

Annexure 4: Seedling Resistance Test of AVT I year against brown rust (<i>Puccinia triticina</i>) pathotypes at Shimla during 2012-13																									
S.No.	Variety	P a t h o t y p e s																						GENES	
		11	12-2	12-3	12-5	12-7	77	77-1	77-2	77-5	77-7	77-8	77-10	77A-1	104-2	104-3	104-4	104B	106	107-1	108-1	162-1			
I. NORTHERN HILL ZONE																									
1	HPW 376	R	R	R	R	R	R	R	S	M	MS	R	R	R	MS	MS	R	S	R	R	R	R	R	Lr13+10+	
2	HPW 380	R	MS	R	R	R	R	MS	S	S	R	R	S	R	S	S	S	M	R	R	R	R	R	Lr13+10+	
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	Lr24+
4	HPW 387	R	R	R	R	S	S	MS	MS	R	R	R	S	R	R	R	R	R	R	R	R	R	S	Lr13+3+	
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	Lr24+
6	HPW 397	R	S	S	S	R	S	S	MS	R	R	S	S	R	R	S	S	MS	R	R	R	R	S	Lr13+	
7	HPW 398	R	S	R	R	MS	R	S	S	S	S	S	S	R	S	S	S	R	R	R	R	R	S	Lr13+10+	
8	HPW 399	R	R	R	R	R	R	S	MS	S	R	S	S	S	R	R	R	R	R	R	R	R	R	Lr13+10+	
9	HS 557	R	R	R	R	R	MS	S	MS	S	R	R	S	S	S	S	R	S	R	R	R	R	R	Lr23+3+1+	
10	HS 574	R	S	S	MS	S	S	S	MS	S	S	S	S	S	S	S	MS	S	R	S	S	S	-	-	
11	HS 575	R	R	R	R	R	R	R	R	R	R	R	R	R	S	S	R	R	R	R	R	R	R	R	Lr26+23+3+1+
12	HS 576	R	R	R	R	R	R	R	MS	MS	R	R	S	S	R	R	R	R	R	R	R	R	R	R	Lr13+10+1+
13	HS 577	R	R	NG	S	R	R	MS	S	S	S	R	S	S	S	S	R	S	R	R	R	R	R	Lr13+10+3+	
14	HS 578	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	NG	R	R	R	R	R	Lr24+ R
15	UP 2871	R	R	R	R	R	R	S	S	S	R	R	S	S	MS	R	MS	R	R	R	R	R	R	R	Lr13+10+1+
16	UP 2872	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+ R
17	VL1001	R	S	R	R	R	R	S	S	MS	S	R	S	S	MS	S	MX	S	R	R	R	R	MS	Lr13+10+	
18	VL 1002	R	S	R	R	R	R	S	S	MS	S	R	S	MS	S	S	R	S	R	R	R	R	R	R	Lr13+10+3+
19	VL3001	R	R	R	MR	R	R	S	R	M	R	R	S	MS	R	R	R	R	R	R	R	R	R	R	Lr13+10+
20	VL3002	R	R	R	R	R	R	MS	M	R	R	S	S	MS	R	R	R	R	R	R	R	R	R	R	Lr13+10+
21	VL 3003	R	MS	R	R	R	R	S	S	S	S	S	S	R	MS	S	R	R	R	R	R	R	R	R	Lr13+10+
22	VL 967	R	S	R	R	MS	R	S	R	S	R	R	S	S	S	R	MS	S	R	R	R	R	S	Lr13+10+	
II. NORTH WESTERN PLAIN ZONE																									
23	DBW 101	R	R	R	R	R	S	S	S	S	R	R	S	S	S	S	R	S	R	R	R	R	R	R	Lr13+3+
24	DBW 102	R	MS	S	S	R	R	S	S	S	R	R	S	S	S	S	MS	S	R	R	R	MS	Lr13+		
25	DBW 110	R	S	R	R	S	R	S	MR	M	R	R	S	S	S	R	R	S	R	R	R	R	R	R	Lr13+10+
26	HD 3109	R	R	R	R	R	R	S	S	S	R	S	S	R	R	R	R	R	R	R	R	R	R	R	Lr13+10+1+
27	HD 3117	R	R	R	R	R	R	R	R	R	R	R	R	R	MS	R	R	R	R	R	R	R	R	R	Lr23+1+
28	HD 3119	S	S	S	R	R	MX	S	S	S	M	S	S	S	S	S	S	S	R	MX	R	R	-	-	
29	HD 3120	R	S	R	R	S	R	S	R	R	R	R	S	R	S	M	S	S	R	R	R	R	R	R	Lr13+10+
30	HD 3121	R	S	R	S	S	MS	S	S	S	R	R	S	R	S	S	S	S	R	R	R	R	S	-	

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31	HD 3122	R	S	R	S	MS	S	S	S	S	MS	R	S	S	S	S	R	S	R	R	R	R	Lr13+3+
32	HD 3123	R	R	R	R	R	R	R	R	MS	R	R	R	R	S	S	R	R	R	R	R	R	Lr26+23+3+1+
33	HI 8735	MS	S	MS	S	R	R	R	R	S	R	R	R	R	S	S	S	S	MR	R	R	R	Lr18+
34	HI 8736	R	S	R	S	S	R	R	R	R	R	R	R	R	MS	S	R	S	R	R	R	R	Lr23+
35	HI 8738	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr23+
36	HI 8739	R	R	R	S	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MR	Lr23+
37	HUW 662	R	R	R	R	R	R	R	R	R	R	R	R	R	MS	R	R	S	R	R	R	R	Lr23+10+
38	HUW 664	R	S	R	R	R	M	R	R	S	R	S	S	S	S	S	S	S	R	R	R	R	Lr13+
39	HUW 666	R	R	S	R	R	R	S	R	MS	S	S	S	R	R	R	R	R	R	R	R	S	-
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
41	HUW 669	R	S	R	S	MS	R	R	R	R	S	R	S	R	S	MS	R	S	R	R	R	R	Lr23+13+
42	JAUW 598	R	R	R	R	R	R	R	R	R	R	R	R	R	S	R	R	R	R	R	R	R	Lr26+23+3+
43	K 1114	R	M	R	R	R	R	S	R	R	R	S	S	MS	R	R	R	MX	R	R	R	R	Lr13+10+
44	MACS 3929	M	S	R	S	S	R	R	R	S	R	R	R	R	MS	S	R	S	R	R	R	R	Lr23+13+3+
45	MP 3392	R	R	R	R	R	R	S	S	S	R	S	S	MX	MS	R	R	R	R	R	R	R	Lr13+10+1+
46	NIAW 1951	R	R	MS	S	S	R	MS	S	S	MS	R	S	S	S	S	MS	S	R	MS	R	MS	Lr13+10+
47	NIDW 706	R	S	R	S	R	R	R	R	R	R	R	R	R	S	S	S	S	R	R	R	R	Lr23+
48	PBW 681	R	R	M	R	R	R	S	MS	S	R	S	S	S	R	R	R	S	R	R	R	R	Lr13+10+1+
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
50	PBW 689	R	S	R	MS	S	S	MS	S	MS	S	R	MX	S	NG	S	R	R	R	R	R	R	Lr14a+
51	UP 2841	R	R	R	R	R	R	MS	R	R	R	R	R	R	S	R	R	R	R	R	R	R	Lr26+1+
52	UP 2843	R	R	R	R	R	R	S	R	MS	R	R	R	R	MS	S	R	R	R	R	R	R	Lr26+1+
53	UP 2847	R	R	R	R	R	R	S	R	MR	MS	R	R	R	R	R	R	R	R	R	R	R	Lr26+1+
54	UP 2848	R	S	S	R	S	R	S	R	S	S	R	R	R	S	S	R	R	R	R	R	R	Lr13+3+
55	UPD 94	R	R	R	S	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr23+
56	WH 1128	R	S	S	S	S	R	S	S	R	M	S	S	S	S	MX	S	R	R	R	S	Lr13+	
57	WH 1129	R	R	R	R	R	R	MR	R	S	R	R	S	R	R	MS	R	R	R	R	R	R	Lr13+10+
58	WH 1130	R	S	S	S	S	S	S	MS	S	S	R	S	S	S	S	S	S	R	R	R	S	Lr13+
59	WH 1138	R	R	R	R	R	R	S	S	S	R	MR	S	R	MS	S	R	R	R	R	R	MS	Lr13+10+3+
60	WH 1139	R	S	M	R	MS	R	R	S	S	R	R	S	R	R	S	R	S	R	R	R	R	Lr23+10+
61	WH 1142	R	R	R	R	R	R	S	R	S	R	R	R	R	S	S	R	R	R	R	R	R	Lr26+3+1+
III. NORTH EASTERN PLAIN ZONE																							
62	BRW 3723R	R	S	R	S	S	R	S	S	R	MS	R	S	S	S	S	S	S	R	R	R	R	Lr13+10+

