Sown					
1. HD 3090	7	25.7	31.4	30.0	29.0
2. HD 3093	15	26.0	33.6	26.6	28.7
3. GW 432	11	29.3	36.2	27.4	31.0
4. HD 2932 (C)	12	29.0	35.5	30.9	31.8
5. Raj 4083 (C)	2	26.7	42.2	28.3	32.4
6. NIAW 34 (C)	9	32.5	39.2	35.5	35.7
Mean		28.2	36.4	29.8	31.4
Rainfed, Timely Sown					
1. DBW 93	9	-	45.4	33.3	39.4
2. NIAW 1415 (C)	6	-	37.7	32.2	35.0
3. NI 5439 (C)	5	-	34.6	27.3	31.0
Mean		-	39.2	30.9	35.1
Restricted Irrigation, Timely Sown					
1. DBW 93	9	42.7	36.9	28.6	36.1
2. NIAW 1415 (C)	6	43.0	42.0	26.8	37.3
3. NI 5439 (C)	5	42.6	43.6	28.2	38.1
Mean		42.8	40.8	27.9	37.2

Table 42: Wet Gluten (%) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington (ITS)	Wellington (LS)	Ooty	Kotagiri	Kodai Kanal	Mean
Restricted Irrigation, Timely Sown							
1. HW 5224	8	30.0	32.3	26.5	33.5	36.3	31.7
2. CoW (W) 1 (C)	2	30.3	31.9	29.6	28.3	35.2	31.1
3. HW 2044 (C)	4	34.7	33.6	30.4	30.2	37.6	33.3
4. HW 5216 (I)	9	32.3	33.2	29.2	29.1	37.1	32.2
Mean		31.8	32.8	28.9	30.3	36.6	32.1

Table 43: Dry Gluten (%) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	8.3	8.1	10.9	9.1
2. VL 804 (C)	6	8.6	6.0	11.9	8.8
3. VL 907 (C)	2	8.9	9.2	11.5	9.9
4. HS 507 (C)	1	8.3	8.1	11.0	9.1
5. HPW 349 (I)	5	9.0	5.9	10.8	8.6
Mean		8.6	7.5	11.2	9.1
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	8.4	6.1	6.7	7.1
2. VL 804 (C)	6	10.7	5.2	5.9	7.3
3. VL 907 (C)	2	10.8	6.9	6.9	8.2
4. HS 507 (C)	1	10.5	6.6	6.5	7.9
5. HPW 349 (I)	5	10.1	6.3	6.7	7.7
Mean		10.1	6.2	6.5	7.6
Rainfed, Early Sown					
1. HS 542	2	10.4	8.9	8.1	9.1
2. HS 277 (C)	1	11.9	5.7	7.9	8.5
3. VL 829 (C)	7	10.4	5.9	8.4	8.2
4. HPW 251 (C)	5	11.8	6.0	8.2	8.7
Mean		11.1	6.6	8.2	8.6
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	8.8	8.1	7.4	8.1
2. HS 490 (C)	4	9.1	8.6	8.1	8.6
Mean		9.0	8.4	7.8	8.4

Table 44: Dry Gluten (%) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	10.4	10.1	11.2	11.5	11.9	11.0
2. HD 3086	8	10.1	8.9	11.3	10.8	11.8	10.6
3. DBW 17 (C)	14	11.2	9.2	10.9	10.6	11.1	10.6
4. DPW 621-50 (C)	10	9.7	11.1	11.6	10.8	12.3	11.1
5. HD 2967 (C)	13	8.8	9.6	11.2	11.1	11.8	10.5
6. WH 1105 (I)	11	9.9	11.3	10.8	11.6	11.3	11.0
Mean		10.0	10.0	11.2	11.1	11.7	10.8
Irrigated Late Sown							
1. DBW 90	17	10.7	10.8	9.9	11.9	8.3	10.3
2. WH 1124	10	10.1	11.1	10.2	11.5	7.9	10.2
3. HD 3091	5	10.2	11.1	11.6	10.2	9.0	10.4
4. PBW 373 (C)	8	9.9	11.4	10.3	11.3	7.8	10.1
5. PBW 590 (C)	7	11.2	10.5	10.5	11.5	9.2	10.6
6. WH 1021 (C)	16	11.1	11.6	11.9	12.2	9.3	11.2
7. DBW 71 (I)	4	10.4	10.1	11.3	11.2	9.1	10.4
8. HD 3059 (I)	15	10.5	11.2	10.6	12.1	9.7	10.8
Mean		10.5	11.0	10.8	11.5	8.8	10.5
Rainfed, Timely Sown							
1. PBW 660	17	10.9	-	12.4	8.7	9.1	10.3
2. DBW 74	5	10.2	-	12.9	7.5	7.7	9.6
3. WH 1098	8	9.9	-	12.1	7.9	6.9	9.2
4. PBW 674	2	9.6	-	12.0	8.9	7.9	9.6
5. PBW 675	1	10.3	-	11.9	8.7	7.3	9.6
6. WH 1126	10	9.1	-	13.1	7.6	8.4	9.6
7. WH 1127	20	9.9	-	12.7	7.4	7.0	9.3
8. C 306 (C)	15	10.1	-	12.5	6.8	7.7	9.3
9. PBW 175 (C)	18	9.1	-	12.1	8.1	7.3	9.2
10. PBW 644 (C)	7	10.3	-	11.7	7.6	8.6	9.6
11. WH 1080 (C)	13	10.6	-	11.9	9.6	7.9	10.0
Mean		10.0	-	12.3	8.1	7.8	9.5
Restricted Irrigation Timely Sown							
1. HD 3070	14	10.2	-	11.2	9.1	7.9	9.6
2. DBW 74	2	11.1	-	12.2	7.8	7.2	9.6
3. PBW 660	3	10.2	-	12.1	10.9	9.1	10.6
4. C 306 (C)	1	9.0	-	12.3	9.3	8.9	9.9
5. PBW 175 (C)	5	10.1	-	13.1	9.1	8.2	10.1
6. WH 1080 (C)	9	11.2	-	13.0	11.9	8.9	11.3
7. HD 3043 (C)	8	10.3	-	12.8	9.1	9.0	10.3
Mean		10.3	-	12.4	9.6	8.5	10.2

Table 45: Dry Gluten (%) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	9.0	11.0	8.1	9.4
2. K 1006	3	9.3	12.1	10.1	10.5
3. WH 1120	14	9.5	11.4	9.5	10.1
4. HD 3076	11	8.9	10.9	8.2	9.3
5. PBW 661	10	9.3	11.1	9.7	10.0
6. K 0307 (C)	7	9.2	11.0	9.7	10.0
7. DBW 39 (C)	8	10.1	11.1	10.9	10.7
8. HD 2733 (C)	1	9.1	11.4	11.1	10.5
9. Raj 4229 (I)	9	9.4	10.8	10.4	10.2
Mean		9.3	11.2	9.7	10.1
Irrigated, Late Sown					
1. Raj 4250	5	9.3	10.6	10.4	10.1
2. NW 2036 (C)	7	8.4	11.0	11.3	10.2
3. DBW 14 (C)	8	8.8	12.0	10.5	10.4
4. HD 2985 (C)	1	8.7	11.0	9.7	9.8
5. HI 1563 (C)	4	8.6	11.1	10.6	10.1
Mean		8.8	11.1	10.5	10.1
Rainfed, Timely Sown					
1. WH 1127	5	7.8	9.3	9.0	8.7
2. C 306 (C)	7	7.7	11.9	9.2	9.6
3. K 8027 (C)	1	7.9	12.4	8.8	9.7
4. HD 2888 (C)	3	8.0	12.0	8.9	9.6
Mean		7.9	11.4	9.0	9.4

Table 46: Dry Gluten (%) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	10.3	8.7	11.5	10.1	9.1	9.9
2. HI 1544 (C)	2	9.2	10.1	12.3	10.4	10.1	10.4
Mean		9.8	9.4	11.9	10.3	9.6	10.2
Irrigated, Late Sown							
1. HD 3095	3	11.1	9.4	12.9	10.1	12.9	11.3
2. HD 2932 (C)	6	10.2	10.1	13.0	9.6	11.5	10.9
3. HD 2864 (C)	8	9.9	9.6	12.4	9.6	11.2	10.5
4. MP 4010 (C)	5	10.0	9.7	12.8	10.0	12.1	10.9
5. Raj 4238 (I)	7	9.3	8.8	11.9	8.8	11.0	10.0
6. MP 3336 (I)	1	9.6	11.0	12.5	11.3	10.7	11.0
Mean		10.0	9.8	12.6	9.9	11.6	10.8
Rainfed, Timely Sown							
1. HI 1500 (C)	5	8.0	6.4	-	-	-	7.2
2. MP 3288 (C)	6	9.8	7.3	-	-	-	8.6
Mean		8.9	6.9	-	-	-	7.9
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	11.2	11.0	-	-	-	11.1
2. MP 3288 (C)	6	9.4	8.8	-	-	-	9.1
Mean		10.3	9.9	-	-	-	10.1

Table 47: Dry Gluten (%) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	10.3	11.0	11.6	11.0
2. UAS 334	8	10.3	10.4	10.0	10.2
3. GW 322 (C)	12	8.9	11.0	9.3	9.7
4. MACS 6222 (C)	1	11.9	11.4	11.0	11.4
Mean		10.4	11.0	10.5	10.6
Irrigated, Late Sown					
1. HD 3090	7	9.0	12.2	10.3	10.5
2. HD 3093	15	8.4	11.4	10.1	10.0
3. GW 432	11	9.3	12.4	8.8	10.2
4. HD 2932 (C)	12	9.1	12.7	10.2	10.7
5. Raj 4083 (C)	2	8.3	12.2	9.6	10.0
6. NIAW 34 (C)	9	10.6	12.8	10.5	11.3
Mean		9.1	12.3	9.9	10.4
Rainfed, Timely Sown					
1. DBW 93	9	-	12.9	11.9	12.4
2. NIAW 1415 (C)	6	-	12.0	9.7	10.9
3. NI 5439 (C)	5	-	12.6	9.3	11.0
Mean		-	12.5	10.3	11.4
Restricted Irrigation, Timely Sown					
1. DBW 93	9	12.9	11.8	9.5	11.4
2. NIAW 1415 (C)	6	12.7	11.4	8.9	11.0
3. NI 5439 (C)	5	13.0	12.0	9.4	11.5
Mean		12.9	11.7	9.3	11.3

Table 48: Dry Gluten (%) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington (ITS)	Wellington (LS)	Ooty	Kotagiri	Kodai Kanal	Mean
Restricted Irrigation, Timely Sown							
1. HW 5224	8	8.9	10.9	9.4	11.0	11.9	10.4
2. CoW (W) 1 (C)	2	9.4	11.0	10.0	9.1	11.8	10.3
3. HW 2044 (C)	4	11.9	11.9	11.3	10.0	12.2	11.5
4. HW 5216 (I)	9	11.9	11.5	9.6	9.6	12.0	10.9
Mean		10.5	11.3	10.1	9.9	12.0	10.8

Table 49: Gluten Index (%) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	94	84	71	83
2. VL 804 (C)	6	56	61	58	58
3. VL 907 (C)	2	49	40	57	49
4. HS 507 (C)	1	62	47	64	58
5. HPW 349 (I)	5	67	74	73	71
Mean		66	61	65	64
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	77	92	80	83
2. VL 804 (C)	6	56	60	75	64
3. VL 907 (C)	2	41	65	51	52
4. HS 507 (C)	1	47	56	66	56
5. HPW 349 (I)	5	73	66	78	72
Mean		59	68	70	66
Rainfed, Early Sown					
1. HS 542	2	69	64	51	61
2. HS 277 (C)	1	43	63	41	49
3. VL 829 (C)	7	62	66	54	61
4. HPW 251 (C)	5	53	70	68	64
Mean		57	66	54	59
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	37	39	41	39
2. HS 490 (C)	4	42	61	58	54
Mean		40	50	50	46

Table 50: Gluten Index (%) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	80	82	71	62	55	70
2. HD 3086	8	61	80	70	72	52	67
3. DBW 17 (C)	14	52	46	61	50	40	50
4. DPW 621-50 (C)	10	69	81	73	82	75	76
5. HD 2967 (C)	13	56	76	70	55	44	60
6. WH 1105 (I)	11	79	88	60	55	80	72
Mean		66	76	68	63	58	66
Irrigated Late Sown							
1. DBW 90	17	63	75	61	57	63	64
2. WH 1124	10	65	70	67	50	55	61
3. HD 3091	5	67	85	81	74	72	76
4. PBW 373 (C)	8	46	52	56	51	66	54
5. PBW 590 (C)	7	78	43	54	47	45	53
6. WH 1021 (C)	16	36	41	51	45	37	42
7. DBW 71 (I)	4	60	49	56	49	34	50
8. HD 3059 (I)	15	40	55	58	64	50	53
Mean		57	59	61	55	53	57
Rainfed, Timely Sown							
1. PBW 660	17	47	-	46	52	64	52
2. DBW 74	5	76	-	64	57	70	67
3. WH 1098	8	67	-	70	76	87	75
4. PBW 674	2	54	-	68	75	62	65
5. PBW 675	1	57	-	40	42	55	49
6. WH 1126	10	53	-	44	64	57	55
7. WH 1127	20	82	-	95	86	79	86
8. C 306 (C)	15	46	-	54	49	58	52
9. PBW 175 (C)	18	41	-	61	54	42	50
10. PBW 644 (C)	7	50	-	61	60	53	56
11. WH 1080 (C)	13	74	-	81	82	73	78
Mean		59	-	62	63	64	62
Restricted Irrigation Timely Sown							
1. HD 3070	14	91	-	78	60	71	75
2. DBW 74	2	68	-	56	67	74	66
3. PBW 660	3	57	-	67	55	42	55
4. C 306 (C)	1	63	-	72	45	52	58
5. PBW 175 (C)	5	51	-	48	53	59	53
6. WH 1080 (C)	9	63	-	76	64	81	71
7. HD 3043 (C)	8	61	-	63	73	52	62
Mean		65	-	66	60	62	63

Table 51: Gluten Index (%) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	44	36	51	44
2. K 1006	3	41	57	43	47
3. WH 1120	14	65	67	75	69
4. HD 3076	11	43	53	68	55
5. PBW 661	10	55	56	61	57
6. K 0307 (C)	7	49	58	48	52
7. DBW 39 (C)	8	54	61	60	58
8. HD 2733 (C)	1	48	46	54	49
9. Raj 4229 (I)	9	38	42	49	43
Mean		49	53	57	53
Irrigated, Late Sown					
1. Raj 4250	5	53	47	41	47
2. NW 2036 (C)	7	55	79	63	66
3. DBW 14 (C)	8	64	57	57	59
4. HD 2985 (C)	1	58	63	54	58
5. HI 1563 (C)	4	58	53	55	55
Mean		58	60	54	57
Rainfed, Timely Sown					
1. WH 1127	5	80	89	77	82
2. C 306 (C)	7	42	51	39	44
3. K 8027 (C)	1	54	55	40	50
4. HD 2888 (C)	3	45	52	60	52
Mean		55	62	54	57

Table 52: Gluten Index (%) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	40	52	49	42	53	47
2. HI 1544 (C)	2	50	49	50	47	41	47
Mean		45	51	50	45	47	47
Irrigated, Late Sown							
1. HD 3095	3	65	57	56	42	48	54
2. HD 2932 (C)	6	49	58	39	43	60	50
3. HD 2864 (C)	8	65	65	53	57	54	59
4. MP 4010 (C)	5	34	44	54	49	61	48
5. Raj 4238 (I)	7	35	55	35	47	40	42
6. MP 3336 (I)	1	41	36	60	52	38	45
Mean		48	53	50	48	50	50
Rainfed, Timely Sown							
1. HI 1500 (C)	5	57	59	-	-	-	58
2. MP 3288 (C)	6	41	60	-	-	-	51
Mean		49	60	-	-	-	54
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	53	65	-	-	-	59
2. MP 3288 (C)	6	55	53	-	-	-	54
Mean		54	59	-	-	-	57

Table 53: Gluten Index (%) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	37	44	27	36
2. UAS 334	8	53	41	41	45
3. GW 322 (C)	12	36	47	52	45
4. MACS 6222 (C)	1	33	54	40	42
Mean		40	47	40	42
Irrigated, Late Sown					
1. HD 3090	7	61	68	50	60
2. HD 3093	15	79	69	73	74
3. GW 432	11	57	62	60	60
4. HD 2932 (C)	12	60	76	48	61
5. Raj 4083 (C)	2	69	58	55	61
6. NIAW 34 (C)	9	42	65	54	54
Mean		61	66	57	61
Rainfed, Timely Sown					
1. DBW 93	9	-	48	54	51
2. NIAW 1415 (C)	6	-	48	45	47
3. NI 5439 (C)	5	-	61	77	69
Mean		-	52	59	56
Restricted Irrigation, Timely Sown					
1. DBW 93	9	41	59	60	53
2. NIAW 1415 (C)	6	48	42	54	48
3. NI 5439 (C)	5	58	73	66	66
Mean		49	58	60	56

Table 54: Gluten Index (%) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington (ITS)	Wellington (LS)	Ooty	Kotagiri	Kodai Kanal	Mean
Restricted Irrigation, Timely Sown							
1. HW 5224	8	55	66	49	51	61	56
2. CoW (W) 1 (C)	2	42	39	53	61	50	49
3. HW 2044 (C)	4	63	71	59	47	67	61
4. HW 5216 (I)	9	49	38	61	55	42	49
Mean		52	54	56	54	55	54

Table 55: Biscuit Diameter (cm) of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	7.70	7.75	7.08	7.51
2. VL 804 (C)	6	7.20	7.15	7.35	7.23
3. VL 907 (C)	2	7.45	7.53	7.35	7.44
4. HS 507 (C)	1	7.85	7.48	7.50	7.61
5. HPW 349 (I)	5	-	-	-	-
Mean		7.55	7.48	7.32	7.45
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	7.35	7.00	7.25	7.20
2. VL 804 (C)	6	7.18	7.25	7.40	7.28
3. VL 907 (C)	2	7.50	7.45	7.38	7.44
4. HS 507 (C)	1	7.40	7.38	7.35	7.38
5. HPW 349 (I)	5	-	-	-	-
Mean		7.36	7.27	7.34	7.32
Rainfed, Early Sown					
1. HS 542	2	7.55	7.45	7.60	7.53
2. HS 277 (C)	1	7.53	7.08	8.13	7.58
3. VL 829 (C)	7	7.38	6.95	-	7.16
4. HPW 251 (C)	5	7.60	6.98	7.13	7.23
Mean		7.51	7.11	7.62	7.41
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	7.70	7.30	7.93	7.64
2. HS 490 (C)	4	8.30	8.08	8.23	8.20
Mean		8.00	7.69	8.08	7.92

Table 56: Biscuit Diameter (cm) of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	7.30	7.40	7.20	7.38	7.15	7.29
2. HD 3086	8	7.75	7.60	7.03	7.18	7.20	7.35
3. DBW 17 (C)	14	7.75	7.55	7.40	7.30	7.25	7.45
4. DPW 621-50 (C)	10	7.75	7.58	7.25	7.05	7.20	7.37
5. HD 2967 (C)	13	7.93	7.70	7.50	7.40	7.35	7.58
6. WH 1105 (I)	11	7.70	7.55	7.53	7.20	7.30	7.46
Mean		7.70	7.56	7.32	7.25	7.24	7.41
Irrigated Late Sown							
1. DBW 90	17	7.65	7.38	7.55	7.48	7.55	7.52
2. WH 1124	10	7.55	7.50	7.45	7.45	7.33	7.46
3. HD 3091	5	7.60	7.55	7.55	7.40	7.43	7.51
4. PBW 373 (C)	8	7.70	7.50	7.25	7.75	7.48	7.54
5. PBW 590 (C)	7	7.55	7.60	7.25	7.48	7.35	7.45
6. WH 1021 (C)	16	7.75	7.60	7.30	7.40	7.65	7.54
7. DBW 71 (I)	4	8.05	7.40	7.53	7.50	7.45	7.59
8. HD 3059 (I)	15	7.60	7.25	7.35	7.38	7.63	7.44
Mean		7.68	7.47	7.40	7.48	7.48	7.50
Rainfed, Timely Sown							
1. PBW 660	17	7.35	-	7.15	7.30	7.80	7.40
2. DBW 74	5	7.45	-	7.20	7.60	7.45	7.43
3. WH 1098	8	7.50	-	7.35	7.40	7.45	7.43
4. PBW 674	2	7.85	-	7.05	7.55	7.78	7.56
5. PBW 675	1	7.90	-	7.25	7.50	7.65	7.58
6. WH 1126	10	7.40	-	6.90	7.55	7.40	7.31
7. WH 1127	20	7.50	-	7.40	7.55	7.80	7.56
8. C 306 (C)	15	7.85	-	7.05	7.53	7.65	7.52
9. PBW 175 (C)	18	7.40	-	7.15	7.40	7.65	7.40
10. PBW 644 (C)	7	7.70	-	7.20	7.90	7.30	7.53
11. WH 1080 (C)	13	7.70	-	6.95	7.88	7.95	7.62
Mean		7.60	-	7.15	7.56	7.63	7.48
Restricted Irrigation Timely Sown							
1. HD 3070	14	7.43	-	6.93	7.45	7.60	7.35
2. DBW 74	2	7.43	-	7.15	7.50	7.85	7.48
3. PBW 660	3	7.60	-	7.10	7.60	7.60	7.48
4. C 306 (C)	1	7.30	-	7.00	7.25	7.40	7.24
5. PBW 175 (C)	5	7.60	-	6.90	7.45	7.70	7.41
6. WH 1080 (C)	9	7.53	-	7.30	7.30	7.75	7.47
7. HD 3043 (C)	8	7.25	-	7.20	7.50	7.70	7.41
Mean		7.45	-	7.08	7.44	7.66	7.41

Table 57: Biscuit Diameter (cm) of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	7.50	7.15	7.55	7.40
2. K 1006	3	7.53	7.50	7.55	7.53
3. WH 1120	14	7.08	7.25	7.48	7.27
4. HD 3076	11	7.33	7.23	7.40	7.32
5. PBW 661	10	7.25	7.23	7.50	7.33
6. K 0307 (C)	7	7.50	7.38	7.25	7.38
7. DBW 39 (C)	8	7.20	7.38	7.93	7.50
8. HD 2733 (C)	1	7.35	7.33	7.50	7.39
9. Raj 4229 (I)	9	7.30	6.80	7.30	7.13
Mean		7.34	7.25	7.49	7.36
Irrigated, Late Sown					
1. Raj 4250	5	7.69	7.80	7.55	7.68
2. NW 2036 (C)	7	7.79	7.65	7.65	7.70
3. DBW 14 (C)	8	7.78	7.28	7.45	7.50
4. HD 2985 (C)	1	7.35	7.40	7.30	7.35
5. HI 1563 (C)	4	7.45	6.85	7.53	7.28
Mean		7.61	7.40	7.50	7.50
Rainfed, Timely Sown					
1. WH 1127	5	7.23	7.28	7.25	7.25
2. C 306 (C)	7	6.98	7.03	7.35	7.12
3. K 8027 (C)	1	7.10	7.30	7.15	7.18
4. HD 2888 (C)	3	7.10	7.00	6.90	7.00
Mean		7.10	7.15	7.16	7.14

Table 58: Biscuit Diameter (cm) of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	7.25	7.18	7.10	7.35	7.35	7.25
2. HI 1544 (C)	2	7.13	6.90	7.05	7.43	7.00	7.10
Mean		7.19	7.04	7.08	7.39	7.18	7.17
Irrigated, Late Sown							
1. HD 3095	3	7.30	7.15	7.05	7.40	7.55	7.29
2. HD 2932 (C)	6	7.35	7.28	7.45	7.30	7.30	7.34
3. HD 2864 (C)	8	7.30	7.25	6.95	7.15	6.88	7.11
4. MP 4010 (C)	5	7.18	7.15	6.85	7.38	6.95	7.10
5. Raj 4238 (I)	7	7.40	7.45	7.38	7.35	7.20	7.36
6. MP 3336 (I)	1	-	-	-	-	-	-
Mean		7.31	7.26	7.14	7.32	7.18	7.24
Rainfed, Timely Sown							
1. HI 1500 (C)	5	7.28	7.25	-	-	-	7.26
2. MP 3288 (C)	6	-	7.20	-	-	7.03	7.11
Mean		7.28	7.23	-	-	7.03	7.19
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	7.03	6.93	-	-	-	6.98
2. MP 3288 (C)	6	6.90	7.25	-	-	-	7.08
Mean		6.96	7.09	-	-	-	7.03

Table 59: Biscuit Diameter (cm) of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	7.08	6.98	7.13	7.06
2. UAS 334	8	6.95	7.30	7.10	7.12
3. GW 322 (C)	12	7.20	7.23	7.08	7.17
4. MACS 6222 (C)	1	7.30	7.18	7.30	7.26
Mean		7.13	7.17	7.15	7.15
Irrigated, Late Sown					
1. HD 3090	7	-	7.60	7.48	7.54
2. HD 3093	15	7.03	7.05	7.63	7.23
3. GW 432	11	7.08	7.65	7.20	7.31
4. HD 2932 (C)	12	7.30	7.23	7.15	7.23
5. Raj 4083 (C)	2	-	7.25	7.25	7.25
6. NIAW 34 (C)	9	6.98	7.20	7.33	7.17
Mean		7.09	7.33	7.34	7.29
Rainfed, Timely Sown					
1. DBW 93	9	-	7.25	-	7.25
2. NIAW 1415 (C)	6	-	7.20	-	7.20
3. NI 5439 (C)	5	-	7.05	-	7.05
Mean		-	7.17	-	7.17
Restricted Irrigation, Timely Sown					
1. DBW 93	9	6.70	7.28	7.15	7.04
2. NIAW 1415 (C)	6	6.93	7.25	7.00	7.06
3. NI 5439 (C)	5	6.90	7.10	7.20	7.07
Mean		6.84	7.21	7.12	7.06

Table 60: Biscuit Diameter (cm) of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington	Mean
Restricted Irrigation, Timely Sown			
1. HW 5224	8	7.23	7.23
2. CoW (W) 1 (C)	2	7.25	7.25
3. HW 2044 (C)	4	7.13	7.13
4. HW 5216 (I)	9	6.95	6.95
Mean		7.14	7.14

Table 61: Biscuit Spread Factor of *T.aestivum* genotypes in Northern Hill Zone AVT's

Variety	Code	Almora	Shimla	Malan	Mean
Irrigated, Timely Sown, High Fertility					
1. HS 536	7	7.70	8.05	6.22	7.32
2. VL 804 (C)	6	7.11	6.50	6.84	6.82
3. VL 907 (C)	2	7.01	7.25	6.61	6.96
4. HS 507 (C)	1	7.57	7.67	7.89	7.71
5. HPW 349 (I)	5	-	-	-	-
Mean		7.35	7.37	6.89	7.20
Rainfed, Timely Sown, Low Fertility					
1. HS 536	7	7.00	6.09	6.82	6.64
2. VL 804 (C)	6	6.75	6.30	7.22	6.76
3. VL 907 (C)	2	7.41	7.45	7.02	7.29
4. HS 507 (C)	1	6.88	7.02	7.08	7.00
5. HPW 349 (I)	5	-	-	-	-
Mean		7.01	6.72	7.04	6.92
Rainfed, Early Sown					
1. HS 542	2	7.84	7.27	7.60	7.57
2. HS 277 (C)	1	7.25	6.22	8.44	7.30
3. VL 829 (C)	7	7.20	5.56	-	6.38
4. HPW 251 (C)	5	8.00	5.37	6.55	6.64
Mean		7.57	6.10	7.53	7.07
Restricted Irrigation, Late Sown					
1. VL 892 (C)	8	8.00	6.95	8.23	7.73
2. HS 490 (C)	4	10.38	9.64	11.75	10.59
Mean		9.19	8.30	9.99	9.16

Table 62: Biscuit Spread Factor of *T.aestivum* genotypes in North Western Plains Zone AVT's

Variety	Code	Ludhiana	Durgapura	Delhi	Pantnagar	Hisar	Mean
Irrigated, Timely Sown							
1. DBW 88	7	6.95	7.40	6.55	7.02	6.50	6.88
2. HD 3086	8	7.95	7.60	5.62	6.24	6.86	6.85
3. DBW 17 (C)	14	8.16	7.19	6.58	6.95	6.52	7.08
4. DPW 621-50 (C)	10	7.95	7.67	6.44	6.13	6.70	6.98
5. HD 2967 (C)	13	8.36	7.90	7.50	7.69	7.00	7.69
6. WH 1105 (I)	11	8.11	7.55	7.53	7.02	6.64	7.37
Mean		7.91	7.55	6.70	6.84	6.70	7.14
Irrigated Late Sown							
1. DBW 90	17	8.05	7.02	7.84	7.67	7.95	7.71
2. WH 1124	10	7.19	7.50	7.45	6.77	6.89	7.16
3. HD 3091	5	8.00	7.37	8.05	7.22	7.24	7.58
4. PBW 373 (C)	8	7.70	7.14	7.25	7.95	7.57	7.52
5. PBW 590 (C)	7	7.55	7.60	6.30	7.48	6.84	7.15
6. WH 1021 (C)	16	7.79	6.91	6.95	7.40	7.85	7.38
7. DBW 71 (I)	4	8.47	7.05	7.53	7.89	7.18	7.62
8. HD 3059 (I)	15	8.33	6.82	7.08	7.38	7.82	7.49
Mean		7.89	7.18	7.31	7.47	7.42	7.45
Rainfed, Timely Sown							
1. PBW 660	17	6.68	-	6.50	6.64	8.21	7.01
2. DBW 74	5	6.93	-	6.55	8.00	8.05	7.38
3. WH 1098	8	7.32	-	5.76	6.88	7.64	6.90
4. PBW 674	2	8.26	-	5.94	7.95	8.52	7.67
5. PBW 675	1	8.27	-	6.44	7.50	7.85	7.52
6. WH 1126	10	6.88	-	5.52	7.55	7.40	6.84
7. WH 1127	20	7.06	-	7.05	7.74	8.21	7.52
8. C 306 (C)	15	8.05	-	6.00	7.17	7.65	7.22
9. PBW 175 (C)	18	7.05	-	6.50	7.05	7.65	7.06
10. PBW 644 (C)	7	7.70	-	6.13	8.32	6.64	7.19
11. WH 1080 (C)	13	8.21	-	6.04	8.75	8.59	7.90
Mean		7.49	-	6.22	7.59	7.86	7.29
Restricted Irrigation Timely Sown							
1. HD 3070	14	7.43	-	5.54	7.10	7.60	6.92
2. DBW 74	2	6.91	-	6.81	6.82	8.49	7.26
3. PBW 660	3	7.60	-	6.84	7.24	7.60	7.32
4. C 306 (C)	1	6.64	-	5.96	6.59	7.05	6.56
5. PBW 175 (C)	5	7.60	-	5.63	7.01	8.11	7.09
6. WH 1080 (C)	9	7.53	-	6.87	6.35	7.95	7.17
7. HD 3043 (C)	8	7.44	-	6.70	7.32	8.11	7.39
Mean		7.30	-	6.34	6.92	7.84	7.10

Table 63: Biscuit Spread Factor of *T.aestivum* genotypes in North Eastern Plains Zone AVT's

Variety	Code	Kanpur	Pusa	Sabour	Mean
Irrigated, Timely Sown					
1. NW 5054	12	7.50	6.36	7.28	7.04
2. K 1006	3	7.72	7.89	7.55	7.72
3. WH 1120	14	6.36	7.34	7.04	6.91
4. HD 3076	11	7.06	7.14	7.59	7.26
5. PBW 661	10	6.99	7.32	7.50	7.27
6. K 0307 (C)	7	7.14	7.11	6.59	6.95
7. DBW 39 (C)	8	6.86	7.38	8.13	7.45
8. HD 2733 (C)	1	6.53	7.23	7.50	7.09
9. Raj 4229 (I)	9	6.95	5.91	6.95	6.61
Mean		7.01	7.08	7.35	7.14
Irrigated, Late Sown					
1. Raj 4250	5	8.09	8.21	7.95	8.08
2. NW 2036 (C)	7	8.31	7.95	7.85	8.03
3. DBW 14 (C)	8	8.18	6.93	7.64	7.58
4. HD 2985 (C)	1	7.54	7.69	7.04	7.42
5. HI 1563 (C)	4	7.84	5.71	7.92	7.16
Mean		7.99	7.30	7.68	7.66
Rainfed, Timely Sown					
1. WH 1127	5	6.88	6.93	6.59	6.80
2. C 306 (C)	7	6.13	6.39	6.92	6.48
3. K 8027 (C)	1	6.60	6.87	6.73	6.73
4. HD 2888 (C)	3	6.24	6.15	5.47	5.95
Mean		6.46	6.58	6.43	6.49

Table 64: Biscuit Spread Factor of *T.aestivum* genotypes in Central Zone AVT's

Variety	Code	Indore	Kota	Junagarh	P' Kheda	Vijapur	Mean
Irrigated, Timely Sown							
1. GW 322 (C)	3	6.74	6.67	6.45	7.35	7.08	6.86
2. HI 1544 (C)	2	6.26	5.81	6.13	7.33	6.36	6.38
Mean		6.50	6.24	6.29	7.34	6.72	6.62
Irrigated, Late Sown							
1. HD 3095	3	6.79	6.73	6.27	7.22	7.55	6.91
2. HD 2932 (C)	6	7.17	6.93	7.84	6.95	7.12	7.20
3. HD 2864 (C)	8	7.21	7.34	5.91	6.98	5.73	6.63
4. MP 4010 (C)	5	6.31	6.81	6.02	6.78	6.47	6.48
5. Raj 4238 (I)	7	7.05	7.45	6.94	7.00	6.55	7.00
6. MP 3336 (I)	1	-	-	-	-	-	-
Mean		6.91	7.05	6.60	6.99	6.68	6.84
Rainfed, Timely Sown							
1. HI 1500 (C)	5	6.06	6.59	-	-	-	6.33
2. MP 3288 (C)	6	-	6.70	-	-	6.24	6.47
Mean		6.06	6.64	-	-	6.24	6.40
Restricted Irrigation, Timely Sown							
1. HI 1500 (C)	5	5.73	5.77	-	-	-	5.75
2. MP 3288 (C)	6	5.69	6.90	-	-	-	6.30
Mean		5.71	6.34	-	-	-	6.03

Table 65: Biscuit Spread Factor of *T.aestivum* genotypes in Peninsular Zone AVT's

Variety	Code	Pune	Dharwad	Niphad	Mean
Irrigated, Timely Sown					
1. MACS 6478	9	5.78	6.34	6.55	6.22
2. UAS 334	8	5.85	7.21	6.53	6.53
3. GW 322 (C)	12	6.70	7.14	6.74	6.86
4. MACS 6222 (C)	1	6.64	6.11	6.49	6.41
Mean		6.24	6.70	6.58	6.51
Irrigated, Late Sown					
1. HD 3090	7	-	7.90	7.57	7.73
2. HD 3093	15	6.53	6.00	7.82	6.79
3. GW 432	11	5.96	7.37	6.70	6.68
4. HD 2932 (C)	12	6.49	6.88	6.43	6.60
5. Raj 4083 (C)	2	-	6.90	6.90	6.90
6. NIAW 34 (C)	9	5.69	6.86	6.98	6.51
Mean		6.17	6.99	7.07	6.87
Rainfed, Timely Sown					
1. DBW 93	9	-	6.59	-	6.59
2. NIAW 1415 (C)	6	-	6.26	-	6.26
3. NI 5439 (C)	5	-	6.06	-	6.06
Mean		-	6.31	-	6.31
Restricted Irrigation, Timely Sown					
1. DBW 93	9	5.36	6.93	6.43	6.24
2. NIAW 1415 (C)	6	5.77	6.30	5.96	6.01
3. NI 5439 (C)	5	5.31	6.17	6.40	5.96
Mean		5.48	6.47	6.26	6.07

Table 66: Biscuit Spread Factor of *T.aestivum* genotypes in Southern Hills Zone AVT's

Variety	Code	Wellington	Mean
Restricted Irrigation, Timely Sown			
1. HW 5224	8	6.64	6.64
2. CoW (W) 1 (C)	2	6.74	6.74
3. HW 2044 (C)	4	6.33	6.33
4. HW 5216 (I)	9	5.85	5.85
Mean		6.39	6.39

Table 67: Pasta Cooking Quality of *T. durum* genotypes in North Western Plains Zone AVT's

Variety	Code	Cooking Time (Min.:Sec.)	Water Absorption (%)	Water Uptake Ratio	Gruel Solid Loss (%)	Stickness Mean
Irrigated, Timely Sown						
1. HI 8728	5	12:20	118	1.18	1.98	NS
2. PDW 291 (C)	8	11:05	122	1.22	1.77	PS
3. PDW 314 (C)	11	10:50	126	1.26	1.53	NS
4. DBW 17 (C)	4	11:30	112	1.12	3.05	S

Table 68: Pasta Cooking Quality of *T. durum* genotypes in Central Zone AVT's

Irrigated, Timely Sown						
1. HI 8724	1	12:10	117	1.17	2.11	NS
2. HI 8725	12	11:50	116	1.16	2.15	NS
3. HI 8727	7	12:20	115	1.15	2.31	PS
4. HI 8498 (C)	9	10:50	114	1.14	2.37	NS
5. MPO 1215 (C)	16	10:40	115	1.15	2.41	NS
6. HI 8713 (I)	10	11:05	128	1.28	1.41	NS

Table 69: Pasta Cooking Quality of *T. durum* genotypes in Central Zone AVT's

Rainfed, Timely Sown						
1. HI 8731	2	12:05	119	1.19	1.90	S
2. MPO 1255	4	10:10	126	1.26	1.63	PS
3. HI 8627 (C)	13	10:55	125	1.25	1.75	NS
4. A 9-30-1 (C)	14	11:15	114	1.14	2.72	S

Table 70: Pasta Cooking Quality of *T. durum* genotypes in Central Zone AVT's

Restricted Irrigation, Timely Sown						
1. HI 8731	2	11:55	120	1.20	1.85	S
2. MPO 1255	4	10:20	127	1.27	1.61	PS
3. HI 8627 (C)	13	11:05	124	1.24	1.71	NS
4. A 9-30-1 (C)	14	11:20	113	1.13	2.86	S

Table 71: Pasta Sensory Evaluation of *T. durum* genotypes in North Western Plains Zone AVT's

Variety	Code	COLOUR	TEXTURE	FLAVOUR	OVERALL ACCEPTABILITY	RANK
Irrigated, Timely Sown						
1. HI 8728	5	6	6	6	6.0	8
2. PDW 291 (C)	8	7	6	8	7.0	5
3. PDW 314 (C)	11	7	8	9	8.0	2
4. DBW 17 (C)	4	4	4	4	4.0	13

Table 72: Pasta Sensory Evaluation of *T. durum* genotypes in Central Zone AVT's

Irrigated, Timely Sown						
1. HI 8724	1	5	6	6	5.7	9
2. HI 8725	12	6	5	6	5.7	9
3. HI 8727	7	5	6	5	5.3	10
4. HI 8498 (C)	9	5	5	6	5.3	10
5. MPO 1215 (C)	16	6	5	5	5.3	10
6. HI 8713 (I)	10	8	9	8	8.3	1
Mean						

Table 73: Pasta Sensory Evaluation of *T. durum* genotypes in Central Zone AVT's

Rainfed, Timely Sown						
1. HI 8731	2	6	7	7	6.7	7
2. MPO 1255	4	8	7	9	8.0	2
3. HI 8627 (C)	13	7	8	8	7.7	3
4. A 9-30-1 (C)	14	5	5	5	5.0	11

Table 74: Pasta Sensory Evaluation of *T. durum* genotypes in Central Zone AVT's

Restricted Irrigation, Timely Sown						
1. HI 8731	2	6	7	6	6.3	6
2. MPO 1255	4	8	7	8	7.7	3
3. HI 8627 (C)	13	7	8	7	7.3	4
4. A 9-30-1 (C)	14	4	5	4	4.3	12