

Annexure 2: Seedling Resistance Test of AVT II 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																							GENES		
		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	
<b>I.NORTHERN HILL ZONE</b>																											
1	HS 536	R	S	R	S	R	R	R	R	S	R	R	S	R	R	R	S	R	R	R	R	R	R	R	S	R	Sr2+5+8a+11+
2	HS 542	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	Sr5+8a+9b+11+
3	HPW 251(C)	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	Sr2+31+
4	HPW 349(C)	MR-MS	S	R	R	R	R	R	R	S	MR	R	S	R	R	R	R	R	R	S	R	R	R	S	R	R	-
5	HS277(C)	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	Sr31+
6	HS 490(C)	S	R	R	R	R	R	R	R	R	R	R	R	MR	R	R	MS	R	R	R	R	R	R	R	R	R	Sr2+9b+
7	HS 507(C)	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	Sr31+
8	VL 804(C)	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	Sr5+31+
9	VL 829(C)	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	Sr5+31+
10	VL892(C)	R	R	R	R	R	R	R	R	S	R	R	MR-MS	R	R	R	R	R	R	R	R	R	R	R	S	R	R
11	VL 907(C)	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	Sr31+
<b>II. NORTH WESTERN PLAIN ZONE</b>																											
12	DBW 74	R	R	R	R	R	R	R	R	S	MR	R	R	R	R	R	R	R	R	MR	R	R	R	R	R	R	Sr8a+9b+11+
13	DBW 88	S	R	R	R	R	R	R	R	MS	R	R	MS	R	R	R	R	R	R	R	R	S	R	S	R	R	Sr11+
14	DBW 90	S	S	R	S	R	S	R	R	S	R	-	MR	MR	S	S	S	MS	R	MS	R	S	S	S	R	R	Sr13+
15	HD 3070	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	Sr31+
16	HD 3086	S	S	R	S	R	S	S	S	S	S	R	S	S	S	R	S	S	R	R	R	S	S	S	R	R	Sr2+7b+
17	HD 3091	MS	R	R	MS	R	R	R	R	MS	R	R	MS	R	R	R	R	R	R	R	R	R	R	R	R	R	Sr11+
18	HI 8728	MR	R	R	R	R	R	S	R	S	R	R	R	S	S	R	R	R	MS	S	R	S	R	R	R	R	Sr11+
19	PBW 660	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	Sr5+31+
20	PBW 674	MS	R	R	R	R	R	R	R	MR	S	R	MS	R	S	R	S	R	S	R	R	R	S	R	R	R	Sr2+11+
21	PBW 675	S	R	R	R	R	R	R	R	MS	R	R	R	R	MR	R	R	S	R	R	R	R	S	R	R	R	Sr9b+11+
22	WH 1098	S	S	R	S	MS	S	R	S	S	MR	S	S	R	R	R	S	R	S	S	R	S	S	MR	R	-	-
23	WH 1124	S	S	R	S	R	S	MS	R	S	R	S	S	R	R	S	S	R	MS	MS	R	S	S	S	R	R	Sr7b+
24	WH 1126	R	R	R	S	R	R	R	MR	S	R	S	S	R	R	R	S	R	S	MS	R	S	S	R	R	-	-
25	WH 1127	R	R	S	S	R	R	R	R	S	R	S	S	R	R	R	S	R	S	R	R	S	S	MR	R	-	-
26	C 306(C)	MR	S	S	S	S	S	S	S	S	-	S	S	-	S	-	S	S	S	S	S	S	S	S	S	-	-
27	DBW 17(C)	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	Sr2+31+
28	DBW 71(C)	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	Sr5+31+
29	DPW 621-50(C)	S	R	R	R	R	R	R	R	MR	R	R	MR	R	R	R	R	R	R	R	R	R	R	S	R	-	-
30	HD 2967(C)	R	R	R	R	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	S	S	R	R	Sr8a+11+
31	HD 3043(C)	R	S	S	R	R	R	R	S	S	R	S	R	R	S	S	S	R	MS	R	R	S	R	R	R	-	-
32	HD 3059(C)	S	MR	R	MS	R	S	R	R	S	R	R	R	MR	R	R	S	R	MS	MR	R	R	R	MS	R	-	-
33	PBW 175(C)	R	MR	R	R	R	R	R	R	MS	R	R	S	R	R	R	R	R	S	R	R	S	R	R	R	R	Sr2+
34	PBW 373(C)	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	Sr2+5+31+
35	PBW 590(C)	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	Sr5+31+
36	PBW 644(C)	R	R	R	MS	R	R	R	R	MS	X	R	S	R	R	R	R	R	R	R	R	S	R	R	R	R	Sr2+8a+11+



