

Annexure 3. Adult plant response of NIVT material against wheat rusts under field conditions (artificial inoculations) during 2015-16									
Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
NIVT 1A									
1	UP 2940	20S	7.8	20MS	5.7	20S	3.7	60S	13.0
2	K 1501	20S	10.9	5S	1.5	10S	1.8	60S	15.3
3	UP 2939	5MR	0.6	5MR	0.3	30S	4.4	60S	19.4
4	HD 3220	20MR	2.5	15MS	4.7	20S	3.9	20S	3.0
5	UP 2936	20S	7.0	30S	4.9	30S	8.0	60S	8.5
6	HUW 802	40MR	7.6	60S	30.0	20MS	5.8	40S	9.2
7	WH 1201	60S	25.2	40S	12.0	40S	9.9	0	0.0
8	RAJ 4465	30S	11.8	30S	9.7	20MR	1.1	40S*	4.5
9	HD 3222	5MR	0.5	5MR	0.3	5S	1.1	40S	9.9
10	HD 3218	40S	9.7	20S	4.4	5MS	0.9	60S	14.0
11	NW 6094	10MS	5.4	40S	7.7	0	0.0	40S	11.4
12	PBW 761	10S	4.1	5S	0.7	0	0.0	20S	2.1
13	HUW 801	60S	22.4	40S	8.3	40S	12.0	5S	0.9
14	PBW 747	30MS	6.8	10S	3.1	10MS	1.5	20S	4.5
15	HD 3223	15MS	6.4	40S	12.7	5MR	0.3	40S	9.6
16	WH 1203	40S	11.6	40S	8.4	TMS	0.1	10S	1.6
17	BRW 3786	20MS	7.0	30S	12.1	20MR	1.8	20S	6.4
18	JKW 230	TR	0.1	TMR	0.1	5S	1.3	80S	43.7
19	DBW 194	10S	3.6	10S	1.6	10S	2.5	40S	16.5
20	DBW 189	40MS	14.4	10MS	1.8	TMS	0.1	60S	18.6
20. A	INFECTOR	100S	80.0	100S	71.3	100S	73.8	80S	66.0
21	DBW 193	30S	10.0	10MR	0.8	0	0.0	60S	12.4
22	K 1503	20MR	2.7	30S	4.4	10S	2.1	80S	28.2
23	RAJ 4462	10MR	0.9	10S	3.2	20S	2.6	80S	22.0
24	UP 2937	20MR	1.9	40S*	5.3	0	0.0	10S	1.1
25	WH 1200	20MS	4.9	5MR	0.3	0	0.0	5S	0.6
26	RAJ 4464	20S	7.0	20S	2.8	5S	0.6	40S	7.5
27	NW 6078	5MR	0.5	5MR	0.6	10S	1.9	80S	20.5
28	DBW 188	10S	6.4	40S	8.2	0	0.0	20S	4.0
29	PBW 744	20S	8.7	5MR	0.7	10S	1.3	10S	1.0
30	BRW 3785	20S	6.6	40S*	5.4	20S	5.0	60S	10.1
31	HD 3221	20S	7.4	60S	18.8	40S	6.9	40S	8.1
32	K 1502	10S	5.3	20S	3.3	10S	1.3	TS	0.1
33	RAJ 4463	5MR	0.6	10S	1.8	5S	1.3	20S	4.3
34	UP 2938	10S	3.6	20S	3.0	10S	1.4	60S	12.0
35	DBW 192	10MR	1.0	40S	18.1	20S	3.6	5S	0.5
36	WH 1204	20S	6.4	5MR	0.4	0	0.0	20S	3.5
37	PBW 745	5MR	0.5	20S	2.8	TMS	0.1	TS	0.1
38	HD 3217	10S	4.5	10MS	1.1	0	0.0	40S	11.1
39	PBW 746	5MS	1.3	20S	3.1	10S	2.0	10S	1.0
40	DBW 187	20MS	5.2	30S	4.1	10MS	1.1	20S	3.0
40. A	INFECTOR	100S	78.0	100S	65.0	100S	68.8	90S	68.0
41	DBW 191	20S	8.5	15MS	3.6	40S	8.2	60S	11.6
42	HD 3219	30S	7.7	30S	8.8	TMR	0.1	80S	25.0
43	HP 1962	20S	8.1	20S	4.8	5S	1.1	60S	18.8
44	DBW 190	20MS	7.0	20MS	2.7	10MR	0.6	60S	14.5
45	WH 1202	40S	15.3	10MS	2.7	10S	1.4	20S	4.5
NIVT 1B									
46	PBW 749	30MS	8.6	40S	6.3	10S	2.5	20S	2.0
47	K 1508	20MR	1.7	20S	3.2	10S	1.9	60S	15.0
48	DBW 199	40S	20.0	60S	25.1	20S	3.6	60S	21.9
49	NW 6079	20MS	8.4	20S	3.1	30S	5.0	40S	13.2

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
50	K 1506	20MS	5.6	TS	0.2	20MR	1.0	40S	5.5
51	BRW 3770	40S	12.8	10MR	0.6	5MS	0.5	40S	9.2
52	RAJ 4468	20MR	2.6	20S	3.6	10S	1.9	20S	5.5
53	HP 1963	20MS	7.2	80S	29.6	20S	5.5	40S	7.0
54	JKW 225	10MR	0.9	TR	0.0	TMS	0.1	20S	4.0
55	NW 6093	5MR	0.4	5S	1.7	15S	1.9	80S	31.0
56	PBW 750	30S	10.1	10MS	1.2	0	0.0	40S	9.0
57	HD 3228	40S	20.4	20S	7.3	5S	0.6	20S	3.5
58	JKW 221	60S*	12.8	10S	2.6	0	0.0	60S	13.5
59	RAJ 4466	60S	23.6	40S	13.5	20S	5.5	60S	14.5
60	HUW 806	20S	9.2	40S	10.8	30S	8.4	40S	5.7
60. A	INFECTOR	100S	78.0	100S	73.8	100S	71.3	80S	66.0
61	DBW 197	30S	10.4	60S	13.3	40S	20.0	40S	9.1
62	WH 1206	20MS	5.7	40S	7.6	40S*	5.1	60S	7.6
63	HD 3227	10MS	3.6	10MS	1.4	30S	4.9	40S*	4.6
64	HUW 807	30S	10.8	20S	3.7	10MS	1.1	20S	2.2
65	NW 6082	30MR	4.0	20S	3.1	10MS	1.0	60S	15.2
66	UBW-8	10MR	0.8	TR	0.1	30S	6.3	40S	8.0
67	DBW 196	10MS	1.6	10MS	1.3	TR	0.0	40S	7.5
68	K 1505	10S	3.7	40S*	5.3	TS	0.2	40S	12.5
69	WH 1207	10MR	0.9	10S	1.4	10S	1.3	20S	3.1
70	HD 3229	5MR	0.6	5MR	0.3	20S	3.1	10S	2.6
71	PBW 748	20MS	8.8	60S	26.0	20S	6.7	20S	2.1
72	BRW 3771	60S	14.8	30S	5.8	40S	10.0	60S	15.0
73	K 1507	20MS	5.2	10MS	1.1	10MR	0.6	40S	9.5
74	DBW 195	30S	11.4	10MS	1.3	0	0.0	40S	6.6
75	WH 1205	20S	7.2	40S	7.0	60S	13.1	60S	12.0
76	K 1504	10MS	3.2	5MR	0.3	TR	0.0	20S	2.6
77	AAIW 8	10S	3.2	10MS	1.7	10MR	0.5	60S	19.0
78	DBW 198	40MR	4.8	20S	3.2	5MR	0.3	80S	23.0
79	HD 3225	20S	9.6	10S	1.6	10S	1.3	20S	3.5
80	BRW 3773	40S	16.0	20S	7.3	0	0.0	20S	2.1
80. A	INFECTOR	100S	80.0	100S	72.5	100S	72.5	80S	70.0
81	HD 3226	20MR	3.3	40S	8.0	40S	9.3	20S	2.1
82	HUW 804	60S	14.6	40S	11.3	10S	2.6	80S	41.0
83	UP 2941	30MS	9.0	40S	6.2	0	0.0	80S	21.6
84	NW 6088	60S	22.4	20S	4.5	0	0.0	60S	11.3
85	HD 3224	20S	6.4	10MR	1.3	10S	1.9	60S	22.0
86	UP 2942	10S	3.1	10MR	0.5	0	0.0	60S	10.5
87	HUW 803	10S	2.6	10S	2.5	20S	3.0	40S	9.2
88	HD 3230	20MS	6.5	20S	4.8	10S	2.9	80S	17.0
89	NW 6090	20MS	8.8	10S	2.3	15S	3.6	40S	5.6
90	UP 2943	20S	7.6	20S	3.6	5S	0.6	60S	9.5
NIVT 2									
91	UAS 379	10S	8.0	40S	9.1	10S	3.6	80S	44.2
92	RVW 4246	60S	18.8	10S	1.6	5S	1.4	100S	35.2
93	RAJ 4470	20MS	5.7	40S	11.2	TMS	0.2	80S	34.1
94	GW 485	10S	3.6	5MR	0.3	20S	2.5	80S	30.2
95	HI 1613	10MR	0.9	TR	0.0	10S	1.9	80S	41.5
96	GW 481	20S	5.6	10MR	0.6	10S	1.9	80S	57.0
97	RVW 4247	5MR	0.5	TS	0.3	60S	8.0	80S	31.0
98	K 1510	10S	3.8	20S	4.6	10S	1.4	60S	15.5
99	JWS 149	10MS	5.6	40MR	4.1	10MR	0.5	80S	31.6
100	DBW 201	40S	14.8	60S	14.3	20S	2.5	40S	9.5
100. A	INFECTOR	100S	76.0	100S	70.0	100S	72.5	100S	69.0
101	MACS 6692	30MS	10.8	5S	1.5	10MR	0.5	80S	35.6

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
102	HI 1615	20S	8.6	20S	3.5	5S	0.6	60S	17.8
103	NIAW 2844	60S	30.4	20S	5.6	40S*	5.6	80S	35.9
104	AKAW 4899	60S	29.6	60S	22.4	20S	6.3	100S	51.0
105	MP 1324	20MS	5.6	10S	3.4	10S	1.6	60S	21.0
106	HI 1616	30MR	4.8	10S	1.7	10S	2.7	80S	45.0
107	UAS 378	20MR	2.2	5MR	0.3	20S	2.6	20S	4.5
108	UAS 380	20MS	6.0	40S	12.9	20S	5.1	80S	26.0
109	MP 1325	30MS	10.0	20MS	4.7	5S	0.8	60S	24.4
110	MP 3465	40MS	10.4	20S	3.5	10S	1.3	20S	4.5
111	HD 3231	40S	22.4	40S	15.6	10S	2.3	80S	37.0
112	WH 1208	20MS	3.7	10S	2.4	20S	3.3	40S	8.0
113	GW 480	30MS	10.6	20S	6.0	10S	1.9	80S	34.0
114	UP 2944	10S	6.4	40S	8.4	5S	0.7	40S	8.0
115	MP 1323	20S	7.3	20S	7.0	5MR	0.3	40S	13.3
116	GW 479	10S	3.6	5MR	0.4	20S	3.8	80S	56.5
117	HI 1544 (C)	15MS	4.2	40S	5.1	5S	1.2	80S	42.6
118	DBW 200	30MS	10.4	20S	4.1	10S	2.1	80S	19.0
119	MACS 6689	5MR	0.5	TMR	0.1	10S	2.5	100S	71.0
120	UAS 381	40S	13.6	40S	7.9	10S	4.4	20S	3.3
120. A	INFECTOR	100S	76.0	100S	66.3	100S	75.0	90S	66.0
121	NIAW 2892	40MS	6.6	10MS	1.6	0	0.0	40S	8.7
122	PBW 751	TR	0.1	TR	0.0	0	0.0	60S	11.6
123	HI 1614	40S	16.2	10S	4.3	TR	0.0	40S	15.4
124	GW 483	40MS	6.9	40S	5.2	10S	2.1	80S	55.6
125	CG 1020	20S	8.8	10S	3.6	5S	1.0	60S	30.7
NIVT - 3A									
126	PBW 754	20S	8.4	80S	28.8	20S	2.5	20S	3.6
127	HD 3235	30S	8.1	10S	2.6	0	0.0	80S	13.5
128	HD 3232	10MS	4.0	5MS	3.1	TR	0.0	60S	19.2
129	HD 3234	20MS	3.7	10S	2.3	5S	0.9	5S	1.8
130	HI 1617	20MS	11.2	20MR	1.2	5S	0.7	60S	11.7
131	HP 1964	30S	10.0	5MS	1.0	10S	1.6	80S	24.5
132	HUW 810	10MS	6.4	40S	10.1	TS	0.1	40S	7.4
133	K 1514	20S	5.7	40S	11.7	10S	2.3	60S	32.2
134	K 1512	20S	8.2	30S	5.6	0	0.0	60S	19.0
135	HUW 808	15MS	5.6	20S	6.5	5MR	0.4	60S	20.6
136	DBW 203	10S	2.6	5MR	0.3	5S	0.7	20S	3.2
137	RAJ 4471	20MR	3.2	20MR	1.3	0	0.0	40S	5.5
138	BRW 3777	30S	13.2	10S	1.5	0	0.0	60S	11.5
139	HI 1563 (C)	5MR	0.5	5MR	0.4	10S	2.4	80S	26.0
140	UP 2948	20MS	6.2	15MS	3.3	TMS	0.1	20S	5.1
140. A	INFECTOR	100S	78.0	100S	75.0	100S	71.3	100S	68.0
141	JKW 222	40S	14.2	10MS	2.7	10MR	0.5	60S	29.5
142	UP 2945	20MS	4.7	5S	1.2	0	0.0	40S	5.1
143	WH 1210	20MS	5.6	TMR	0.1	0	0.0	20S	2.5
144	WH 1211	10MS	3.0	20MS	4.3	0	0.0	40S	7.0
145	UBW 9	40MR	3.3	30S	7.4	15MS	1.8	20S	4.7
146	K 1513	30S	12.8	20S	4.4	15S	6.8	60S	20.0
147	UP 2947	10MR	1.1	5S	0.9	10S	3.4	60S	26.0
148	HUW 809	20S	9.0	30MS	9.6	10S	1.9	60S	7.5
149	WH 1209	TR	0.2	15MS	2.0	TR	0.0	20S	2.4
150	PBW 752	20S	4.8	10S	3.4	10S	1.3	10MR	0.5
151	RAJ 4472	10MR	1.3	20MS	2.3	TS	0.2	60S	15.2
152	HD 3233	20S	13.8	10S	2.1	5MR	0.3	80S	30.0
153	PBW 753	15MS	5.2	5MS	0.6	5MR	0.3	20S	2.5
154	DBW 205	20S	10.8	60S	28.0	10MR	0.5	20S	3.2

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
155	DBW 202	20S	7.7	10MS	1.2	5S	0.6	80S	20.5
156	NW 6071	20MS	8.8	5S	1.2	0	0.0	20S	3.5
157	DBW 204	40MS	10.4	10S	1.6	10S	1.3	60S	14.1
158	NW 6080	20S	11.6	20S	5.9	TMR	0.1	20S	2.2
NIVT 3B									
159	MP 1327	20MS	6.0	15MS	3.4	TR	0.0	5S	1.7
160	NIAW 2721	10S	5.2	40S	9.3	TR	0.0	80S	34.0
160. A	INFECTOR	100S	76.0	100S	70.0	100S	73.8	90S	69.0
161	UAS 382	10S	3.8	10MS	2.1	5MR	0.3	80S	14.0
162	RAJ 4474	40MR	3.3	TR	0.0	0	0.0	80S	22.2
163	UAS 383	20S	7.6	60S	11.0	TMS	0.2	80S	28.7
164	HI 8780	20MS	4.8	20S	4.3	5S	1.4	80S	11.4
165	DBW 209	10S	6.4	20S	5.4	5S	0.9	80S	27.0
166	NIAW 2725	15MS	4.3	40S	10.0	5S	0.6	80S	34.8
167	CG 1022	15MS	6.6	20S	8.8	20MR	1.1	60S	9.6
168	AKAW 4127	5MR	0.5	20S	3.2	15S	3.4	80S	23.8
169	PBW 755	TS	0.4	10S	1.3	60S*	7.5	20S	2.2
170	MACS 6618	30MS	6.8	20S	6.2	5S	0.8	100S	68.0
171	DBW 208	20MS	6.4	20S	3.9	20S	3.6	60S	11.4
172	PBN 4585	60S	21.2	60S	32.8	10MS	1.5	80S	47.0
173	WH 1214	30MS	10.0	20S	5.2	5S	2.0	30S	5.2
174	NIAW 2891	5MR	0.5	0	0.0	10S	1.4	60S	13.4
175	RVW 4241	10S	2.2	30S	6.3	40S	8.8	60S	20.1
176	DBW 206	60S	14.5	60S	14.3	20S	3.0	80S	24.3
177	MACS 6679	5MS	1.7	10MS	1.6	TMR	0.1	60S	16.0
178	MP 1326	10MS	4.4	20S	6.4	10MS	1.0	20S	2.5
179	HI 8781	20S	4.5	10MR	0.5	20S	2.5	40S	5.6
180	GW 488	20MR	1.7	TR	0.1	10MS	1.6	80S	50.0
180. A	INFECTOR	100S	76.0	100S	77.5	100S	70.0	80S	69.0
181	MP 1328	40MR	3.3	40S	11.0	5MS	0.7	80S	28.6
182	CG 1021	20MR	2.1	10S	2.5	20S	3.3	80S	66.0
183	MP 4010 (C)	10MR	0.9	TR	0.1	5S	0.7	80S	35.7
184	HI 1618	10MS	3.3	5MR	0.3	5MR	0.3	80S	39.8
185	GW 486	20S	4.1	TR	0.1	5MS	0.5	80S	57.4
186	HP 1965	15MS	5.2	60S	19.1	10S	2.1	80S	30.4
187	MP 3456	20MS	4.0	20S	3.8	20S	2.5	80S	40.4
188	DBW 207	20MS	7.6	20S	5.2	0	0.0	60S	29.0
189	GW 487	15S	4.6	20MS	2.0	20S	3.3	80S	33.8
190	WH 1213	10MS	3.6	20S	5.1	5S	0.9	40S	4.3
191	MP 3459	10S	7.6	10MS	2.9	10S	2.3	40S	8.4
NIVT - 4									
192	GW 1330	10S	3.2	20MS	3.4	20MS	2.0	20S	3.7
193	PDW 350	10MS	1.8	10MR	0.8	10MR	1.0	TR	0.0
194	UAS 461	10MR	1.7	5MS	1.1	15MR	1.3	20S	2.5
195	HI 8787	10S	3.7	20MR	1.1	5MS	0.5	20S	3.1
196	GW 1332	10MS	3.4	5MS	0.9	10S	4.5	40S	8.3
197	GW 1329	5MS	1.3	20MR	1.7	10MS	1.8	40S	5.2
198	MPO 1329	10MR	1.1	10MR	0.8	40S	6.0	20S	3.9
199	NIDW 1055	10MR	1.0	20MS	2.6	TR	0.0	5MR	0.2
200	PDW 348	10MR	1.1	20S	4.6	10MR	1.0	20S	2.7
200. A	INFECTOR	100S	78.0	100S	73.8	80S	66.3	100S	75.0
201	DDW 40	5MS	2.0	20MR	1.1	20MR	1.3	0	0.0
202	PDW 349	10MR	1.4	20MS	4.1	30S	8.3	10S	1.1
203	PBND 4826	10S	3.2	40S	8.3	30S	6.8	20S	2.2
204	AKDW 4905	10MS	4.8	10MS	2.8	20S	3.8	0	0.0
205	HI 8786	20MS	3.3	20MS	2.8	20S	3.0	TMS	0.1

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
206	GW 1331	10MR	1.7	10MS	1.9	40S	8.9	20S	8.7
207	MACS 4049	20S	6.0	30MS	5.3	40S	9.5	10MS	1.5
208	HI 8785	20MR	2.5	20MR	1.1	10S	2.9	10S	3.0
209	HI 8784	10MS	2.1	10MR	0.8	10MR	0.8	10MS	0.9
210	MACS 4054	40MS	17.2	10MS	1.1	10S	1.3	30S	8.0
211	PDW 347	20S	6.9	10S	2.6	20S	3.3	5MS	0.4
212	WHD 960	60S	22.1	20MR	1.8	15MS	2.8	10MS	1.2
213	NIDW 1038	5MR	0.9	30S	5.1	40S	12.5	TR	0.0
214	DDW 39	40S	16.6	5MR	0.4	TR	0.0	20S	2.4
215	HI 8783	10S	2.8	10MR	0.8	20MR	1.0	5MS	0.6
216	HI 8782	20S	5.8	20MS	2.5	TR	0.0	20S	3.8
217	WHD 959	40S	15.6	20MR	1.6	10MS	1.0	10MR	0.4
218	RKD 305	10S	3.6	20MR	1.7	40S	5.0	20S	3.6
219	HI 8788	20MR	2.6	20MR	2.1	30MS	5.0	10S	1.4
220	MPO 1330	10MS	2.5	5MR	0.3	20MR	1.0	40S*	4.9
220. A	INFECTOR	100S	80.0	100S	67.5	100S	72.5	80S	72.0
221	UAS 460	10MR	1.0	20S	4.8	20MS	4.0	20S	2.8
222	UPD 2949	10MR	0.9	20MR	1.4	40S	7.5	10S	1.4
223	MACS 4050	30MS	12.1	10MR	1.0	20MR	1.5	40S	9.8
224	RKD 296	TR	4.1	10MR	1.5	5S	0.6	20S	2.8
225	GW 1328	10MR	1.4	5MR	0.3	5MR	0.3	40S	6.0
NIVT - 5A									
226	K 1516	20S	5.8	10MS	2.0	10S	1.3	80S	30.5
227	DBW 213	10S	2.5	10MS	2.1	10S	1.8	60S	14.5
228	MACS 6677	10S	6.0	60S	24.1	10MR	1.0	30S	10.2
229	MP 1318	TS	0.2	10MS	1.1	TMR	0.1	40S	11.5
230	BRW 3775	20S	9.8	60S	19.8	10S	2.3	40S	11.1
231	DBW 212	10S	4.8	40S	8.4	20MR	1.9	40S	6.0
232	NIAW 2822	10S	3.0	TS	0.2	20S	3.5	100S	52.4
233	MACS 6678	30S	11.0	TR	0.1	0	0.0	60S	7.0
234	UP 2951	5MR	0.9	10MS	1.2	0	0.0	40S	5.0
235	K 1517	20S	5.4	40S	8.8	20S	4.5	60S	12.5
236	NIAW 2930	15MS	4.8	40S	7.8	5MS	0.5	60S	10.8
237	DBW 110 (C)	10MS	2.2	10S	1.8	10S	1.5	60S	15.6
238	MP 3466	20S	10.0	5MS	1.1	20S	3.4	60S	18.9
239	MP 1320	TR	0.0	TR	0.0	TR	0.0	80S	14.6
240	JWS 148	5MR	0.7	40S*	5.3	10S	1.3	80S	48.2
240. A	INFECTOR	100S	80.0	100S	70.0	100S	70.0	80S	73.0
241	DBW 210	TR	0.1	40S	11.2	10S	1.3	60S	10.0
242	HI 1620	20MS	3.8	20MR	1.8	5S	0.9	40S	4.6
243	PBW 758	10MS	3.8	60S	21.3	40S	11.2	60S	9.5
244	UP 2950	10MS	5.6	40S	12.7	20S	4.3	100S	40.0
245	HS 611	20S	10.8	10S	4.3	TR	0.0	20S	4.0
246	HI 1619	40S	24.8	10S	2.7	10S	2.5	20S	2.0
247	PBW 759	20MS	4.3	5S	1.7	20S	8.9	40S	5.5
248	UAS 385	30S	12.6	80S	16.1	20MR	1.0	80S	39.4
249	HD 3237	20S	9.0	60S	23.8	40S	6.0	10S	1.6
250	WH 1199	20S	9.8	40S	10.1	30S	6.1	10S	1.0
251	CG 1023	10S	4.2	40S	10.6	40S	7.5	40S	9.5
252	DBW 211	30S	14.0	10MS	1.8	5S	0.7	40S	6.5
253	WH 1198	40S	15.4	20S	3.7	5MS	0.6	20S	2.5
254	HD 3238	10MS	2.0	20MS	2.4	20S	2.5	40S	8.9
255	K 1515	20MR	2.1	5S	0.8	5S	1.1	60S	10.5
256	MP 1319	20MR	1.9	40S	18.9	10MS	1.3	80S	46.5
257	MP 1317	40S	20.4	20S	7.6	10S	2.4	80S	46.5
258	UAS 384	10MS	5.2	5S	1.9	20S	4.9	40S	11.2

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
NIVT - 5B									
259	GW 1333	20MR	1.6	40S	11.4	60S	10.4	80S	50.3
260	HI 8789	5MR	0.6	10MS	2.0	10S	2.8	20MR	1.7
260. A	INFECTOR	100S	80.0	100S	72.5	100S	66.3	80S	71.0
261	NIDW 1063	5MR	0.5	5MS	1.4	5MR	0.3	10S	1.5
262	MPO 1321	5S	1.5	20MR	1.0	10MR	0.5	TS	0.1
263	HI 8793	5MR	0.9	10MS	2.6	20MR	1.1	5MS	0.6
264	HI 8792	5MR	0.5	10MS	2.3	TMR	0.1	20S	3.0
265	GW 1335	10S	2.5	5MR	0.3	40S	7.9	60S	11.5
266	NIDW 1053	10MS	2.6	10MR	0.9	20MR	1.9	20S	3.5
267	RKD 302	20S	4.8	20MR	1.1	10MR	0.6	TS	0.1
268	UAS 462	5MR	0.6	20MR	1.6	20S	3.3	40S	4.4
269	MACS 4040	20S	5.8	20S	3.6	30MS	3.3	40S	10.7
270	GW 1336	30MS	5.3	40S	13.1	10S	2.3	100S	79.0
271	MACS 4044	60S	18.8	30S	7.5	20S	5.6	60S	22.3
272	GW 1334	20S	6.8	30S	5.1	40S	7.5	100S	62.0
273	DDW 41	10MR	1.3	10MS	2.5	40S	6.8	5MR	0.2
274	HI 8790	5MS	2.1	5MR	0.6	20MR	1.8	0	0.0
275	UAS 463	5MS	1.7	TR	0.1	20MR	1.0	5MR	0.2
276	HI 8627 (C)	5MR	0.5	10MS	1.3	20MR	1.3	40S	4.7
277	DDW 42	40S	11.4	20MR	1.1	20MR	1.1	40S*	4.6
278	MACS 4042	80S	22.0	20MS	4.5	40S	10.4	60S	19.0
279	GW 1337	40MS	7.4	70S	20.3	60S	11.1	80S	47.2
280	RKD 306	20MR	2.9	20MR	1.6	20MR	2.1	40S	4.3
280. A	INFECTOR	100S	80.0	100S	70.0	100S	72.5	80S	70.0
281	MPO 1322	5MR	0.5	5MR	0.4	20S	3.8	30S	5.6
282	HI 8791	TR	0.1	10MS	1.5	20MR	1.1	5MS	0.5
IVT									
I. NORTHERN HILL ZONE									
283	HPW 425	10MS	4.4	20S	7.4	10MR	0.5	5S	0.7
284	VL 2022	30S	15.2	10MR	1.1	0	0.0	20S	2.6
285	VL 2019	15MS	2.6	TR	0.0	TMR	0.1	40S	8.5
286	HPW 431	5MS	1.3	10S	3.6	TMS	0.1	20S	4.6
287	HPW 430	15MS	3.7	10S	3.0	0	0.0	20S	2.6
288	UP 2953	10MS	4.0	20S	4.1	40S	9.6	80S	18.0
289	VL 2024	20MS	4.8	10S	3.4	0	0.0	40S	5.1
290	VL 2023	15MS	6.4	60S	19.7	TMS	0.1	5S	0.6
291	HPW 427	30S	15.6	40S	9.8	5S	1.5	40S*	4.1
292	HS 616	5MS	1.7	20S	7.6	5MS	0.5	20S	3.2
293	HS 612	15MS	2.8	20S	8.4	60S*	8.0	20S	5.1
294	HPW 429	15MS	3.7	40S	7.8	10S	1.3	20S	3.1
295	HPW 426	5MS	1.2	10S	2.9	0	0.0	20S	4.5
296	UP 2952	15MS	5.0	10MS	1.8	5S	0.6	40S	7.2
297	HS 615	15MS	3.7	20S	8.9	5S	0.6	20S	4.0
298	HPW 428	30S	13.4	60S	20.5	10S	4.3	40S	8.1
299	HS 613	20MS	7.4	60S	10.7	60S	10.0	60S	12.5
300	HS 614	20S	7.0	20S	4.1	5MR	0.3	20S	3.1
300. A	INFECTOR	100S	82.0	100S	73.8	100S	68.8	80S	72.0
301	HS 617	20MR	2.1	40S	16.5	10S	1.5	40S	6.0
302	VL 907(C)	20MR	1.7	60S*	8.2	20S	3.3	20S	5.8
303	VL 2020	10MR	1.3	20MS	3.6	10S	1.3	20S	2.1
304	VL 2021	20MS	3.3	10S	3.6	10S	1.8	TS	0.1
305	HS 618	10MR	1.3	30S	9.0	20S	2.8	20S	2.0
II. SOUTHERN HILLS ZONE									
306	HS 621	5MS	2.8	40S	6.2	0	0.0	40S*	4.2
307	UAS 386	15MS	4.4	40S	13.9	20S	2.7	80S	46.6

Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)							
		Stem rust		Leaf rust				Stripe Rust	
		HS	ACI	South		North		HS	ACI
				HS	ACI	HS	ACI		
308	HW 1909	TR	0.1	5MR	0.3	10S	2.1	80S	37.6
309	HW 3658-4	5MS	0.8	20S	3.6	10MR	0.5	80S	41.0
310	HW 1924	5MS	0.9	TR	0.0	5S	0.6	100S	55.4
311	HW 5253	10MR	0.9	10MS	1.0	5MR	0.4	80S	39.8
312	HW 5252	TR	0.0	TR	0.1	TS	0.1	80S	47.8
313	HW 3658-3	TR	0.0	TR	0.0	0	0.0	80S	46.8
314	HW 1908-1	20MR	2.5	30S	9.5	10S	2.3	80S	46.2
315	UAS 387	40MS	12.8	10S	3.6	20S	4.0	40S	5.2
316	NIAW 2891	20MR	1.7	30S	3.8	80S*	10.7	80S	27.8
317	HW 5249	5MR	0.5	15MS	3.9	10S	1.5	80S	33.0
318	HW 1908	20MS	5.8	10MS	3.1	5S	0.7	60S	16.4
319	HS 619	20S	10.0	20S	3.7	0	0.0	20S	3.0
320	MACS 6686	30S	13.0	10S	3.5	40S*	5.0	20S	2.0
321	HS 620	30S	8.5	40S	14.0	20S	5.0	40S	7.5
321. A	INFECTOR	100S	80.0	100S	70.0	100S	63.8	80S	71.0