

## Appendix I: Core Set including 50 cultivars each from Australia, Ethiopia, India, Nepal and Pakistan

Core Set #	Core Set ID	Variety/Line Name	Seed source	Covered by	Current PBR Status as of April 2020	Title Holder
1	CIM-2014-081_Australia 1	Axe	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 16 Sep. 2008	Australian Grain Technologies Pty Ltd
2	CIM-2014-081_Australia 2	Batavia	AUSVAR	SMTA		
3	CIM-2014-081_Australia 3	Baxter	AUSVAR	SMTA	PBR Expired	
4	CIM-2014-081_Australia 4	Bolac	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 31 July 2008	Agriculture Victoria Services Pty Ltd and Grains Research and Development Corporation (GRDC)
5	CIM-2014-081_Australia 5	Both	AUSVAR	SMTA		
6	CIM-2014-081_Australia 6	Braewood	AUSVAR	SMTA		
7	CIM-2014-081_Australia 7	Brennan	AUSVAR	SMTA	PBR Expired	
8	CIM-2014-081_Australia 8	Carinya	AUSVAR	SMTA		
9	CIM-2014-081_Australia 9	Correll	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 31 July 2008	Australian Grain Technologies Pty Ltd and The University of Adelaide
10	CIM-2014-081_Australia 10	Diamondbird	AUSVAR	SMTA		
11	CIM-2014-081_Australia 11	EGA Bounty	AUSVAR	SMTA	PBR Terminated	
12	CIM-2014-081_Australia 12	EGA Burke	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 29 Aug 2008	The State of Queensland acting through (DAF), Department of Primary Industries NSW, GRDC
13	CIM-2014-081_Australia 13	EGA Gregory	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 18 Oct 2005	The State of Queensland acting through the Department of Agriculture and Fisheries (DAF), Department of Primary Industries New South Wales, GRDC
14	CIM-2014-081_Australia 14	EGA Stampede	AUSVAR	SMTA		
15	CIM-2014-081_Australia 15	EGA Wills	AUSVAR	SMTA		
16	CIM-2014-081_Australia 16	EGA Wedgetail	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 02-Jun-2005	The State of Queensland acting through (DAF), Department of Primary Industries for and on behalf of the State of NSW, The University of Queensland, GRDC
17	CIM-2014-081_Australia 17	Fang	AUSVAR	SMTA	PBR terminated 25-Aug-2017	
18	CIM-2014-081_Australia 18	GBA Hunter	AUSVAR	SMTA		
19	CIM-2014-081_Australia 19	Giles	AUSVAR	SMTA		
20	CIM-2014-081_Australia 20	Hyperno (Durum)	AUSVAR	SMTA	Not information available at PBR Register	
21	CIM-2014-081_Australia 21	Kennedy	AUSVAR	SMTA	PBR expired	
22	CIM-2014-081_Australia 22	Lang	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 08-Feb-2001	The State of Queensland acting through the Department of Agriculture and Fisheries (DAF), GRDC
23	CIM-2014-081_Australia 23	Livingston	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 21-Jun-2010	The University of Sydney, GRDC
24	CIM-2014-081_Australia 24	Longreach Beaufort	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 07-Mar-2011	C.C. Benoist
25	CIM-2014-081_Australia 25	Longreach Gauntlet	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 12-Nov-2013	LongReach Plant Breeders Management Pty Ltd
26	CIM-2014-081_Australia 26	Longreach Impala	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 12-Nov-2013	Allied Mills & Arnotts Biscuits Ltd
27	CIM-2014-081_Australia 27	Magenta	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 30-Sep-2011	InterGrain Pty Ltd
28	CIM-2014-081_Australia 28	Monad	AUSVAR	SMTA		
29	CIM-2014-081_Australia 29	Mulgara	AUSVAR	SMTA		
30	CIM-2014-081_Australia 30	Naparoo	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 23-Nov-2010	The University of Sydney, GRDC
31	CIM-2014-081_Australia 31	Quarrion	AUSVAR	SMTA		

32	CIM-2014-081_Australia 32	Rudd	AUSVAR	SMTA		
33	CIM-2014-081_Australia 33	Sentinel	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 28-Mar-2008	C.C. Benoist S.A.S.
34	CIM-2014-081_Australia 34	Shield	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 17-Oct-2013	Australian Grain Technologies Pty Ltd
35	CIM-2014-081_Australia 35	Shortim	AUSVAR	SMTA		
36	CIM-2014-081_Australia 36	Sunbrook	AUSVAR	SMTA		
37	CIM-2014-081_Australia 37	Sunco	AUSVAR	SMTA		
38	CIM-2014-081_Australia 38	Sunguard	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 04-Jun-2013	The University of Sydney
39	CIM-2014-081_Australia 39	Sunland	AUSVAR	SMTA		
40	CIM-2014-081_Australia 40	Sunlin	AUSVAR	SMTA		
41	CIM-2014-081_Australia 41	Suntop	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 06-Sep-2012	Australian Grain Technologies Pty Ltd
42	CIM-2014-081_Australia 42	Sunvale	AUSVAR	SMTA		
43	CIM-2014-081_Australia 43	Sunzell	AUSVAR	SMTA	Not information available at PBR Register	Australian Grain Technologies Pty Ltd
44	CIM-2014-081_Australia 44	Trojan	AUSVAR	SMTA		
45	CIM-2014-081_Australia 45	Ventura	AUSVAR	SMTA	Not information available at PBR Register	Australian Grain Technologies Pty Ltd
46	CIM-2014-081_Australia 46	Westonia	AUSVAR	SMTA		
47	CIM-2014-081_Australia 47	Wyalkatchem	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 11-Jun-2003	InterGrain Pty Ltd
48	CIM-2014-081_Australia 48	Wylah	AUSVAR	SMTA		
49	CIM-2014-081_Australia 49	Yanac	AUSVAR	SMTA		
50	CIM-2014-081_Australia 50	Yitpi	AUSVAR	Plant breeder's rights (PBR), IP Australia	PBR granted 06-Dec-2003	Adelaide Research & Innovation Pty Ltd and GRDC
51	CIM-2014-081_Ethiopia 1	Africa Mayo	ISR1020.1 04	SMTA		
52	CIM-2014-081_Ethiopia 2	Bobicho	ISR1020.9 5	SMTA		
53	CIM-2014-081_Ethiopia 3	Chonte#1	ISR1020.1 22	SMTA		
54	CIM-2014-081_Ethiopia 4	Danphe	ISR1020.1 21	SMTA		
55	CIM-2014-081_Ethiopia 5	Dashen	ISR1020.5 7	SMTA		
56	CIM-2014-081_Ethiopia 6	Digalu or HAR3116	ISR1020.9 9	SMTA		
57	CIM-2014-081_Ethiopia 7	Dodota	ISR1020.9 4	SMTA		
58	CIM-2014-081_Ethiopia 8	Enkoy	ISR1020.6 7	SMTA		
59	CIM-2014-081_Ethiopia 9	ET13-A2	ISR1020.8 2	SMTA		
60	CIM-2014-081_Ethiopia 10	ETBW5231	ISR1020.1 20	SMTA		
61	CIM-2014-081_Ethiopia 11	FH11-6-24	ISR1020.1 01	SMTA		
62	CIM-2014-081_Ethiopia 12	FH4-2-11	ISR1020.9 8	SMTA		

63	CIM-2014-081_Ethiopia 13	FH-934	ISR1020.1 10	SMTA
64	CIM-2014-081_Ethiopia 14	Frontach	ISR1020.1 07	SMTA
65	CIM-2014-081_Ethiopia 15	Galama	ISR1020.6 4	SMTA
66	CIM-2014-081_Ethiopia 16	HAR1018	ISR1020.7 4	SMTA
67	CIM-2014-081_Ethiopia 17	HAR1868	ISR1020.8 7	SMTA
68	CIM-2014-081_Ethiopia 18	HAR1911	ISR1020.1 12	SMTA
69	CIM-2014-081_Ethiopia 19	HAR2505	ISR1020.9 6	SMTA
70	CIM-2014-081_Ethiopia 20	HAR3354	ISR1020.1 00	SMTA
71	CIM-2014-081_Ethiopia 21	HAR3816	ISR1020.1 13	SMTA
72	CIM-2014-081_Ethiopia 22	HAR421	ISR1020.7 1	SMTA
73	CIM-2014-081_Ethiopia 23	HAR627	ISR1020.6 6	SMTA
74	CIM-2014-081_Ethiopia 24	HAR720	ISR1020.6 5	SMTA
75	CIM-2014-081_Ethiopia 25	HAR723	ISR1020.7 2	SMTA
76	CIM-2014-081_Ethiopia 26	HAR743	ISR1020.7 6	SMTA
77	CIM-2014-081_Ethiopia 27	HAR820	ISR1020.7 8	SMTA
78	CIM-2014-081_Ethiopia 28	HAR845	ISR1020.8 0	SMTA
79	CIM-2014-081_Ethiopia 29	HAR934	ISR1020.7 3	SMTA
80	CIM-2014-081_Ethiopia 30	Hawi or HAR2501	ISR1020.8 5	SMTA
81	CIM-2014-081_Ethiopia 31	Israel	ISR1020.5 3	SMTA
82	CIM-2014-081_Ethiopia 32	K6295-4A	ISR1020.5 5	SMTA
83	CIM-2014-081_Ethiopia 33	KBG-01	ISR1020.9 7	SMTA
84	CIM-2014-081_Ethiopia 34	Kenya Kudu	ISR1020.1 08	SMTA
85	CIM-2014-081_Ethiopia 35	Kenya Leopard	ISR1020.1 03	SMTA
86	CIM-2014-081_Ethiopia 36	Kenya Gume	ISR1020.1 02	SMTA
87	CIM-2014-081_Ethiopia 37	Ketar or HAR1899	ISR1020.9 1	SMTA
88	CIM-2014-081_Ethiopia 38	Kingbird	7SRRSN, CIMMYT	SMTA

89	CIM-2014-081_Ethiopia 39	Lakech	ISR1020.5 2	SMTA
90	CIM-2014-081_Ethiopia 40	Mitike or HAR1709	ISR1020.8 8	SMTA
91	CIM-2014-081_Ethiopia 41	Munal#1	ISR1020.1 25	SMTA
92	CIM-2014-081_Ethiopia 42	Pavon-76	ISR1020.6 0	SMTA
93	CIM-2014-081_Ethiopia 43	Picaflor	ISR1020.1 23	SMTA
94	CIM-2014-081_Ethiopia 44	Quaiu#2	ISR1020.1 24	SMTA
95	CIM-2014-081_Ethiopia 45	Simba	ISR1020.8 6	SMTA
96	CIM-2014-081_Ethiopia 46	Trophy	ISR1020.1 05	SMTA
97	CIM-2014-081_Ethiopia 47	Tura	ISR1020.8 4	SMTA
98	CIM-2014-081_Ethiopia 48	Tusie or HAR1407	ISR1020.7 9	SMTA
99	CIM-2014-081_Ethiopia 49	Wabe or HAR710	ISR1020.6 8	SMTA
100	CIM-2014-081_Ethiopia 50	Watera or HAR1920	ISR1020.8 3	SMTA
101	CIM-2014-081_India 1	Abyssinia 23	AGG	SMTA
102	CIM-2014-081_India 2	Bihar 50	AGG	SMTA
103	CIM-2014-081_India 3	Bihar 60	AGG	SMTA
104	CIM-2014-081_India 4	C 273	ISR949	SMTA
105	CIM-2014-081_India 5	C 303	ISR949	SMTA
106	CIM-2014-081_India 6	C 518	ISR949	SMTA
107	CIM-2014-081_India 7	C 591	ISR949	SMTA
108	CIM-2014-081_India 8	Chandushi	AGG	SMTA
109	CIM-2014-081_India 9	DBW 14	ISR949	SMTA
110	CIM-2014-081_India 10	DBW 16	ISR949	SMTA
111	CIM-2014-081_India 11	DBW 17	ISR949	SMTA
112	CIM-2014-081_India 12	Ferozepore Red No. 1	AGG	SMTA
113	CIM-2014-081_India 13	FLW 2	AGG	SMTA
114	CIM-2014-081_India 14	FLW 6	AGG	SMTA
115	CIM-2014-081_India 15	FLW 8	AGG	SMTA
116	CIM-2014-081_India 16	Gwalior V26	AGG	SMTA
117	CIM-2014-081_India 17	HD 2009	AGG	SMTA
118	CIM-2014-081_India 18	HD 2733	ISR949	SMTA
119	CIM-2014-081_India 19	Hoshangaba d	AGG	SMTA
120	CIM-2014-081_India 20	HP 1731	AGG	SMTA
121	CIM-2014-081_India 21	HP 1744	AGG	SMTA
122	CIM-2014-081_India 22	HUW 468	AGG	SMTA
123	CIM-2014-081_India 23	INDORE P10	AGG	SMTA
124	CIM-2014-081_India 24	K 9107	AGG	SMTA
125	CIM-2014-081_India 25	Kalyan 227B	AGG	SMTA
126	CIM-2014-081_India 26	Kashmir 1	AGG	SMTA

127	CIM-2014-081_India 27	Kashmir 15	AGG	SMTA
128	CIM-2014-081_India 28	Lal Batala	AGG	SMTA
129	CIM-2014-081_India 29	Mudya	AGG	SMTA
130	CIM-2014-081_India 30	Nagpur	AGG	SMTA
131	CIM-2014-081_India 31	New PUSA 125	AGG	SMTA
132	CIM-2014-081_India 32	New PUSA 52	AGG	SMTA
133	CIM-2014-081_India 33	New PUSA 710	AGG	SMTA
134	CIM-2014-081_India 34	Niphad	AGG	SMTA
135	CIM-2014-081_India 35	PBW 175	ISR949	SMTA
136	CIM-2014-081_India 36	PBW 343	ISR949	SMTA
137	CIM-2014-081_India 37	PBW 533	ISR949	SMTA
138	CIM-2014-081_India 38	PBW 550	ISR949	SMTA
139	CIM-2014-081_India 39	PBW 581	ISR949	SMTA
140	CIM-2014-081_India 40	PBW 582	ISR949	SMTA
141	CIM-2014-081_India 41	PBW 593	ISR949	SMTA
142	CIM-2014-081_India 42	Punjab 8A	AGG	SMTA
143	CIM-2014-081_India 43	PUSA 11	AGG	SMTA
144	CIM-2014-081_India 44	PUSA 114	AGG	SMTA
145	CIM-2014-081_India 45	PUSA A068	AGG	SMTA
146	CIM-2014-081_India 46	T4/C 306	AGG	SMTA
147	CIM-2014-081_India 47	Vijaya	AGG	SMTA
148	CIM-2014-081_India 48	WH 542	AGG	SMTA
149	CIM-2014-081_India 49	WL 711	AGG	SMTA
150	CIM-2014-081_India 50	Zonk 1	AGG	SMTA
151	CIM-2014-081_Nepal 1	Achyut	ISR1123	SMTA
152	CIM-2014-081_Nepal 2	Aditya	ISR1123	SMTA
153	CIM-2014-081_Nepal 3	Annapurna-1	ISR1123	SMTA
154	CIM-2014-081_Nepal 4	Annapurna-2	ISR1123	SMTA
155	CIM-2014-081_Nepal 5	Annapurna-3	ISR1123	SMTA
156	CIM-2014-081_Nepal 6	Annapurna-4	ISR1123	SMTA
157	CIM-2014-081_Nepal 7	Banganga	ISR1123	SMTA
158	CIM-2014-081_Nepal 8	Bhrikuti	ISR1123	SMTA
159	CIM-2014-081_Nepal 9	BL 1022	ISR1123	SMTA
160	CIM-2014-081_Nepal 10	BL 1135	ISR1123	SMTA
161	CIM-2014-081_Nepal 11	BL 1473	ISR1123	SMTA
162	CIM-2014-081_Nepal 12	BL 2473	ISR825.4	SMTA
163	CIM-2014-081_Nepal 13	BL 2516	ISR825.16	SMTA
164	CIM-2014-081_Nepal 14	BL 2582	ISR825.14	SMTA
165	CIM-2014-081_Nepal 15	BL 2800	ISR825.13	SMTA
166	CIM-2014-081_Nepal 16	BL 2818	ISR825.26	SMTA
167	CIM-2014-081_Nepal 17	BL 2999	ISR825.22	SMTA
168	CIM-2014-081_Nepal 18	Chyakhura	ISR1123	SMTA
169	CIM-2014-081_Nepal 19	Danphe	ISR1123	SMTA
170	CIM-2014-081_Nepal 20	Dhaulagiri	ISR1123	SMTA
171	CIM-2014-081_Nepal 21	Gaura	ISR1123	SMTA
172	CIM-2014-081_Nepal 22	Gautam	ISR1123	SMTA
173	CIM-2014-081_Nepal 23	HD 1982	ISR1123	SMTA
174	CIM-2014-081_Nepal 24	Kalyansona	ISR1123	SMTA
175	CIM-2014-081_Nepal 25	Kanti	ISR1123	SMTA

176	CIM-2014-081_Nepal 26	Lerma 52	ISR1123	SMTA
177	CIM-2014-081_Nepal 27	Lerma Rojo 64	ISR1123	SMTA
178	CIM-2014-081_Nepal 28	Lumbini	ISR1123	SMTA
179	CIM-2014-081_Nepal 29	Munal	ISR1123	SMTA
180	CIM-2014-081_Nepal 30	Nepal 251	ISR1123	SMTA
181	CIM-2014-081_Nepal 31	Nepal 297	ISR1123	SMTA
182	CIM-2014-081_Nepal 32	NL 30	ISR1123	SMTA
183	CIM-2014-081_Nepal 33	NL 923	ISR825.5	SMTA
184	CIM-2014-081_Nepal 34	NL 971	ISR1123	SMTA
185	CIM-2014-081_Nepal 35	NL 985	ISR825.30	SMTA
186	CIM-2014-081_Nepal 36	Pasang Lhamu	ISR1123	SMTA
187	CIM-2014-081_Nepal 37	Pitic 62	ISR1123	SMTA
188	CIM-2014-081_Nepal 38	Rohini	ISR1123	SMTA
189	CIM-2014-081_Nepal 39	RR 21	ISR1123	SMTA
190	CIM-2014-081_Nepal 40	Siddhartha	ISR1123	SMTA
191	CIM-2014-081_Nepal 41	Sworgadwari	ISR1123	SMTA
192	CIM-2014-081_Nepal 42	Tilottama	ISR1123	SMTA
193	CIM-2014-081_Nepal 43	Triveni	ISR1123	SMTA
194	CIM-2014-081_Nepal 44	UP 262	ISR1123	SMTA
195	CIM-2014-081_Nepal 45	Vaskar	ISR1123	SMTA
196	CIM-2014-081_Nepal 46	Vijaya	ISR1123	SMTA
197	CIM-2014-081_Nepal 47	Vinayak	ISR1123	SMTA
198	CIM-2014-081_Nepal 48	WK 1348	ISR825.36	SMTA
199	CIM-2014-081_Nepal 49	WK 1368	ISR825.45	SMTA
200	CIM-2014-081_Nepal 50	WK1204	ISR1123	SMTA
201	CIM-2014-081_Pakistan 1	AARI-11	ISR1062	SMTA
202	CIM-2014-081_Pakistan 2	Ages (?)	ISR1062	SMTA
203	CIM-2014-081_Pakistan 3	Auqab 2000	ISR1062	SMTA
204	CIM-2014-081_Pakistan 4	Barani-83	ISR1062	SMTA
205	CIM-2014-081_Pakistan 5	Bhittai	ISR918	SMTA
206	CIM-2014-081_Pakistan 6	Chanab-2000	ISR1062	SMTA
207	CIM-2014-081_Pakistan 7	Darwar-97	ISR971	SMTA
208	CIM-2014-081_Pakistan 8	Fakhre Sarhad	ISR918	SMTA
209	CIM-2014-081_Pakistan 9	FSD-2008	ISR1062	SMTA
210	CIM-2014-081_Pakistan 10	GA-2002	ISR918	SMTA
211	CIM-2014-081_Pakistan 11	Galaxy-2013	ISR1062	SMTA
212	CIM-2014-081_Pakistan 12	Inqilab-91	ISR918	SMTA
213	CIM-2014-081_Pakistan 13	Iqbal-2000	ISR918	SMTA
214	CIM-2014-081_Pakistan 14	Kohinoor-83	ISR1062	SMTA
215	CIM-2014-081_Pakistan 15	Kohistan-97	ISR971	SMTA
216	CIM-2014-081_Pakistan 16	Lasani-2008	ISR1062	SMTA
217	CIM-2014-081_Pakistan 17	Manthar-2003	ISR918	SMTA
218	CIM-2014-081_Pakistan 18	Margalla-99	ISR918	SMTA
219	CIM-2014-081_Pakistan 19	Marvi-2000	ISR918	SMTA
220	CIM-2014-081_Pakistan 20	Marwat-2001	ISR918	SMTA
221	CIM-2014-081_Pakistan 21	Marwat-J-01	ISR918	SMTA
222	CIM-2014-081_Pakistan 22	Moomal-2000	ISR918	SMTA
223	CIM-2014-081_Pakistan 23	Moomal-2002	ISR918	SMTA

224	CIM-2014-081_Pakistan 24	Nesser	ISR971	SMTA
225	CIM-2014-081_Pakistan 25	NR-339	ISR918	SMTA
226	CIM-2014-081_Pakistan 26	NR-340	ISR918	SMTA
227	CIM-2014-081_Pakistan 27	NR-345	ISR918	SMTA
228	CIM-2014-081_Pakistan 28	NR-346	ISR918	SMTA
229	CIM-2014-081_Pakistan 29	NR-347	ISR918	SMTA
230	CIM-2014-081_Pakistan 30	NR-348	ISR918	SMTA
231	CIM-2014-081_Pakistan 31	NR-349	ISR918	SMTA
232	CIM-2014-081_Pakistan 32	NR-350	ISR918	SMTA
233	CIM-2014-081_Pakistan 33	NR-351	ISR918	SMTA
234	CIM-2014-081_Pakistan 34	NR-353	ISR918	SMTA
235	CIM-2014-081_Pakistan 35	Parus/Pastor	ISR971	SMTA
236	CIM-2014-081_Pakistan 36	Pasror/BAV9 2	ISR971	SMTA
237	CIM-2014-081_Pakistan 37	Pirsabak- 2004	ISR918	SMTA
238	CIM-2014-081_Pakistan 38	Punjab-11	ISR1062	SMTA
239	CIM-2014-081_Pakistan 39	Saleem-2000	ISR918	SMTA
240	CIM-2014-081_Pakistan 40	Seher 2006	ISR918	SMTA
241	CIM-2014-081_Pakistan 41	SH-2003	ISR918	SMTA
242	CIM-2014-081_Pakistan 42	Shafaq-2006	ISR918	SMTA
243	CIM-2014-081_Pakistan 43	SITTA	ISR971	SMTA
244	CIM-2014-081_Pakistan 44	Tatara	ISR918	SMTA
245	CIM-2014-081_Pakistan 45	V-04188	ISR971	SMTA
246	CIM-2014-081_Pakistan 46	V-04189	ISR971	SMTA
247	CIM-2014-081_Pakistan 47	Wafaq-2001	ISR918	SMTA
248	CIM-2014-081_Pakistan 48	Weebil-1	ISR971	SMTA
249	CIM-2014-081_Pakistan 49	Yecora-70	ISR1062	SMTA
250	CIM-2014-081_Pakistan 50	Zarlaashta	ISR918	SMTA

**Appendix II: Details of additional germplasm selected including 300 wheat lines**

<b>Selection ID</b>	<b>Line ID</b>	<b>Source</b>
KSS_Wheat_1	H567.71	AGG
KSS_Wheat_2	PBW 343	AGG
KSS_Wheat_3	WH542/H567.71-10	AGG
KSS_Wheat_4	WH542/H567.71-102	AGG
KSS_Wheat_5	WH542/H567.71-104	AGG
KSS_Wheat_6	WH542/H567.71-105	AGG
KSS_Wheat_7	WH542/H567.71-106	AGG
KSS_Wheat_8	WH542/H567.71-108	AGG
KSS_Wheat_9	WH542/H567.71-109	AGG
KSS_Wheat_10	WH542/H567.71-11	AGG
KSS_Wheat_11	WH542/H567.71-110	AGG
KSS_Wheat_12	WH542/H567.71-111	AGG
KSS_Wheat_13	WH542/H567.71-117	AGG
KSS_Wheat_14	WH542/H567.71-118	AGG
KSS_Wheat_15	WH542/H567.71-119	AGG
KSS_Wheat_16	WH542/H567.71-12	AGG
KSS_Wheat_17	WH542/H567.71-120	AGG
KSS_Wheat_18	WH542/H567.71-121	AGG
KSS_Wheat_19	WH542/H567.71-122	AGG
KSS_Wheat_20	WH542/H567.71-123	AGG
KSS_Wheat_21	WH542/H567.71-124	AGG
KSS_Wheat_22	WH542/H567.71-125	AGG
KSS_Wheat_23	WH542/H567.71-126	AGG
KSS_Wheat_24	WH542/H567.71-127	AGG
KSS_Wheat_25	WH542/H567.71-128	AGG
KSS_Wheat_26	WH542/H567.71-129	AGG
KSS_Wheat_27	WH542/H567.71-13	AGG
KSS_Wheat_28	WH542/H567.71-130	AGG
KSS_Wheat_29	WH542/H567.71-132	AGG
KSS_Wheat_30	WH542/H567.71-135	AGG
KSS_Wheat_31	WH542/H567.71-138	AGG
KSS_Wheat_32	WH542/H567.71-14	AGG
KSS_Wheat_33	WH542/H567.71-15	AGG
KSS_Wheat_34	WH542/H567.71-16	AGG
KSS_Wheat_35	WH542/H567.71-17	AGG
KSS_Wheat_36	WH542/H567.71-21	AGG
KSS_Wheat_37	WH542/H567.71-22	AGG
KSS_Wheat_38	WH542/H567.71-24	AGG
KSS_Wheat_39	WH542/H567.71-25	AGG
KSS_Wheat_40	WH542/H567.71-26	AGG
KSS_Wheat_41	WH542/H567.71-27	AGG
KSS_Wheat_42	WH542/H567.71-28	AGG
KSS_Wheat_43	WH542/H567.71-29	AGG
KSS_Wheat_44	WH542/H567.71-3	AGG
KSS_Wheat_45	WH542/H567.71-30	AGG
KSS_Wheat_46	WH542/H567.71-31	AGG
KSS_Wheat_47	WH542/H567.71-32	AGG
KSS_Wheat_48	WH542/H567.71-33	AGG
KSS_Wheat_49	WH542/H567.71-34	AGG
KSS_Wheat_50	WH542/H567.71-35	AGG
KSS_Wheat_51	WH542/H567.71-36	AGG
KSS_Wheat_52	WH542/H567.71-37	AGG
KSS_Wheat_53	WH542/H567.71-38	AGG
KSS_Wheat_54	WH542/H567.71-39	AGG
KSS_Wheat_55	WH542/H567.71-4	AGG
KSS_Wheat_56	WH542/H567.71-40	AGG
KSS_Wheat_57	WH542/H567.71-41	AGG
KSS_Wheat_58	WH542/H567.71-43	AGG
KSS_Wheat_59	WH542/H567.71-45	AGG
KSS_Wheat_60	WH542/H567.71-47	AGG
KSS_Wheat_61	WH542/H567.71-48	AGG
KSS_Wheat_62	WH542/H567.71-49	AGG
KSS_Wheat_63	WH542/H567.71-5	AGG
KSS_Wheat_64	WH542/H567.71-50	AGG
KSS_Wheat_65	WH542/H567.71-51	AGG
KSS_Wheat_66	WH542/H567.71-53	AGG
KSS_Wheat_67	WH542/H567.71-54	AGG
KSS_Wheat_68	WH542/H567.71-55	AGG
KSS_Wheat_69	WH542/H567.71-56	AGG
KSS_Wheat_70	WH542/H567.71-57	AGG
KSS_Wheat_71	WH542/H567.71-59	AGG
KSS_Wheat_72	WH542/H567.71-61	AGG
KSS_Wheat_73	WH542/H567.71-62	AGG
KSS_Wheat_74	WH542/H567.71-63	AGG
KSS_Wheat_75	WH542/H567.71-64	AGG
KSS_Wheat_76	WH542/H567.71-65	AGG
KSS_Wheat_77	WH542/H567.71-66	AGG
KSS_Wheat_78	WH542/H567.71-67	AGG



KSS_Wheat_79	WH542/H567.71-68	AGG
KSS_Wheat_80	WH542/H567.71-69	AGG
KSS_Wheat_81	WH542/H567.71-70	AGG
KSS_Wheat_82	WH542/H567.71-71	AGG
KSS_Wheat_83	WH542/H567.71-77	AGG
KSS_Wheat_84	WH542/H567.71-78	AGG
KSS_Wheat_85	WH542/H567.71-80	AGG
KSS_Wheat_86	WH542/H567.71-82	AGG
KSS_Wheat_87	WH542/H567.71-83	AGG
KSS_Wheat_88	WH542/H567.71-85	AGG
KSS_Wheat_89	WH542/H567.71-88	AGG
KSS_Wheat_90	WH542/H567.71-89	AGG
KSS_Wheat_91	WH542/H567.71-9	AGG
KSS_Wheat_92	WH542/H567.71-93	AGG
KSS_Wheat_93	WH542/H567.71-96	AGG
KSS_Wheat_94	WH542/H567.71-97	AGG
KSS_Wheat_95	CHANDUSHI	AGG
KSS_Wheat_96	KALYAN 227A	AGG
KSS_Wheat_97	LA PUSAH	AGG
KSS_Wheat_98	NAGPUR	AGG
KSS_Wheat_99	NP 871	AGG
KSS_Wheat_100	HD (M) 15926-65-1567	AGG
KSS_Wheat_101	PAKISTAN 5725	AGG
KSS_Wheat_102	UP 306	AGG
KSS_Wheat_103	UP 310	AGG
KSS_Wheat_104	UP 312	AGG
KSS_Wheat_105	UP 315	AGG
KSS_Wheat_106	UP 319	AGG
KSS_Wheat_107	UP 320	AGG
KSS_Wheat_108	UP 323	AGG
KSS_Wheat_109	UP 324	AGG
KSS_Wheat_110	D 271	AGG
KSS_Wheat_111	T4/C 306	AGG
KSS_Wheat_112	T4/C 306*3//C 306	AGG
KSS_Wheat_113	T4/C 306*3//C 306	AGG
KSS_Wheat_114	PAK 20	AGG
KSS_Wheat_115	SEL FROM UP 307	AGG
KSS_Wheat_116	UP 307 (?)	AGG
KSS_Wheat_117	BLUEBIRD NO. 7 (PAK SELECTION)	AGG
KSS_Wheat_118	AUS 15980	AGG
KSS_Wheat_119	BARANI 70	AGG
KSS_Wheat_120	MOTI	AGG
KSS_Wheat_121	AUS 16017	AGG
KSS_Wheat_122	KALYANSONA S	AGG
KSS_Wheat_123	CHENAB 70 S	AGG
KSS_Wheat_124	HD 1925	AGG
KSS_Wheat_125	HD 1981-1	AGG
KSS_Wheat_126	HD 1982-1	AGG
KSS_Wheat_127	HD 1999-2	AGG
KSS_Wheat_128	HD 2028	AGG
KSS_Wheat_129	HB 117-017	AGG
KSS_Wheat_130	KIRAN	AGG
KSS_Wheat_131	MEXIPAK MUTANT 3	AGG
KSS_Wheat_132	MEXIPAK MUTANT 244	AGG
KSS_Wheat_133	MEXIPAK MUTANT 432	AGG
KSS_Wheat_134	DRASS RIVER	AGG
KSS_Wheat_135	CHOTI LERMA S 331	AGG
KSS_Wheat_136	NEW PUSA 766	AGG
KSS_Wheat_137	W7	AGG
KSS_Wheat_138	U.P. 236	AGG
KSS_Wheat_139	U.P./135B	AGG
KSS_Wheat_140	NARMADA-4	AGG
KSS_Wheat_141	N.I.A.B. 75-526	AGG
KSS_Wheat_142	GIRIJA	AGG
KSS_Wheat_143	HY-65	AGG
KSS_Wheat_144	MUKTA	AGG
KSS_Wheat_145	WG-357	AGG
KSS_Wheat_146	PAKISTAN W 10	AGG
KSS_Wheat_147	PAKISTAN W 20C	AGG
KSS_Wheat_148	HD 1592	AGG
KSS_Wheat_149	NEW PUSA 7-1-6-1	AGG
KSS_Wheat_150	E 6893	AGG
KSS_Wheat_151	E 6935	AGG
KSS_Wheat_152	D 144	AGG
KSS_Wheat_153	HD-2167	AGG
KSS_Wheat_154	HD-2169	AGG
KSS_Wheat_155	HD-2172	AGG
KSS_Wheat_156	LYALLPUR 73	AGG
KSS_Wheat_157	NIAB 500	AGG
KSS_Wheat_158	GREEN VALLY	AGG

KSS_Wheat_159	W125	AGG
KSS_Wheat_160	W146	AGG
KSS_Wheat_161	W235	AGG
KSS_Wheat_162	C 273	AGG
KSS_Wheat_163	PAU 6	AGG
KSS_Wheat_164	KANAK	AGG
KSS_Wheat_165	KOELZ W 8485	AGG
KSS_Wheat_166	MANDEL GEHUN	AGG
KSS_Wheat_167	KOELZ W 8875	AGG
KSS_Wheat_168	KOELZ W 8945	AGG
KSS_Wheat_169	HD 2169	AGG
KSS_Wheat_170	HD 2172	AGG
KSS_Wheat_171	U.P.-1	AGG
KSS_Wheat_172	U.P.-10	AGG
KSS_Wheat_173	UP 262	AGG
KSS_Wheat_174	PUSA 80-5C	AGG
KSS_Wheat_175	HD 2162	AGG
KSS_Wheat_176	UP 114	AGG
KSS_Wheat_177	WL 711	AGG
KSS_Wheat_178	HW 135	AGG
KSS_Wheat_179	HD 2236	AGG
KSS_Wheat_180	HUW 37	AGG
KSS_Wheat_181	WL 410	AGG
KSS_Wheat_182	HD 2278	AGG
KSS_Wheat_183	HD 2281	AGG
KSS_Wheat_184	HD 2177	AGG
KSS_Wheat_185	HB 501	AGG
KSS_Wheat_186	IWP 19	AGG
KSS_Wheat_187	IWP 72	AGG
KSS_Wheat_188	IWP 87	AGG
KSS_Wheat_189	IWP 124	AGG
KSS_Wheat_190	IWP 127	AGG
KSS_Wheat_191	IWP 129	AGG
KSS_Wheat_192	IWP 139	AGG
KSS_Wheat_193	IWP 143	AGG
KSS_Wheat_194	WL 2265	AGG
KSS_Wheat_195	E 8150	AGG
KSS_Wheat_196	MEXIPAK 65	AGG
KSS_Wheat_197	PUNJAB 81	AGG
KSS_Wheat_198	HUW 206	AGG
KSS_Wheat_199	SARHAD 82	AGG
KSS_Wheat_200	V1287.GII	AGG
KSS_Wheat_201	NL 410	AGG
KSS_Wheat_202	SINDI 83	AGG
KSS_Wheat_203	V 79143	AGG
KSS_Wheat_204	BL 1044	AGG
KSS_Wheat_205	DWR 39	AGG
KSS_Wheat_206	NR 86-II	AGG
KSS_Wheat_207	NL 459	AGG
KSS_Wheat_208	HD 2402	AGG
KSS_Wheat_209	KHYBER 79	AGG
KSS_Wheat_210	K342	AGG
KSS_Wheat_211	HI 977	AGG
KSS_Wheat_212	ZARGHOON-79	AGG
KSS_Wheat_213	ZARGOON	AGG
KSS_Wheat_214	HD 2385	AGG
KSS_Wheat_215	DL 153-2	AGG
KSS_Wheat_216	PBW 154	AGG
KSS_Wheat_217	KHYBER 87	AGG
KSS_Wheat_218	WH 416	AGG
KSS_Wheat_219	PJB 81	AGG
KSS_Wheat_220	NL 560	AGG
KSS_Wheat_221	HD 2428	AGG
KSS_Wheat_222	V 81608	AGG
KSS_Wheat_223	WH 157	AGG
KSS_Wheat_224	RAJ 3077	AGG
KSS_Wheat_225	RAJ 1972	AGG
KSS_Wheat_226	PBW 65	AGG
KSS_Wheat_227	PBW 299	AGG
KSS_Wheat_228	DHARWAR DRY	AGG
KSS_Wheat_229	WH 542	AGG
KSS_Wheat_230	PIRSAVAK 85	AGG
KSS_Wheat_231	UP 2338	AGG
KSS_Wheat_232	BAKHTAWAR 94	AGG
KSS_Wheat_233	HUW 234	AGG
KSS_Wheat_234	CPAN 3004	AGG
KSS_Wheat_235	UP 2338	AGG
KSS_Wheat_236	NL 623	AGG
KSS_Wheat_237	HYBRID DELHI RAINFED 77	AGG
KSS_Wheat_238	INDIA (87??)	AGG

KSS_Wheat_239	PBW343	AGG
KSS_Wheat_240	BHRIKUTI	AGG
KSS_Wheat_241	PARWAZ-94	AGG
KSS_Wheat_242	HP 1731	AGG
KSS_Wheat_243	HP 1761	AGG
KSS_Wheat_244	HP 1744	AGG
KSS_Wheat_245	INQILAB 91	AGG
KSS_Wheat_246	SUJATA	AGG
KSS_Wheat_247	NL 750	AGG
KSS_Wheat_248	BL 1724	AGG
KSS_Wheat_249	BUSHAK	AGG
KSS_Wheat_250	SARC 2	AGG
KSS_Wheat_251	SARC 4	AGG
KSS_Wheat_252	SARC 5	AGG
KSS_Wheat_253	KRL 19	AGG
KSS_Wheat_254	S 24	AGG
KSS_Wheat_255	WC 1	AGG
KSS_Wheat_256	WC 20	AGG
KSS_Wheat_257	WC 30	AGG
KSS_Wheat_258	FAISALABAD-83	AGG
KSS_Wheat_259	ROHTAS-90	AGG
KSS_Wheat_260	PASBAN	AGG
KSS_Wheat_261	SARIAB-92	AGG
KSS_Wheat_262	SIND-81	AGG
KSS_Wheat_263	UQAB-2000	AGG
KSS_Wheat_264	SALEEM-2000	AGG
KSS_Wheat_265	HAIDER 2000	AGG
KSS_Wheat_266	NOWSHERA-2000	AGG
KSS_Wheat_267	TATARA	AGG
KSS_Wheat_268	BAKHAR-2000	AGG
KSS_Wheat_269	WAFaq-2001	AGG
KSS_Wheat_270	SARC-5	AGG
KSS_Wheat_271	HUW468	AGG
KSS_Wheat_272	INQALAB 91	AGG
KSS_Wheat_273	PBW 502	AGG
KSS_Wheat_274	IG 41505	AGG
KSS_Wheat_275	IG 41506	AGG
KSS_Wheat_276	IG 41624	AGG
KSS_Wheat_277	IG 41652	AGG
KSS_Wheat_278	IG 41654	AGG
KSS_Wheat_279	IG 42132	AGG
KSS_Wheat_280	IG 42146	AGG
KSS_Wheat_281	KUNDAN	AGG
KSS_Wheat_282	IG 41387	AGG
KSS_Wheat_283	IG 41312	AGG
KSS_Wheat_284	IG 43267	AGG
KSS_Wheat_285	LAL BAHADUR*5/CSP44(LR48)	AGG
KSS_Wheat_286	LAL BAHADUR*5/VL404(LR49)	AGG
KSS_Wheat_287	BLUE SILVER	AGG
KSS_Wheat_288	SARHAD 82	AGG
KSS_Wheat_289	PAKISTAN 81	AGG
KSS_Wheat_290	AVNILYRCD+YR18	PBI
KSS_Wheat_291	AVNIL YR18	PBI
KSS_Wheat_292	AVNIL YR29	PBI
KSS_Wheat_293	AVNIL YR18+29	PBI
KSS_Wheat_294	AVNIL YR18+46	PBI
KSS_Wheat_295	AVNIL YR18+29+46	PBI
KSS_Wheat_296	EGA GREGORY (YR33)	PBI
KSS_Wheat_297	BAXTER (YR18, YR29)	PBI
KSS_Wheat_298	SUNTOP (YR17, YR27, YR30? YR31)	PBI
KSS_Wheat_299	TROJAN (YR29)	PBI
KSS_Wheat_300	AVOCET S	PBI

### Appendix III: Pedigree details of 94 synthetic wheat lines selected and characterised for rust resistance

PBI#	AUS No.	Pedigree
Syn_1	AUS30265	FALCIN/AE. SQUARROSA (389)
Syn_2	AUS30266	ARLIN/AE. SQUARROSA (410)
Syn_3	AUS30268	GREEN/AE. SQUARROSA (458)
Syn_4	AUS30269	LARU/AE. SQUARROSA (507)
Syn_5	AUS30273	GAN/AE. SQUARROSA (182)
Syn_6	AUS30275	DOY1/AE. SQUARROSA (255)
Syn_7	AUS30279	SCA/AE. SQUARROSA (272)
Syn_8	AUS30282	DOY1/AE. SQUARROSA (334)
Syn_9	AUS30283	CPI/GEDIZ/3/GOO//JO69/CRA/4/AE. SQUARROSA (334)
Syn_10	AUS30288	CROC_1/AE. SQUARROSA (466)
Syn_11	AUS30307	CROC_1/AE. SQUARROSA (205)//MILAN/KAUZ
Syn_12	AUS30311	ALTAR 84/AE. SQUARROSA (211)//BAV92
Syn_13	AUS30312	CASKOR/3/CROC_1/AE. SQUARROSA (224)//OPATA
Syn_14	AUS30320	CROC_1/AE. SQUARROSA (224)//OPATA/3/PASTOR
Syn_15	AUS30332	PJN/BOW//OPATA*2/3/CROC_1/AE. SQUARROSA (224)//OPATA
Syn_16	AUS30334	URES/BBL//KAUZ/3/KAUZ/4/CHEN/AE. SQUARROSA (TAUS)//BCN/5/URES/JUN//KAUZ
Syn_17	AUS30336	CPI/GEDIZ/3/GOO//JO69/CRA/4/AE. SQUARROSA (208)/5/HAHN/2*WEAVER
Syn_18	AUS30337	CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER/5/WEAVER
Syn_19	AUS30341	CHIL/2*STAR/5/CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER
Syn_20	AUS30343	D67.2/P66.270//AE. SQUARROSA (217)/3/IRENA
Syn_21	AUS30344	CROC_1/AE. SQUARROSA (224)//OPATA/3/ATTILA
Syn_22	AUS30353	CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER/5/BORL95
Syn_23	AUS30357	MILAN/KAUZ/5/CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER/6/TOB/ERA//TOB/CNO67/3/PLO/4/VEE#5/5/KAUZ
Syn_24	AUS30360	PASTOR/3/ALTAR 84/AE. SQUARROSA (TAUS)//OPATA
Syn_25	AUS30398	TOB/ERA//TOB/CNO67/3/PLO/4/VEE#5/5/KAUZ/6/CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER/7/URES/JUN//KAUZ
Syn_26	AUS30500	CROC_1/AE. SQUARROSA (210)//2*EXCALIBUR
Syn_27	AUS30503	ALTAR 84/AE. SQUARROSA (211)//2*JANZ
Syn_28	AUS30505	CROC_1/AE. SQUARROSA (224)//2*KULIN
Syn_29	AUS30508	YAV79//DACK/RABI/3/SNIPE/4/AE. SQUARROSA (460)/5/2*EXCALIBUR
Syn_30	AUS30509	68.111/RGB-U//WARD/3/FGO/4/RABI/5/AE. SQUARROSA (878)/6/2*M5660
Syn_31	AUS30511	CETA/AE. SQUARROSA (174)//2*FRAME
Syn_32	AUS30515	SLVS/6/FILIN/IRENA/5/CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER
Syn_33	AUS30521	CROC_1/AE. SQUARROSA (224)//OPATA/3/RAC655
Syn_34	AUS30525	QT6581/4/PASTOR//SITE/MO/3/CHEN/AE. SQUARROSA (TAUS)//BCN
Syn_35	AUS30538	GOROKE/6/FILIN/IRENA/5/CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER
Syn_36	AUS30542	SLVS/3/CROC_1/AE. SQUARROSA (224)//OPATA
Syn_37	AUS30547	CETA/AE. SQUARROSA (327)//2*CUNNINGHAM
Syn_38	AUS30549	CETA/AE. SQUARROSA (327)//2*JANZ
Syn_39	AUS30550	68.111/RGB-U//WARD/3/FGO/4/RABI/5/AE. SQUARROSA (629)/6/2*FRAME
Syn_40	AUS30552	CETA/AE. SQUARROSA (1024)//2*SLVS
Syn_41	AUS30553	DOY1/AE. SQUARROSA (447)//2*CUNNINGHAM
Syn_42	AUS30556	CROC_1/AE. SQUARROSA (205)//BORL95/3/2*KENNEDY
Syn_43	AUS30560	PGO//CROC_1/AE. SQUARROSA (224)/3/2*BORL95/4/2*CO4417.001
Syn_44	AUS30562	CROC_1/AE. SQUARROSA (224)//2*OPATA/3/2*RAC655
Syn_45	AUS30575	DVERD_2/AE. SQUARROSA (214)//2*BCN/3/2*RAC710
Syn_46	AUS30577	CROC_1/AE. SQUARROSA (397)//2*TRIDENT
Syn_47	AUS30581	ACO89/AE. SQUARROSA (309)//RAC710
Syn_48	AUS30582	CROC_1/AE. SQUARROSA (205)//KAUZ/3/GOROKE
Syn_49	AUS30584	CROC_1/AE. SQUARROSA (205)//BORL95/3/KENNEDY
Syn_50	AUS30594	CROC_1/AE. SQUARROSA (224)//2*OPATA/3/RAC655
Syn_51	AUS30596	D67.2/P66.270//AE. SQUARROSA (320)/3/CUNNINGHAM
Syn_52	AUS30611	CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER/5/2*JANZ
Syn_53	AUS30613	CNDO/R143//ENTE/MEXI_2/3/AE. SQUARROSA (TAUS)/4/WEAVER/5/2*FRAME
Syn_54	AUS30615	SRN/AE. SQUARROSA (358)/4/URES//BUC/PVN/3/KAUZ
Syn_55	AUS30617	K134(60)/VEE//BOW/PVN/3/CROC_1/AE. SQUARROSA (224)//OPATA
Syn_56	AUS30618	OPATA//CROC_1/AE. SQUARROSA (879)/3/URES/JUN//KAUZ
Syn_57	AUS30619	ALTAR 84/AE. SQUARROSA (221)//PASTOR/3/PASTOR
Syn_58	AUS30620	ALTAR 84/AE. SQUARROSA (224)//2*YACO/3/BABAX
Syn_59	AUS30622	CROC_1/AE. SQUARROSA (213)//PGO/3/BABAX
Syn_60	AUS30623	SRN/AE. SQUARROSA (358)/4/URES//BUC/PVN/3/KAUZ/5/BABAX
Syn_61	AUS30624	ALTAR 84/AE. SQUARROSA (TAUS)//OCI/3/VEE/MJI//2*TUI
Syn_62	AUS30626	GAN/AE. SQUARROSA (257)
Syn_63	AUS30632	SRN/AE. SQUARROSA (358)
Syn_64	AUS30633	SCOOP_1/AE. SQUARROSA (358)
Syn_65	AUS30635	GAN/AE. SQUARROSA (408)
Syn_66	AUS30636	STY-US/CELTA//PALS/3/SRN_5/4/AE. SQUARROSA (431)
Syn_67	AUS30658	GAN/AE. SQUARROSA (897)
Syn_68	AUS30664	GARZA/BOY//AE. SQUARROSA (281)
Syn_69	AUS33376	ALTAR 84/AE. SQUARROSA (333)
Syn_70	AUS33381	RASCON/AE. SQUARROSA (367)
Syn_71	AUS33383	DOY1/AE. SQUARROSA (415)
Syn_72	AUS33386	GARZA/BOY//AE. SQUARROSA (433)
Syn_73	AUS33388	DOY1/AE. SQUARROSA (458)
Syn_74	AUS33391	ALTAR 84/AE. SQUARROSA (507)

Syn_75	AUS33394	GARZA/BOY//AE. SQUARROSA (520)
Syn_76	AUS33395	DOY1/AE. SQUARROSA (532)
Syn_77	AUS33398	CETA/AE. SQUARROSA (170)
Syn_78	AUS33401	CROC_1/AE. SQUARROSA (231)
Syn_79	AUS33402	CETA/AE. SQUARROSA (256)
Syn_80	AUS33403	DOY1/AE. SQUARROSA (256)
Syn_81	AUS33406	SKARV_2/AE. SQUARROSA (304)
Syn_82	AUS33408	DOY1/AE. SQUARROSA (322)
Syn_83	AUS33424	CETA/AE. SQUARROSA (1027)
Syn_84	AUS34091	68.111/RGB-U//WARD/3/FGO/4/RABI/5/AE. SQUARROSA (629)/6/2*CARNAMAH
Syn_85	AUS34097	CETA/AE. SQUARROSA (1024)//2*M5660
Syn_86	AUS34100	ALTAR 84/AE. SQUARROSA (502)//2*CARNAMAH
Syn_87	AUS34116	DVERD_2/AE. SQUARROSA (1031)//KRICHAUFF/3/KRICHAUFF
Syn_88	AUS34119	CETA/AE. SQUARROSA (1031)//JANZ/3/SUNVALE
Syn_89	AUS34123	CETA/AE. SQUARROSA (1031)//JANZ/3/PELSART
Syn_90	AUS34142	DVERD_2/AE. SQUARROSA (1031)//SUNECA/3/SUNCO
Syn_91	AUS34148	CROC_1/AE. SQUARROSA (210)//EXCALIBUR/3/RAC-702
Syn_92	AUS34169	ALTAR 84/AE. SQUARROSA (211)//JANZ/3/WESTONIA
Syn_93	AUS34198	CROC_1/AE. SQUARROSA (224)//KULIN/3/WESTONIA
Syn_94	AUS34219	YAV79//DACK/RABI/3/SNIPE/4/AE. SQUARROSA (460)/5/EXCALIBUR/6/SUNCO

AE. = AEGILOPS

**Appendix IV:** Detail of *Puccinia striiformis* f. sp. *tritici* pathotypes used in the study

<b>Pst Pathotype</b>	<b>PBI culture number</b>	<b>Virulence for Yr gene/s</b>
104E137A+	414	Yr2, Yr3, Yr4, Yr25, YrA
110 E143A+	444	Yr2, Yr3, Yr4, Yr6, Yr7, Yr25, YrA,
134 E16 A+	572	Yr2, Yr6, Yr7, Yr8, Yr9, Yr25, YrA
150 E16A+	598	Yr2, Yr6, Yr7, Yr8, Yr9, Yr10, YrA
134 E16 A+ J+ Yr27+	607	Yr2, Yr6, Yr7, Yr8, Yr9, Yr25, Yr27, YrA, YrJ
134 E16 A+ J+ T+	615	Yr2, Yr6, Yr7, Yr8, Yr9, Yr25, YrA, YrJ, YrT
134 E16A+Yr17+Yr27+	617*	Yr2, Yr6, Yr7, Yr8, Yr9, Yr17, Yr25, Yr27, YrA
239E237A-17+33+	674*	Yr1, Yr2, Yr3, Yr4, Yr6, Yr7, Yr9, Yr17, Yr25, Yr32, Yr33
198 E16 A+J+T+17+	687*	Yr2, Yr4, Yr6, Yr7, Yr8, Yr9, Yr17, YrA, YrJ, YrT, YrSU (Suwon 92/Omar)

\*Predominant field pathotypes

**Appendix V:** Detail of control differentials used in the greenhouse rust testing for gene postulations

Line No.	Differential Name	Genus spp.	Gene for <i>Pst</i> resistance
1	Chinese 166	<i>Triticum aestivum</i>	Yr1
2	Lee	<i>Triticum aestivum</i>	Yr7
3	Heines Kolben	<i>Triticum aestivum</i>	Yr2, Yr6
4	Vilmorin 27	<i>Triticum aestivum</i>	Yr3
5	Moro	<i>Triticum aestivum</i>	Yr10
6	Strubes Dickkopf	<i>Triticum aestivum</i>	YrSD
7	Suwon 92/Omar	<i>Triticum aestivum</i>	YrSU
8	Clement	<i>Triticum aestivum</i>	Yr2, Yr9
9	Triticum Spelta	<i>Triticum spelta</i>	Yr5
10	Hybrid 46	<i>Triticum aestivum</i>	Yr4
11	Reichersberg 42	<i>Triticum aestivum</i>	Yr7
12	Heines Peko	<i>Triticum aestivum</i>	Yr2, Yr6
13	Nord Desprez	<i>Triticum aestivum</i>	YrND
14	Compair	<i>Triticum aestivum</i>	Yr8
15	Carstens V	<i>Triticum aestivum</i>	Yr32
16	Spaldings Prolific	<i>Triticum aestivum</i>	YrSP
17	Heines VII	<i>Triticum aestivum</i>	Yr2, Yr25
18	Avocet R	<i>Triticum aestivum</i>	YrA (Yr73, Yr74)
19	Kalyansona	<i>Triticum aestivum</i>	Yr2
20	Trident	<i>Triticum aestivum</i>	Yr17
21	NIL Yr15/6* AvS	<i>Triticum aestivum</i>	Yr15
22	Hugenoot	<i>Triticum turgidum</i> subsp. <i>durum</i>	Yr25
23	Selkirk	<i>Triticum aestivum</i>	Yr27
24	NIL Yr9/Avs	<i>Triticum aestivum</i>	Yr9
25	Avocet S	<i>Triticum aestivum</i>	Susceptible
26	EGA Gregory	<i>Triticum aestivum</i>	Yr33
27	Ellison	<i>Triticum aestivum</i>	Yr17
28	Tobruk	x <i>Triticosecale</i>	YrT
29	Breakwell	x <i>Triticosecale</i>	YrJ
30	NIL Yr17/Avs	<i>Triticum aestivum</i>	Yr17
31	Morocco	<i>Triticum aestivum</i>	Susceptible
32	Clipper Sahara (Barley)	<i>Hordeum vulgare</i>	

**Appendix VI: Scale used in the greenhouse for scoring rust infection types at seedling growth stage**

Line No.	Differential Name	Gene for <i>Pst</i> resistance
0	Immune	No visible uredinia or other macroscopic sign of infection.
0; to ;	Resistant	Necrotic flecks of varying sizes.
;N	Resistant	Necrotic areas, dead tissues without uredinia.
1	Resistant	Restricted small uredinia surrounded by necrosis.
2	Resistant	Small to medium uredinia often surrounded by chlorosis or necrosis, green island may be surrounded by chlorosis or necrosis.
X	Resistant	Random distribution of variable sized uredinia on single leaf with a pure rust culture.
Y	Resistant	Ordered distribution of variable sized uredinia, with larger uredinia at the leaf tip and smaller uredinia at the leaf base.
Z	Resistant	Ordered distribution of variable sized uredinia, with larger uredinia at the leaf base and smaller uredinia at the leaf tip.
3	Resistant	Medium sized uredinia that may be associated with chlorosis or rarely necrosis.
3+	Susceptible	Large uredinia without chlorosis or necrosis/abundant sporulation.

ITs: Infection types. An Infection type followed by letters C, N and CN denotes chlorosis, necrosis and chlorosis turning into necrosis respectively



**Appendix VII** Oligonucleotide primers and their PCR profiles used for the amplification of markers linked with *Yr18*, *Yr36* (*WKS*) and *Yr46* genes

Gene	Size (bp)	Ann (°C)	Ext (s)	Primer name	Primer sequence	Reference
<i>Yr18</i>	Present: 150 Absent: 229	60	30"	csLV34: F csLV34: R	5'GTTGGTTAAGACTGGTGATGG3' 5'TGCTTGCTATTGCTGAATAGT3'	Lagudah et al. (2006)
<i>Yr36</i>	WKS1: 871 WKS2: 537	70- 65*	60"	WKS_540F WKS_544R	5'GGCCACACTGCAATACTATACC3' 5'CACAAATCCTGGCTGTGGAC3'	Fu et al. (2009)
<i>Yr36</i>	WKS1: null WKS2: 452	64- 59*	30"	WKS2_628F WKS2_629R	5'ACGACATTGGAGGCGTTACTACGA3' 5'ACGAAGGACGCAATGCTGCTGA3'	Huang et al. (2016)
<i>Yr46</i>	KASP marker	65- 57^	60"	TM4	<sup>A</sup> Allele 1 (5'GAAGGTGACCAAGTT CATGCT3') <sup>B</sup> Allele 2 (5'GAAGGTCGGAGTCAACGGATT3')	Moore et al. (2015)

Touchdown PCRs cycles annealing temperature decreasing by \*(0.5 °C) and ^ (0.8°C) per cycle; <sup>A</sup>Primer labelled with FAM; <sup>B</sup>Primer labelled with HEX

**Appendix VIII: Details of parents of doubled haploid populations developed at PBI**

<b>DH Population ID</b>	<b>Resistant parent</b>	<b>Source</b>	<b>Susceptible parent</b>
K1	AUS30521	Australian Grains Genebank	Avocet S
K2	AUS34169	Australian Grains Genebank	Avocet S
K3	AUS34198	Australian Grains Genebank	Avocet S
K4	Braewood	AUSVAR	Avocet S
K5	Carinya	AUSVAR	Avocet S
K6	EGA Stampede	AUSVAR	Avocet S
K7	Giles	AUSVAR	Avocet S
K8	Monad	AUSVAR	Avocet S
K9	Danphe	ISR1020.121	Avocet S
K10	Kenya Kudu	ISR1020.108	Avocet S
K11	Kingbird	ISR1043.15	Avocet S
K12	Munal#1	ISR1020.125	Avocet S

AUSVAR (Australian Wheat Cultivars), ISR (Imported Seed Reference)

**Appendix IX: Details of 12 doubled haploid populations (1788 Lines) developed at PBI**

DH Line#	DH Population ID	Source
1	K1_DH1	GH/GEF Harvest 2020-21
2	K1_DH2	GH/GEF Harvest 2020-21
3	K1_DH3	GH/GEF Harvest 2020-21
4	K1_DH5	GH/GEF Harvest 2020-21
5	K1_DH6	GH/GEF Harvest 2020-21
6	K1_DH7	GH/GEF Harvest 2020-21
7	K1_DH8	GH/GEF Harvest 2020-21
8	K1_DH9	GH/GEF Harvest 2020-21
9	K1_DH10	GH/GEF Harvest 2020-21
10	K1_DH11	GH/GEF Harvest 2020-21
11	K1_DH12	GH/GEF Harvest 2020-21
12	K1_DH13	GH/GEF Harvest 2020-21
13	K1_DH14	GH/GEF Harvest 2020-21
14	K1_DH15	GH/GEF Harvest 2020-21
15	K1_DH16	GH/GEF Harvest 2020-21
16	K1_DH17	GH/GEF Harvest 2020-21
17	K1_DH18	GH/GEF Harvest 2020-21
18	K1_DH19	GH/GEF Harvest 2020-21
19	K1_DH20	GH/GEF Harvest 2020-21
20	K1_DH22	GH/GEF Harvest 2020-21
21	K1_DH23	GH/GEF Harvest 2020-21
22	K1_DH24	GH/GEF Harvest 2020-21
23	K1_DH26	GH/GEF Harvest 2020-21
24	K1_DH27	GH/GEF Harvest 2020-21
25	K1_DH28	GH/GEF Harvest 2020-21
26	K1_DH29	GH/GEF Harvest 2020-21
27	K1_DH30	GH/GEF Harvest 2020-21
28	K1_DH31	GH/GEF Harvest 2020-21
29	K1_DH32	GH/GEF Harvest 2020-21
30	K1_DH33	GH/GEF Harvest 2020-21
31	K1_DH34	GH/GEF Harvest 2020-21
32	K1_DH35	GH/GEF Harvest 2020-21
33	K1_DH36	GH/GEF Harvest 2020-21
34	K1_DH37	GH/GEF Harvest 2020-21
35	K1_DH38	GH/GEF Harvest 2020-21
36	K1_DH39	GH/GEF Harvest 2020-21
37	K1_DH40	GH/GEF Harvest 2020-21
38	K1_DH41	GH/GEF Harvest 2020-21
39	K1_DH42	GH/GEF Harvest 2020-21
40	K1_DH43	GH/GEF Harvest 2020-21
41	K1_DH44	GH/GEF Harvest 2020-21
42	K1_DH45	GH/GEF Harvest 2020-21
43	K1_DH46	GH/GEF Harvest 2020-21
44	K1_DH47	GH/GEF Harvest 2020-21
45	K1_DH48	GH/GEF Harvest 2020-21
46	K1_DH49	GH/GEF Harvest 2020-21
47	K1_DH50	GH/GEF Harvest 2020-21
48	K1_DH51	GH/GEF Harvest 2020-21
49	K1_DH52	GH/GEF Harvest 2020-21
50	K1_DH53	GH/GEF Harvest 2020-21
51	K1_DH54	GH/GEF Harvest 2020-21
52	K1_DH55	GH/GEF Harvest 2020-21
53	K1_DH56	GH/GEF Harvest 2020-22
54	K1_DH57	GH/GEF Harvest 2020-23
55	K1_DH58	GH/GEF Harvest 2020-24
56	K1_DH59	GH/GEF Harvest 2020-25
57	K1_DH60	GH/GEF Harvest 2020-26
58	K1_DH61	GH/GEF Harvest 2020-27
59	K1_DH62	GH/GEF Harvest 2020-28
60	K1_DH63	GH/GEF Harvest 2020-29
61	K1_DH64	GH/GEF Harvest 2020-30
62	K1_DH65	GH/GEF Harvest 2020-31
63	K1_DH66	GH/GEF Harvest 2020-32
64	K1_DH68	GH/GEF Harvest 2020-34
65	K1_DH69	GH/GEF Harvest 2020-35
66	K1_DH70	GH/GEF Harvest 2020-36
67	K1_DH72	GH/GEF Harvest 2020-38
68	K1_DH73	GH/GEF Harvest 2020-39
69	K1_DH74	GH/GEF Harvest 2020-40
70	K1_DH75	GH/GEF Harvest 2020-41
71	K1_DH76	GH/GEF Harvest 2020-42
72	K1_DH77	GH/GEF Harvest 2020-43
73	K1_DH78	GH/GEF Harvest 2020-44
74	K1_DH79	GH/GEF Harvest 2020-45
75	K1_DH81	GH/GEF Harvest 2020-47
76	K1_DH83	GH/GEF Harvest 2020-48
77	K1_DH84	GH/GEF Harvest 2020-49
78	K1_DH85	GH/GEF Harvest 2020-50

79	K1_DH86	GH/GEF Harvest 2020-51
80	K2_DH1	GH/GEF Harvest 2020-21
81	K2_DH2	GH/GEF Harvest 2020-21
82	K2_DH3	GH/GEF Harvest 2020-21
83	K2_DH4	GH/GEF Harvest 2020-21
84	K2_DH5	GH/GEF Harvest 2020-21
85	K2_DH6	GH/GEF Harvest 2020-21
86	K2_DH7	GH/GEF Harvest 2020-21
87	K2_DH8	GH/GEF Harvest 2020-21
88	K2_DH9	GH/GEF Harvest 2020-21
89	K2_DH10	GH/GEF Harvest 2020-21
90	K2_DH11	GH/GEF Harvest 2020-21
91	K2_DH12	GH/GEF Harvest 2020-21
92	K2_DH13	GH/GEF Harvest 2020-21
93	K2_DH14	GH/GEF Harvest 2020-21
94	K2_DH15	GH/GEF Harvest 2020-21
95	K2_DH16	GH/GEF Harvest 2020-21
96	K2_DH17	GH/GEF Harvest 2020-21
97	K2_DH18	GH/GEF Harvest 2020-21
98	K2_DH19	GH/GEF Harvest 2020-21
99	K2_DH20	GH/GEF Harvest 2020-21
100	K2_DH22	GH/GEF Harvest 2020-21
101	K2_DH23	GH/GEF Harvest 2020-21
102	K2_DH24	GH/GEF Harvest 2020-21
103	K2_DH26	GH/GEF Harvest 2020-21
104	K2_DH27	GH/GEF Harvest 2020-21
105	K2_DH28	GH/GEF Harvest 2020-21
106	K2_DH29	GH/GEF Harvest 2020-21
107	K2_DH30	GH/GEF Harvest 2020-21
108	K2_DH31	GH/GEF Harvest 2020-21
109	K2_DH32	GH/GEF Harvest 2020-21
110	K2_DH33	GH/GEF Harvest 2020-21
111	K2_DH34	GH/GEF Harvest 2020-21
112	K2_DH35	GH/GEF Harvest 2020-21
113	K2_DH36	GH/GEF Harvest 2020-21
114	K2_DH37	GH/GEF Harvest 2020-21
115	K2_DH38	GH/GEF Harvest 2020-21
116	K2_DH39	GH/GEF Harvest 2020-21
117	K2_DH40	GH/GEF Harvest 2020-21
118	K2_DH41	GH/GEF Harvest 2020-21
119	K2_DH42	GH/GEF Harvest 2020-21
120	K2_DH43	GH/GEF Harvest 2020-21
121	K2_DH44	GH/GEF Harvest 2020-21
122	K2_DH45	GH/GEF Harvest 2020-21
123	K2_DH46	GH/GEF Harvest 2020-21
124	K2_DH47	GH/GEF Harvest 2020-21
125	K2_DH48	GH/GEF Harvest 2020-21
126	K2_DH49	GH/GEF Harvest 2020-21
127	K2_DH50	GH/GEF Harvest 2020-21
128	K2_DH51	GH/GEF Harvest 2020-21
129	K2_DH52	GH/GEF Harvest 2020-21
130	K2_DH53	GH/GEF Harvest 2020-21
131	K2_DH54	GH/GEF Harvest 2020-21
132	K2_DH55	GH/GEF Harvest 2020-21
133	K2_DH56	GH/GEF Harvest 2020-21
134	K2_DH57	GH/GEF Harvest 2020-21
135	K2_DH58	GH/GEF Harvest 2020-21
136	K2_DH60	GH/GEF Harvest 2020-21
137	K2_DH61	GH/GEF Harvest 2020-21
138	K2_DH62	GH/GEF Harvest 2020-21
139	K2_DH63	GH/GEF Harvest 2020-21
140	K2_DH64	GH/GEF Harvest 2020-21
141	K2_DH65	GH/GEF Harvest 2020-21
142	K2_DH66	GH/GEF Harvest 2020-21
143	K2_DH67	GH/GEF Harvest 2020-21
144	K2_DH68	GH/GEF Harvest 2020-21
145	K2_DH70	GH/GEF Harvest 2020-21
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155	K2_DH81	GH/GEF Harvest 2020-21
156	K2_DH82	GH/GEF Harvest 2020-21
157	K2_DH83	GH/GEF Harvest 2020-21
158	K2_DH84	GH/GEF Harvest 2020-21

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161	K2_DH87	GH/GEF Harvest 2020-21
162	K2_DH88	GH/GEF Harvest 2020-21
163	K2_DH89	GH/GEF Harvest 2020-21
164	K2_DH90	GH/GEF Harvest 2020-21
165	K2_DH91	GH/GEF Harvest 2020-21
166	K2_DH92	GH/GEF Harvest 2020-21
167	K2_DH93	GH/GEF Harvest 2020-21
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169	K2_DH95	GH/GEF Harvest 2020-21
170	K2_DH96	GH/GEF Harvest 2020-21
171	K2_DH97	GH/GEF Harvest 2020-21
172	K2_DH98	GH/GEF Harvest 2020-21
173	K2_DH99	GH/GEF Harvest 2020-21
174	K2_DH100	GH/GEF Harvest 2020-21
175	K2_DH101	GH/GEF Harvest 2020-21
176	K2_DH102	GH/GEF Harvest 2020-21
177	K2_DH103	GH/GEF Harvest 2020-21
178	K2_DH104	GH/GEF Harvest 2020-21
179	K2_DH105	GH/GEF Harvest 2020-21
180	K2_DH106	GH/GEF Harvest 2020-21
181	K2_DH107	GH/GEF Harvest 2020-21
182	K2_DH108	GH/GEF Harvest 2020-21
183	K2_DH109	GH/GEF Harvest 2020-21
184	K2_DH111	GH/GEF Harvest 2020-21
185	K2_DH112	GH/GEF Harvest 2020-21
186	K2_DH113	GH/GEF Harvest 2020-21
187	K2_DH114	GH/GEF Harvest 2020-21
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190	K2_DH118	GH/GEF Harvest 2020-21
191	K2_DH119	GH/GEF Harvest 2020-21
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196	K2_DH126	GH/GEF Harvest 2020-21
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198	K2_DH128	GH/GEF Harvest 2020-21
199	K2_DH130	GH/GEF Harvest 2020-21
200	K2_DH131	GH/GEF Harvest 2020-21
201	K2_DH132	GH/GEF Harvest 2020-21
202	K2_DH133	GH/GEF Harvest 2020-21
203	K2_DH135	GH/GEF Harvest 2020-21
204	K2_DH136	GH/GEF Harvest 2020-21
205	K2_DH137	GH/GEF Harvest 2020-21
206	K2_DH138	GH/GEF Harvest 2020-21
207	K2_DH139	GH/GEF Harvest 2020-21
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209	K3_DH2	GH/GEF Harvest 2020-21
210	K3_DH3	GH/GEF Harvest 2020-21
211	K3_DH4	GH/GEF Harvest 2020-21
212	K3_DH5	GH/GEF Harvest 2020-21
213	K3_DH6	GH/GEF Harvest 2020-21
214	K3_DH9	GH/GEF Harvest 2020-21
215	K3_DH10	GH/GEF Harvest 2020-21
216	K3_DH11	GH/GEF Harvest 2020-21
217	K3_DH12	GH/GEF Harvest 2020-21
218	K3_DH13	GH/GEF Harvest 2020-21
219	K3_DH14	GH/GEF Harvest 2020-21
220	K3_DH15	GH/GEF Harvest 2020-21
221	K3_DH16	GH/GEF Harvest 2020-21
222	K3_DH17	GH/GEF Harvest 2020-21
223	K3_DH18	GH/GEF Harvest 2020-21
224	K3_DH19	GH/GEF Harvest 2020-21
225	K3_DH20	GH/GEF Harvest 2020-21
226	K3_DH21	GH/GEF Harvest 2020-21
227	K3_DH22	GH/GEF Harvest 2020-21
228	K3_DH23	GH/GEF Harvest 2020-21
229	K3_DH24	GH/GEF Harvest 2020-21
230	K3_DH25	GH/GEF Harvest 2020-21
231	K3_DH27	GH/GEF Harvest 2020-21
232	K3_DH28	GH/GEF Harvest 2020-21
233	K3_DH29	GH/GEF Harvest 2020-21
234	K3_DH30	GH/GEF Harvest 2020-21
235	K3_DH31	GH/GEF Harvest 2020-21
236	K3_DH32	GH/GEF Harvest 2020-21
237	K3_DH33	GH/GEF Harvest 2020-21
238	K3_DH34	GH/GEF Harvest 2020-21

239	K3_DH35	GH/GEF Harvest 2020-21
240	K3_DH36	GH/GEF Harvest 2020-21
241	K3_DH37	GH/GEF Harvest 2020-21
242	K3_DH38	GH/GEF Harvest 2020-21
243	K3_DH39	GH/GEF Harvest 2020-21
244	K3_DH40	GH/GEF Harvest 2020-21
245	K3_DH41	GH/GEF Harvest 2020-21
246	K3_DH42	GH/GEF Harvest 2020-21
247	K3_DH43	GH/GEF Harvest 2020-21
248	K3_DH44	GH/GEF Harvest 2020-21
249	K3_DH45	GH/GEF Harvest 2020-21
250	K3_DH46	GH/GEF Harvest 2020-21
251	K3_DH47	GH/GEF Harvest 2020-21
252	K3_DH48	GH/GEF Harvest 2020-21
253	K3_DH49	GH/GEF Harvest 2020-21
254	K3_DH50	GH/GEF Harvest 2020-21
255	K3_DH51	GH/GEF Harvest 2020-21
256	K3_DH52	GH/GEF Harvest 2020-21
257	K3_DH53	GH/GEF Harvest 2020-21
258	K3_DH54	GH/GEF Harvest 2020-21
259	K3_DH55	GH/GEF Harvest 2020-21
260	K3_DH56	GH/GEF Harvest 2020-21
261	K3_DH57	GH/GEF Harvest 2020-21
262	K3_DH59	GH/GEF Harvest 2020-21
263	K3_DH60	GH/GEF Harvest 2020-21
264	K3_DH61	GH/GEF Harvest 2020-21
265	K3_DH62	GH/GEF Harvest 2020-21
266	K3_DH63	GH/GEF Harvest 2020-21
267	K3_DH64	GH/GEF Harvest 2020-21
268	K3_DH65	GH/GEF Harvest 2020-21
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1601	K12_DH94	GH/GEF Harvest 2020-21
1602	K12_DH95	GH/GEF Harvest 2020-21
1603	K12_DH96	GH/GEF Harvest 2020-21
1604	K12_DH97	GH/GEF Harvest 2020-21
1605	K12_DH98	GH/GEF Harvest 2020-21
1606	K12_DH99	GH/GEF Harvest 2020-21
1607	K12_DH100	GH/GEF Harvest 2020-21
1608	K12_DH101	GH/GEF Harvest 2020-21
1609	K12_DH102	GH/GEF Harvest 2020-21
1610	K12_DH103	GH/GEF Harvest 2020-21
1611	K12_DH104	GH/GEF Harvest 2020-21
1612	K12_DH105	GH/GEF Harvest 2020-21
1613	K12_DH106	GH/GEF Harvest 2020-21
1614	K12_DH107	GH/GEF Harvest 2020-21
1615	K12_DH108	GH/GEF Harvest 2020-21
1616	K12_DH109	GH/GEF Harvest 2020-21
1617	K12_DH110	GH/GEF Harvest 2020-21
1618	K12_DH111	GH/GEF Harvest 2020-21
1619	K12_DH112	GH/GEF Harvest 2020-21
1620	K12_DH113	GH/GEF Harvest 2020-21
1621	K12_DH114	GH/GEF Harvest 2020-21
1622	K12_DH115	GH/GEF Harvest 2020-21
1623	K12_DH116	GH/GEF Harvest 2020-21
1624	K12_DH117	GH/GEF Harvest 2020-21
1625	K12_DH118	GH/GEF Harvest 2020-21
1626	K12_DH119	GH/GEF Harvest 2020-21
1627	K12_DH120	GH/GEF Harvest 2020-21
1628	K12_DH121	GH/GEF Harvest 2020-21
1629	K12_DH122	GH/GEF Harvest 2020-21
1630	K12_DH123	GH/GEF Harvest 2020-21
1631	K12_DH124	GH/GEF Harvest 2020-21
1632	K12_DH125	GH/GEF Harvest 2020-21
1633	K12_DH126	GH/GEF Harvest 2020-21
1634	K12_DH127	GH/GEF Harvest 2020-21
1635	K12_DH128	GH/GEF Harvest 2020-21
1636	K12_DH129	GH/GEF Harvest 2020-21
1637	K12_DH131	GH/GEF Harvest 2020-21
1638	K12_DH132	GH/GEF Harvest 2020-21
1639	K12_DH133	GH/GEF Harvest 2020-21
1640	K12_DH134	GH/GEF Harvest 2020-21
1641	K12_DH135	GH/GEF Harvest 2020-21
1642	K12_DH136	GH/GEF Harvest 2020-21
1643	K12_DH137	GH/GEF Harvest 2020-21
1644	K12_DH138	GH/GEF Harvest 2020-21
1645	K12_DH139	GH/GEF Harvest 2020-21
1646	K12_DH140	GH/GEF Harvest 2020-21
1647	K12_DH141	GH/GEF Harvest 2020-21
1648	K12_DH142	GH/GEF Harvest 2020-21
1649	K12_DH143	GH/GEF Harvest 2020-21
1650	K12_DH144	GH/GEF Harvest 2020-21
1651	K12_DH145	GH/GEF Harvest 2020-21
1652	K12_DH146	GH/GEF Harvest 2020-21
1653	K12_DH147	GH/GEF Harvest 2020-21
1654	K12_DH148	GH/GEF Harvest 2020-21
1655	K12_DH149	GH/GEF Harvest 2020-21
1656	K12_DH150	GH/GEF Harvest 2020-21
1657	K12_DH151	GH/GEF Harvest 2020-21
1658	K12_DH152	GH/GEF Harvest 2020-21
1659	K12_DH153	GH/GEF Harvest 2020-21
1660	K12_DH154	GH/GEF Harvest 2020-21
1661	K12_DH155	GH/GEF Harvest 2020-21
1662	K12_DH156	GH/GEF Harvest 2020-21
1663	K12_DH158	GH/GEF Harvest 2020-21
1664	K12_DH159	GH/GEF Harvest 2020-21
1665	K12_DH160	GH/GEF Harvest 2020-21
1666	K12_DH161	GH/GEF Harvest 2020-21
1667	K12_DH162	GH/GEF Harvest 2020-21
1668	K12_DH163	GH/GEF Harvest 2020-21
1669	K12_DH164	GH/GEF Harvest 2020-21
1670	K12_DH165	GH/GEF Harvest 2020-21
1671	K12_DH167	GH/GEF Harvest 2020-21
1672	K12_DH168	GH/GEF Harvest 2020-21
1673	K12_DH169	GH/GEF Harvest 2020-21
1674	K12_DH170	GH/GEF Harvest 2020-21
1675	K12_DH171	GH/GEF Harvest 2020-21
1676	K12_DH172	GH/GEF Harvest 2020-21
1677	K12_DH173	GH/GEF Harvest 2020-21
1678	K12_DH174	GH/GEF Harvest 2020-21

1679	K12_DH175	GH/GEF Harvest 2020-21
1680	K12_DH176	GH/GEF Harvest 2020-21
1681	K12_DH177	GH/GEF Harvest 2020-21
1682	K12_DH178	GH/GEF Harvest 2020-21
1683	K12_DH179	GH/GEF Harvest 2020-21
1684	K12_DH180	GH/GEF Harvest 2020-21
1685	K12_DH181	GH/GEF Harvest 2020-21
1686	K12_DH182	GH/GEF Harvest 2020-21
1687	K12_DH183	GH/GEF Harvest 2020-21
1688	K12_DH184	GH/GEF Harvest 2020-21
1689	K12_DH185	GH/GEF Harvest 2020-21
1690	K12_DH186	GH/GEF Harvest 2020-21
1691	K12_DH187	GH/GEF Harvest 2020-21
1692	K12_DH188	GH/GEF Harvest 2020-21
1693	K12_DH189	GH/GEF Harvest 2020-21
1694	K12_DH190	GH/GEF Harvest 2020-21
1695	K12_DH191	GH/GEF Harvest 2020-21
1696	K12_DH192	GH/GEF Harvest 2020-21
1697	K12_DH193	GH/GEF Harvest 2020-21
1698	K12_DH194	GH/GEF Harvest 2020-21
1699	K12_DH196	GH/GEF Harvest 2020-21
1700	K12_DH197	GH/GEF Harvest 2020-21
1701	K12_DH198	GH/GEF Harvest 2020-21
1702	K12_DH199	GH/GEF Harvest 2020-21
1703	K12_DH200	GH/GEF Harvest 2020-21
1704	K12_DH201	GH/GEF Harvest 2020-21
1705	K12_DH202	GH/GEF Harvest 2020-21
1706	K12_DH203	GH/GEF Harvest 2020-21
1707	K12_DH204	GH/GEF Harvest 2020-21
1708	K12_DH205	GH/GEF Harvest 2020-21
1709	K12_DH206	GH/GEF Harvest 2020-21
1710	K12_DH207	GH/GEF Harvest 2020-21
1711	K12_DH208	GH/GEF Harvest 2020-21
1712	K12_DH209	GH/GEF Harvest 2020-21
1713	K12_DH211	GH/GEF Harvest 2020-21
1714	K12_DH212	GH/GEF Harvest 2020-21
1715	K12_DH213	GH/GEF Harvest 2020-21
1716	K12_DH214	GH/GEF Harvest 2020-21
1717	K12_DH215	GH/GEF Harvest 2020-21
1718	K12_DH217	GH/GEF Harvest 2020-21
1719	K12_DH218	GH/GEF Harvest 2020-21
1720	K12_DH219	GH/GEF Harvest 2020-21
1721	K12_DH220	GH/GEF Harvest 2020-21
1722	K12_DH221	GH/GEF Harvest 2020-21
1723	K12_DH222	GH/GEF Harvest 2020-21
1724	K12_DH223	GH/GEF Harvest 2020-21
1725	K12_DH224	GH/GEF Harvest 2020-21
1726	K12_DH226	GH/GEF Harvest 2020-21
1727	K12_DH227	GH/GEF Harvest 2020-21
1728	K12_DH228	GH/GEF Harvest 2020-21
1729	K12_DH229	GH/GEF Harvest 2020-21
1730	K12_DH230	GH/GEF Harvest 2020-21
1731	K12_DH233	GH/GEF Harvest 2020-21
1732	K12_DH234	GH/GEF Harvest 2020-21
1733	K12_DH237	GH/GEF Harvest 2020-21
1734	K12_DH238	GH/GEF Harvest 2020-21
1735	K12_DH239	GH/GEF Harvest 2020-21
1736	K12_DH240	GH/GEF Harvest 2020-21
1737	K12_DH241	GH/GEF Harvest 2020-21
1738	K12_DH242	GH/GEF Harvest 2020-21
1739	K12_DH243	GH/GEF Harvest 2020-21
1740	K12_DH244	GH/GEF Harvest 2020-21
1741	K12_DH245	GH/GEF Harvest 2020-21
1742	K12_DH246	GH/GEF Harvest 2020-21
1743	K2_DH21	Extra from GH/GEF
1744	K2_DH25	Extra from GH/GEF
1745	K2_DH110	Extra from GH/GEF
1746	K2_DH117	Extra from GH/GEF
1747	K2_DH129	Extra from GH/GEF
1748	K2_DH134	Extra from GH/GEF
1749	K4_DH35	Extra from GH/GEF
1750	K4_DH36	Extra from GH/GEF
1751	K4_DH37	Extra from GH/GEF
1752	K4_DH38	Extra from GH/GEF
1753	K4_DH39	Extra from GH/GEF
1754	K4_DH40	Extra from GH/GEF
1755	K4_DH44	Extra from GH/GEF
1756	K4_DH45	Extra from GH/GEF
1757	K4_DH46	Extra from GH/GEF
1758	K4_DH48	Extra from GH/GEF



1759	K5_DH80	Extra from GH/GEF
1760	K5_DH85	Extra from GH/GEF
1761	K5_DH89	Extra from GH/GEF
1762	K5_DH99	Extra from GH/GEF
1763	K5_DH100	Extra from GH/GEF
1764	K5_DH101	Extra from GH/GEF
1765	K5_DH102	Extra from GH/GEF
1766	K5_DH104	Extra from GH/GEF
1767	K5_DH105	Extra from GH/GEF
1768	K5_DH107	Extra from GH/GEF
1769	K5_DH108	Extra from GH/GEF
1770	K5_DH109	Extra from GH/GEF
1771	K5_DH110	Extra from GH/GEF
1772	K5_DH111	Extra from GH/GEF
1773	K5_DH112	Extra from GH/GEF
1774	K5_DH113	Extra from GH/GEF
1775	K5_DH114	Extra from GH/GEF
1776	K5_DH115	Extra from GH/GEF
1777	K5_DH116	Extra from GH/GEF
1778	K5_DH117	Extra from GH/GEF
1779	K5_DH119	Extra from GH/GEF
1780	K5_DH120	Extra from GH/GEF
1781	K5_DH123	Extra from GH/GEF
1782	K5_DH127	Extra from GH/GEF
1783	K5_DH129	Extra from GH/GEF
1784	K5_DH132	Extra from GH/GEF
1785	K5_DH135	Extra from GH/GEF
1786	K5_DH137	Extra from GH/GEF
1787	K5_DH144	Extra from GH/GEF
1788	K5_DH146	Extra from GH/GEF

**Appendix X:** Out of 250 total 147 Core Set lines characterised with triple rust resistance in Australia

Core Set #	Gene(s)/Varieties	WYR 2018	WYR 2019	WYR 2020	WYR 2021	WLR 2018	WLR 2019	WLR 2020	WSR 2018	WSR 2020
Core Set 2	Batavia	1	1	2	2	2	3	2	2	2
Core Set 4	Bolac	1	1	2	2	2	3	2	2	3
Core Set 5	Both	1	1	4	2	2	2	2	2	2
Core Set 8	Carinya	1	1	2	2	3	2	2	2	2
Core Set 9	Correll	1	1	2	2	5	6	2	2	2
Core Set 12	EGA Burke	1	1	2	2	3	3	2	2	3
Core Set 13	EGA Gregory	1	1	2	2	2	3	2	2	2
Core Set 14	EGA Stampede	1	1	2	2	5	2	2	2	3
Core Set 15	EGA Wills	1	1	2	2	5	3	2	2	2
Core Set 16	EGA Wedgetail	1	1	2	2	6	5	1	2	2
Core Set 17	Fang	1	1	2	2	5	2	1	2	2
Core Set 18	GBA Hunter	1	1	2	2	3	3	1	2	2
Core Set 19	Giles	1	1	2	1	3	2	1	2	2
Core Set 20	Hyperno	1	1	2	2	5	3	2	2	2
Core Set 21	Kennedy	2	1	2	4	3	3	2	2	2
Core Set 22	Lang	2	1	2	2	3	2	2	2	2
Core Set 23	Livingston	2	1	2	2	3	2	1	2	2
Core Set 25	Longreach Gauntlet	1	1	2	1	3	2	1	2	2
Core Set 27	Magenta	4	1	2	2	3		2	2	2
Core Set 28	Monad	1	1	1	2	5	5	1	4	2
Core Set 30	Naparoo	1	1	1	1	3	2	2	2	3
Core Set 31	Quarrion	1	1	1	2	5	3	1	2	2
Core Set 33	Sentinel	1	1	2	2	2	2	1	2	2
Core Set 34	Shield	1	1	1	2	2	2	1	2	2
Core Set 38	Sunguard	1	1	1	2	2	2	1	2	2
Core Set 39	Sunland	1	1	2	2	5	2	1	2	2
Core Set 40	Sunlin	1	1	1	2	5	3	1	2	2
Core Set 41	Suntop	1	1	1	2	3	2	1	2	2
Core Set 42	Sunvale	1	1	1	2	5	2	1	2	2
Core Set 43	Sunzell	1	1	2	2	5	2	1	2	2
Core Set 44	Trojan	2	1	3	3	3	3	1	2	2
Core Set 45	Ventura	1	1	3	2	6	5	2	2	2
Core Set 48	Wylah	2	1	2	2	5	5	1	3	2
Core Set 49	Yanac	1	1	1	2	6	3	2	2	2
Core Set 54	Danphe	1	1	1	1	3	2	2	2	2
Core Set 55	Dashen	1	1	3	3	3	2	3	2	2
Core Set 56	Digalu or HAR3116	1	1	2	1	3	2	1	2	2
Core Set 57	Dodota	1	1	1	1	5	2	2	2	2
Core Set 59	ET13-A2	1	1	2	1	6	2	1	2	2
Core Set 60	ETBW5231	1	1	3	2	2	2	1	2	2

Core Set 61	FH11-6-24	1	1	1	2	3	2	1	2	2
Core Set 68	HAR1911	2	1	5	4	3		2	2	2
Core Set 69	HAR2505	1	1	1	2	5	2	2	2	2
Core Set 70	HAR3354		1	2	1		2	3		2
Core Set 71	HAR3816	1	1	2	1	2	2	1		2
Core Set 72	HAR421	1	1	1	2	2	2	2	2	2
Core Set 73	HAR627	1	1	2	2	2	2	2	2	2
Core Set 74	HAR720	1	1	4	3	5	3	2	2	2
Core Set 76	HAR743	2	1	1	2	3	2	1	2	1
Core Set 78	HAR845	4	1	5	5	6		2	2	2
Core Set 82	K6295-4A	1	1	2	2	5	2	3	2	2
Core Set 83	KBG-01	1	1	6	3	5		2	2	2
Core Set 85	Kenya Leopard	1	1	2	2	3	2	3	2	2
Core Set 86	Kenyanagume	2	1	2	2	5	3	3	2	2
Core Set 87	Ketar or HAR1899	1	1	1	2	4	3	3	2	1
Core Set 88	Kingbird	1	1	1	2	2	5	2	2	2
Core Set 90	Mitike or HAR1709	1	1	2	2	3	2	3	2	2
Core Set 91	Munal#1	1	1	1	1	2	3	3	2	2
Core Set 93	Picaflor	1	1	2	2	3	2	2	2	2
Core Set 94	Quaiu#2	1	1	2	2	3	2	2	2	2
Core Set 95	Simba	3	1	6	5	3	3	2	2	2
Core Set 96	Trophy	1	1	1	2	5	2	2	2	2
Core Set 97	Tura	1	1	1	2	3	2	2	2	2
Core Set 98	Tusie or HAR1407	1	1	2	2	2	2	2	2	2
Core Set 99	Wabe or HAR710	3	1	3	2	3	2	2	2	2
Core Set 100	Watera or HAR1920	1	1	1	2	3	2	2	2	2
Core Set 109	DBW 14	1	1	1	2	2	2	2	3	2
Core Set 115	FLW 8	2	1	2	3	3	2	2	2	2
Core Set 120	HP 1731	2	1	3	2	2	3	2	2	2
Core Set 121	HP 1744	1	1	2	2	3	2	2	2	2
Core Set 122	HUW 468	1	1	5	2	3	3	2	2	2
Core Set 125	KALYAN 227B	3	1	4	2	3	3	2	5	2
Core Set 138	PBW 550	1	1	1	1	2	2	2	2	2
Core Set 139	PBW 581	1	1	1	2	2	2	2	2	2
Core Set 140	PBW 582	1	1	1	2	2	2	2	2	2
Core Set 141	PBW 593	5	2	4	2	2	3	2	2	2
Core Set 146	T4/C 306	1	1	4	3	3		2	3	2
Core Set 151	Achyut	2	1	3	3	3	2	2	3	2
Core Set 152	Aditya	1	1	2	1	2	2	6	2	2
Core Set 153	Annapurna-1	1	1	4	3	5	2	2	2	2
Core Set 154	Annapurna-2	1	1	2	2	3	2	2	2	2
Core Set 155	Annapurna-3	1	1	3	4	3		2	3	2
Core Set 156	Annapurna-4	1	1	2	2	5	2	2	3	2

Core Set 157	Banganga	1	1	4	3	3	2	2	2	2
Core Set 158	Bhrikuti	1	1	1	2	5	2	2	2	2
Core Set 160	BL 1135	4	1	4	4	5		2	2	2
Core Set 161	BL 1473	1	1	4	3	4	2	2	2	2
Core Set 162	BL 2473	2	1	2	2	6	2	3	2	2
Core Set 164	BL 2582	1	1	1	2	6	3	2	5	2
Core Set 165	BL 2800	1	1	3	2	4		2	3	2
Core Set 166	BL 2818	2	1	2	2	5	2	3	3	2
Core Set 167	BL 2999	4	1	3	2	3	2	2	2	2
Core Set 168	Chyakhura	1	1	3	2	2	2	2	2	1
Core Set 169	Danphe	1	1	1	1	3	2	1	2	1
Core Set 170	Dhaulagiri	1	1	2	1	5	2	2	5	2
Core Set 172	Gautam	1	1	3	2	2	2	2	2	1
Core Set 174	Kalyansona	4	1	5	3			3	3	2
Core Set 175	Kanti	6	1	3	5	3	3	5	2	2
Core Set 179	Munal	3	1	1	1	3	2	2	2	2
Core Set 180	Nepal 251	1	1	2	2	3	2	2	2	2
Core Set 183	NL 923	1	1	1	1	2	2	2	2	2
Core Set 184	NL 971	1	1	2	2	3	2	2	3	2
Core Set 185	NL 985	1	1	2	2	3	2	2	3	2
Core Set 186	Pasang Lhamu	2	1	1	2	5	2	2	2	2
Core Set 187	Pitic 62	6	1	5	2	5	2	2	3	2
Core Set 191	Sworgadwari	1	1	2	2	2	2	2	2	2
Core Set 192	Tilottama	1	1	2	2	2	2	2	2	2
Core Set 193	Triveni	4	1	3	4	3	2	2	2	2
Core Set 194	UP 262	2	1	3	4	3	2	2	3	2
Core Set 195	Vaskar	5	1	6	5	3	3	2	2	3
Core Set 197	Vinayak	1	1	2	2	5	2	2	3	2
Core Set 201	Auqab-2006 (instead of AARI-II)	1	1	2	2	3	2	2	2	2
Core Set 203	Auqab 2000	1	1	1	2	3	2	2	3	2
Core Set 204	Barani-83	2	1	5	5	3	2	2	2	2
Core Set 205	Bhittai	2	1	2	3	3	2	2	2	2
Core Set 207	Darwar Dry	5	1	3	3	3	2	2	2	2
Core Set 208	Fakhre Sarhad	1	1	1	2	3	2	2	2	2
Core Set 209	FSD-2008	1	1	1	2	5	2	2	2	2
Core Set 210	GA-2002	2	1	2	2	2	2	2	6	2
Core Set 215	Kohistan-97	2	1	1	3	3	2	2	4	2
Core Set 216	ALTAR84/AE.TAUSCHII//2*OPTA	1	1	2	2	3	2	2	2	2
Core Set 217	Manthar	1	1	3	2	2	2	2	2	2
Core Set 218	Margalla-99	1	1	2	2	5	2	3	2	2
Core Set 219	Marvi-2000	1	1	1	2	6	2	2	3	2
Core Set 220	Marwat-2001	1	1	2	2	3	2	2	4	2
Core Set 222	Moomal-2000	6	1	3	3		2	2	3	2

Core Set 223	Moomal-2002	6	1	4	3		2	2	3	3
Core Set 225	NR-339	1	1	2	2	3	2	2	2	2
Core Set 226	NR-340	1	1	1	2	2	2	2	2	1
Core Set 227	NR-345	1	1	2	3	3	3	2	2	1
Core Set 230	NR-348	1	1	1	2	3	2	2	2	2
Core Set 231	NR-349	1	1	2	2	2	2	2	4	2
Core Set 232	NR-350	1	1	2	2	3	2	3	3	2
Core Set 233	NR-351	4	1	3	2			2	3	2
Core Set 234	NR-353	1	1	2	1	6	2	2	4	2
Core Set 235	PARUS/PASTOR	1	1	1	2	4	2	2	2	2
Core Set 236	PASROR/BAV92	1	1	2	2	2	2	2	3	2
Core Set 237	Pir Sabak-2004	1	1	2	2	2	2	2	2	2
Core Set 238	Punjab-II	1	1	1	2	2	2	2	2	2
Core Set 239	Saleem-2000	1	1	2	2	3	2	2	2	2
Core Set 240	Seher 2006	1	1	3	4	5	2	2	2	2
Core Set 244	Tatara	1	1	1	2	5	3	2	2	2
Core Set 245	V-04188	1	1	1	2	4	2	2	3	2
Core Set 246	V-04189	1	1	2	2	4	2	2	3	2
Core Set 247	Wafaq-2001	1	1	2	2	4	2	2	2	2
Core Set 248	WEEBIL-1	2	1	3	2	3	2	2	2	2
Core Set 250	Zarlaashta	1	1	1	2	3	2	3	2	2

Field rust response recorded according to scale described by Sandhu *et. al* (2021)

**Appendix XI:** NAM recombinants (127) found susceptible against the Australian Pathotypes of *Puccinia striiformis* f. sp. *tritici* used at seedling growth stage and all remained resistant at adult plant growth stage in Australia, except few in Ethiopia, India, Nepal and Pakistan

NAM ID	PBI 2020	PBI 2021	Kulumsa 2020	Islamabad 2020	Islamabad 2021	Nowshera 2020	Nowshera 2021	Karnal 2020	Karnal 2021	Khumaltar 2020	Khumaltar 2021
NAM 9.32	3	3	7	7	2	6	3	4	4	7	7
NAM 9.41	3	2	7	5	3	6	4	5	4	1	4
NAM 20.21	1	2	5	5	5	8	4	4	3	5	5
NAM 22.9	1	2	5	8	6	7	5	5	3	6	5
NAM 22.23	1	2	5	6	5	6	4	4	4	2	5
NAM 24.1	3	3	6	8	4	8	5	4	3	7	3
NAM 24.7	3	3	5	8	4	9	5	5	2	7	5
NAM 24.8	2	2	5	6	2	6	5	5	2	8	3
NAM 24.9	2	2	5	5	1	4	1	-	3	2	3
NAM 24.20	2	2	7	5	6	5	5	5	6	9	5
NAM 24.22	2	2	2	6	6	5	5	5	4	7	5
NAM 24.23	2	2	5	5	3	5	5	4	4	9	5
NAM 24.25	3	4	7	5	5	5	6	4	6	8	5
NAM 24.26	3	3	9	8	5	9	5	4	3	6	4
NAM 24.27	1	2	9	7	5	7	2	4	2	1	5
NAM 24.33	2	2	8	3	3	3	4	4	2	9	3
NAM 24.34	2	3	6	8	5	9	5	4	4	8	5
NAM 24.35	2	3	6	8	4	9	4	5	3	7	3
NAM 24.36	2	2	8	6	6	6	6	4	4	7	4
NAM 24.37	3	3	7	5	7	5	7	4	5	9	4
NAM 24.41	3	4	8	6	6	6	6	5	2	9	5
NAM 24.42	2	3	8	7	4	6	5	5	2	8	5
NAM 25.1	2	2	6	2	2	2	6	5	2	1	5
NAM 25.2	3	2	6	5	4	5	3	5	3	5	5
NAM 25.3	3	2	6	5	4	5	3	-	4	5	3
NAM 25.4	3	4	9	5	4	5	3	5	5	7	5
NAM 25.6	3	2	5	5	5	4	4	5	4	7	5
NAM 25.8	2	2	6	5	4	7	3	4	5	5	-
NAM 25.9	3	3	7	5	4	5	4	5	3	6	5
NAM 25.10	3	3	7	5	4	7	4	5	3	7	5
NAM 25.12	2	3	8	4	2	6	1	4	3	2	3
NAM 25.13	2	2	7	4	4	5	4	4	3	6	5
NAM 25.14	3	2	8	5	4	7	5	5	3	6	7
NAM 25.15	2	4	6	6	5	3	4	4	4	1	5
NAM 25.16	2	2	9	4	3	2	2	5	3	5	5
NAM 25.17	2	3	8	5	4	7	4	5	4	5	5
NAM 25.18	2	2	5	-	-	6	-	5	3	2	3
NAM 25.19	2	2	5	5	5	7	4	5	2	5	3

NAM 25.20	2	2	6	6	4	7	3	4	3	6	3
NAM 25.21	3	2	5	6	5	2	4	4	3	7	5
NAM 25.23	3	2	5	6	5	7	5	4	3	7	3
NAM 25.25	2	2	2	4	5	4	3	3	2	5	3
NAM 25.26	3	3	2	3	2	6	2	4	4	6	4
NAM 25.29	2	5	5	4	3	4	3	4	3	5	5
NAM 25.30	2	2	5	6	5	6	1	3	3	5	4
NAM 25.31	2	2	5	4	4	7	4	3	3	1	4
NAM 25.33	1	2	6	6	6	7	4	4	2	7	5
NAM 25.36	2	2	6	4	3	9	2	4	2	6	3
NAM 25.39	3	3	7	5	4	5	5	5	5	7	5
NAM 25.41	3	3	6	6	5	8	5	5	3	5	3
NAM 25.42	3	2	6	6	5	8	5	4	3	6	3
NAM 25.43	2	2	7	6	5	7	5	5	3	7	3
NAM 25.44	3	3	2	-	-	6	4	5	3	9	5
NAM 25.49	1	2	5	5	3	7	3	4	2	2	5
NAM 25.50	2	3	5	5	5	5	5	4	2	5	3
NAM 25.55	3	4	5	5	3	6	3	5	4	6	3
NAM 25.56	3	3	5	5	5	6	5	5	3	5	5
NAM 25.58	3	3	5	3	5	7	5	5	4	5	3
NAM 25.59	3	3	5	4	1	6	1	5	3	5	4
NAM 25.61	3	3	5	6	5	7	5	5	4	5	3
NAM 25.66	3	2	7	5	-	4	-	4	2	5	3
NAM 25.69	2	2	5	6	5	6	5	4	3	6	3
NAM 25.74	2	3	2	6	5	6	5	5	3	5	3
NAM 26.9	3	3	9	3	1	2	1	4	5	6	5
NAM 26.15	3	3	7	8	6	8	6	6	5	6	5
NAM 26.20	4	4	7	4	3	4	4	6	4	6	5
NAM 26.25	3	2	9	5	2	4	1	5	3	5	4
NAM 26.27	4	3	8	1	1	1	4	6	4	6	5
NAM 26.29	4	4	9	7	8	8	8	5	3	9	7
NAM 26.31	3	2	7	5	1	5	1	4	3	9	5
NAM 26.33	2	5	7	-	1	-	6	5	2	9	6
NAM 26.36	2	2	6	8	1	7	1	4	2	1	5
NAM 26.44	2	2	7	5	1	2	1	4	1	7	4
NAM 26.48	5	4	7	8	4	8	5	6	7	9	8
NAM 26.49	2	2	9	4	3	4	3	6	4	9	7
NAM 26.53	3	3	8	6	4	6	5	-	5	8	6
NAM 26.55	3	3	6	7	6	7	4	-	5	9	5
NAM 26.59	5	3	8	9	9	9	8	4	5	9	6
NAM 26.64	3	3	7	5	5	6	5	5	3	5	5
NAM 28.1	3	5	7	6	5	6	5	5	3	6	4
NAM 28.2	2	3	7	6	5	6	4	4	3	6	3

NAM 28.15	2	2	6	8	4	9	4	-	4	5	4
NAM 28.17	3	2	6	6	5	5	4	5	4	5	4
NAM 28.20	3	4	6	6	5	6	5	5	4	5	3
NAM 28.22	3	3	5	8	1	8	2	-	4	5	4
NAM 28.23	3	3	5	8	3	9	5	-	4	9	4
NAM 28.24	3	3	6	8	2	8	4	-	4	7	3
NAM 28.25	3	3	5	8	5	9	5	5	5	8	5
NAM 28.26	4	3	5	7	6	7	6	4	5	8	5
NAM 28.30	3	3	6	9	3	9	5	4	3	5	5
NAM 28.34	3	3	6	9	5	9	6	6	5	5	5
NAM 28.37	2	2	6	5	3	6	1	4	3	1	5
NAM 30.3	3	2	6	9	6	9	4	4	3	8	4
NAM 30.7	2	2	5	9	8	9	8	4	2	9	5
NAM 30.8	4	3	9	9	8	9	8	5	4	9	5
NAM 30.9	2	2	9	9	8	9	8	4	4	9	5
NAM 30.10	3	6	6	9	8	9	8	6	4	9	5
NAM 30.11	3	3	6	7	5	9	5	5	3	9	5
NAM 30.13	2	2	7	6	2	6	1	5	2	5	3
NAM 30.16	2	2	9	6	5	6	6	5	4	8	5
NAM 30.17	3	3	6	7	6	7	6	5	5	7	5
NAM 30.18	3	3	6	3	3	4	6	5	4	5	5
NAM 30.19	3	3	8	8	8	9	8	5	5	9	5
NAM 30.27	3	4	6	8	6	9	6	5	3	8	8
NAM 30.28	3	3	5	8	6	9	5	-	3	5	8
NAM 30.29	2	2	6	8	5	9	4	4	3	1	5
NAM 30.30	5	8	6	9	8	9	9	3	6	9	8
NAM 32.2	2	4	7	8	8	9	8	4	3	6	5
NAM 32.17	2	2	4	5	-	6	2	4	2	6	3
NAM 32.20	2	3	5	8	5	9	6	4	4	5	3
NAM 32.56	2	3	9	7	2	7	6	4	4	8	4
NAM 33.5	2	4	6	8	8	8	8	5	5	8	5
NAM 33.11	3	3	7	9	5	8	5	5	4	8	4
NAM 33.20	3	3	7	9	7	9	8	6	3	8	7
NAM 33.24	2	2	7	8	3	9	6	5	3	5	3
NAM 33.31	2	2	7	8	5	9	5	5	4	5	3
NAM 33.39	5	7	8	9	8	7	8	6	6	8	5
NAM 33.40	3	3	4	9	8	9	8	4	4	7	3
NAM 36.4	2	2	6	8	6	9	5	5	2	6	5
NAM 36.12	2	2	5	8	5	9	2	5	3	2	5
NAM 36.21	3	3	5	9	6	9	6	5	4	6	4
NAM 36.33	4	5	5	9	6	8	5	5	5	8	5
NAM 37.2	3	3	6	9	8	9	8	4	4	9	6
NAM 39.18	3	3	6	9	5	9	6	5	6	6	5



<b>NAM 40.21</b>	3	4	7	8	7	9	6	5	4	5	5
<b>NAM 40.28</b>	2	3	7	8	9	8	6	5	6	5	7
<b>NAM 40.55</b>	2	2	7	8	9	9	6	5	4	2	4

Field rust response recorded according to scale described by Sandhu *et. al* (2021), - means data not available.

**Appendix XII:** NAM recombinants (49) found susceptible against the Australian Pathotypes of *Puccinia striiformis* f. sp. *tritici* used at seedling growth stage and all remained resistant at adult plant growth stage across the environments of Australia, Ethiopia, India, Nepal and Pakistan

NAM ID	PBI 2020	PBI 2021	Kulumsa 2020	Islamabad 2020	Islamabad 2021	Nowshera 2020	Nowshera 2021	Karnal 2020	Karnal 2021	Khumaltar 2020	Khumaltar 2021
NAM 9.32	3	3	7	7	2	6	3	4	4	7	7
NAM 9.41	3	2	7	5	3	6	4	5	4	1	4
NAM 22.23	1	2	5	6	5	6	4	4	4	2	5
NAM 24.9	2	2	5	5	1	4	1	-	3	2	3
NAM 24.22	2	2	2	6	6	5	5	5	4	7	5
NAM 25.1	2	2	6	2	2	2	6	5	2	1	5
NAM 25.2	3	2	6	5	4	5	3	5	3	5	5
NAM 25.3	3	2	6	5	4	5	3		4	5	3
NAM 25.6	3	2	5	5	5	4	4	5	4	7	5
NAM 25.8	2	2	6	5	4	7	3	4	5	5	
NAM 25.9	3	3	7	5	4	5	4	5	3	6	5
NAM 25.10	3	3	7	5	4	7	4	5	3	7	5
NAM 25.13	2	2	7	4	4	5	4	4	3	6	5
NAM 25.15	2	4	6	6	5	3	4	4	4	1	5
NAM 25.18	2	2	5			6		5	3	2	3
NAM 25.19	2	2	5	5	5	7	4	5	2	5	3
NAM 25.20	2	2	6	6	4	7	3	4	3	6	3
NAM 25.21	3	2	5	6	5	2	4	4	3	7	5
NAM 25.23	3	2	5	6	5	7	5	4	3	7	3
NAM 25.25	2	2	2	4	5	4	3	3	2	5	3
NAM 25.26	3	3	2	3	2	6	2	4	4	6	4
NAM 25.29	2	5	5	4	3	4	3	4	3	5	5
NAM 25.30	2	2	5	6	5	6	1	3	3	5	4
NAM 25.31	2	2	5	4	4	7	4	3	3	1	4
NAM 25.33	1	2	6	6	6	7	4	4	2	7	5
NAM 25.39	3	3	7	5	4	5	5	5	5	7	5
NAM 25.43	2	2	7	6	5	7	5	5	3	7	3
NAM 25.49	1	2	5	5	3	7	3	4	2	2	5
NAM 25.50	2	3	5	5	5	5	5	4	2	5	3
NAM 25.55	3	4	5	5	3	6	3	5	4	6	3
NAM 25.56	3	3	5	5	5	6	5	5	3	5	5
NAM 25.58	3	3	5	3	5	7	5	5	4	5	3
NAM 25.59	3	3	5	4	1	6	1	5	3	5	4
NAM 25.61	3	3	5	6	5	7	5	5	4	5	3
NAM 25.66	3	2	7	5		4		4	2	5	3
NAM 25.69	2	2	5	6	5	6	5	4	3	6	3
NAM 25.74	2	3	2	6	5	6	5	5	3	5	3
NAM 26.20	4	4	7	4	3	4	4	6	4	6	5

NAM 26.44	2	2	7	5	1	2	1	4	1	7	4
NAM 26.64	3	3	7	5	5	6	5	5	3	5	5
NAM 28.1	3	5	7	6	5	6	5	5	3	6	4
NAM 28.2	2	3	7	6	5	6	4	4	3	6	3
NAM 28.17	3	2	6	6	5	5	4	5	4	5	4
NAM 28.20	3	4	6	6	5	6	5	5	4	5	3
NAM 28.37	2	2	6	5	3	6	1	4	3	1	5
NAM 30.13	2	2	7	6	2	6	1	5	2	5	3
NAM 30.17	3	3	6	7	6	7	6	5	5	7	5
NAM 30.18	3	3	6	3	3	4	6	5	4	5	5
NAM 32.17	2	2	4	5		6	2	4	2	6	3

Field rust response recorded according to scale described by Sandhu *et. al* (2021)

**Appendix XIII:** NAM recombinants (17) found resistant against all the Australian Pathotypes of *Puccinia striiformis* f. sp. *tritici* used at seedling stage and resistant at adult plant growth stage across the environments of Australia, Ethiopia, India, Nepal and Pakistan

NAM ID	PBI 2020	PBI 2021	Kulumsa 2020	Islamabad 2020	Islamabad 2021	Nowshera 2020	Nowshera 2021	Karnal 2020	Karnal 2021	Khumaltar 2020	Khumaltar 2021
NAM 3.22	1	2	5	6	5	6	4	-	3	1	3
NAM 3.47	2	2	7	4	4	7	4	5	3	7	3
NAM 11.7	1	2	7	4	1	4	1	-	2	1	3
NAM 14.21	1	2	7	1	1	1	1	-	2	2	3
NAM 14.33	1	2	7	1	1	1	1	4	1	1	4
NAM 14.42	1	1	7	1	1	5	1	-	1	1	3
NAM 14.43	1	2	5	1	1	1	1	-	1	1	3
NAM 14.48	2	2	7	3	2	3	1	5	2	1	3
NAM 14.52	1	2	7	1	4	1	5	5	2	1	5
NAM 14.60	1	2	6	1	1	1	-	3	2	1	0
NAM 15.6	2	3	7	6	2	7	2	-	2	1	3
NAM 16.20	3	3	6	1	3	1	3	4	3	1	5
NAM 16.28	2	2	7	7	1	6	1	3	4	1	5
NAM 16.44	1	2	5	1	1	1	1	3	1	1	3
NAM 16.46	2	2	7	5	1	6	1	4	1	1	3
NAM 16.49	2	3	7	1	1	1	1	3	1	1	3
NAM 16.57	2	2	7	2	1	2	1	3	2	1	0

Field rust response recorded according to scale described by Sandhu *et. al* (2021)