

Annexure 5 : Seedling Resistance Test of AVT I year against black rust (<i>Puccinia graminis tritici</i>) pathotypes at Shimla during 2012-13																										
S.No.	Variety	P a t h o t y p e s																								
		11	11A	14	15-1	21-1	21A-2	24A	34-1	40A	40-1	40-2	40-3	42B	117-1	117-2	117-3	117-4	117-5	117-6	117A-1	184	184-1	295	117A	GENES
I. NORTHERN HILL ZONE																										
1	HPW 376	S	MS	R	S	R	R	R	S	S	R	S	S	R	R	R	R	R	R	R	R	R	R	R	R	Sr5+
2	HPW 380	R	S	R	MS	R	R	MR	R	S	MR	R	S	R	R	R	R	R	MR	R	R	R	S	S	R	Sr7b+
3	HPW 381	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr2+24+
4	HPW 387	R	R	R	R	R	R	R	R	S	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	Sr8a + 11 +
5	HPW 388	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr24+
6	HPW 397	R	MS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MS	R	R	Sr9b+13+
7	HPW 398	R	R	R	NG	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr8a+11+
8	HPW 399	MR	R	R	R	R	R	R	R	MS	R	R	MS	R	R	R	R	R	R	R	R	R	MS	R	R	Sr9b+11+
9	HS 557	MR	S	S	S	R	R	R	R	S	R	S	S	R	R	R	S	R	MR	R	R	R	S	S	R	-
10	HS 574	R	S	R	R	R	R	R	MS	S	R	R	S	R	R	R	MS	R	S	R	R	MR	R	S	R	Sr7b+
11	HS 575	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr31+
12	HS 576	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MS	R	R	R	R	R	MS	R	R	Sr9b+13+
13	HS 577	MR	R	R	S	R	R	R	R	S	R	R	S	R	R	R	R	R	S	R	R	S	S	R	R	Sr2+7b+11+
14	HS 578	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr24+
15	UP 2871	R	R	R	R	R	R	R	R	R	R	MR	R	R	R	R	R	R	R	R	R	R	R	R	R	-
16	UP 2872	R	MR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr24+
17	VL1001	R	R	R	R	R	R	R	MR	S	S	MS	S	R	R	R	MS	R	S	R	R	R	S	S	R	Sr7b+
18	VL 1002	R	S	R	MS	R	R	R	R	S	R	R	R	R	R	R	S	R	S	R	R	R	R	S	R	Sr7b+
19	VL3001	R	R	R	R	R	R	R	S	S	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	Sr2+28+
20	VL3002	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
21	VL 3003	S	R	R	R	R	MR	R	R	S	MS	R	MS	R	R	R	R	R	R	R	R	R	S	MS	R	Sr9b+11+
22	VL 967	R	R	R	R	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr8a+9b+11+
II. NORTH WESTERN PLAIN ZONE																										
23	DBW 101	S	R	R	S	R	S	MR	R	S	R	R	S	S	R	R	MR	S	R	MS	R	R	S	S	MS	Sr7b+
24	DBW 102	R	R	R	S	R	R	R	R	S	R	R	R	R	R	R	S	R	R	R	R	R	S	S	R	Sr9b+11+
25	DBW 110	R	R	R	R	R	R	R	R	R	R	R	R	-	R	R	R	R	R	MR	R	R	R	R	R	Sr13+11+
26	HD 3109	S	MR	S	R	R	S	R	MR	S	R	R	R	R	R	R	MS	S	S	R	R	S	S	MS	R	-
27	HD 3117	R	S	R	S	R	R	R	S	S	R	R	S	R	R	R	R	S	S	MS	R	S	R	S	R	Sr7b+
28	HD 3119	S	S	S	S	R	S	R	S	S	S	S	S	R	R	R	S	S	S	S	R	S	S	S	R	-
29	HD 3120	S	S	MR	S	R	MS	R	S	S	R	S	S	MR	R	R	S	R	R	MS	R	S	R	S	R	-
30	HD 3121	R	S	R	S	R	R	R	S	MS	R	S	S	MR	R	R	S	R	R	S	R	S	MS	S	R	-

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31	HD 3122	S	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MR	R	MS	R	R	R	Sr13+11+
32	HD 3123	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	-	Sr31+
33	HI 8735	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
34	HI 8736	R	R	R	R	R	R	S	R	S	R	R	MR	S	MR	R	R	R	MS	S	R	R	R	R	R	Sr11+
35	HI 8738	MR	R	R	R	MR	MR	S	R	S	R	R	MR	S	S	R	R	R	MS	R	R	R	S	R	R	Sr2+7b+
36	HI 8739	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	S	R	R	R	R	R	Sr2+9e+13+
37	HUW 662	R	R	R	NG	R	R	R	R	S	R	R	MR	R	R	R	R	R	R	R	R	R	R	R	R	Sr2+8a+9b+11+
38	HUW 664	S	R	R	R	R	R	MR	R	MS	R	R	R	R	R	R	R	R	R	R	R	S	R	R	R	Sr11+
39	HUW 666	S	R	R	R	R	R	R	R	R	R	R	MR	R	R	R	R	R	S	R	R	R	MS	MS	R	Sr9b+11+
40	HUW 668	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
41	HUW 669	S	S	S	S	R	S	R	MS	S	R	S	S	S	MR	R	S	R	S	S	R	S	S	S	-	-
42	JAUW 598	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
43	K 1114	R	R	R	MS	R	R	R	R	MR	R	S	S	R	R	R	S	R	R	R	R	S	S	S	R	-
44	MACS 3929	R	R	S	S	R	S	S	S	S	R	S	S	MR	S	S	S	S	S	S	S	S	S	S	S	Sr2+
45	MP 3392	MS	S	MR	S	R	R	R	MS	MS	R	S	S	MS	R	R	S	R	MS	R	R	S	S	MS	R	-
46	NIAW 1951	R	R	R	R	R	R	R	R	MS	MS	MS	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr8a+
47	NIDW 706	R	R	R	S	R	S	S	R	S	S	S	S	S	R	S	S	S	S	R	S	S	S	S	S	Sr2+7b+
48	PBW 681	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	S	R	S	R	Sr11+
49	PBW 683	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr2+
50	PBW 689	S	R	S	MS	R	R	R	R	R	R	R	R	R	R	MS	S	R	R	R	R	S	R	R	R	Sr2+11+
51	UP 2841	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr2+31+
52	UP 2843	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr31+
53	UP 2847	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr31+
54	UP 2848	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
55	UPD 94	R	R	R	S	R	R	R	S	S	R	S	R	R	S	R	S	R	S	S	R	S	S	MS	S	-
56	WH 1128	R	R	R	S	R	R	R	R	S	R	R	MS	R	R	R	R	R	R	R	R	S	R	R	R	Sr8a+9b+11+
57	WH 1129	S	R	R	R	R	R	R	R	S	R	R	R	R	R	MS	R	R	R	R	R	R	R	R	R	Sr9b+11+
58	WH 1130	MR	S	R	R	R	R	R	R	S	R	R	S	R	R	R	R	MS	MR	R	S	R	R	R	R	Sr11+
59	WH 1138	S	S	S	S	R	R	MR	R	S	MS	S	S	R	R	S	S	S	MR	R	S	S	S	R	R	Sr7b+
60	WH 1139	S	R	S	MR	MR	R	R	R	R	R	R	MR	R	R	MS	R	R	R	R	R	R	R	R	R	-
61	WH 1142	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr31+
III. NORTH EASTERN PLAIN ZONE																										
62	BRW 3723R	R	R	R	S	R	R	R	R	S	R	R	S	R	R	R	R	R	R	R	R	S	S	S	R	Sr11+

