

Annexure 1. Adult plant response of AVT IInd year material against wheat rusts under field conditions (artificial inoculations) during 2015-16												
Sr. No.	Variety	RUST RESPONSE (HIGHEST SCORE AND ACI)								Postulated Gene		
		Stem rust		Leaf rust				Stripe Rust		Sr	Lr	Yr
				South		North						
		HS	ACI	HS	ACI	HS	ACI	HS	ACI			
I. NORTHERN HILL ZONE												
1	HPW 251 (C)	10MS	2.9	20S	3.7	10S	2.3	80S	37.1	Sr 31+2	Lr 26+23+	Yr 9+
2	HS 375 (C)	20MR	2.4	20MS	7.4	30S	5.9	60S	28.1	Sr 31+5+2+	Lr 26+34+	Yr 9+18+
3	HS 490 (C)	10S	4.5	20MS	5.9	10S	1.3	60S	12.6	Sr 9b+2+	Lr 23+	-
4	HS 507 (C)	20MS	3.7	30S	4.2	10MS	1.7	20S	6.0	Sr 31+	Lr 26+1+	Yr 9+2+
5	HS 542 (C)	5MR	0.7	10S	1.8	5S	0.7	40S	10.4	R	Lr 13+10+	Yr 2+
6	VL 829 (C)	5MR	0.4	5MS	1.1	10MS	2.5	60S	18.6	Sr 31+5+	Lr 26+34+	Yr 9+18+
7	VL 892 (C)	20S	4.8	20S	4.0	40S*	5.0	60S	15.3	Sr 2+	Lr 13+10+	Yr A+
II. NORTH WESTERN PLAIN ZONE												
8	DBW 88 (C)	20MS	6.4	10S	2.2	10S	2.3	40S	18.0	Sr 11+2+	Lr 13+10+3+	-
9	DBW 90 (C)	40S	19.6	20S	4.4	20S	6.2	40S	9.1	Sr 2+	Lr 13+10+3+	--
10	HD 3043 (C)	10MS	4.8	40S	16.9	40S	8.6	60S	10.5	R	Lr 23+	-
11	HD 2967 (C)	60S	20.8	20S	4.8	10S	2.6	80S	40.0	-	Lr 23+	Yr 2+
12	HD 3059 (C)	20S	6.8	10S	3.3	10MS	1.2	60S	20.0	Sr 11+2+	Lr 13+	-
13	HD 3086 (C)	60S	30.4	30S	5.4	30S	7.2	10S	2.1	Sr 7b+2+	Lr 13+10+3+	Yr 2+
14	PBW 644 (C)	10S	6.4	10S	3.3	10S	1.9	40S	10.0	Sr 11+2+	Lr 13+	Yr 2+
15	WH 1021 (C)	10S	3.6	10S	2.6	10S	2.4	60S	38.5	Sr 31+2+	Lr 26+	Yr 9+
16	WH 1080 (C)	20S	9.4	40S	7.0	20S	5.9	20S	4.3	Sr 9e+2+	Lr 13+	Yr 2+
17	WH 1105 (C)	30S	8.6	40S	7.6	40S	7.0	80S	18.0	Sr 11+2+	Lr 13+	Yr 2+
18	WH 1124 (C)	60S	26.8	20S	4.6	30S	7.2	60S	7.5	Sr 7b+2+	Lr 13+10+	Yr 2+
19	WH 1142 (I) C)	40S	17.2	60S	25.6	20S	4.6	30S	4.7	Sr 31+2+	Lr 26+23+	Yr 9+
III. NORTH EASTERN PLAIN ZONE												
20	HD 3171	30MS	8.6	40S	7.4	10S	1.3	40S	14.8	Sr 11+7b+2+	Lr 13+	-
20. A	INFECTOR	100S	88.0	100S	72.5	100S	63.8	80S	68.0	-	-	-
21	K 1317	10S	4.2	20MS	3.8	5S	0.9	40S	14.0	-	-	-
22	C 306 (C)	40S	38.0	60S	31.5	80S	33.8	60S	23.5	-	-	Yr 18+
23	DBW 39 (C)	10MS	4.2	10MS	3.2	10S	1.9	80S	31.5	Sr 31+	Lr 26+23+10+	Yr 9+
24	HD 2733 (C)	20MS	6.1	40S	18.3	10S	2.2	80S	64.0	Sr 31+2+	Lr 26+3+	Yr 9+18+

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		Stem rust		Leaf rust				Stripe Rust		Sr	Lr	Yr
		HS	ACI	South		North		HS	ACI			
				HS	ACI	HS	ACI					
25	HD 2888 (C)	10S	4.4	20MR	1.3	5S	0.8	60S	21.1	-	-	Yr 2+
26	K 8027 (C)	40S	28.8	60S	23.8	40S	20.0	60S	28.0	Sr 11+2+	Lr 13+	Yr 2+
27	K 0307 (C)	40S	20.0	40S	23.0	40S	6.5	80S	26.4	Sr 2+	Lr 23+	Yr 2+
28	K 1006 (C)	20S	13.0	40S	25.5	5S	1.2	60S	22.5	Sr 8a+9b+11+	Lr 13+	Yr 2+
IV. CENTRAL ZONE												
29	HI 8759 (D)	20S	6.0	20MS	3.3	5MS	1.0	10S	3.5	Sr 11+2+	-	Yr 2+
30	HD 4728 (D) (I) (C)	20MS	6.4	10MR	0.7	5MS	0.5	5S	0.8	Sr 11+2+	-	Yr 2+
31	HI 8498 (D) (C)	30S	7.6	20S	4.7	10S	1.8	5MR	0.2	Sr 11+2+	Lr 23+	Yr 2+
32	HI 8737 (D) (C)	20S	6.0	20S	3.9	10S	2.5	5S	1.3	-	Lr 23+	Yr 2+
33	MPO 1215 (d) (C)	20S	5.4	30S	3.9	TR	0.0	10S	1.3	Sr 11+	Lr 23+	-
V. PENINSULAR ZONE												
34	MACS 3949 (d)	40S	12.0	20MR	1.3	TS	0.2	10S	3.5	Sr 7b+2+	-	-
35	HI 1605	20S	7.0	20S	5.8	20S	5.1	40S	10.4	Sr 5+11+	Lr 13+	-
36	AKDW 2997-16(d) (C)	40MS	14.0	20S	5.4	40S	8.6	60S	11.8	Sr 7b+2+	-	-
37	DBW 93 (C)	15MS	6.0	40S	13.5	20S	5.6	80S	35.2	Sr 31+2+	Lr 26+23+	Yr 9+
38	HD 2932 (C)	40MS	16.6	40S	14.2	40S	18.1	80S	44.5	Sr 25+2+	-	-
39	MACS 6222 (C)	30MS	5.8	5S	0.7	10S	1.5	60S	15.3	Sr 31+2+	Lr 26+1+	Yr 9+27+
40	MACS 6478 (C)	60S	16.8	30S	7.3	5S	0.8	80S	48.0	-	Lr 23+1+	Yr 2+
40. A	INFECTOR	100S	80.0	100S	68.8	100S	72.5	100S	73.0	-	-	-
41	NI 5439 (C)	80S	33.6	80S	47.0	80S	25.0	90S	71.0	Sr 11+	Lr 34+	Yr 2+18+
42	NIAW 1415 (C)	20MR	1.7	5MS	1.1	20S	2.6	80S	68.0	Sr 31+2+	Lr 26+1+	Yr 9+
43	NIAW 34 (C)	10S	4.6	30MS	9.2	20S	4.1	80S	32.8	-	-	-
44	NIDW 295 (D) (C)	30S	9.2	20MR	1.8	5S	1.0	5S	0.9	Sr 2+	-	-
45	RAJ 4083 (C)	10S	4.6	10S	3.8	10S	1.3	60S	18.3	Sr 11+2+	Lr 23+	-
46	UAS 428 (d) (C)	10S	6.4	30S	8.1	30S	6.3	5S	1.4	-	Lr 23+	-
47	UAS 446 (d) (C)	30S	11.7	20MR	1.0	5S	0.7	5S	1.3	Sr 11+2+	Lr 23+	Yr 2+
VI. SOUTHERN HILLS ZONE												
48	HW 2044 (C)	20S	6.0	30S	4.4	0	0.0	60S	22.6	-	-	-
49	HW 5216 (C)	20MR	2.5	TMR	0.1	10S	2.4	80S	41.6	-	-	-
50	CoW (W) -1 (C)	5MR	0.5	20S	10.3	40S	10.5	60S	10.1	-	-	-

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		Stem rust		Leaf rust				Stripe Rust		Sr	Lr	Yr
		HS	ACI	South		North		HS	ACI			
				HS	ACI	HS	ACI					
VII. SPECIAL TRIAL (MABB-IR-LS-CZ/PZ/WB)												
51	HD 3209	20MR	2.8	20S	3.6	5S	0.6	80S	59.0	--	-	-
52	PBW 723	5MR	0.5	20S	4.0	TS	0.1	40S	8.4	Sr 31+2+	Lr 26+	Yr 9+
53	WB 2	10S	3.2	10MS	1.7	60S*	8.1	60S	12.2	Sr 7b+2+	Lr 13+	R
54	DBW 14 (C)	30S	12.0	40S	7.7	20S	5.3	80S	22.0	Sr 2+	Lr 23+	-
55	DBW 71 (C)	10S	4.2	60S	11.3	TR	0.0	20S	7.0	Sr 31+5+	Lr 26+	Yr 9+
56	DDK 1029 (C)	10S	4.8	5S	1.2	20S	5.5	80S	49.0	-	Lr 13+	-
57	DPW 621-50 (C)	20S	7.3	10S	1.6	10S	1.9	60S	22.5	Sr 2+	Lr 13+10+	-
58	GW 322 (C)	20S	7.4	40S	14.6	20S	4.3	80S	50.0	Sr 11+2+	Lr 13+	Yr 2+
59	HD 2864 (C)	20MS	9.6	10MR	1.0	10S	2.5	80S	56.0	R	R	Yr 2+
60	HW 1098 (C)	5S	2.7	20MR	1.1	30S	7.6	80S	50.0	Sr 11+2+	-	-
60. A	INFECTOR	100S	88.0	100S	73.8	80S	63.8	80S	72.0	-	-	-
61	Kharchia 65 (C)	80S	46.0	80S	53.8	100S	56.3	100S	74.0	-	-	-
62	KRL 19 (C)	40S	14.0	40S	22.0	40S	10.6	80S	46.0	Sr 2+	Lr 13+	-
63	KRL 210 (C)	60S	27.4	40S	13.1	20S	5.7	10S	2.9	Sr 7b+2+	Lr 13+10+	-
64	MP 3336 (C)	20S	5.8	40S	13.9	30S	9.7	80S	44.0	Sr 2+	Lr 13+	Yr 2+
65	PBW 343 (C)	40MR	6.0	80S	26.5	40S	10.5	100S	69.0	Sr 31+2+	Lr 26+	Yr 9+
66	TL 2942 (C)	20MR	1.8	20S	3.8	5MR	0.4	TMS	0.1	Sr 2+R	Lr 13+10+	-
67	TL 2969 (C)	10MR	1.2	TR	0.0	TMS	0.1	0	0.0	Sr 2+R	Lr 23+	-
68	WR 544 (C)	40S	23.2	50S	9.6	5S	0.8	80S	39.8	Sr 28+8a+2+	Lr 13+1+	Yr 2+
68. A	INFECTOR	100S	88.0	100S	73.8	100S	73.8	100S	70.0	-	-	-