

Annexure 1: Seedling Resistance Test of AVTII 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	HS 536	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2	HS 542	R	R	R	R	S	S	S	S	S	R	R	S	S	MS	R	R	R	R	R	R	R	R
3	HPW 251(C)	R	R	R	R	S	R	R	R	M	S	R	R	R	R	R	R	R	R	R	R	R	R
4	HPW 349(C)	R	S	R	S	MS	R	MS	S	S	R	R	S	S	S	S	MS	MS	R	R	R	R	R
5	HS 277(C)	R	R	R	R	S	R	S	R	S	R	R	R	R	MS	S	R	R	R	R	R	R	R
6	HS 490(C)	R	S	R	R	MS	R	R	MS	R	R	R	S	M	M	MS	MS	MS	R	R	R	R	R
7	HS 507(C)	R	R	R	R	R	R	S	R	S	MS	R	R	R	S	R	R	R	R	R	R	R	R
8	VL 804(C)	R	R	R	R	R	R	S	R	MX	S	R	R	R	S	S	R	R	R	R	R	R	S
9	VL 829(C)	R	R	R	S	R	R	MS	R	R	R	R	S	R	MS	MS	R	R	R	R	R	R	R
10	VL892(C)	R	R	R	R	R	R	R	MS	R	R	R	S	R	R	S	MX	R	R	R	R	R	R
11	VL 907(C)	R	R	R	R	R	R	R	R	S	R	R	R	R	S	R	R	R	R	R	R	R	R
II. NORTH WESTERN PLAIN ZONE																							
12	DBW 74	MS	R	R	R	S	S	S	S	R	MS	S	S	S	S	MS	S	S	R	R	R	R	R
13	DBW 88	R	R	M	R	R	R	S	MS	R	S	S	S	R	R	R	R	R	R	R	R	R	S
14	DBW 90	R	R	NG	R	R	R	S	S	S	R	R	S	R	S	S	R	S	R	R	R	MS	Lr13+10+3+
15	HD 3070	R	R	R	S	R	R	S	R	S	R	R	R	R	R	S	S	R	R	R	R	R	R
16	HD 3086	R	M	R	R	R	R	S	S	S	R	S	S	R	S	S	R	S	R	R	R	R	R
17	HD 3091	R	R	R	S	S	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R
18	HI 8728	S	R	S	S	S	R	R	R	M	R	R	R	R	R	R	R	R	S	R	R	R	-
19	PBW 660	R	R	R	R	R	R	R	R	S	S	R	R	R	R	R	R	R	R	R	R	R	S
20	PBW 674	R	R	R	R	R	R	S	S	R	R	R	R	MS	R	R	R	R	R	R	R	R	R
21	PBW 675	R	S	R	R	S	S	S	S	S	S	R	MS	R	S	MS	S	S	R	R	R	R	-
22	WH 1098	R	MS	S	S	S	R	S	S	S	R	S	S	R	S	M	R	S	R	R	R	R	R
23	WH 1124	R	R	R	R	S	S	S	S	S	S	R	S	MS	S	S	S	S	R	R	R	S	Lr13+10+
24	WH 1126	S	S	S	M	S	R	S	S	S	R	R	S	MX	S	S	R	S	R	R	MS	R	-
25	WH 1127	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
26	C 306(C)	R	S	R	S	R	R	S	S	S	S	S	S	S	S	S	S	R	NG	R	R	R	Lr34+
27	DBW 17(C)	R	R	R	MS	R	R	R	R	S	R	R	R	R	S	S	R	R	R	R	R	R	R
28	DBW 71(C)	R	R	R	S	S	R	S	R	S	S	R	R	R	S	S	R	R	R	R	R	R	S
29	DPW 621-50(C)	R	R	S	R	R	R	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	-
30	HD 2967(C)	R	R	R	S	R	R	R	R	M	S	R	R	R	M	R	R	R	R	R	R	R	R
31	HD 3043(C)	R	S	R	R	R	R	S	MS	S	R	R	S	MX	S	S	R	S	R	R	R	S	Lr13+10+
32	HD 3059(C)	R	R	R	R	R	R	S	S	S	S	S	S	R	R	R	R	R	R	R	R	R	-
33	PBW 175(C)	R	R	R	R	R	R	R	R	M	S	R	S	R	MS	S	R	R	R	R	R	R	R
34	PBW 373(C)	R	R	R	R	S	R	MS	R	S	R	R	R	R	MS	S	R	R	R	R	R	R	R

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		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	
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	Lr26+23+1+ R
36	PBW 644(C)	R	R	R	R	S	S	S	S	R	MS	R	S	R	S	S	R	R	R	R	R	R	R	_
37	PDW 291(C)	S	R	MS	S	R	R	R	R	R	R	R	R	R	R	R	R	R	MR	R	R	R	R	_
38	PDW 314(C)	R	R	R	S	S	R	R	R	S	R	R	R	R	S	R	R	R	S	R	R	S	Lr23+	
39	WH 1021(C)	R	R	R	R	R	R	S	R	M	MS	R	R	R	R	R	R	R	R	R	R	R	Lr26+1+	
40	WH 1080(C)	R	S	S	S	R	S	S	R	S	R	R	S	R	S	S	R	S	R	R	R	R	Lr13+	
41	WH 1105(C)	R	R	R	R	R	S	S	M	S	R	S	S	S	R	R	R	R	R	R	R	R	Lr13+	
III. NORTH EASTERN PLAIN ZONE																								
42	HD 3076	R	R	R	R	R	R	MS	R	R	R	R	R	R	S	S	R	R	R	R	R	R	R	Lr 13+10+3+
43	K 1006	R	S	R	R	S	S	S	S	MS	R	R	S	R	MS	S	MX	S	R	R	R	R	S	_
44	NW 5054	R	S	R	S	S	R	R	R	R	R	R	R	R	S	S	NG	S	R	R	R	R	R	Lr23+
45	PBW 661	R	S	R	R	M	R	S	S	M	R	R	S	S	S	MS	S	S	R	R	R	R	R	Lr13+10+
46	RAJ 4250	R	R	R	R	R	R	R	R	S	S	R	R	R	S	S	R	R	R	R	R	R	R	Lr23+10+1+3+
47	WH 1120	R	MS	R	R	MS	R	S	S	S	R	R	S	R	S	S	R	S	R	R	R	R	R	Lr13+10+3+
48	DBW 14(C)	R	R	R	R	R	S	R	MS	S	R	MS	MS	R	MS	S	R	R	R	R	R	R	MS	Lr23+
49	DBW 39(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr26+23+1+R
50	HD 2733(C)	R	R	R	S	R	R	S	R	S	R	R	R	R	S	S	R	R	R	R	R	R	R	Lr26+34+
51	HD 2888(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+ R
52	HD 2985(C)	R	S	R	R	R	R	S	S	S	R	R	S	MS	R	S	R	S	R	S	R	R	Lr13+10+	
53	HI 1563(C)	R	R	R	R	R	R	R	R	R	R	R	R	NG	R	R	R	R	R	R	R	NG	R	R
54	K 0307(C)	R	R	R	R	R	R	R	R	S	S	S	S	MS	R	S	S	R	R	R	R	R	R	Lr23+1+
55	K 8027(C)	S	S	R	S	S	S	S	S	S	R	S	S	MS	S	S	S	S	R	R	R	MR	Lr13+	
56	NW 2036(C)	R	R	R	S	R	R	R	R	MS	R	R	R	R	S	S	R	R	R	R	R	R	MS	Lr26+23+
57	RAJ 4229(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IV. CENTRAL ZONE																								
58	HD 3095	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+ R
59	HI 8724(d)	R	R	R	S	R	MS	R	R	R	R	R	R	R	MS	R	R	R	R	R	R	R	R	Lr23+
60	HI 8725(d)	R	R	S	S	R	R	R	S	R	R	R	R	R	R	R	R	S	R	R	R	R	R	Lr18+
61	HI 8727(d)	R	R	R	MS	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr23+18+
62	HI 8731(d)	S	MS	R	S	S	R	MS	MX	S	R	S	S	R	S	R	S	R	S	R	R	MS	Lr14a+	
63	MPO 1255(d)	S	S	S	S	R	R	R	R	S	R	S	S	R	R	R	R	S	R	R	R	R	R	_
64	A-9-30-1(C)	R	S	R	MS	MS	R	MS	S	S	S	R	R	MS	S	S	S	MS	S	R	R	R	Lr23+	
65	GW 332(C)	R	R	R	R	R	R	S	S	R	R	R	MS	R	R	R	R	R	R	R	R	R	R	Lr13+10+1+
66	HD 2864(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
67	HI 1500(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+
68	HI 1544(C)	R	R	R	R	R	R	NG	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+
69	HI 8498(C)	R	R	R	S	S	R	R	R	S	R	R	R	R	R	R	R	MS	R	R	R	R	R	Lr23+

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70	HI 8627(C)	MS	R	R	S	R	R	R	R	M	S	R	R	R	MS	S	MS	R	R	R	R	MS	Lr13+
71	HI 8713(C)	S	S	R	S	S	R	R	R	R	S	R	R	R	S	S	S	R	S	R	R	MS	_
72	MP 3288(C)	R	R	R	R	R	R	R	R	R	S	R	R	R	R	R	R	R	R	MS	R	R	Lr13+
73	MP 3336(C)	R	S	S	S	S	S	S	S	S	S	R	S	R	S	S	S	S	R	R	R	R	_
74	MP 4010(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+
75	MPO 1215(C)	M	R	NG	R	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	_
76	RAJ 4238(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
V. PENINSULAR ZONE																							
77	DBW 93	R	R	R	R	R	R	MS	R	M	R	R	R	R	S	R	R	R	R	R	R	R	Lr26+
78	GW 432	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+ R
79	HD 3090	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr26+1+
80	HD 3093	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+ R
81	MACS 6478	R	R	R	R	R	R	S	R	S	MS	M	S	R	R	R	R	R	R	R	R	R	Lr23+
82	UAS 334	R	R	R	R	R	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr26+1+
83	AKDW 29997-16(C)	R	R	S	S	R	R	R	R	M	R	R	R	R	S	R	R	R	S	R	R	R	_
84	HD 2932(C)	R	MS	S	S	S	S	S	MS	S	S	S	S	S	S	S	S	MS	S	R	S	Lr13+	
85	MACS 6222(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr26+1+
86	NI 5439(C)	S	S	S	R	S	R	S	S	S	R	S	S	R	S	S	S	S	S	S	R	S	_
87	NIAW 1415(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr26+ R
88	NIAW 34(C)	R	S	S	S	S	R	S	S	S	MS	M	S	MX	S	S	S	S	R	S	R	S	Lr13+34+
89	NIDW 295(C)	R	R	S	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr18+
90	RAJ 4083(C)	R	S	R	MX	R	R	S	S	S	S	R	R	R	S	S	S	MS	R	R	R	R	-
91	UAS 428(C)	R	S	R	S	S	R	R	S	R	R	R	R	R	S	S	R	S	R	R	R	R	Lr23+
92	WHD 948(C)	S	MS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	_
VI. SOUTHERN HILLS ZONE																							
93	HW 5224	R	S	R	R	R	R	S	S	R	R	R	S	R	S	S	S	S	R	R	R	R	Lr13+10+*
94	COW(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr26+1+ R
95	HW 2044(C)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Lr24+ R
96	HW 5216(C)	R	R	R	R	R	R	R	R	R	R	R	R	NG	R	R	R	R	R	R	R	R	Lr26+1+ R
VII. SPECIAL TRIAL																							
97	DDK 1029(C)	MS	R	R	S	MR	S	MS	MR	R	R	MS	R	R	S	R	R	S	S	R	R	R	_
98	Kharchia 65(C)	S	S	S	S	S	S	S	R	S	S	S	S	S	S	S	S	S	S	S	S	S	_
99	KRL 210(C)	R	S	R	R	R	S	S	S	R	R	R	S	R	S	S	R	S	R	R	R	R	Lr13+10+
100	MACS 2496(C)	R	R	R	M	R	R	R	R	S	MS	R	R	NG	S	S	R	R	R	R	R	R	Lr26+23+
101	MACS 2971(C)	R	R	R	S	R	S	R	R	R	R	R	R	S	R	R	R	R	MS	R	R	R	_