

Annexure 3: Adult plant response of NIVT material against wheat rusts under field conditions (artificial inoculations) during 2014-15									
Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
<b>NIVT 1A</b>									
1	WH 1182	40S	15.9	15MS	5.0	0	0.0	20S	4.5
2	HD 2733 (C)	20MR	2.1	40S	12.1	TMR	0.1	80S	62.0
3	DBW 158	60S	20.3	20MS	5.3	40S	12.5	40S	6.8
4	BRW 3762	40MR	6.2	10MS	1.4	TS	0.1	60S	18.0
5	HUW 701	20S	8.3	40S	12.1	10S	1.5	20S	5.9
6	PBW 724	60S	17.9	10MS	2.6	20MR	1.2	40S	5.0
7	HD 3186	20S	8.6	20S	5.6	15S	2.5	20S	7.6
8	HD 3180	60S	17.9	10S	3.0	40S*	5.0	60S	25.1
9	UP 2901	10S	2.1	5MS	0.9	5MS	0.5	80S	22.3
10	JAUW 635	30MS	6.8	20MS	2.7	5S	0.7	40MS	6.7
11	WH 1186	20MS	6.2	5S	0.8	10S	1.3	20S	6.9
12	DBW 159	20MS	5.1	30S	6.9	5S	0.8	80S	17.7
13	DBW 156	40MR	5.3	30S	5.1	20S	2.6	60S	20.6
14	HS 602	15MS	2.8	30S	9.1	10S	3.1	20S	6.7
15	K 1401	30S	10.6	30S	7.2	10S	1.3	20MS	6.2
16	PBW 725	20MR	3.1	20MS	2.5	5S	0.6	0	0.0
17	WH 1184	20S	9.9	20S	4.9	20MR	1.1	20S	2.4
18	Raj 4418	40MS	9.7	40S*	6.5	20S	2.5	80S	19.0
19	K 1402	15MS	6.3	20S	5.7	20MR	1.0	20S	4.8
20	HD 3182	40MS	18.0	10MS	2.5	40S*	5.1	20S	3.4
20. A	INFECTOR	100S	74.3	100S	78.6	80S	57.5	100S	80.0
21	JKW 205	40MS	9.6	5S	0.8	20S	3.8	60S	13.6
22	PBW 727	30MS	9.1	10MS	2.0	20MS	2.0	60S	19.2
23	NW 6047	10S	3.5	15MS	3.0	20S	2.6	60S	16.5
24	PBW 726	60S	19.7	20MS	2.4	30S	3.8	30S	5.2
25	WH 1183	60S	15.5	30S	6.6	20MS	2.0	40S	9.0
26	UP 2904	60S	29.0	60S	24.6	20S	2.5	80S	46.1
27	DBW 160	40MS	9.6	20MS	3.8	10S	1.4	40S	11.6
28	DBW 162	40MS	15.5	20MS	5.1	15MR	0.8	40S	18.9
29	BRW 3763	30MS	8.7	10S	3.9	0	0.0	40MS	8.7
30	UP 2903	30MS	10.1	10S	4.1	0	0.0	40MS	7.2
31	Mahyco-Goal	30S	13.1	10MS	1.9	5S	0.6	60S	22.0
32	DBW 161	40S	14.3	40S	9.9	10MS	2.6	40S	12.3
33	HD 3181	40S	18.1	20MS	3.9	10S	1.4	40S	12.3
34	DBW 157	20S	5.3	10S	1.5	20MR	1.0	40S	12.9
35	HD 3184	60S	25.1	20MR	1.9	20S	2.5	40S	6.1
36	NW 6050	40MS	9.3	40S	10.1	0	0.0	60S	21.8
37	HD 3183	60S	24.6	15MS	3.5	10S	1.4	60S	19.3
38	PBW 728	20MS	6.1	80S	22.9	20MS	2.5	40S	6.3
39	Raj 4421	10MR	1.2	10MS	2.9	5S	0.6	60S	24.0
40	Raj 4419	40S	9.6	10MS	1.2	0	0.0	60S	12.4
40. A	INFECTOR	100S	74.3	100S	78.6	100S	67.5	100S	84.0
41	HUW 702	20MR	1.9	10MS	1.1	0	0.0	20S	4.8
42	UP 2905	40S*	6.0	20S	4.3	0	0.0	60S	15.4
43	UP 2902	10S	5.2	5S	1.5	40S*	5.6	40S	9.5
44	HD 3185	60S	18.2	10S	2.9	10S	1.3	60S	10.5
45	WH 1185	40S	19.4	10S	4.2	40S	6.4	40S	15.3
46	Raj 4417	40S	11.5	10MS	1.2	20S	2.5	40S	6.9
<b>NIVT 1B</b>									
47	Raj 4422	30S	4.9	10MS	3.3	40S	11.8	60S	15.5
48	K 1404	40S	7.2	10MR	0.6	20S	4.4	40S	18.0

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
49	NW 6056	5MR	0.6	15MS	1.8	10S	1.9	40S	7.0
50	NW 6048	10MS	1.7	20MS	2.3	10MS	1.0	20S	7.6
51	K 1406	40S	12.6	60S	22.4	20S	4.5	100S	63.0
52	DBW 166	40S	12.2	20S	2.9	20S	2.5	60S	20.3
53	HUW 705	60S	25.0	15MS	3.0	10MS	2.0	40S	15.5
54	PBW 729	30S	13.6	15MS	6.9	20S	3.5	30S	3.5
55	Raj 4423	5S	1.5	30S	7.4	10S	1.3	40S	20.5
56	DBW 165	20S	6.9	10S	5.0	0	0.0	40S	6.5
57	HD 3188	20S	7.9	10MS	1.4	20S	2.5	40S	13.5
58	BRW 3759	40S	19.3	30S	7.3	20S	2.5	30S	10.6
59	WH 1187	40MR	6.6	TS	0.2	10S	1.3	20S	5.5
60	K 1405	10MS	2.6	20MS	2.6	0	0.0	60S	14.0
60. A	INFECTOR	100S	74.3	100S	78.6	100S	65.0	100S	78.0
61	HUW 706	5S	2.0	15MS	2.3	20MS	2.0	40S	14.0
62	NW 6052	30S	17.5	40S	18.3	20S	3.8	20S	11.0
63	WH 1189	40S	22.9	20S	6.3	10S	1.9	80S	25.0
64	K 1408	30MR	2.0	10MS	1.1	0	0.0	60S	20.7
65	HD 3191	40S	11.7	5S	0.9	10S	1.3	80S	29.5
66	HD 3193	25S	9.6	20S	8.0	0	0.0	60S	14.4
67	HD 3192	60S	23.3	10S	5.0	10MS	3.0	40MS	12.7
68	Raj 4415	60S	19.3	40S	9.8	TMS	0.1	80S	27.8
69	HUW 703	40S	16.0	40S	11.3	10S	1.4	40S	13.3
70	JKW 208	40S	9.4	30S	6.2	10S	2.6	60S	13.0
71	HD 3194	40S	23.4	20MS	3.7	10S	1.4	40S	14.6
72	WH 1188	15S	7.6	40S	12.1	10S	1.5	20S	6.9
73	HD 3187	30MS	13.7	40S	19.9	20S	3.3	40S	11.8
74	K 1407	10S	2.5	20S	11.0	15S	2.8	60S	24.6
75	HUW 704	30S	9.7	20MS	7.0	5S	0.7	40S	7.4
76	BRW 3767	15MS	3.6	20MR	1.7	0	0.0	20S	6.5
77	BRW 3765	40S	15.6	40S	15.0	10S	1.3	60S	11.2
78	HUW 707	20S	5.3	20MS	3.0	10MR	0.5	40S	5.4
79	PBW 730	20S	8.0	5S	1.3	TS	0.1	20S	2.4
80	JKW 207	40S	17.6	40S	14.9	10MS	1.6	40S	13.8
80. A	INFECTOR	100S	78.6	100S	80.0	100S	65.0	100S	78.0
81	HD 3190	40S	15.3	20S	8.3	5S	0.6	40S	6.0
82	DBW 164	20MS	9.0	60S	23.0	60S	20.0	40S	10.9
83	UP 2907	40MS	16.5	20S	5.6	30S	5.0	60S	18.7
84	PBW 731	30MS	9.5	10MS	1.6	5S	0.7	60S	14.0
85	HD 3189	40MS	18.1	20S	6.4	5S	1.0	40S	21.0
86	UP 2906	30MR	3.1	40S	11.5	0	0.0	20S	2.0
87	DBW 167	60S	17.6	10S	3.0	5S	0.6	20S	5.9
88	UP 2908	80S	32.3	40S	10.6	5MR	0.3	60S	25.5
89	NW 6054	30S	12.4	30S	13.6	20S	3.8	60S	15.4
90	NW 6049	60S	24.4	40S	23.4	10MS	1.0	30S	10.1
91	DBW 163	60S	19.6	30S	4.9	0	0.0	40S	7.8
<b>NIVT 2</b>									
92	DBW 170	20MR	2.0	10S	2.6	60S*	7.5	40S	19.6
93	DBW 169	30S	12.0	5S	1.1	0	0.0	40S	8.4
94	UAS 372	30S	11.3	40S	11.7	5S	1.3	80S	51.8
95	HI 1610	15S	5.4	40S	12.1	10MR	0.5	80S	23.5
96	UP 2909	30S	8.7	60S	17.8	5MR	0.3	60S	22.4
97	HI 1608	40MR	6.0	30MS	3.8	10MS	1.6	60S	30.0
98	GW 468	20S	3.9	10MS	1.4	20MS	2.0	100S	68.0
99	JWS 147	30S	6.2	10MR	0.7	TS	0.1	100S	74.0

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
100	MACS 6671	10S	4.2	15MS	1.9	0	0.0	60S	21.5
100. A	INFECTOR	100S	78.6	100S	80.0	100S	63.8	100S	80.0
101	DBW 168	20MR	2.1	20S	5.8	40S*	5.0	80S	29.4
102	MP 1309	40S	16.4	60S	31.7	20S	6.3	100S	68.0
103	HI 1607	15MR	1.9	5S	2.0	5S	1.5	40S	16.2
104	Raj 4424	10S	4.0	10S	1.4	30S	3.9	80S	28.0
105	UAS 370	5S	2.9	20S	9.1	5MS	0.5	80S	42.0
106	WH 1190	40MS	8.9	20S	7.3	5S	1.4	30S	6.1
107	HI 1609	20S	6.6	10MS	3.9	5MS	0.5	30S	8.4
108	HP 1960	20S	8.0	10S	1.7	20S	2.5	60S	30.6
109	MP 1310	20S	8.0	30S	12.6	10S	2.0	60S	27.9
110	RVW 4232	20S	8.4	40S	7.7	20S	2.5	60S	33.8
111	UAS 369	20S	5.3	40S	15.4	10S	1.3	60S	35.0
112	MP 3440	20S	5.2	15MS	2.9	5MR	0.4	40S	12.9
113	NIAW 2595	15MS	6.1	80S	21.1	10MR	0.5	40S	15.8
114	NIAW 2495	20S	4.9	40S	7.1	30S	5.1	80S	65.0
115	GW 473	15MS	5.0	5MR	0.3	0	0.0	100S	58.8
116	AKAW 4798	20S	4.1	20S	3.8	5MS	1.0	80S	22.1
117	UAS 371	10MS	3.5	10S	1.7	5S	0.6	40S	7.6
118	MACS 6668	10S	2.6	15S	2.1	40S	6.3	100S	54.0
119	GW 471	10MS	1.8	10MR	0.6	20S	2.6	100S	41.0
120	MP 1311	20S	9.6	60S	22.6	20S	3.8	100S	68.0
120. A	INFECTOR	100S	75.7	100S	77.1	100S	58.8	100S	80.0
121	NIAW 2539	10S	4.6	15MS	3.3	10S	1.3	40S	11.5
122	PBW 732	20S	6.4	15MS	2.5	0	0.0	60S	12.5
123	GW 469	10S	3.1	15MS	3.1	5S	0.6	100S	67.0
124	GW 470	10S	2.6	20S	5.0	40S	7.1	80S	27.2
125	CG 1016	10S	4.3	40S	15.7	10S	1.5	80S	50.8
<b>NIVT - 3A</b>									
126	HD 3199	40MR	6.3	40S	8.9	10S	2.3	80S	28.1
127	WH 1191	20S	9.9	10MR	1.2	10MR	0.5	40S	18.5
128	NW 6066	30MS	12.6	10MS	3.7	20S	2.6	30S	8.5
129	HUW 710	30MS	10.6	20S	5.9	10S	1.4	40S	7.0
130	NW 6044	30S	6.8	10MS	1.9	5S	0.6	40S	17.2
131	MP 1316	30MR	6.0	5MR	0.3	5S	0.6	60S	23.1
132	HP 1961	40MS	15.4	80S	21.2	40S	16.3	40S	11.4
133	HD 3197	30S	11.0	20S	3.6	10MR	0.5	80S	21.0
134	HUW 709	50S	15.2	40S	15.5	15S	2.4	40S	18.5
135	RAJ 4429	40S	12.3	10S	1.5	0	0.0	40S	11.7
136	HD 3198	30MS	9.9	20S	9.5	0	0.0	40S	10.5
137	DBW 172	60S	15.7	20MS	3.9	0	0.0	40S	13.5
138	DBW 171	20S	9.2	20MR	2.5	5S	1.2	60S	10.7
139	UP 2913	20S	8.3	20S	4.9	40S*	5.0	60S	25.0
140	K 1412	30MS	8.3	10S	2.1	10MS	1.0	80S	21.0
140. A	INFECTOR	100S	75.7	100S	77.1	100S	62.5	100S	80.0
141	WH 1192	40MS	11.4	5MR	0.8	20S	2.5	60S	22.8
142	UP 2910	20MR	3.1	40S	9.4	20S	2.8	80S	17.1
143	PBW 735	30MS	11.0	10S	1.8	20S	2.5	40S	10.7
144	HUW 708	30MS	5.6	5S	1.3	0	0.0	40S	9.4
145	HD 3200	10MS	3.6	10S	2.7	TS	0.1	60S	21.0
146	WH 1193	30MR	2.4	TS	0.2	20MR	1.5	40S	13.8
147	K 1413	30MS	3.6	15MS	3.2	5S	0.6	40S	14.3
148	PBW 736	20MS	6.2	20S	4.1	TMR	0.1	20S	6.8
149	DBW 173	15S	2.7	20MR	1.2	0	0.0	60S	15.2

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
150	DBW 174	30MS	11.5	15MS	3.0	20S	3.0	40S	12.2
151	UP 2911	10S	3.4	20S	8.3	5S	0.6	40S	7.9
152	PBW 734	40MS	9.2	5S	1.2	5S	0.6	40S	8.1
153	K 1414	20S	9.0	5MS	1.0	0	0.0	10S	1.6
154	PBW 733	20S	8.7	5S	1.3	0	0.0	20S	4.1
155	JKW 206	20MS	8.2	40S	12.1	10S	1.3	40S	10.9
156	HD 3201	10S	4.5	20MR	2.1	0	0.0	80S	29.6
157	RAJ 4428	15MR	1.9	10MS	2.6	20S	2.5	60S	17.9
NIVT 3B									
158	CG 1019	40S	12.2	20S	7.1	20S	2.5	80S	23.3
159	MP 3436	30S	5.4	5MR	0.4	60S*	8.1	80S	26.1
160	MP 3433	60S	16.5	20S	5.6	10S	2.4	80S	29.6
160. A	INFECTOR	100S	74.3	100S	75.7	100S	71.3	100S	79.0
161	GW 477	15MS	4.1	10MS	1.6	5S	0.6	80S	39.6
162	MACS 6669	20S	5.3	15MS	6.1	5S	0.6	60S	21.0
163	UAS 371	15S	6.0	20MS	3.3	10MR	0.6	20S	7.1
164	UAS 373	40MR	4.1	20S	3.1	40S*	5.0	80S	35.0
165	HI 1611	10MS	3.9	20S	4.9	20S	2.5	80S	25.3
166	MACS 6635	10S	4.5	40S	13.9	0	0.0	80S	30.6
167	GW 475	20S	5.0	20S	7.0	20S	3.9	80S	54.8
168	AKAW 4842	10S	5.1	20MS	2.8	0	0.0	80S	45.0
169	RVW 4235	15MS	3.1	10S	1.8	10S	1.9	80S	25.8
170	DBW 175	20S	12.0	20S	8.1	TMR	0.1	100S	22.0
171	MP 1313	20S	12.7	60S	31.0	20S	5.6	60S	41.0
172	MP 1312	40S	9.6	10MS	2.3	10S	1.4	40S	25.2
173	WH 1195	15MS	4.2	20MS	2.7	0	0.0	30S	11.3
174	NIAW 34 (C)	20MS	3.7	20S	3.1	15S	3.1	60S	16.4
175	DBW 176	40S	20.1	10MS	2.6	5S	1.4	10S	3.4
176	NIAW 2613	30S	11.6	10S	2.7	20S	2.5	60S	34.0
177	RAJ 4427	20S	7.7	10S	3.0	20S	2.5	60S	20.0
178	PBW 743	40MS	6.9	20S	6.0	10S	1.4	20S	3.0
179	WH 1194	10S	4.0	20S	6.7	20S	3.0	20MS	6.1
180	PBW 739	10MS	2.0	15MS	1.7	0	0.0	20S	4.6
180. A	INFECTOR	100S	75.7	100S	77.1	100S	60.0	100S	80.0
181	HI 8767	10MS	3.7	15MS	2.0	5S	0.9	10S	3.0
182	HW 3906	5S	2.0	5MR	0.7	10S	1.3	60S	21.0
183	NIAW 2565	20S	6.5	10MR	0.8	20S	2.6	40S	22.6
184	CG 1017	30S	7.3	5MS	1.0	10S	1.3	80S	45.0
185	GW 478	15MS	4.7	5MS	0.8	40S*	5.6	80S	39.8
186	GW 474	10MS	1.3	10S	2.9	10S	1.3	60S	18.4
187	UP 2912	5S	1.8	10S	4.3	20S	2.5	20S	6.4
188	DBW 177	60S	14.0	15MS	1.9	20S	2.5	20S	3.5
189	HD 3206	20MS	5.0	10MS	1.3	40S*	5.1	80S	35.5
190	RAJ 4426	20S	7.1	10MS	1.9	10MR	0.5	80S	30.2
NIVT - 4									
191	MACS 4035	25S	11.7	20S	6.9	20S	3.0	40S	13.5
192	UAS 456	20S	6.9	5MR	0.5	0	0.0	10S	1.1
193	UAS 457	20MS	3.4	5MS	1.0	0	0.0	60S	8.0
194	MPO 1314	40S	14.9	5MR	0.5	5MR	0.4	10S	1.6
195	GW 1318	15MS	5.1	10MS	2.1	10MR	0.5	20S	10.3
196	RKD 291	30S	10.9	20MS	5.3	15S	1.9	20S	5.6
197	DDW 36	20S	8.7	10MS	3.0	0	0.0	20S	5.4
198	PDW 343	30S	11.5	10MS	3.8	10MS	1.0	20S	3.2
199	MACS 3973	40S	10.6	5S	2.0	10MS	1.0	60S	32.8

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
200	WHD 957	40S	10.8	5MS	1.4	10MR	0.5	10S	1.6
200. A	INFECTOR	100S	75.7	100S	74.3	100S	66.3	100S	75.0
201	NIDW 295 (C)	30S	5.5	5MR	0.5	10S	1.3	20S	2.1
202	PDW 345	40S	15.9	10MS	3.0	5MR	0.3	20S	2.4
203	NIDW 950	15S	6.0	5S	0.9	15MR	0.8	10S	1.0
204	GW 1321	30MS	5.4	5S	1.4	TMR	0.1	20S	2.9
205	HI 8772	20S	10.0	10MR	0.9	0	0.0	40S	6.5
206	GW 1319	30S	7.9	10MS	2.9	5S	0.7	60S*	6.0
207	GW 1320	30S	13.0	10S	3.0	5MR	0.3	40S	5.1
208	UPD 97	20S	8.8	15MS	2.5	5MR	0.3	20S	3.2
209	PBND 5175	15MS	3.9	20MR	2.5	10S	1.3	40S	11.7
210	HI 8770	20MR	1.4	TS	0.2	TS	0.1	20S	4.8
211	PDW 346	20MS	7.3	5S	1.1	20S	2.5	40S	5.0
212	HI 8771	30MS	11.6	TS	0.2	0	0.0	10S	1.2
213	DDW 35	30S	9.9	10S	4.4	0	0.0	20S	3.9
214	RKD 282	10S	5.9	15MS	2.4	10MR	0.5	40MS	9.6
215	HI 8768	40S	10.4	20MS	2.7	10MR	0.5	40S	8.3
216	HI 8769	30S	6.3	5S	1.2	TMR	0.1	40S	5.6
217	HI 8773	40MS	8.3	5MR	0.4	0	0.0	30S	5.8
218	PDW 344	20S	8.9	10S	2.1	TR	0.0	20S	3.1
219	WHD 958	20S	5.3	10MS	3.2	TMR	0.1	10S	1.1
220	HI 8774	40MR	5.5	5MS	0.8	5MR	0.3	20S	5.3
220. A	INFECTOR	100S	78.6	100S	75.7	100S	65.0	100S	76.0
221	MPO 1315	20S	8.3	10MS	2.4	0	0.0	20S	3.2
222	AKDW 4525	40S	14.6	10S	2.6	0	0.0	10S	3.0
223	MACS 4029	20S	4.9	20MR	2.4	20S	3.8	60S	8.0
224	NIDW 989	30MR	5.6	20MR	1.9	10MS	1.5	60S	7.0
<b>NIVT - 5A</b>									
225	MACS 6660	30MR	4.2	20S	6.5	60S	12.6	80S	66.0
226	HD 3204	15MS	3.7	10S	5.6	0	0.0	40S	16.3
227	UP 2914	40MR	4.2	40S	12.3	10MS	1.6	60S	37.3
228	WH 1181	15MS	5.6	40S	9.2	TMR	0.1	60S	12.2
229	MP 3429	20S	8.4	15MR	1.1	10S	1.4	80S	41.8
230	AKAW 3891	40S	14.7	80S	30.9	40S	8.8	100S	55.0
231	NW 6046	40S	18.7	20S	5.6	10S	1.3	30S	16.0
232	JWS 146	10MS	3.3	20MS	3.5	0	0.0	60S	23.6
233	BRW 3761	15MS	4.1	80S	29.2	60S	17.5	80S	43.0
234	K 1415	15MS	2.4	10MR	0.7	10S	1.3	40S	10.8
235	MP 1304	30MS	7.6	20MS	2.5	0	0.0	80S	22.0
236	MP 3288 (C)	10S	4.9	30MS	7.9	TS	0.2	60S	22.0
237	UP 2915	30S	13.3	80S	26.4	60S	22.5	80S	29.1
238	UAS 375	20S	12.1	40S	15.0	40S*	5.6	80S	40.6
239	MP 1303	20MR	2.6	40S	15.1	40MS	6.5	40S	12.9
240	HD 3205	20MS	5.8	TS	0.2	20S	2.5	60S	19.6
240. A	INFECTOR	100S	72.9	100S	75.7	100S	72.5	100S	77.0
241	DBW 178	40MS	15.6	10MS	1.3	10MR	0.5	60S	13.5
242	HI 1612	60S	24.7	10MS	3.3	20S	2.6	40S	8.2
243	NIAW 2547	30MS	12.3	20MS	4.4	0	0.0	60S	14.4
244	MP 1305	40S	20.1	60S	25.1	15S	2.5	100S	63.0
245	HD 3203	40MR	7.7	20MS	3.9	20S	2.6	80S	23.3
246	HD 3202	10S	6.4	20S	4.7	10S	1.3	60S	12.6
247	MP 1306	40S	15.9	40S	10.3	10MR	0.9	80S	22.4
248	WH 1180	20MS	3.9	40S	15.7	TS	0.1	60S	15.4
249	MACS 6659	20MS	3.2	40S	14.4	10S	2.4	80S	58.0

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
250	K 1417	20S	7.0	40MS	8.7	20MR	1.0	20S	4.6
251	CG 1018	20S	6.0	30MS	3.9	10S	1.3	80S	37.4
252	DBW 179	40MS	8.3	10MR	1.0	20S	2.5	20S	4.8
253	DBW 180	40MS	9.2	15MS	3.3	0	0.0	60S	20.4
254	UAS 374	20MS	5.7	30S	6.6	0	0.0	40S	16.2
255	PBW 737	40MS	17.9	30MS	7.4	15MS	2.5	40S	8.2
256	K 1416	40MS	16.7	15MS	4.9	20S	3.8	40S	14.5
257	PBW 738	10S	4.7	20S	3.2	20S	2.5	30S	5.8
<b>NIVT - 5B</b>									
258	GW 1324	20S	3.7	20MS	5.9	20S	3.5	80S	43.8
259	MPO 1307	20S	5.9	5MS	0.6	0	0.0	60S*	6.0
260	RKD 283	10S	3.7	20MR	1.4	0	0.0	100S	12.0
260. A	INFECTOR	100S	74.3	100S	78.6	100S	72.5	100S	80.0
261	GW 1325	20S	5.3	70S	15.9	10S	2.0	100S	59.6
262	KD 1418	10S	4.9	10S	2.5	0	0.0	60S	17.8
263	MACS 4027	20S	4.7	20S	3.5	5S	0.8	40S	16.2
264	HI 8778	20S	5.6	10MS	3.0	5S	1.3	40S	7.1
265	HI 8776	20S	3.9	15MS	2.1	5MR	0.3	40S	5.8
266	HI 8775	10S	4.3	10MR	1.0	0	0.0	40S*	5.5
267	HI 8777	20S	5.3	10MS	3.2	10MS	1.5	40S	8.5
268	GW 1323	40S	14.0	20S	4.7	20MS	2.0	80S	58.2
269	GW 1327	40MS	8.8	5MR	0.3	5S	0.6	100S	23.0
270	MPO 1308	40MS	9.9	TR	0.0	TMR	0.1	40S*	4.4
271	MACS 4028	20S	9.3	20S	5.3	10S	1.9	80S	34.0
272	DDW 38	20S	7.2	10MR	1.0	20S	2.5	20S	2.0
273	NIDW 937	20MS	4.0	10MS	2.2	5S	0.6	40S	7.5
274	HI 8779	20MS	8.1	5MS	1.2	5MR	0.3	20S	2.1
275	MACS 4030	10S	4.1	15MS	2.1	5MR	0.5	60S	7.1
276	RKD 292	20S	5.3	10MS	3.0	40S*	5.6	80S*	8.7
277	HI 8627 (C)	20S	5.7	10MS	1.1	0	0.0	20S	3.3
278	UAS 458	20S	5.8	20S	4.0	10S	1.5	20S	2.5
279	UAS 459	20S	5.8	20MR	1.9	15MR	0.8	40S	5.0
280	GW 1326	20S	4.3	10MS	1.8	0	0.0	100S	76.7
280. A	INFECTOR	100S	74.3	100S	75.7	100S	67.5	100S	80.0
281	DDW 37	20S	8.7	5MS	0.9	10S	2.4	40S*	4.9
<b>IVT</b>									
<b>I. NORTHERN HILL ZONE</b>									
282	VL 2015	40S	23.2	20S	6.9	10S	2.5	30S	3.6
283	HS 605	20S	4.1	10MS	1.3	TMR	0.1	30S	5.9
284	HS 608	20S	6.5	10MS	2.6	10S	1.3	60S*	6.4
285	VL 2013	15MS	2.3	10MS	1.6	0	0.0	40S	7.0
286	HPW 420	20MR	2.9	TR	0.0	0	0.0	20S	6.3
287	VL 2017	20MR	1.9	20S	5.4	10MS	1.0	40S	9.5
288	VL 2016	10MS	3.1	TR	0.0	20S	2.5	40S	8.8
289	HPW 418	20S	7.9	20S	8.0	TMR	0.1	20S	9.9
290	VL 2018	40S	16.0	40S	13.6	20S	3.8	60S	8.7
291	HS 606	20S	14.3	20S	7.9	20S	3.9	40S	8.1
292	HPW 414	20S	7.2	40S	16.1	20S	6.3	80S	20.8
293	HS 603	20S	9.4	60S	22.6	30MS	6.2	60S	9.0
294	HPW 415	30S	11.6	40S	19.9	30S	3.8	60S	14.2
295	UP 2916	60S	23.3	15MS	3.4	5MS	0.6	60S	17.9
296	HPW 417	20MS	8.2	40S	19.6	40S	10.8	60S	13.3
297	VL 2014	40S	14.0	20S	4.0	5S	0.6	60S	9.3
298	HS 597	30MS	9.4	20S	4.6	20S	2.5	40S	5.5

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Lear rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
299	HS 604	20S	9.0	10MS	1.7	60S*	7.5	20S	4.0
300	HPW 416	20S	7.4	40S	12.1	0	0.0	30S	9.7
300. A	INFECTOR	100S	74.3	100S	75.7	100S	60.0	100S	82.0
301	HS 607	15MS	3.0	30MS	8.6	20S	3.1	40S	9.9
302	HPW 419	10S	4.2	40S	14.7	40S*	5.3	20S	4.9
<b>II. SOUTHERN HILLS ZONE</b>									
303	HW 5248	20MR	2.6	5MR	0.3	20S	3.0	80S	26.0
304	HW 4206	10MR	1.0	TS	0.2	20MS	2.0	100S	46.0
305	HW 4207	10MS	1.4	10S	1.4	0	0.0	100S	57.0
306	HW 2044 (C)	20MS	5.7	15MS	2.3	0	0.0	60S	18.8
307	HW 4501	10MR	1.0	20MS	2.3	10MR	0.5	80S	27.7
308	HW 5216 (C)	10MS	3.0	10MR	0.6	0	0.0	60S	28.2
309	HW 3624-1	15S	2.5	10S	1.4	20S	2.5	80S	31.0
310	HW 4305-2	15MS	3.4	10MR	0.6	40S	5.6	80S	45.6
311	HW 3658	5MR	0.3	5MR	0.6	20S	3.0	80S	37.0
312	HW 4205-2	5MR	0.3	10S	1.4	10MS	1.6	80S	24.7
313	MACS 6670	30S	6.7	15MS	1.7	20S	2.5	80S	27.5
314	HW 5246	10S	2.7	5S	2.0	20S	2.5	80S	35.5
315	CoW (W) 1 (C)	10MS	3.0	20S	4.3	30S	3.8	40S	14.5
316	HW 5245	10MS	4.0	20S	11.0	5S	0.6	20S	5.5
317	UAS 376	10MR	1.3	20S	4.7	10S	2.5	80S	33.5
318	NIAW 2613	20S	6.6	20S	3.2	40S*	5.1	80S	27.7
319	HS 609	40MS	16.7	20S	3.0	10MR	0.5	80S	33.0
320	HS 610	60S	23.2	10MS	1.7	10MR	0.5	80S	22.2
321	UAS 377	20S	8.6	40S	14.0	5S	0.6	60S	32.0
322	HW 5247	10S	2.9	20S	2.9	TMR	0.1	80S	36.4
<b>III. SPECIAL MATERIAL</b>									
323	HW 5050	40MR	7.0	40S	15.4	10MS	2.0	80S	21.0
324	HW 5051	15MS	4.6	5MR	0.3	20S	2.5	80S	27.7
324.A	INFECTOR	100S	74.3	100S	75.7	100S	68.8	100S	75.0