

**Table: Race specific adult plant rust resistance (APR) of AVT entries at ICAR-IIWBR, RS, Shimla during 2022-23**

S. No.	Variety/ line	APR Response							
		Yellow rust			Brown rust			Black rust	
		46S119	110S119	238S119	77-5	77-9	104-2	11	40A
1	HS691*	NG	30MS	10R	10MR	0R	0R	60S	20S
2	HS692*	20S	10S	20S	5R	NG	5MR	40S	20MS
3	VL3028*	10S	TS	20S	5R	NG	0R	30S	10MR
4	HPW484*	0R	0R	0R	0R	0R	5MR	40S	TS
5	VL907(C) *	TS	TR	TS	0R	NG	5R	20MS	5MR
6	VL892(C)	5MR	TR	10MS	0R	NG	0R	30M	TS
7	HPW349(C)	TS	TMS	5S	TS	NG	0R	30M	5R
8	HS562(C)	TS	TS	5S	0R	NG	0R	0	TR
9	VL2041(I)(C)	5S	0R	0R	0R	5MR	0R	20MS	5S
10	PBW887	TS	0R	TR	NG	0R	0R	TMR	0
11	PBW889	0R	0R	0R	0R	0R	0R	60S	5MS
12	HD3386*	0R	0R	0R	0R	0R	0R	30M	0
13	HD3470	NG	5S	5S	0R	NG	NG	30MS	0
14	HI1668	NG	0R	5S	NG	0R	0R	10MSS	0
15	DBW386	0R	0R	0R	0R	0R	0R	0	0
16	UP3102	10S	10S	10S	0R	NG	0R	20M	10MS
17	HD3428	0R	0R	0R	0R	0R	5S	30S	5MS
18	PBW893	NG	0R	5MR	5MR	5S	10MR	40S	10M
19	K2108	20S	TS	NG	0R	0R	0R	0	0
20	HD3059(C) *	0R	0R	0R	NG	5R	0R	10MR	0
21	DBW173(C) *	NG	0R	TMS	NG	NG	0R	40MSS	0
22	PBW771(C) *	TS	0R	5R	5MR	5MR	TMR	30MSS	TR
23	JKW261(C) *	NG	30S	0R	TS	NG	0R	5MS	5MR
24	WH1402*	NG	10S	10S	NG	NG	5MR	40MSS	20MS
25	WH1311	20S	20S	40S	NG	0R	10MR	40MR	5MR
26	UP3111	5S	30S	5S	5MR	TS	0R	30S	10MS
27	PBW899	NG	NG	5S	0R	5MR	0R	20M	TS
28	PBW644(C)	NG	10S	10S	0R	5MR	0R	20MS	TMS
29	DBW296(C)	5R	5S	0R	NG	5S	0R	30M	20MS
30	HD3369(I)(C)	NG	5S	20S	0R	NG	0R	0	5MS
31	HI1653(I)(C) *	0R	0R	0R	NG	5S	0R	40MS	TMS
32	HI1654(I)(C)	NG	5S	20S	NG	30S	5R	20MSS	0
33	HD3388*	0R	0R	0R	0R	5MR	5MR	30M	5MS
34	HD3471	10MS	10MS	TMS	NG	10S	5MR	60S	TMR
35	HD3249(C) *	NG	TMS	10S	5R	5MR	0R	40S	5S
36	HD3086(C)	5S	0R	TMS	40MS	0R	0R	30MSS	0
37	HD2967(C) *	TS	0R	TR	0R	0R	0R	10MSS	10MSS
38	DBW222(C) *	0R	0R	0R	0R	0R	0R	0	0
39	PBW826(I)(C) *	TS	0R	0R	5MS	30S	0R	20MR	TS
40	DBW398	NG	5S	10S	0R	5MR	NG	40MSS	0
41	HI1612(C)	80S	5MR	20S	NG	10S	0R	60S	10MS
42	K1317(C) *	10S	0R	0S	0R	0R	0R	40S	5MS
43	HD3171(C)	10S	0R	40MS	5MR	5MR	5MR	30S	10MS
44	HD3293(C)	NG	5S	10S	NG	5S	0R	40S	5MS
45	DBW252(C) *	0R	0R	0R	NG	0R	0R	20MS	0
46	NWS2194*	NG	30S	40S	10MR	0R	0R	20R	0
47	HI1669	0R	0R	0R	0R	0R	0R	40MS	10MS
48	HI1670	0R	0R	0R	NG	5S	0R	40MS	10MSS
49	GW547*	TS	5S	5MR	NG	5S	5R	30MSS	0
50	GW513(C) *	10MS	TS	5MS	NG	TS	NG	20S	0
51	HI1636 (C)	NG	NG	NG	5R	0R	5R	40MSS	5MS

52	HI1650(I)(C) *	5S	5S	10MS	0R	30S	5MR	30MS	0
53	MACS6768(I)(C) *	NG	NG	40S	0R	60S	0R	20M	0
54	HI1674	NG	0R	10S	5R	20S	5R	30S	0
55	AKAW5104	NG	5MR	20MR	5MR	10MR	0R	40MSS	10MS
56	HD2932(C)	5S	5S	20S	5MR	10S	40SMS	40MSS	5MSS
57	MP4010(C) *	NG	5MS	30S	5S	10MS	5R	30MSS	TS
58	HI1634(C) *	30MS	10MS	20MS	5R	5R	0R	10M	TMS
59	CG1029(C) *	10S	60S	10S	TMR	10MSS	30MR	40MS	10MS
60	DBW359	NG	20S	30S	0R	40S	5MR	30MS	0
61	DBW441	30S	5MS	40S	NG	0R	5MR	40MS	5MS
62	DBW442	10S	10MS	30S	10S	5MR	5MR	20MS	5MS
63	CG1040	NG	NG	NG	5MR	5MR	0R	30MS	0
64	MP3288(C)	10MR	20S	20S	5MR	0R	0R	40S	10MR
65	DBW110(C) *	0R	0R	0R	5MR	10R	0R	20MS	0
66	CG1036(I)(C)	0R	0R	0R	NG	20S	0R	30MS	5MSS
67	HI1655(I)(C) *	0R	0R	0R	NG	0R	0R	20M	TS
68	UAS3020	NG	60S	TS	0R	0R	0R	60M	TMSS
69	UAS3021	NG	10S	10S	5R	5MR	5MR	40S	5MS
70	MACS6811	10MS	40S	30S	NG	10MRMS	10MR	0	0
71	MACS6809	30S	80S	60S	5MR	0R	5R	5MR	0
72	NIAW4183	40S	80S	80S	0R	0R	0R	10MR	10MR
73	NIAW4153	NG	10R	5MS	20S	30S	0R	0	0
74	AKAW5314	20MS	40S	40S	5MR	20S	0R	30M	TMR
75	AKAW5100	30MS	40S	40S	0R	5S	0R	30MS	TS
76	MP1378*	60S	60S	80S	0R	10S	5MR	40MS	TMS
77	MP1386	60S	40S	80S	NG	5MR	0R	0	TMR
78	DBW443	40S	60S	40S	0R	0R	0R	0	0
79	DBW444	40S	60S	60S	0R	5R	0R	20MR	0
80	HD3469	0R	0R	NG	0R	10MS	0R	30M	TMR
81	NWS2222	0R	5R	5S	5MR	10MS	0R	40M	5MS
82	PWU15	NG	40MS	40S	0R	0R	0R	0	0
83	WH1306	NG	60S	40S	0R	0R	0R	40MSS	TMR
84	PBW891	40S	60S	60S	NG	30S	5R	20MS	10MR
85	HI8841(d)	NG	NG	NG	NG	0R	0R	0	0
86	UP3083	60S	40S	40S	0R	5MR	10MR	30MS	TMS
87	MACS3949(d)(C) *	NG	20MS	60S	NG	0R	5MR	20M	10MR
88	HI8826(d)(I)(C) *	40S	60S	80S	0R	0R	0R	10MR	5R
89	MACS4100(d)(I)(C)	10S	20S	40S	0R	5MR	0R	20M	10MS
90	MACS6222 (C)	60S	60S	60S	0R	0R	0R	0	0
91	HI1672	NG	60S	80S	10R	0R	0R	0	0
92	HI1673	20MR	60S	40S	0R	5MR	0R	0	0
93	HI1675	20S	40S	80S	0R	0R	0R	10MR	0
94	DBW394	0R	10MS	5MS	0R	5MR	0R	0	0
95	DBW395	10S	5S	5MS	NG	0R	5R	10MR	TS
96	MACS6814	10MR	0R	TMR	NG	10MS	0R	40S	TMS
97	MACS6805	40S	40S	60S	NG	5MR	0R	10S	0
98	NIAW4114	10S	10S	60S	5MR	5S	0R	30MSS	0
99	NIAW4120	10S	40S	10MS	10R	10MR	0R	40MR	0
100	UAS3022	NG	20MS	40S	NG	5S	5MR	20MS	5MS
101	UAS3023	5S	20S	20MS	0R	20S	0R	30S	0
102	MP3557	10MS	20S	40S	NG	10S	0R	30MSS	TMS
103	MP3556	10S	TMS	TMR	0R	0R	0R	20MSS	0
104	PBW897	20S	20S	10S	0R	0R	0R	10MR	0
105	MP1388	5S	0R	10S	NG	0R	5MR	20MSS	10M
106	GW542	0R	0R	TR	0R	0R	0R	20MSS	TMR
107	GW538	0R	0R	TS	0R	NG	0R	10MSS	TMS
108	WH1310*	0R	0R	0R	60S	20S	20M	20MSS	10MR
109	LOK79	5S	0R	5S	5MR	0R	0R	10MS	0

110	RAJ4083(C)	NG	0R	5MS	0R	5S	0R	20MS	5MS
111	HD3090(C) *	10S	10S	20S	80S	40S	40MR	40MS	20MS
112	HI1633(C) *	5MS	TR	10S	NG	0R	0R	40S	0
113	UAS478(d)	20S	10MS	30S	0R	0R	0R	40S	10MS
114	UAS481(d)	0R	0R	TS	NG	0R	0R	10MR	0
115	HI1665*	0R	0R	0R	0R	0R	0R	30MS	0
116	HI8840(d)	0R	0R	10S	5S	0R	0R	40MSS	10MS
117	DBW397	0R	0R	0R	0R	0R	0R	40MSS	5MR
118	DDW61(d)	0R	0R	0R	0R	0R	0R	60S	0
119	NIAW4028	0R	0R	TMS	0R	0R	5MR	20MS	20S
120	HI1605(C)	0R	0R	5S	0R	0R	0R	20MS	0
121	NIAW3170(C)	NG	5S	20S	NG	NG	5R	20MS	5MS
122	UAS446(d)(C) *	NG	0R	20MS	5MR	NG	5MR	30MS	0
123	NIDW1149(d)(C)	10S	0R	10S	NG	NG	0R	20MR	0
124	DBW380	5S	0R	10S	NG	NG	0R	0	0
125	DBW370(I)(C)	0R	0R	5S	NG	0R	0R	40MS	5MS
126	DBW371(I)(C)	5S	5MS	10MS	TS	10S	5MR	10MS	40S
127	DBW372(I)(C) *	30S	0R	10MS	0R	5MR	0R	40MSS	20MSS
128	PBW872(I)(C) *	NG	40S	40S	NG	20S	5MR	30S	5MS
129	DBW377*	NG	10S	20S	0R	TS	0R	20MS	0
130	CG1044	30MS	5S	10MS	NG	20S	10MS	40MS	10MSS
131	GW543	40S	40S	5MS	5MR	10S	5R	30S	5MS
132	DBW187(C) *	NG	20S	5MR	NG	10S	0R	20MS	TMS
133	DBW303(C)	NG	20S	10S	NG	TS	NG	5MS	5MSS
134	GW322(C) *	NG	20S	40S	0R	80S	0R	0	5MS
* Different seed lot to that of previous cropping season, NG-not germinated,									