

Table 1. Entries, 2007 RGON.

Entry	Line	putative market class	pedigree	source	protected trait?
1	TAM-107	HRW	PI 495594	check	
2	Karl 92	HRW	PI 564245	check	
3	Arapahoe	HRW	PI 518591	check	
4	local check 1		see comments	check	
5	local check 2		see comments	check	
6	local check 3		see comments	check	
7	KS03HW1-6	HWW	FIDEL/97HW150//97HW349/3/TGO	KSU-Hays	CL
8	KS05HW14-3	HWW	KS98HW452(KS91H153/KS93HW255)/CO960293//KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
9	KS05HW14-4	HWW	KS98HW452(KS91H153/KS93HW255)/CO960293//KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
10	KS05HW15-1	HWW	KS98HW452(KS91H153/KS93HW255)/CO960293//KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
11	KS05HW15-2	HWW	KS98HW452(KS91H153/KS93HW255)/CO960293//KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
12	KS05HW15-5	HWW	KS98HW452(KS91H153/KS93HW255)/CO960293//KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
13	KS05HW28-1	HWW	KS91W009-6-1(82W428/VEE//NA283/BOW/3/PV1124-79)/TREGO//KS99HW55(KS93HW91/KS93HW255)	KSU-Hays	
14	KS05HW28-4	HWW	KS91W009-6-1(82W428/VEE//NA283/BOW/3/PV1124-79)/TREGO//KS99HW55(KS93HW91/KS93HW255)	KSU-Hays	
15	KS05HW53-4	HWW	LAKIN/KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
16	KS05HW55-3	HWW	LAKIN/KS920709B-5-2(T67/X84W063-9-45//K92)	KSU-Hays	
17	KS05HW121-1	HWW	KS99-5-16(94HW98/91H153)//STANTON/KS98HW423(JAG/93HW242)	KSU-Hays	
18	KS05HW121-2	HWW	KS99-5-16(94HW98/91H153)//STANTON/KS98HW423(JAG/93HW242)	KSU-Hays	
19	KS05HW122-5	HWW	KS99-5-16(94HW98/91H153)//STANTON/KS98HW423(JAG/93HW242)	KSU-Hays	
20	KS05HW136-3	HWW	KS98HW518(93HW91/93HW255)//KS98H245(IKE/TA2460/**3T200)/TREGO	KSU-Hays	
21	KS05HW162-3	HWW	99-5011(KS94HW98/KS94HW115)/3/FIDEL/KS97HW153//KS97HW349(ARLIN/TA2460/3*T107)	KSU-Hays	CL
22	DUBYA	HWW	TREGO RESELECTION	KSU-Hays	
23	KS06HW79	HWW	CO960333-1/KS99HW41(KS91H153/KS93HW255)//KS99HW37(JGR/93HW242)	KSU-Hays	
24	KS06HW10	HWW	KS98H239-1/W95-610W(WI89-282/Arin)//005104(D194HW77-3//JGR W/95HW30)	KSU-Hays	
25	KS06HW11	HWW	KS98H239-1/W95-610W(WI89-282/Arin)//005104(D194HW77-3//JGR W/95HW30)	KSU-Hays	
26	KS06HW27	HWW	KS93W0043-3//TX89V4311(U1254-1-5-1-1/TX89V4213)/KS99HW24	KSU-Hays	
27	KS06HW28	HWW	KS93W0043-3//TX89V4311(U1254-1-5-1-1/TX89V4213)/KS99HW24	KSU-Hays	
28	KS06HW32	HWW	KS99HW24(CUSTER/93HW255)//005292(ID377S/94HW123//TGO)	KSU-Hays	
29	KS06HW37	HWW	KS99HW37(JGR/93HW242)//TX89V4311(U1254-1-5-1-1/TX89V4213)/LAKIN	KSU-Hays	
30	KS06HW41	HWW	TREGO/01-5539(FIDEL/KS97HW150//KS97HW349)	KSU-Hays	CL
31	KS06HW43	HWW	TREGO/01-5539(FIDEL/KS97HW150//KS97HW349)	KSU-Hays	CL
32	KS06HW45	HWW	KS98HW220-5-1(ARLIN/YUMA)/KS01HW162(TGO/BTY SIB)	KSU-Hays	
33	KS06HW46	HWW	KS98HW220-5-1(ARLIN/YUMA)/KS01HW162(TGO/BTY SIB)	KSU-Hays	
34	KS06HW55	HWW	KS98HW220-5-1(ARLIN/YUMA)/00HW114-1(94HW117//JGR/94HW301)	KSU-Hays	
35	KS06HW56	HWW	KS98HW220-5-1(ARLIN/YUMA)/00HW114-1(94HW117//JGR/94HW301)	KSU-Hays	
36	KS06HW62	HWW	KS01HW75(ID377S/94HW123//TGO)/KS01HW101(94HW115/BTY SIB)	KSU-Hays	
37	OK02405	HRW	Tonkawa/GK50	OSU	
38	OK03305	HRW	N40/OK94P455	OSU	
39	OK02125	HRW	GA84200+2*Jagger	OSU	
40	OK03311	HRW	OK92P577/2174//Jagger	OSU	
41	OK03522	HRW	N566/OK94P597	OSU	
42	OK04904C	HRW	TXGH12588-26*4/FS4//2174	OSU	CL
43	OK05903C	HRW	TXGH12588-120*4/FS4//2174/3/Jagger	OSU	CL

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44	OK05905C	HRW	TXGH12588-105*4/FS4//2174/3/Jagger	OSU	CL
45	OK04505	HRW	OK91724/2*Jagger	OSU	
46	OK04108	HRW	OK93617/2*Jagger	OSU	
47	OK05830	HRW	OK93617/Jagger	OSU	
48	OK04507	HRW	OK95593/Jagger //2174	OSU	
49	OK04111	HRW	2174*2/Jagger	OSU	
50	TAM-107	HRW	PI 495594	check	
51	Karl 92	HRW	PI 564245	check	
52	Arapahoe	HRW	PI 518591	check	
53	local check 1		see comments	check	
54	local check 2		see comments	check	
55	local check 3		see comments	check	
56	OK04315	HRW	N563/OK94P597	OSU	
57	OK04525	HRW	FFR525W/Hickok//Coronado	OSU	
58	OK00514-05804	HRW	KS93U206//KS82W418/Stephens	OSU	
59	OK00514-05806	HRW	KS93U206//KS82W418/Stephens	OSU	
60	OK00611W	HW	KS93U206//KS82W418/Stephens	OSU	
61	OK02522W	HW	KS93U206//KS82W418/Stephens	OSU	
62	OK Bullet06ERU	HW	KS93U206//KS82W418/Stephens	OSU	
63	OK05737W	HW	KS93U206//KS82W418/Stephens	OSU	
64	OK05741W	HW	KS93U206//KS82W418/Stephens	OSU	
65	OK04726W	HW	KS941064-6//TX91D6913/OK95603	OSU	
66	OK04733W	HW	Intrada/Platte	OSU	
67	HV9W00-B1551WP		B1043/2180	Westbred	
68	HV9W02-112W		96HW94-5/TGO	Westbred	
69	HV9W02-267W		97H79(87H6//TX81V6607-2/87H66-2)/TGO	Westbred	
70	HV9W02-271W		97HW216(91HW19/WGRC15)/97HW349(ARL//TA2460/3*T107)	Westbred	
71	HV9W02-243W		KS91H184/ARLIN SIB//KS91HW29/3/N93L068	Westbred	
72	HV9W00-B243R		JAGGER/3/FR3-632//KS90WGRC10/B918	Westbred	
73	HV9W98A-1002R		B1127/3/B1551//ROWDY/RWA 671 MONT	Westbred	
74	HV9W96-1271R-1		B1551-WH / KS94U326	Westbred	
75	HV9W03-280W-1		ORB/97CMT181W//TREGO	Westbred	
76	HV9W03-280W-2		ORB/97CMT181W//TREGO	Westbred	
77	HV9W03-282W-1		G7010W/PL2566//HALT	Westbred	
78	HV9W03-282W-2		G7010W/PL2566//HALT	Westbred	
79	HV9W03-1601R-1		TBA	Westbred	
80	HV9W03-1601R-2		TBA	Westbred	
81	HV9W03-1379R-1		TBA	Westbred	
82	HV9W03-1379R-2		TBA	Westbred	
83	HV9W03-539R-1		KS94U275/1878//JAG	Westbred	
84	HV9W03-539R-2		KS94U275/1878//JAG	Westbred	
85	HV9W03-540R-1		KS94U275/1878//JAG	Westbred	
86	HV9W03-540R-2		KS94U275/1878//JAG	Westbred	

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87	HV9W03-696R-1		N94L027/TBOLT//KS89180B	Westbred	
88	HV9W03-696R-2		N94L027/TBOLT//KS89180B	Westbred	
89	HV9W03-753R-1		474S10-1/X87807-26//HBK0736-3	Westbred	
90	HV9W03-753R-2		474S10-1/X87807-26//HBK0736-3	Westbred	
91	HV9W96-1271R-1		B1551-WH / KS94U326	Westbred	
92	HV9W02-267W		97H79(87H6//TX81V6607-2/87H66-2)/TGO	Westbred	
93	HV9W98A-1002R		B1127/3/B1551//ROWDY/RWA 671 MONT	Westbred	
94	HV9W02-846R		474S10-1/X87807-26//HBK0736-3	Westbred	
95	U4387-1-1-6	HRW	Karl 92*3/Syn95-1656 (Lr)	ARS-Manhattan	
96	U4391-2-23-13	HRW	Karl 92*3/Syn95-1660 (Lr)	ARS-Manhattan	
97	U4393A-1-16-10	HRW	Karl 92*3/Syn95-1660 (Lr)	ARS-Manhattan	
98	U4620R-3-8-7-10	HRW	Jagger*3//Do1/TA1695 (Lr)	ARS-Manhattan	
99	U4658-2-8-13	HRW	Jagger//Karl 92*2/TA1715 (Lr)	ARS-Manhattan	
100	TAM-107	HRW	PI 495594	check	
101	Karl 92	HRW	PI 564245	check	
102	Arapahoe	HRW	PI 518591	check	
103	local check 1		see comments	check	
104	local check 2		see comments	check	
105	local check 3		see comments	check	
106	U4658-2-8-15	HRW	Jagger//Karl 92*2/TA1715 (Lr)	ARS-Manhattan	
107	U4808-1-1-17-8-10	HRW	Heyne/3/KS940331-101//TAM107/TC14 Spear (Bdv2)	ARS-Manhattan	
108	U4808-1-1-19-5-6-13	HRW	Heyne/3/KS940331-101//TAM107/TC14 Spear	ARS-Manhattan	
109	U4808-4-3-26-1-39	HRW	Heyne/3/KS940331-101//TAM107/TC14 Spear	ARS-Manhattan	
110	U4808-4-3-23-8-8	HRW	Heyne/3/KS940331-101//TAM107/TC14 Spear	ARS-Manhattan	
111	U4808-4-3-19-3	HRW	Heyne/3/KS940331-101//TAM107/TC14 Spear	ARS-Manhattan	
112	KS000183-3-1		OR1/KS920772-A-2-3//KS910709-B-6-12	KSU-Manhattan	
113	KS000183-3-2		OR1/KS920772-A-2-3//KS910709-B-6-12	KSU-Manhattan	
114	KS010520-5-3		(MTRWA92.121)/3/T67/X84W063-9-45//K92/4/X940786-6-4	KSU-Manhattan	
115	KS010525-1-1		(TC14 SPEAR2)/3/T67/X84W063-9-45//K92/4/Jagger	KSU-Manhattan	
116	KS010525-1-3		(TC14 SPEAR2)/3/T67/X84W063-9-45//K92/4/Jagger	KSU-Manhattan	
117	KS04WKS-13		BULK SELN	KSU-Manhattan	
118	KS04WKS-24		BULK SELN	KSU-Manhattan	
119	KS990002-2-4		JGR//KS89180B-2-1-1/(TAM 200/TUI)	KSU-Manhattan	
120	KS990002-2-13		JGR//KS89180B-2-1-1/(TAM 200/TUI)	KSU-Manhattan	
121	KS06PYN2-21		BULK SELN	KSU-Manhattan	
122	KS990152-3-26		KS89180B-2-1-1/(SRMA/BOW/NKT/3/PVN)//JGR	KSU-Manhattan	
123	KS010514-6-11		(GAA/PRL)/3/HBF0290/X84W063-9-39-2//ARH/4/X940786-6-4	KSU-Manhattan	
124	NE05418	HRW	BETTY(KS84063-11-6-42) X SD97457 (=TOMAHAWK/BENNET)	UNL	
125	NE05425	HRW	W95-091 (=KS85-663-8-9//WI81-133/THUNDERBIRD) X AKRON	UNL	
126	NE05426	HRW	W95-091 (=KS85-663-8-9//WI81-133/THUNDERBIRD) X AKRON	UNL	
127	NE05427	HRW	W95-091 (=KS85-663-8-9//WI81-133/THUNDERBIRD) X ALLIANCE	UNL	
128	NE05430	HRW	IN92823A1-1-4-5 X NE92458	UNL	
129	NE05495	HRW	Alliance/Trego	UNL	

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130	NE05496	HRW	KS95HW62-6 (=KS87H325/RIO BLANCO) X NE98471 (=NE90461 (=BRL.BENN)/NIOBRARA)	UNL	
131	NW05518	HWW	CULVER (=NE82419/ARAPAHOE) X NE94589 (=TX84V122/NE84557)	UNL	
132	NE05523	HRW	N96V039 (=TX89V4133/N87V106) X KARL 92	UNL	
133	NE05537	HRW	NI97435 (=TAM202/NE86606 (=WRR/SUT/MOW6811/3/AGATE..))NE94632 (=ABILENE/NORKAN/RAWHIDE) X KS89180B-2-1 (=KS8910-73/KS8010-1-4-2//107349/KARL)	UNL	
134	NE05548	HRW	NE97426 (=BRIGANTINA.2*ARAPAHOE) X NE98574 (=CO850267/RAWHIDE)	UNL	
135	NE05549	HRW	NI98414 (=NE90614/NE87612//NE87612) X WESLEY(N95L158) (=KS831936-3//COLT/CODY)	UNL	
136	NE05558	HRW	NE98574 (=CO850267/RAWHIDE) X KS89180B-3-1 (=KS8910-73/KA8010-1-4-2//107349/KARL)	UNL	
137	NE05578	HRW	NW98S063/Yumar	UNL	
138	NW05589	HWW	Sierra/WI88-052//KS98HW105/N97S078 X KS98HW105/N97S078	UNL	
139	NW05643	HWW	Betty//N97S139/N94L460WA X N97S139/N94L460WA	UNL	
140	NE05699	HRW	KS96WH10-3 (=KS91HW29//RIO BLANCO/KS91H184) X NE94654 (=ARAPAHOE 2*/ABILENE)	UNL	
141	NI05713	HRW	WA691213-27/N86L177//N91L146/3/NU Plains X NU Plains	UNL	
142	NE05453	HRW	W95-091 (=KS85-663-8-9//WI81-133/THUNDERBIRD) X AKRON	UNL	
143	NE05459	HRW	IN92823A1-1-4-5 X NE92458	UNL	
144	NE05567	HRW	KS85W663-1-1/TOMAHAWK//NE90518/KSSB-369-7 X NE90518/KSSB-369-7	UNL	
145	NE05568	HRW	Wesley//NE88584/KSSB-369-7 X NE88584/KSSB-369-7	UNL	
146	NE05569	HRW	Wesley//NE88584/KSSB-369-7 X NE88584/KSSB-369-7	UNL	
147	N98L20040-44	HRW	CS/PI467024//CS/3/SXLD/4/TAM202/5/SXLD	ARS-LNK	
148	NI06721	HRW	WESLEY (N95L158)=(KS831936-3//COLT/CODY) X KS9U241/IKE/TXGH12388-120*4/FS2	UNL	
149	NI06724	HRW	W97-234=(JAGGER/WI89-189-14) X NE98574=(CO850267/RAWHIDE)	UNL	
150	TAM-107	HRW	PI 495594	check	
151	Karl 92	HRW	PI 564245	check	
152	Arapahoe	HRW	PI 518591	check	
153	local check 1		see comments	check	
154	local check 2		see comments	check	
155	local check 3		see comments	check	
156	NI06726	HRW	W97-234=(JAGGER/WI89-189-14) X NE98574=(CO850267/RAWHIDE)	UNL	
157	NI06731	HRW	OK98699=(TAM 200/HBB313E//2158) X NI98437=(OK88767/NE89657)	UNL	
158	NI06732	HRW	HBK0630-4-5 (=HBA142A/HBZ623A//ALE)/NE98632 (=NIOBRARA/NE91525 (=AIV/NBR/BOLAL//HIPLAINS/3/LOV6/4/REDLAND)) X WESLEY (N95L158)=(KS831936-3//COLT/CODY)	UNL	
159	NI06736	HRW	NW97S312=(KM602-90/NE89657//ARLIN) X KS96HW10-3=(KS91HW29// RIO BLANCO/KS91H184)	UNL	
160	NI06737	HRW	NW97S312=(KM602-90/NE89657//ARLIN) X KS96HW10-3=(KS91HW29// RIO BLANCO/KS91H184)	UNL	
161	SD06021	HRWW	Arapahoe/KS96HW100-1	SDSU	
162	SD06067	HRWW	Harry/Wesley//Jerry	SDSU	
163	SD06069	HRWW	Harry/Wesley//Jerry	SDSU	
164	SD06111	HRWW	SD94149/Falcon//FALCON	SDSU	
165	SD06142	HRWW	SD98243/FALCON	SDSU	
166	SD06144	HRWW	SD98243/FALCON	SDSU	
167	SD06158	HRWW	WESLEY/FALCON	SDSU	
168	SD06159	HRWW	WESLEY/FALCON	SDSU	
169	SD06183	HRWW	BULK02R3B	SDSU	
170	SD03164-1	HRWW	89118RC1-X-9-3-3/TX96D2845//Expedition	SDSU	
171	SD03164-2	HRWW	89118RC1-X-9-3-3/TX96D2845//Expedition	SDSU	
172	SD03164-5	HRWW	89118RC1-X-9-3-3/TX96D2845//Expedition	SDSU	

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173	SD03184-1	HRWW	Goldfield/KS91077-A-2-1//Expedition	SDSU	
174	SD03184-4	HRWW	Goldfield/KS91077-A-2-1//Expedition	SDSU	
175	SD03188-2	HRWW	Delabrad/KS91048-L-2-1//Expedition	SDSU	
176	SD06W004	HWWWW	KS91W072-4-2-1/SD93267	SDSU	
177	SD06W010	HWWWW	KS91W072-4-2-1/Tandem	SDSU	
178	SD06W068	HWWWW	SD98W126/SD98153	SDSU	
179	SD06W075	HWWWW	NE92652/Betty	SDSU	
180	SD06W076	HWWWW	Charter/WENDY	SDSU	
181	SD06W111	HWWWW	SD97W609//SD97W609/Rio Blanco	SDSU	
182	SD06W112	HWWWW	SD97W609//SD97W609/Rio Blanco	SDSU	
183	SD06W135	HWWWW	TREGO/SD97W609	SDSU	
184	SD06W158	HWWWW	RANSOM/SD98W324	SDSU	
185	SD06W166	HWWWW	WENDY//Falcon/WENDY	SDSU	
186	SD06W185	HWWWW	SD99W042//SD94149/Rio Blanco	SDSU	
187	SD06W188	HWWWW	SD99W006//SD94149/NW97S295	SDSU	
188	SD06W193	HWWWW	FALCON/SD98W354	SDSU	
189	SD99W015-1	HWWWW	Jagger/KS91HW301//Rose	SDSU	
190	SD03W005-2	HWWWW	N97S078/OK98G502W	SDSU	
191	NX05M4080-2	waxy	TX98U8185 X Ike//Bai Huo 5/K94H115	ARS-LNK	
192	NX05M4151-2	waxy	TX98U8184 X 99 waxy bulk	ARS-LNK	
193	NX05M4151-4	waxy	TX98U8184 X 99 waxy bulk	ARS-LNK	
194	NX05M4179-1	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
195	NX05M4179-2	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
196	NX05M4179-4	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
197	NX05M4179-5	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
198	NX05M4180-2	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
199	NX05M4180-4	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
200	TAM-107	HRW	PI 495594	check	
201	Karl 92	HRW	PI 564245	check	
202	Arapahoe	HRW	PI 518591	check	
203	local check 1		see comments	check	
204	local check 2		see comments	check	
205	local check 3		see comments	check	
206	NX05M4180-5	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
207	NX05M4180-6	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
208	NX05M4180-7	waxy	92201D5-2-29 X 99 waxy bulk	ARS-LNK	
209	NX05M4223-2	waxy	OH684 X 99 waxy bulk	ARS-LNK	
210	NX05M4223-4	waxy	OH684 X 99 waxy bulk	ARS-LNK	
211	NX05M4225-1	waxy	OH684 X 99 waxy bulk	ARS-LNK	
212	NX05M4225-2	waxy	OH684 X 99 waxy bulk	ARS-LNK	
213	NX05M4251-1	waxy	VA97W-206 X 99 waxy bulk	ARS-LNK	
214	NX05M4391	waxy	Cimarron/Rio Blanco//Bai Hou 4/L910097 X Lakin	ARS-LNK	
215	NX05M4420-1	waxy	Ike//Bai Huo 5/K94H115 X 00LN8122-08	ARS-LNK	

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216	NX05M4462-6	waxy	Bai Huo/Kanto 107//Ike X 00LN8202-15	ARS-LNK	
217	NX05M4469-2	waxy	Ike//Bai Huo 5/K94H115 X 00LN8154-13	ARS-LNK	
218	NX05M4475-1	waxy	Cimarron/RB//BaiHuo4/L910114/3/Ks87809-10/Arapahoe X OH645	ARS-LNK	
219	NX05M4477-1	waxy	Cimarron/RB//BaiHuo4/L910114/3/Ks87809-10/Arapahoe X OH645	ARS-LNK	
220	NX05M4477-2	waxy	Cimarron/RB//BaiHuo4/L910114/3/Ks87809-10/Arapahoe X OH645	ARS-LNK	
221	NX05M4499-1	waxy	Cimarron/RB//BaiHuo4/L910114/3/Ks87809-10/Arapahoe X P2737w	ARS-LNK	
222	NX05M4501-2	waxy	Cimarron/RB//BaiHuo4/L910114/3/Ks87809-10/Arapahoe X P2737w	ARS-LNK	
223	CO01385-A1	HRW	Yumar/Arlin	CSU	
224	CO02W214	HWW	98HW423(JGR/93HW242)/96HW94	CSU	
225	CO02W237	HWW	98HW519(93HW91/93HW255)/96HW94	CSU	
226	CO02W280	HWW	98HW521(93HW91/93HW255)/98HW165(ARL/WGRC15)	CSU	
227	CO03064	HRW	CO970547/Prowers 99	CSU	
228	CO03443	HRW	CO960691/CO970655	CSU	
229	CO03W033	HWW	CO980862/CO960691	CSU	
230	CO03W043	HWW	KS96HW94/CO980352	CSU	
231	CO03W054	HWW	KS96HW94//Trego/CO960293	CSU	
232	CO03W108	HWW	Avalanche/KS920946-B-15-1	CSU	
233	CO03W127	HWW	CO980352/CO970235	CSU	
234	CO03W139	HWW	CO980862/Lakin	CSU	
235	CO03W146	HWW	KS98HW452/CO960293//Lakin	CSU	
236	CO03W238	HWW	KS01-5539/CO99W165	CSU	CL
237	CO03W239	HWW	KS01-5539/CO99W165	CSU	CL
238	CO03W269	HWW	KS01-5539/CO99W191	CSU	CL
239	MTS0531		L'Govskaya 167/Rampart//MT9409	MTSU	
240	MTS0532		L'Govskaya 167/Rampart//MT9409	MTSU	
241	MTCL0537		FS2/4*Tiber	MTSU	CL
242	MT0552		N95L159/CDC Clair	MTSU	
243	MT0554		Judith/WI88-275//KS94HW119	MTSU	
244	MT0565		N93L068/MT9440	MTSU	
245	MT0585		HYB89F009/S86-736//BigSky	MTSU	
246	MT0598		MT9659/S87-101//Pronghorn	MTSU	
247	TX04A001243	HRW	TX95A0011/HICKOK	TAMU	
248	TX04A001244	HRW	TX95V4339/TX94VT938-6	TAMU	
249	TX04A001246	HRW	TX95V4339/TX94VT938-6	TAMU	
250	TAM-107	HRW	PI 495594	check	
251	Karl 92	HRW	PI 564245	check	
252	Arapahoe	HRW	PI 518591	check	
253	local check 1		see comments	check	
254	local check 2		see comments	check	
255	local check 3		see comments	check	
256	TX04A001268	HRW	TX96V2627/TX94D7091	TAMU	
257	TX04A001482	HRW	X96V115/TX95V4339	TAMU	
258	TX04A001529	HRW	X96V188/TX94V4930	TAMU	



Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
1	TAM-107	S	8
2	Karl 92	S	4
3	Arapahoe	S	7
4	local check 1		
5	local check 2		
6	local check 3		
7	KS03HW1-6	R	8
8	KS05HW14-3	S	9
9	KS05HW14-4	S	9
10	KS05HW15-1	S	8
11	KS05HW15-2	S	8
12	KS05HW15-5	S	9
13	KS05HW28-1	H+	7
14	KS05HW28-4	R	6
15	KS05HW53-4	S	7
16	KS05HW55-3	S	8
17	KS05HW121-1	R-	8
18	KS05HW121-2	H+	8
19	KS05HW122-5	H	8
20	KS05HW136-3	H	8
21	KS05HW162-3	S	8
22	DUBYA	R	7
23	KS06HW79	R	7
24	KS06HW10	S	8
25	KS06HW11	S	8
26	KS06HW27	S	5
27	KS06HW28	S	5
28	KS06HW32	H	8
29	KS06HW37	H-	8
30	KS06HW41	S	8
31	KS06HW43	S	8
32	KS06HW45	H	6
33	KS06HW46	R	5
34	KS06HW55	S	5
35	KS06HW56	S	8
36	KS06HW62	H-	7
37	OK02405	S	4
38	OK03305	S	5
39	OK02125	H-	5
40	OK03311	S	5
41	OK03522	S	6
42	OK04904C	H+	6
43	OK05903C	H	6
44	OK05905C	S	6
45	OK04505	S	6



Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
46	OK04108	S	7
47	OK05830	S	8
48	OK04507	S	7
49	OK04111	H-	6
50	TAM-107	S	7
51	Karl 92	S	6
52	Arapahoe	H-	6
53	local check 1		
54	local check 2		
55	local check 3		
56	OK04315	H+	8
57	OK04525	S	4
58	OK00514-05804	S	6
59	OK00514-05806	S	6
60	OK00611W	S	6
61	OK02522W	S	7
62	OK Bullet06ERU	S	7
63	OK05737W	S	8
64	OK05741W	S	8
65	OK04726W	R	8
66	OK04733W	S	8
67	HV9W00-B1551WP	S	8
68	HV9W02-112W	H-	8
69	HV9W02-267W	S	9
70	HV9W02-271W	S	8
71	HV9W02-243W	R	6
72	HV9W00-B243R	S	4
73	HV9W98A-1002R	S	7
74	HV9W96-1271R-1	S	8
75	HV9W03-280W-1	S	8
76	HV9W03-280W-2	S	7
77	HV9W03-282W-1	S	6
78	HV9W03-282W-2	S	6
79	HV9W03-1601R-1	S	5
80	HV9W03-1601R-2	S	6
81	HV9W03-1379R-1	S	4
82	HV9W03-1379R-2	S	5
83	HV9W03-539R-1	S	4
84	HV9W03-539R-2	S	5
85	HV9W03-540R-1	S	5
86	HV9W03-540R-2	S	6
87	HV9W03-696R-1	R	6
88	HV9W03-696R-2	H	8
89	HV9W03-753R-1	S	3
90	HV9W03-753R-2	S	3

Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
91	HV9W96-1271R-1	S	9
92	HV9W02-267W	S	8
93	HV9W98A-1002R	S	8
94	HV9W02-846R	S	2
95	U4387-1-1-6	S	5
96	U4391-2-23-13	S	2
97	U4393A-1-16-10	S	5
98	U4620R-3-8-7-10	S	6
99	U4658-2-8-13	S	4
100	TAM-107	S	7
101	Karl 92	S	5
102	Arapahoe	S	6
103	local check 1		
104	local check 2		
105	local check 3		
106	U4658-2-8-15	S	3
107	U4808-1-1-17-8-10	S	2
108	U4808-1-1-19-5-6-13	S	3
109	U4808-4-3-26-1-39	S	7
110	U4808-4-3-23-8-8	S	3
111	U4808-4-3-19-3	S	7
112	KS000183-3-1	S	8
113	KS000183-3-2	S	8
114	KS010520-5-3	S	5
115	KS010525-1-1	S	5
116	KS010525-1-3	S	7H3
117	KS04WKS-13	S	7
118	KS04WKS-24	S	6
119	KS990002-2-4	S	6
120	KS990002-2-13	S	7
121	KS06PYN2-21	H	8
122	KS990152-3-26	S	7
123	KS010514-6-11	S	8
124	NE05418	S	8
125	NE05425	S	6
126	NE05426	S	6
127	NE05427	S	6
128	NE05430	S	6
129	NE05495	S	6
130	NE05496	R	6
131	NW05518	S	7
132	NE05523	H	8
133	NE05537	H	7
134	NE05548	S	7
135	NE05549	H	5

Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
136	NE05558	H	7
137	NE05578	S	5
138	NW05589	S	6
139	NW05643	S	6
140	NE05699	H-	7
141	NI05713	S	5
142	NE05453	S	5
143	NE05459	R-	8
144	NE05567	H-	5
145	NE05568	H	4
146	NE05569	S	5
147	N98L20040-44	S	6
148	NI06721	S	4
149	NI06724	S	6
150	TAM-107	S	7
151	Karl 92	S	5
152	Arapahoe	H-	6
153	local check 1		
154	local check 2		
155	local check 3		
156	NI06726	S	6
157	NI06731	H+	4
158	NI06732	S	6
159	NI06736	H-	5
160	NI06737	H	4
161	SD06021	S	6
162	SD06067	S	5
163	SD06069	S	5
164	SD06111	S	7
165	SD06142	S	5
166	SD06144	S	6
167	SD06158	S	6
168	SD06159	S	5
169	SD06183	S	6
170	SD03164-1	H-	6
171	SD03164-2	S	6
172	SD03164-5	H	7
173	SD03184-1	H-	6
174	SD03184-4	H+	6
175	SD03188-2	S	6
176	SD06W004	S	6
177	SD06W010	S	5
178	SD06W068	S	8
179	SD06W075	S	3
180	SD06W076	S	7

Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
181	SD06W111	S	7
182	SD06W112	S	8
183	SD06W135	H	8
184	SD06W158	S	7
185	SD06W166	S	6
186	SD06W185	S	5
187	SD06W188	S	5
188	SD06W193	S	7
189	SD99W015-1	S	5
190	SD03W005-2	H-	8
191	NX05M4080-2	S	7
192	NX05M4151-2	S	7
193	NX05M4151-4	S	8
194	NX05M4179-1	S	8
195	NX05M4179-2	S	7
196	NX05M4179-4	S	6
197	NX05M4179-5	S	7
198	NX05M4180-2	S	6
199	NX05M4180-4	S	7
200	TAM-107	S	7
201	Karl 92	S	5
202	Arapahoe	H-	6
203	local check 1		
204	local check 2		
205	local check 3		
206	NX05M4180-5	S	8
207	NX05M4180-6	S	8
208	NX05M4180-7	S	8
209	NX05M4223-2	S	8
210	NX05M4223-4	S	8
211	NX05M4225-1	S	8
212	NX05M4225-2	S	8
213	NX05M4251-1	S	8
214	NX05M4391	S	7
215	NX05M4420-1	S	5
216	NX05M4462-6	S	6
217	NX05M4469-2	S	7
218	NX05M4475-1	H	7
219	NX05M4477-1	S	8
220	NX05M4477-2	H-	8
221	NX05M4499-1	S	7
222	NX05M4501-2	H	5
223	CO01385-A1	S	7
224	CO02W214	S	6
225	CO02W237	S	8

Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
226	CO02W280	H+	6
227	CO03064	S	7
228	CO03443	H-	6
229	CO03W033	S	6
230	CO03W043	S	6
231	CO03W054	S	6
232	CO03W108	S	6
233	CO03W127	S	7
234	CO03W139	S	6
235	CO03W146	S	6
236	CO03W238	S	7
237	CO03W239	S	7
238	CO03W269	S	8
239	MTS0531	S	5
240	MTS0532	S	5
241	MTCL0537	S	6
242	MT0552	S	6
243	MT0554	S	5
244	MT0565	S	8
245	MT0585	S	9
246	MT0598	S	6
247	TX04A001243	S	7
248	TX04A001244	S	4
249	TX04A001246	S	4
250	TAM-107	S	6
251	Karl 92	S	5
252	Arapahoe	S	5
253	local check 1		
254	local check 2		
255	local check 3		
256	TX04A001268	S	3
257	TX04A001482	S	5
258	TX04A001529	S	5
259	TX04A001585	S	6
260	TX04A001756	H-	6
261	TX04A001771	S	5
262	TX04A001797	S	3
263	TX01V5134WC-2	S	7
264	TX01V5134RC-2	S	6
265	TX01V5134RC-3	S	6
266	TX04M410164	S	6
267	TX04M410211	S	8
268	TX04V075080	S	5
269	TX04V077095	S	7
270	TX05V071039	S	3

Table 2. Reactions to Hessian fly and stripe rust, 2007 RGON.

Entry	Line	Hessian Fly response	seedling stripe rust response (0-9): race PST-100, Manhattan, KS
271	TX05V071040	S	5
272	TX05V072020	S	6
273	TX05V072047	S	5
274	TX05V072071	S	8
275	TX05V072072	S	9
276	TX05V072073	S	9
277	TX05V072075	S	8
278	TX05V073050	S	8
279	TX05V073067	H-	6
280	TX05V074049	S	8
281	TX05V074062	H-	7
282	TX05V074072	S	7
283	TAM-107	S	7
284	Karl 92	S	6
285	Arapahoe	S	5
286	NX05M4100-2	S	5
287	NX05M4361-1	S	2
288	NX05M4449-1	S	8
289	NX05M4476-1	S	8



Table 3. Seedling leaf rust and wheat soilborne mosaic virus reactions, 2007 RGON.

Entry #	Line	Seedling leaf rust Stakeman's rating	WSBM (1-4)	
			03/09/2007	3/15/2007
1	TAM-107	4	1	1
2	Karl 92	3	1	1
3	Arapahoe	X;3-	2	2
4	Hawk	4	1	1
5	Sierra	4	2	1
6	Vona	4	2	1
7	KS03HW1-6	3	2	1
8	KS05HW14-3	3+	1	1
9	KS05HW14-4	3+	1	1
10	KS05HW15-1	3+	1	1
11	KS05HW15-2	3	1	1
12	KS05HW15-5	3-	1	1
13	KS05HW28-1	X;3-	1	1
14	KS05HW28-4	3	1	1
15	KS05HW53-4	3+	1	1
16	KS05HW55-3	3+	1	1
17	KS05HW121-1	3+	1	1
18	KS05HW121-2	3+	1	1
19	KS05HW122-5	3+	1	1
20	KS05HW136-3	;	1	1
21	KS05HW162-3	3	3	3
22	DUBYA	X;3-	1	1
23	KS06HW79	3+	4	3
24	KS06HW10	X;3-	4	3
25	KS06HW11	;	4	4
26	KS06HW27	3	1	1
27	KS06HW28	3	1	1
28	KS06HW32	X;3-	4	3
29	KS06HW37	3	1	1
30	KS06HW41	3+	3	3
31	KS06HW43	3	2	2
32	KS06HW45	3+	1	1
33	KS06HW46	3-	1	1
34	KS06HW55	3	3	3
35	KS06HW56	3+	3	3
36	KS06HW62	X;3	2	1
37	OK02405	3+	1	2
38	OK03305	3+	2	2
39	OK02125	X;3=	2	3
40	OK03311	3+	1	1
41	OK03522	3	2	2
42	OK04904C	3+	4	3
43	OK05903C	4	1	1
44	OK05905C	3+	1	1
45	OK04505	3	2	2
46	OK04108	3	2	2
47	OK05830	3	2	1
48	OK04507	3	2	1
49	OK04111	3-	2	1
50	TAM-107	4	1	1
51	Karl 92	3	1	2
52	Arapahoe	X;3-	4	3
53	Hawk	4	1	1

Table 3. Seedling leaf rust and wheat soilborne mosaic virus reactions, 2007 RGON.

Entry #	Line	Seedling leaf rust	WSBM (1-4)	
		Stakeman's rating	03/09/2007	3/15/2007
54	Sierra	4	4	3
55	Vona	4	4	4
56	OK04315	3+	1	1
57	OK04525	3	1	1
58	OK00514-05804	3	1	1
59	OK00514-05806	3	1	1
60	OK00611W	3	1	1
61	OK02522W	3	1	1
62	OK Bullet06ERU	3	1	1
63	OK05737W	3	1	1
64	OK05741W	3	1	1
65	OK04726W	3+	1	1
66	OK04733W	3	1	1
67	HV9W00-B1551WP	3+	1	1
68	HV9W02-112W	3+	2	2
69	HV9W02-267W	X;3	2	2
70	HV9W02-271W	3	3	3
71	HV9W02-243W	X;3-	3	3
72	HV9W00-B243R	X;3-	1	1
73	HV9W98A-1002R	3	1	1
74	HV9W96-1271R-1	3	1	1
75	HV9W03-280W-1	3-	1	1
76	HV9W03-280W-2	3	1	1
77	HV9W03-282W-1	3+	1	1
78	HV9W03-282W-2	3+	1	1
79	HV9W03-1601R-1	X;3-	2	2
80	HV9W03-1601R-2	X;3-	2	2
81	HV9W03-1379R-1	;	1	1
82	HV9W03-1379R-2	X;3	1	1
83	HV9W03-539R-1	3	1	1
84	HV9W03-539R-2	3-	2	1
85	HV9W03-540R-1	3	2	2
86	HV9W03-540R-2	3	2	2
87	HV9W03-696R-1	3-	1	1
88	HV9W03-696R-2	X;3-	1	1
89	HV9W03-753R-1	3-	1	1
90	HV9W03-753R-2	;	2	2
91	HV9W96-1271R-1	3-	1	1
92	HV9W02-267W	3-	3	2
93	HV9W98A-1002R	3	1	1
94	HV9W02-846R	;	1	1
95	U4387-1-1-6	;	1	1
96	U4391-2-23-13	3	1	1
97	U4393A-1-16-10	3	1	1
98	U4620R-3-8-7-10	;	1	1
99	U4658-2-8-13	;	1	1
100	TAM-107	4	2	2
101	Karl 92	3+	1	2
102	Arapahoe	X;3-	3	3
103	Hawk	4	2	1
104	Sierra	4	3	2
105	Vona	4	4	4
106	U4658-2-8-15	3-	1	2



Table 3. Seedling leaf rust and wheat soilborne mosaic virus reactions, 2007 RGON.

Entry #	Line	Seedling leaf rust Stakeman's rating	WSBM (1-4)	
			03/09/2007	3/15/2007
107	U4808-1-1-17-8-10	X;3-	1	1
108	U4808-1-1-19-5-6-13	3	2	2
109	U4808-4-3-26-1-39	;	1	1
110	U4808-4-3-23-8-8	3	1	1
111	U4808-4-3-19-3	3	3	3
112	KS000183-3-1	3+	1	1
113	KS000183-3-2	3+	1	1
114	KS010520-5-3	3+	1	1
115	KS010525-1-1	3+	1	1
116	KS010525-1-3	3	1	1
117	KS04WKS-13	3	1	1
118	KS04WKS-24	3+	1	1
119	KS990002-2-4	3	1	1
120	KS990002-2-13	3+	1	1
121	KS06PYN2-21	3+	1	1
122	KS990152-3-26	3+	2	2
123	KS010514-6-11	3+	1	1
124	NE05418	3+	1	1
125	NE05425	3	1	1
126	NE05426	3+	2	2
127	NE05427	3+	1	1
128	NE05430	3	2	2
129	NE05495	3+	2	2
130	NE05496	X;3-	2	2
131	NW05518	3+	1	2
132	NE05523	3+	1	1
133	NE05537	3	2	2
134	NE05548	3	1	1
135	NE05549	3	1	1
136	NE05558	3	1	1
137	NE05578	3	1	2
138	NW05589	3	1	2
139	NW05643	3+	1	2
140	NE05699	3	1	1
141	NI05713	3+	2	2
142	NE05453	3	2	2
143	NE05459	3	2	2
144	NE05567	3	2	2
145	NE05568	3+	3	3
146	NE05569	3+	2	1
147	N98L20040-44	3	4	3
148	NI06721	3+	1	1
149	NI06724	3+	3	3
150	TAM-107	3+	2	2
151	Karl 92	3	1	1
152	Arapahoe	X;3=	4	3
153	Hawk	3+	1	1
154	Sierra	4	3	2
155	Vona	4	4	4
156	NI06726	3	2	1
157	NI06731	3+	1	1
158	NI06732	3	1	1
159	NI06736	3+	1	1

Table 3. Seedling leaf rust and wheat soilborne mosaic virus reactions, 2007 RGON.

Entry #	Line	Seedling leaf rust Stakeman's rating	WSBM (1-4)	
			03/09/2007	3/15/2007
160	NI06737	3+	1	1
161	SD06021	X;3-	4	3
162	SD06067	3+	3	4
163	SD06069	3+	2	2
164	SD06111	3+	2	1
165	SD06142	3+	4	4
166	SD06144	3+	3	3
167	SD06158	3+	3	3
168	SD06159	3+	3	3
169	SD06183	3+	4	3
170	SD03164-1	3+	1	1
171	SD03164-2	3	1	1
172	SD03164-5	3+	1	1
173	SD03184-1	X;3	1	1
174	SD03184-4	3	1	1
175	SD03188-2	3	1	1
176	SD06W004	3+	3	2
177	SD06W010	3+	3	2
178	SD06W068	3	3	3
179	SD06W075	3+	1	1
180	SD06W076	X;3	2	1
181	SD06W111	3	1	1
182	SD06W112	3+	2	2
183	SD06W135	3+	3	3
184	SD06W158	X;3	3	3
185	SD06W166	3+	4	3
186	SD06W185	3+	1	1
187	SD06W188	3-	1	1
188	SD06W193	X;3-	2	2
189	SD99W015-1	3	1	1
190	SD03W005-2	3+	1	1
191	NX05M4080-2	3	1	1
192	NX05M4151-2	3	4	3
193	NX05M4151-4	3	4	3
194	NX05M4179-1	3+	4	3
195	NX05M4179-2	3	1	1
196	NX05M4179-4	3+	4	3
197	NX05M4179-5	3+	2 (seg)	2
198	NX05M4180-2	3	2 (seg)	2
199	NX05M4180-4	3+	3	2
200	TAM-107	3+	2	2
201	Karl 92	3	1	1
202	Arapahoe	X;3-	3	3
203	Hawk	4	1	1
204	Sierra	4	2	1
205	Vona	4	4	4
206	NX05M4180-5	3+	3	3
207	NX05M4180-6	3+	3	3
208	NX05M4180-7	3+	1	1
209	NX05M4223-2	3+	1	1
210	NX05M4223-4	3	3	3
211	NX05M4225-1	3+	3	3
212	NX05M4225-2	3+	1	1

Table 3. Seedling leaf rust and wheat soilborne mosaic virus reactions, 2007 RGON.

Entry #	Line	Seedling leaf rust	WSBM (1-4)	
		Stakeman's rating	03/09/2007	3/15/2007
213	NX05M4251-1	3+	2	2
214	NX05M4391	3+	3	3
215	NX05M4420-1	3+	1	1
216	NX05M4462-6	3+	2	2
217	NX05M4469-2	3	2	2
218	NX05M4475-1	3	1	1
219	NX05M4477-1	3+	1	1
220	NX05M4477-2	4	1	1
221	NX05M4499-1	X;3	1	2
222	NX05M4501-2	3	1	1
223	CO01385-A1	3	3	3
224	CO02W214	3+	1	1
225	CO02W237	3+	1	2
226	CO02W280	3+	3	2
227	CO03064	3	4	4
228	CO03443	3+	2	1
229	CO03W033	3-	1	1
230	CO03W043	3+	1	1
231	CO03W054	3+	3	2
232	CO03W108	X;3	1	1
233	CO03W127	3	2	2
234	CO03W139	4	1	2
235	CO03W146	3+	1	2
236	CO03W238	3+	1	2
237	CO03W239	3	3	3
238	CO03W269	3	3	3
239	MTS0531	3+	3	3
240	MTS0532	3+	3	3
241	MTCL0537	3	3	3
242	MT0552	3+	3	4
243	MT0554	3	1	1
244	MT0565	4	3	2
245	MT0585	3+	3	3
246	MT0598	3+	3	3
247	TX04A001243	3	3	4
248	TX04A001244	3	1	1
249	TX04A001246	3_	1	1
250	TAM-107	3+	2	2
251	Karl 92	3+	1	2
252	Arapahoe	X;3-	2	2
253	Hawk	4	1	1
254	Sierra	4	2	2
255	Vona	4	4	3
256	TX04A001268	3-	3	3
257	TX04A001482	X;3	3	2
258	TX04A001529	3	3	2
259	TX04A001585	3-	2	2
260	TX04A001756	3	1	1
261	TX04A001771	3+	1	1
262	TX04A001797	3+	4	4
263	TX01V5134WC-2	3	2	1
264	TX01V5134RC-2	3+	2	1
265	TX01V5134RC-3	3+	1	1

Table 3. Seedling leaf rust and wheat soilborne mosaic virus reactions, 2007 RGON.

Entry #	Line	Seedling leaf rust	WSBM (1-4)	
		Stakeman's rating	03/09/2007	3/15/2007
266	TX04M410164	3-	3	3
267	TX04M410211	3	1	1
268	TX04V075080	3	2	2
269	TX04V077095	3+	4	3
270	TX05V071039	3+	3	3
271	TX05V071040	3+	3	3
272	TX05V072020	3-	1	1
273	TX05V072047	X;3=	4	4
274	TX05V072071	3	3	4
275	TX05V072072	3	3	3
276	TX05V072073	3	4	4
277	TX05V072075	3+	1	1
278	TX05V073050	3+	3	3
279	TX05V073067	3+	1	1
280	TX05V074049	3	4	4
281	TX05V074062	3+	3	4
282	TX05V074072	X;3-	3	4
283	TAM-107	3+	1	1
284	Karl 92	3+	1	1
285	Arapahoe	X;3-	3	3
286	NX05M4100-2	3+	3	3
287	NX05M4361-1	3+	4	4
288	NX05M4449-1	3+	2	2
289	NX05M4476-1	3-	1	1

Table 4. Seedling reactions of entries in the 2007 RGO to a bulk of leaf rust races from the 2006 U.S. race survey.

Entry #	Line	Seedling reaction to bulk races of leaf rust Infection type*
1	TAM-107	3
2	Karl 92	3;
3	Arapahoe	;
4	McNair 701	3;
5	Sisson	;3
6	Red Chief	;3
7	KS03HW1-6	;;3
8	KS05HW14-3	;3
9	KS05HW14-4	3;
10	KS05HW15-1	3;
11	KS05HW15-2	;1c3
12	KS05HW15-5	;3
13	KS05HW28-1	;2
14	KS05HW28-4	;3
15	KS05HW53-4	3;
16	KS05HW55-3	;3
17	KS05HW121-1	;3
18	KS05HW121-2	3;
19	KS05HW122-5	3;
20	KS05HW136-3	;1c3
21	KS05HW162-3	;
22	DUBYA	3;
23	KS06HW79	3;
24	KS06HW10	;
25	KS06HW11	;
26	KS06HW27	;
27	KS06HW28	;
28	KS06HW32	3;
29	KS06HW37	;
30	KS06HW41	3;
31	KS06HW43	3;
32	KS06HW45	3;
33	KS06HW46	;3
34	KS06HW55	3;
35	KS06HW56	3;
36	KS06HW62	1c3
37	OK02405	3;
38	OK03305	;3
39	OK03305	3;

Table 4. Seedling reactions of entries in the 2007 RGO to a bulk of leaf rust races from the 2006 U.S. race survey.

Entry #	Line	Seedling reaction to bulk races of leaf rust Infection type*
47	OK05830	;3
48	OK04507	3;
49	OK04111	;31c
50	TAM-107	3;
51	Karl 92	3;
52	Arapahoe	;1c3
53	McNair 701	-
54	Sisson	3;
55	Red Chief	;3
56	OK04315	3;
57	OK04525	;3
58	OK00514-05804	;
59	OK00514-05806	;
60	OK00611W	;1c3
61	OK02522W	;
62	OK Bullet06ERU	;
63	OK05737W	;
64	OK05741W	;
65	OK04726W	3;
66	OK04733W	3;
67	HV9W00-B1551WP	3;
68	HV9W02-112W	3;
69	HV9W02-267W	3;
70	HV9W02-271W	;
71	HV9W02-243W	3;
72	HV9W00-B243R	;3
73	HV9W98A-1002R	3
74	HV9W96-1271R-1	;
75	HV9W03-280W-1	3
76	HV9W03-280W-2	3
77	HV9W03-282W-1	3
78	HV9W03-282W-2	3
79	HV9W03-1601R-1	3;
80	HV9W03-1601R-2	;3
81	HV9W03-1379R-1	;
82	HV9W03-1379R-2	;
83	HV9W03-539R-1	;
84	HV9W03-539R-2	;
85	HV9W03-540R-1	;
86	HV9W03-540R-2	;3
87	HV9W03-696R-1	;3
88	HV9W03-696R-2	;3
89	HV9W03-753R-1	;3
90	HV9W03-753R-2	;3
91	HV9W96-1271R-1	;
92	HV9W02-267W	3;
93	HV9W98A-1002R	;
94	HV9W02-846R	;

Table 4. Seedling reactions of entries in the 2007 RGO to a bulk of leaf rust races from the 2006 U.S. race survey.

Entry #	Line	Seedling reaction to bulk races of leaf rust Infection type*
95	U4387-1-1-6	;3
96	U4391-2-23-13	;
97	U4393A-1-16-10	;
98	U4620R-3-8-7-10	;
99	U4658-2-8-13	;31c;
100	TAM-107	3;
101	Karl 92	3;
102	Arapahoe	;2c3
103		
104		
105		
106	U4658-2-8-15	;3
107	U4808-1-1-17-8-10	;
108	U4808-1-1-19-5-6-13	;1c3
109	U4808-4-3-26-1-39	;
110	U4808-4-3-23-8-8	;
111	U4808-4-3-19-3	;
112	KS000183-3-1	;3
113	KS000183-3-2	;3
114	KS010520-5-3	;
115	KS010525-1-1	;3
116	KS010525-1-3	;1c3
117	KS04WKS-13	;
118	KS04WKS-24	;
119	KS990002-2-4	;1c3
120	KS990002-2-13	;1c3
121	KS06PYN2-21	;3
122	KS990152-3-26	;
123	KS010514-6-11	3;
124	NE05418	3;
125	NE05425	3;
126	NE05426	;2c3
127	NE05427	3;
128	NE05430	;1c3
129	NE05495	3;
130	NE05496	;1c3
131	NW05518	3
132	NE05523	31c;
133	NE05537	31c;
134	NE05548	;1c3
135	NE05549	;1c3
136	NE05558	31c;
137	NE05578	;1c3
138	NW05589	3;1c
139	NW05643	3;
140	NE05699	3;
141	NI05713	3;
142	NE05453	3;
143	NE05459	31c;

Table 4. Seedling reactions of entries in the 2007 RGO to a bulk of leaf rust races from the 2006 U.S. race survey.

Entry #	Line	Seedling reaction to bulk races of leaf rust Infection type*
144	NE05567	3
145	NE05568	;1c3
146	NE05569	31c;
147	N98L20040-44	31c;
148	NI06721	3
149	NI06724	3;
150	TAM-107	3
151	Karl 92	31c;
152	Arapahoe	31c;
153		
154		
155		
156	NI06726	3;
157	NI06731	3;
158	NI06732	;1c3
159	NI06736	;1c3
160	NI06737	3;1c
161	SD06021	;1c3
162	SD06067	;1c3
163	SD06069	;1c3
164	SD06111	31c;
165	SD06142	3;
166	SD06144	3;
167	SD06158	3;
168	SD06159	3;1c
169	SD06183	3;
170	SD03164-1	3
171	SD03164-2	31c;
172	SD03164-5	1c3;
173	SD03184-1	1c3;
174	SD03184-4	;3
175	SD03188-2	3;
176	SD06W004	3;
177	SD06W010	3
178	SD06W068	3
179	SD06W075	31c;
180	SD06W076	31c;
181	SD06W111	3
182	SD06W112	3
183	SD06W135	3;
184	SD06W158	;3
185	SD06W166	31c;
186	SD06W185	3;
187	SD06W188	3;
188	SD06W193	3;
189	SD99W015-1	31c;
190	SD03W005-2	3
191	NX05M4080-2	;3
192	NX05M4151-2	;1c3



Table 4. Seedling reactions of entries in the 2007 RGO to a bulk of leaf rust races from the 2006 U.S. race survey.

Entry #	Line	Seedling reaction to bulk races of leaf rust Infection type*
193	NX05M4151-4	;3
194	NX05M4179-1	;1c3
195	NX05M4179-2	;1c3
196	NX05M4179-4	;1c3
197	NX05M4179-5	;1c3
198	NX05M4180-2	;1c3
199	NX05M4180-4	;1c3
200		
201		
202		
203		
204		
205		
206	NX05M4180-5	3;
207	NX05M4180-6	3;
208	NX05M4180-7	3
209	NX05M4223-2	3;
210	NX05M4223-4	31c;
211	NX05M4225-1	3
212	NX05M4225-2	31c;
213	NX05M4251-1	31c;
214	NX05M4391	3
215	NX05M4420-1	;3
216	NX05M4462-6	;1c3
217	NX05M4469-2	;1c3
218	NX05M4475-1	;1c3
219	NX05M4477-1	;3
220	NX05M4477-2	3;
221	NX05M4499-1	;1c3
222	NX05M4501-2	;1c3
223	CO01385-A1	;1c3
224	CO02W214	;3
225	CO02W237	3;
226	CO02W280	3;
227	CO03064	3
228	CO03443	3
229	CO03W033	3
230	CO03W043	3
231	CO03W054	3
232	CO03W108	3;
233	CO03W127	3;
234	CO03W139	3
235	CO03W146	3
236	CO03W238	3;
237	CO03W239	3;
238	CO03W269	3;
239	MTS0531	3
240	MTS0532	3
241	MTCL0537	3;

Table 4. Seedling reactions of entries in the 2007 RGO to a bulk of leaf rust races from the 2006 U.S. race survey.

Entry #	Line	Seedling reaction to bulk races of leaf rust Infection type*
242	MT0552	3;
243	MT0554	3;
244	MT0565	3
245	MT0585	3
246	MT0598	3
247	TX04A001243	3
248	TX04A001244	3;
249	TX04A001246	3;
250	TAM-107	3
251	Karl 92	31c;
252	Arapahoe	;1c3
253		
254		
255		
256	TX04A001268	31c;
257	TX04A001482	;
258	TX04A001529	3
259	TX04A001585	;
260	TX04A001756	;
261	TX04A001771	;1c3
262	TX04A001797	3;
263	TX01V5134WC-2	;1c3
264	TX01V5134RC-2	;1c3
265	TX01V5134RC-3	;31c
266	TX04M410164	;
267	TX04M410211	;
268	TX04V075080	;
269	TX04V077095	3
270	TX05V071039	;1c3
271	TX05V071040	;
272	TX05V072020	;1c3
273	TX05V072047	;1c3
274	TX05V072071	;1c
275	TX05V072072	;
276	TX05V072073	;1c3
277	TX05V072075	;-3
278	TX05V073050	;
279	TX05V073067	3;
280	TX05V074049	;
281	TX05V074062	3;
282	TX05V074072	;
283		
284		
285		
286	NX05M4100-2	31c;
287	NX05M4361-1	;1c3
288	NX05M4449-1	;1c3
289	NX05M4476-1	3;

Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
1	TAM-107		2	2+/S	2+	1A.1R	TR
2	Karl 92		S				10 MR
3	Arapahoe		2	2	S	24	0
4	McNair 701	S	S				-
5	Sisson	0;1	0				TR
6	Red Chief	S	S	S	S		20 MS
7	KS03HW1-6	S	S				30 MS
8	KS05HW14-3	S	S				20 MS
9	KS05HW14-4	S	S				10 MR-MS
10	KS05HW15-1	S	S				5 MR-MS
11	KS05HW15-2	S	S				30 MS
12	KS05HW15-5	S	S				50 MS-S
13	KS05HW28-1	2;	2	2	S	24	0
14	KS05HW28-4	2;	2	2	S	24	0
15	KS05HW53-4	S	S				5 MR-MS
16	KS05HW55-3	S	S				5 MR
17	KS05HW121-1	S	S				5 MR
18	KS05HW121-2	S	S				20 MR-MS
19	KS05HW122-5	S	S				10 MR-MS
20	KS05HW136-3	S/2	2	2	S	24	20 MR
21	KS05HW162-3	S	S/2.	S/2	S	?	20 MS-S
22	DUBYA	2+;	2	2	S	24	TR
23	KS06HW79	S	S				TR
24	KS06HW10	S	2	2/S	S	24?	5 MR
25	KS06HW11	2;	2	2	-	24	0
26	KS06HW27	S	S				20 MR-MS
27	KS06HW28	S	S				20 MR-MS
28	KS06HW32	2	2	2	-	24	10 R
29	KS06HW37	S	S				10 MR
30	KS06HW41	2;/S	2	2	-	24	0
31	KS06HW43	S	S/2.	S/2	S	24	20 MR-MS
32	KS06HW45	21;	2	2	S	24	0
33	KS06HW46	21;	2	2	S	24	5 MR
34	KS06HW55	S	S				TR/10 MR
35	KS06HW56	S/2	2	2/S	S	24	TR
36	KS06HW62	S	2++	S	S		0
37	OK02405	S	S				40 MS-S
38	OK03305	S	S				30 MS
39	OK02125	0;/S	S				0
40	OK03311	S	S/0;	S	S	?	30 MS-S
41	OK03522	22+	2	2	S	24	10 MR
42	OK04904C	S	2++	S	S		5 MR
43	OK05903C	S	-	S	S		5 MR

Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
44	OK05905C	S	2++/S	2++	2+3	Tmp	10 MS
45	OK04505	S	S				10 MS
46	OK04108	2	2	2	S	24	0
47	OK05830	2;	0;/2-	0;	0;	24+36 ?	TR
48	OK04507	22+	;1-	;	S	24+ modifier	0
49	OK04111	S	S				5 MS
50	TAM-107	22+	2	2++	2+	1A.1R	T K
51	Karl 92	S	S				5 MR-MS
52	Arapahoe	2;	2	2	-		5 R
53	McNair 701	S	S				70 S
54	Sisson	;1	0				TR
55	Red Chief	S	S				40 MS-S
56	OK04315	S	S				10 MS
57	OK04525	S	S				5 MR
58	OK00514-05804	S	S				5 MR
59	OK00514-05806	S	S				30 MS
60	OK00611W	S	S				5 MR-MS
61	OK02522W	S	S				T MR
62	OK Bullet06ERU	S	S				20 MR-MS
63	OK05737W	S	S				10 MS
64	OK05741W	S	S				5 MS
65	OK04726W	S	2+	2+	2++	Tmp	T R
66	OK04733W	22+	2	2	S	24	0
67	HV9W00-B1551WP	2	2	2+	2+	1A.1R or Sr24+Tmp	10 R
68	HV9W02-112W	S	S				30 MS-S
69	HV9W02-267W	S	S				20 MS
70	HV9W02-271W	S	S				30 MS-S
71	HV9W02-243W	2	S				TR
72	HV9W00-B243R	0;1	S				0
73	HV9W98A-1002R	S	S				0
74	HV9W96-1271R-1	2+	2	2+	2+	1A.1R or Sr24+Tmp	TR
75	HV9W03-280W-1	S	S				20 MR-MS
76	HV9W03-280W-2	2+	S				20 MS
77	HV9W03-282W-1	0;1/2	S				5 MR
78	HV9W03-282W-2	S	S				10 MR-MS
79	HV9W03-1601R-1	S	S				T MR
80	HV9W03-1601R-2	S	S				10 MR
81	HV9W03-1379R-1	2;	2	2+	2+	1A.1R or Sr24+Tmp	T R
82	HV9W03-1379R-2	2;	2	2+	2+	1A.1R or Sr24+Tmp	5 R-MR
83	HV9W03-539R-1	S	2++?	2++	2+3-	Tmp	T R
84	HV9W03-539R-2	S	S				T R
85	HV9W03-540R-1	S	S				5- MS
86	HV9W03-540R-2	S	S				T MS

Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
87	HV9W03-696R-1	0;1	S LIF	S	S		0
88	HV9W03-696R-2	0;1	2	S?	S	?	0
89	HV9W03-753R-1	S	S				20 MR-MS
90	HV9W03-753R-2	S	S				20 MS
91	HV9W96-1271R-1	2	2	2+	2+	1A.1R or Sr24+Tmp	0
92	HV9W02-267W	S	S				10 MS
93	HV9W98A-1002R	S	S				10 MR-MS
94	HV9W02-846R	S	S				30 MS
95	U4387-1-1-6	S	S				30 MR-MS
96	U4391-2-23-13	S	2+/S	S	S		5 MR
97	U4393A-1-16-10	S	S				10 MR
98	U4620R-3-8-7-10	1;2	S				5 MR
99	U4658-2-8-13	S	S				0
100	TAM-107	2	2+	2+	2++	1A.1R	10 MR
101	Karl 92	S	S				10 MR
102	Arapahoe	2;	2-	2	2+3-	24	5 R
103	McNair 701						70 S
104	Sisson						T R
105	Red Chief						50 MS-S
106	U4658-2-8-15	S	S				5 MR
107	U4808-1-1-17-8-10	0;/S	2 LIF	2++	2++	?	T R
108	U4808-1-1-19-5-6-13	0;1/S	2	-	S	24	T R
109	U4808-4-3-26-1-39	2	2	2+	-	1A.1R or Sr24+Tmp	20 MS
110	U4808-4-3-23-8-8	0;1	2	2+/S	2+	1A.1R or Sr24+Tmp	T R
111	U4808-4-3-19-3	S	2/S.	2	S	24	5 R-MR
112	KS000183-3-1	2+;	2	2	S	24	T MS
113	KS000183-3-2	S	S				0/20 MS
114	KS010520-5-3	1+++;	2	2+/S	S	24	0/20 MS
115	KS010525-1-1	S	S				5 MS
116	KS010525-1-3	S	S				10 MS
117	KS04WKS-13	S	2/S.	S	S		30 MS
118	KS04WKS-24	S	S				5 MS
119	KS990002-2-4	;1-	2	2	S	24	0
120	KS990002-2-13	;1	2	2	S	24	0
121	KS06PYN2-21	S	2++	2+	2+	Tmp	0
122	KS990152-3-26	S	2+	2+	2+	Tmp	0
123	KS010514-6-11	21	S/2.	2-	S	24	0
124	NE05418	S;/1+	S				40 MS
125	NE05425	S	S				40 MS
126	NE05426	S	S				20 MS
127	NE05427	S	S				20 MS
128	NE05430	S	S				20 MR-MS
129	NE05495	S	S				40 MS-S

Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
130	NE05496	S	S				30 MS
131	NW05518	2;	2	2-	S	24	10 R
132	NE05523	2	2	2	S	24	10 R
133	NE05537	21	2	2-/S	2++	24+	0/40 S
134	NE05548	S	-	2+	2++	Tmp	10 R
135	NE05549	2;1	2	2	2++	24+	5 R
136	NE05558	S	2++	2++	2++	Tmp	40 MR-MS
137	NE05578	2;	;1/S	S/2	S	24	10 MS
138	NW05589	S/2	S				20 MR-MS
139	NW05643	S	S				50 MS-S
140	NE05699	2;	2	2	2+	24+	5 R
141	NI05713	2+;	2	2	S	24	10 R-MR
142	NE05453	S	S				20 MS
143	NE05459	S/2	S				40 MS
144	NE05567	2/S	S				10 MR
145	NE05568	S	S/2	S	S		30 MS
146	NE05569	S	S				30 MS
147	N98L20040-44	S	S/2+	2++	2++/S	Tmp	40 MS-S
148	NI06721	S	S				10 MS
149	NI06724	2+	2	2-	S	24	0
150	TAM-107	2	2	2	2+	1A.1R	5 R-MR
151	Karl 92	S	S				20 MR-MS
152	Arapahoe	2;	2	2	-	24	10 R-MR
153	McNair 701						60 S
154	Sisson						0
155	Red Chief						40 MS-S
156	NI06726	2;	2	2	S	24	T R
157	NI06731	;1/S	S				10 MR
158	NI06732	S	S				10 MS
159	NI06736	S	S				30 MS
160	NI06737	S	S				10 MR-MS
161	SD06021	S	2+	2+	2+	Tmp	T R
162	SD06067	S	S				20 MS
163	SD06069	S	S				30 MS
164	SD06111	2+/S	2	-	2++	24	10 MR-MS
165	SD06142	S	S				5 MR
166	SD06144	S	S				5 MS-S
167	SD06158	S	S				10 MS
168	SD06159	2++	2-	2	S	24	T R
169	SD06183	S	S/2	2/2++	S	?	10 MR-MS
170	SD03164-1	S	S				40 MS-S
171	SD03164-2	S	S				50 MS-S
172	SD03164-5	S	S				30 MS

Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
173	SD03184-1	S	S				30 MS
174	SD03184-4	S	S				30 MS
175	SD03188-2	S	S				40 MS-S
176	SD06W004	S	S				50 MS-S
177	SD06W010	S	S				40 MS
178	SD06W068	2+;	2	2	S	24	T R
179	SD06W075	S	S				40 MS
180	SD06W076	;1	2	2+	2+	?	T R
181	SD06W111	S	S				20 MR
182	SD06W112	S	S				T R
183	SD06W135	2	;1	2-/2+	2+	24+?	T R
184	SD06W158	2;	S				10 R
185	SD06W166	2/2+/S	S/2	S/2	S	24	5 R
186	SD06W185	0;/S	S				5 R
187	SD06W188	2+/S	2	2	S	24	5 R
188	SD06W193	2	S				5 R-MR
189	SD99W015-1	S	S				30 MS
190	SD03W005-2	S	S				30 MR-MS
191	NX05M4080-2	S	2+	2+	2+	Tmp	40 MS
192	NX05M4151-2	2	2	2-	2		20 R
193	NX05M4151-4	2+	2	2	S	24	20 R
194	NX05M4179-1	S	S/2	S	S		40 S
195	NX05M4179-2	2	2	2	2	24	T R
196	NX05M4179-4	S	S				20 S
197	NX05M4179-5	S	S/2+				T R
198	NX05M4180-2	S	S				30 S
199	NX05M4180-4	1/S	S				T MS
200	TAM-107						10 R
201	Karl 92						20 MR
202	Arapahoe						T R
203	McNair 701						-
204	Sisson						T R
205	Red Chief						40 MS
206	NX05M4180-5	2	2	2	S	24	5R/30 MS
207	NX05M4180-6	S/1;	2+/S	2	2+	24+	-
208	NX05M4180-7	S	S				20 MS-S
209	NX05M4223-2	S	2/S	S/2	S		60 MS
210	NX05M4223-4	S	2	2	S	24?	20 R-MR
211	NX05M4225-1	S	S				70 S
212	NX05M4225-2	S	2/S	2/S	S	24?	50 S
213	NX05M4251-1	S	S/;1	2-/S	S	24?	40 MR-MS
214	NX05M4391	S	S				50 S
215	NX05M4420-1	S/1;	S				50 S

Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
216	NX05M4462-6	S	S				20 MS-S
217	NX05M4469-2	S	S				40 S
218	NX05M4475-1	S	S/2+	S/2+	S	Tmp	60 MS-S
219	NX05M4477-1	S	2+	2+	-	Tmp	30 MS-S
220	NX05M4477-2	S	2+	2++	-	Tmp	50 MS-S
221	NX05M4499-1	S	S				40 MS-S
222	NX05M4501-2	S	S				40 MS-S
223	CO01385-A1	S	S				60 S
224	CO02W214	S	S				10 MR-MS
225	CO02W237	S	S				10 MR-MS
226	CO02W280	S	S				40 MS
227	CO03064	S	2	2	-	Tmp?	30 MR-MS
228	CO03443	;2/S	2/S	S/2-	-	?	20 MR
229	CO03W033	S	2++	2++	2+/S	Tmp	30 MR-MS
230	CO03W043	S	2	2+	2	Tmp?	30 MS
231	CO03W054	S	S				30 MR-MS
232	CO03W108	0;1 LIF	2	2-	-	?	5 R
233	CO03W127	S	S				10 MS
234	CO03W139	S	2	2	-	Tmp?	5 MR
235	CO03W146	S	2+/S	2+/S	-	Tmp	20 MR-MS
236	CO03W238	S	S				50 MS-S
237	CO03W239	S	S				30 MS
238	CO03W269	S	2+	2+	2	Tmp	20 MR-MS
239	MTS0531	S	S				40 MS-S
240	MTS0532	S	S				30 MS
241	MTCL0537	S	S				80 S
242	MT0552	2;	2	2-	S	24	20R-MR
243	MT0554	2+/S	2	2-	-	?	30 MR
244	MT0565	S	S				40 MS-S
245	MT0585	S	S				40 MS-S
246	MT0598	S	S				10 MR-MS
247	TX04A001243	2c	2	2	2++	24	T R
248	TX04A001244	1 LIF	2-	2	0;/2	?	T R
249	TX04A001246	1 LIF	;1	2-	1 LIF	?	T R
250	TAM-107	2	2	2+	2	1A.1R	5 R
251	Karl 92	S	S				30 MR
252	Arapahoe	2;	2				5 R
253	McNair 701						70 S
254	Sisson						T R
255	Red Chief						40 MS-S
256	TX04A001268	S	S				40 MS
257	TX04A001482	;1/2	2	2	2	1A.1R	5 MR
258	TX04A001529	S	2	2	-	Tmp	5 R



Table 5. Seedling and adult plant reactions to stem rust, 2007 RGON.

Entry	Line	Bulk	TTKS	TTKS repeat	TTKS w/Sr24V	Postulated gene	Adult plant response, 7/2/07, St. Paul, MN
		QFCS,QTHJ,RCRS, RKQQ,TPMK,TTTT	04KEN156/04	04KEN156/04	06KEN19v3	TTKS effective	
259	TX04A001585	S	S				20 MS
260	TX04A001756	S	S				20 MS
261	TX04A001771	S	2++	S	S		5 MR
262	TX04A001797	S	S				20 MR-MS
263	TX01V5134WC-2	:	0;	;1	1	?	0
264	TX01V5134RC-2	S	S				10 MR
265	TX01V5134RC-3	S	2	-	2-	?	0
266	TX04M410164	S	S				10 MG
267	TX04M410211	2	2	2	2+3	24	0
268	TX04V075080	S	S				0
269	TX04V077095	S	2+	2++	2+	Tmp	T R
270	TX05V071039	S	S				0
271	TX05V071040	S	S				0
272	TX05V072020	2;	2- LIF	2	-	?	T
273	TX05V072047	;1	S				0
274	TX05V072071	S	S				5 MR
275	TX05V072072	S	2	S	S		T R/40 S
276	TX05V072073	2+	2	2	-	?	0
277	TX05V072075	;1	2	1	2	?	0
278	TX05V073050	11+	2	1	S	24	0
279	TX05V073067	S	0	0	-	36?	0
280	TX05V074049	S	S				5 MR
281	TX05V074062	S	S				T R
282	TX05V074072	2+	2C	0	2-	?	0
283	TAM-107						T R
284	Karl 92						5 MR
285	Arapahoe						T R
286	NX05M4100-2	S	2-/S	;c/X-	2/S	Tmp?	0
287	NX05M4361-1	S	S				0
288	NX05M4449-1	S/2	2	2/S	2+	24+	0
289	NX05M4476-1	S	S				5 MS

Table 6. Field reactions to rust, 2007 RGON.

Entry	Line	Adult plant reactions to rust, TX		
		Bushland-Irr		Castroville
		Stripe rust	Leaf rust	Leaf rust
1	TAM-107	100S	tS	100S
2	Karl 92	tS	100S	100S
3	Arapahoe	80S	tR	10R
4	TAM 111	tR	80S	20R
5	TAM 112	100S	tS	30S
6	JAGGER	tR	100S	100S
7	KS03HW1-6	100S	tS	tR
8	KS05HW14-3	10R	20MS	tR
9	KS05HW14-4	10R	20MS	10R
10	KS05HW15-1	tR	tR	5R
11	KS05HW15-2	tR	tMR	tR
12	KS05HW15-5	20MR	tR	10R
13	KS05HW28-1	tR	20MSMR	tR
14	KS05HW28-4	tR	20MRMS	10R
15	KS05HW53-4	20S	20MR	tR
16	KS05HW55-3	20S	40MSS	tR
17	KS05HW121-1	20MS	40S	tR
18	KS05HW121-2	tR/20S	20S	tR
19	KS05HW122-5	20MS	20S	tR
20	KS05HW136-3	40MRR	tR	tMS
21	KS05HW162-3	40S	tR	tR
22	DUBYA	100S	tS	20MS
23	KS06HW79	tR	60S	10MR
24	KS06HW10	tR	tR	tR
25	KS06HW11	20R	tR	tR
26	KS06HW27	80S	tS	tR
27	KS06HW28	80S	tS	tR
28	KS06HW32	100S	tS	5MR
29	KS06HW37	100S	tS	tMS
30	KS06HW41	60MSMR	tR	tR
31	KS06HW43	60S	30S	80S
32	KS06HW45	20R	20S	100S
33	KS06HW46	20MS	40SMS	80S
34	KS06HW55	tR	40SMS	tR
35	KS06HW56	tR	40MS	40MR
36	KS06HW62	tR	tR	10MS
37	OK02405	10MRR	20MS	tR
38	OK03305	100S	tS	10MS
39	OK02125	tR/40S	60S	80S
40	OK03311	tR	80S	60S
41	OK03522	tR	10MS	10MS
42	OK04904C	tR	80S	20MR
43	OK05903C	tR	100S	80S
44	OK05905C	tR	100S	10MR
45	OK04505	20MS	20MS	tR
46	OK04108	tR	100S	100S
47	OK05830	tR	80S	40S
48	OK04507	tR	60S	20MR
49	OK04111	tR	60MSS	20R
50	TAM-107	100S	tS	100S

Table 6. Field reactions to rust, 2007 RGON.

Entry	Line	Stripe rust	Leaf rust	Leaf rust
51	Karl 92	tS	100S	80S
52	Arapahoe	60S	tR	20MR
53	TAM 111	tR	80S	40MS
54	TAM 112	100S	tS	60S
55	JAGGER	tR	100S	100S
56	OK04315	tR	40S	tR
57	OK04525	tR	20MS	30S
58	OK00514-05804	40SMS	20MS	20S
59	OK00514-05806	40SMS	20MS	20S
60	OK00611W	80S	10MS	20S
61	OK02522W	20S	40S	10MS
62	OK Bullet06ERU	40S	20S	30S
63	OK05737W	60S	20S	tMS
64	OK05741W	40S	10MS	30S
65	OK04726W	20MR	30SMS	30MR
66	OK04733W	tS	100S	60S
67	HV9W00-B1551WP	tS	100S	100S
68	HV9W02-112W	40S	60S	80S
69	HV9W02-267W	40S	60S	100S
70	HV9W02-271W	40MRMS	tR	tR
71	HV9W02-243W	20S	80S	100S
72	HV9W00-B243R	20S	20MS	40R
73	HV9W98A-1002R	tS	100S	30S
74	HV9W96-1271R-1	60MSS	tR	tR
75	HV9W03-280W-1	100S	tS	100S
76	HV9W03-280W-2	tS	100S	100S
77	HV9W03-282W-1	tS	100S	100S
78	HV9W03-282W-2	tS	100S	100S
79	HV9W03-1601R-1	tR/20S	tR	tR
80	HV9W03-1601R-2	30MSMR	40MS	10R
81	HV9W03-1379R-1	20MS	tR	tR
82	HV9W03-1379R-2	20MS	tR	tR
83	HV9W03-539R-1	20MS	tR	tR
84	HV9W03-539R-2	60S	tR	tR
85	HV9W03-540R-1	20MS	20MS	tR
86	HV9W03-540R-2	20MS	tR	tR
87	HV9W03-696R-1	20MR	10MRMS	tR
88	HV9W03-696R-2	40SMS	20MS	30MR
89	HV9W03-753R-1	20S	10MS	tR
90	HV9W03-753R-2	20S	20MS	tR
91	HV9W96-1271R-1	60S	20S	tR
92	HV9W02-267W	60S	40S	100S
93	HV9W98A-1002R	tS	100S	40MS
94	HV9W02-846R	tR	20MS	tR
95	U4387-1-1-6	100S	tS	tR
96	U4391-2-23-13	20MRMS	tR	tR
97	U4393A-1-16-10	80S	tR	tR
98	U4620R-3-8-7-10	80S	tR	10MS
99	U4658-2-8-13	tR	40MSS	tR
100	TAM-107	100S	tS	100S
101	Karl 92	20S	80S	40S
102	Arapahoe	80S	tR	tR

Table 6. Field reactions to rust, 2007 RGON.

Entry	Line	Stripe rust	Leaf rust	Leaf rust
103	TAM 111	tR	80S	20R
104	TAM 112	100S	tS	20MS
105	JAGGER	tR	100S	100S
106	U4658-2-8-15	tR	40MS	tR
107	U4808-1-1-17-8-10	tR	tR	tR
108	U4808-1-1-19-5-6-13	tR	tR	tR
109	U4808-4-3-26-1-39	20RMR	tR	tR
110	U4808-4-3-23-8-8	tR	tR	tR
111	U4808-4-3-19-3	100S	tS	tR
112	KS000183-3-1	20S	80S	60S
113	KS000183-3-2	30S	40MS	10R
114	KS010520-5-3	tR	tR	tR
115	KS010525-1-1	tR	10MR	tR
116	KS010525-1-3	tR	tR	10R
117	KS04WKS-13	20R/100S	tR	tR
118	KS04WKS-24	tR	tR	tR
119	KS990002-2-4	tR	100S	60S
120	KS990002-2-13	20MSMR	40MRMS	40MRMS
121	KS06PYN2-21	tR	20MS	10R
122	KS990152-3-26	20S	20S	tR
123	KS010514-6-11	20S	40S	20MS
124	NE05418	tR	100S	60MS
125	NE05425	10MS	tR	tR
126	NE05426	tMR	tMS	tR
127	NE05427	5MR	tR	tR
128	NE05430	100S	tS	80MRMS
129	NE05495	tS	100S	80S
130	NE05496	80S	20MS	30MSS
131	NW05518	40S	60S	40MR
132	NE05523	20MS	80S	20R
133	NE05537	tR/100S	tR	20MR
134	NE05548	80S	tR	20MR
135	NE05549	20S	60S	20MR
136	NE05558	100S	tS	20MSMR
137	NE05578	10MR	20MSMR	20MR
138	NW05589	20R	40S	tR
139	NW05643	tR	100S	60S
140	NE05699	tR	40MS	30MR
141	NI05713	tR	20MS	tR
142	NE05453	tR	10MR	10MS
143	NE05459	100S	tS	100S
144	NE05567	tR	60S	30S
145	NE05568	80S	20S	20MR
146	NE05569	tR	60S	10MR
147	N98L20040-44	80S	20S	20S
148	NI06721	tS	100S	40MS
149	NI06724	tS	100S	80S
150	TAM-107	100S	tS	80S
151	Karl 92	40S	60S	80S
152	Arapahoe	60S	tR	20MS
153	TAM 111	tR	100S	20MS
154	TAM 112	100S	tS	20S

Table 6. Field reactions to rust, 2007 RGON.

Entry	Line	Stripe rust	Leaf rust	Leaf rust
155	JAGGER	tR	100S	100S
156	NI06726	tS	100S	100S
157	NI06731	tS	100S	100S
158	NI06732	40S	20MS	40MRMS
159	NI06736	tR	tMR/60S	tR
160	NI06737	tR	60S	tR
161	SD06021	40RMR	40S	tR
162	SD06067	tR	20MS	tR
163	SD06069	tR	tR	10R
164	SD06111	40MRMS	20MS	10R
165	SD06142	20R	20RMR	tR
166	SD06144	tR	40MS	tR
167	SD06158	10MR	20S	tR
168	SD06159	tR	100S	tR
169	SD06183	tS	100S	20MS
170	SD03164-1	60S	tR	tR
171	SD03164-2	100S	tS	tR
172	SD03164-5	60S	20S	tR
173	SD03184-1	20R	60S	tR
174	SD03184-4	20R	60S	tR
175	SD03188-2	20R	30S	tR
176	SD06W004	20MS	60S	tR
177	SD06W010	30S	40S	tR
178	SD06W068	tR	80S	30S
179	SD06W075	tR	60S	60S
180	SD06W076	40S	60S	60MS
181	SD06W111	30MS	40MSS	30MSS
182	SD06W112	tS	100S	80S
183	SD06W135	80S	20S	20MS
184	SD06W158	20MS	40MR	20R
185	SD06W166	20R	60S	80S
186	SD06W185	tS	100S	80S
187	SD06W188	tS	100S	80S
188	SD06W193	20S	80S	80S
189	SD99W015-1	tR	30S	tR
190	SD03W005-2	20RMR	10MSMR	tR
191	NX05M4080-2	tR	20MSMR	tR
192	NX05M4151-2	30MRR	tMS	20MS
193	NX05M4151-4	tR	tR/100S	tR
194	NX05M4179-1	80S	tS	tR
195	NX05M4179-2	20MR	tR	tR
196	NX05M4179-4	80S	20MS	10R
197	NX05M4179-5	20MRR	20MS	tR
198	NX05M4180-2	tR	tR	tR
199	NX05M4180-4	tR	tR	tR
200	TAM-107	100S	tS	100S
201	Karl 92	40S	60S	100S
202	Arapahoe	80S	tR	40MR
203	TAM 111	tR	80S	10R
204	TAM 112	100S	tS	30S
205	JAGGER	tR	100S	80S
206	NX05M4180-5	40S	40S	20S

Table 6. Field reactions to rust, 2007 RGON.

Entry	Line	Stripe rust	Leaf rust	Leaf rust
207	NX05M4180-6	20MS	40MS	20S
208	NX05M4180-7	tR	80S	20MS
209	NX05M4223-2	30S	80S	100S
210	NX05M4223-4	20MS	40S	30S
211	NX05M4225-1	tR	60S	40S
212	NX05M4225-2	20S	80S	40S
213	NX05M4251-1	80S	20S	20S
214	NX05M4391	tR	20MS	10R
215	NX05M4420-1	40S	20S	10R
216	NX05M4462-6	30S	60S	tR
217	NX05M4469-2	100S	tS	40MS
218	NX05M4475-1	100S	tS	30MSS
219	NX05M4477-1	20S	80S	60S
220	NX05M4477-2	20S	80S	40S
221	NX05M4499-1	60S	tR	10R
222	NX05M4501-2	30MRMS	40S	30S
223	CO01385-A1	60S	20S	10R
224	CO02W214	tS	100S	40S
225	CO02W237	60S	20MS	60S
226	CO02W280	tS	100S	60S
227	CO03064	40S	60S	30MSS
228	CO03443	20S	80S	80S
229	CO03W033	80S	20S	40S
230	CO03W043	20R	60S	40MR
231	CO03W054	40RMR	20MS	20MS
232	CO03W108	tR	60S	20MR
233	CO03W127	100S	tS	80S
234	CO03W139	80S	20S	80S
235	CO03W146	80S	20S	40S
236	CO03W238	20MRMS	80S	60S
237	CO03W239	40RMR	40MS	20MR
238	CO03W269	40RMR	40MS	60MS
239	MTS0531	tR	60S	20R
240	MTS0532	tR	60S	10R
241	MTCL0537	80S	20S	80MS
242	MT0552	20S	80S	80S
243	MT0554	60S	20S	60S
244	MT0565	100S	tS	60S
245	MT0585	40S	60S	40MR
246	MT0598	tS	100S	40S
247	TX04A001243	tS	100S	20R
248	TX04A001244	20MS	60SMS	20R
249	TX04A001246	30SMS	tR	20MR
250	TAM-107	100S	tS	80S
251	Karl 92	20S	80S	80S
252	Arapahoe	60S	tR	20MS
253	TAM 111	tR	60SMS	40S
254	TAM 112	100S	tS	20S
255	JAGGER	tR	100S	100S
256	TX04A001268	tR	10MR	10R
257	TX04A001482	80S	tR	tR
258	TX04A001529	20R	tR	tR

Table 6. Field reactions to rust, 2007 RGON.

Entry	Line	Stripe rust	Leaf rust	Leaf rust
259	TX04A001585	40RMR	tR	tR
260	TX04A001756	80S	tR	tR
261	TX04A001771	tR	60MRR	40S
262	TX04A001797	tR	40S	tR
263	TX01V5134WC-2	tR	40MSMR	tR
264	TX01V5134RC-2	10MR	40MSMR	tR
265	TX01V5134RC-3	tR	20RMR	tR
266	TX04M410164	20MR	tR	10R
267	TX04M410211	10R	tR	10MS
268	TX04V075080	tR	tR	tR
269	TX04V077095	60S	20S	tR
270	TX05V071039	tR	10RMR	tR
271	TX05V071040	20MRMS	tR	tR
272	TX05V072020	20MSMR	tR	10R
273	TX05V072047	tR	tR	tR
274	TX05V072071	20RMR	tR	tR
275	TX05V072072	40S	tR	tR
276	TX05V072073	80S	tR	tR
277	TX05V072075	20R	tR	tR
278	TX05V073050	tR	60S	30S
279	TX05V073067	80S	20MS	tR
280	TX05V074049	80S	tR	tR
281	TX05V074062	tR	80S	60S
282	TX05V074072	60S	tR	tR
283	TAM-107	100S	tS	80S
284	Karl 92	40S	60S	80S
285	Arapahoe	60S	tR	tR
286	NX05M4100-2	tS	100S	NO LEAF
287	NX05M4361-1	20S	80S	60S
288	NX05M4449-1	60S	40S	40S
289	NX05M4476-1	20S	80S	10MR

Table 7. Acid soil tolerances, 2007 RGON.

Acid soil tolerance, Enid, OK: (pH = 4.6, 70 ppm Al, and Al saturation = 11%). Scale of 1 (highly tolerant) to 5 (highly susceptible), in which Jagger = 2.

Entry	Line	19-Mar	21-May
1	TAM-107	4	5
2	Karl 92	4	3
3	Arapahoe	3	2
4	OK Bullet	3	2
5	Deliver	5	4
6	Duster	2	1
7	KS03HW1-6	4	2
8	KS05HW14-3	5	4
9	KS05HW14-4	5	4
10	KS05HW15-1	4	3
11	KS05HW15-2	5	4
12	KS05HW15-5	5	4
13	KS05HW28-1	5	3
14	KS05HW28-4	5	5
15	KS05HW53-4	5	4
16	KS05HW55-3	3	3
17	KS05HW121-1	3	2
18	KS05HW121-2	3	3
19	KS05HW122-5	2	3
20	KS05HW136-3	3	1
21	KS05HW162-3	1	1
22	DUBYA	2	2
23	KS06HW79	5	4
24	KS06HW10	4	5
25	KS06HW11	4	5
26	KS06HW27	1	1
27	KS06HW28	2	1
28	KS06HW32	2	3
29	KS06HW37	3	1
30	KS06HW41	4	5
31	KS06HW43	4	2
32	KS06HW45	3	3
33	KS06HW46	3	4
34	KS06HW55	1	3
35	KS06HW56	1	2
36	KS06HW62	2	1
37	OK02405	3	5
38	OK03305	3	5
39	OK02125	2	2
40	OK03311	3	3
41	OK03522	2	2



Table 7. Acid soil tolerances, 2007 RGON.

42	OK04904C	2	3
43	OK05903C	4	5
44	OK05905C	4	3
45	OK04505	2	1
46	OK04108	3	4
47	OK05830	3	3
48	OK04507	2	2
49	OK04111	2	2
50	TAM-107	4	5
51	Karl 92	3	3
52	Arapahoe	3	3
53	OK Bullet	2	2
54	Deliver	5	4
55	Duster	2	1
56	OK04315	3	2
57	OK04525	1	3
58	OK00514-05804	3	3
59	OK00514-05806	3	2
60	OK00611W	3	3
61	OK02522W	3	3
62	OK Bullet06ERU	3	3
63	OK05737W	2	1
64	OK05741W	2	1
65	OK04726W	2	3
66	OK04733W	5	5
67	HV9W00-B1551WP	1	3
68	HV9W02-112W	3	3
69	HV9W02-267W	4	4
70	HV9W02-271W	2	2
71	HV9W02-243W	2	3
72	HV9W00-B243R	2	2
73	HV9W98A-1002R	5	5
74	HV9W96-1271R-1	1	1
75	HV9W03-280W-1	3	3
76	HV9W03-280W-2	2	3
77	HV9W03-282W-1	2	3
78	HV9W03-282W-2	2	4
79	HV9W03-1601R-1	2	3
80	HV9W03-1601R-2	1	3
81	HV9W03-1379R-1	2	2
82	HV9W03-1379R-2	2	2
83	HV9W03-539R-1	2	1
84	HV9W03-539R-2	2	1
85	HV9W03-540R-1	1	2
86	HV9W03-540R-2	1	2
87	HV9W03-696R-1	2	1

Table 7. Acid soil tolerances, 2007 RGON.

88	HV9W03-696R-2	2	2
89	HV9W03-753R-1	1	1
90	HV9W03-753R-2	1	3
91	HV9W96-1271R-1	1	1
92	HV9W02-267W	4	4
93	HV9W98A-1002R	4	5
94	HV9W02-846R	3	3
95	U4387-1-1-6	4	4
96	U4391-2-23-13	5	2
97	U4393A-1-16-10	5	3
98	U4620R-3-8-7-10	2	1
99	U4658-2-8-13	3	2
100	TAM-107	4	5
101	Karl 92	4	3
102	Arapahoe	3	2
103	OK Bullet	3	2
104	Deliver	5	5
105	Duster	1	1
106	U4658-2-8-15	4	4
107	U4808-1-1-17-8-10	2	3
108	U4808-1-1-19-5-6-13	3	3
109	U4808-4-3-26-1-39	4	5
110	U4808-4-3-23-8-8	4	2
111	U4808-4-3-19-3	4	2
112	KS000183-3-1	3	3
113	KS000183-3-2	3	2
114	KS010520-5-3	4	3
115	KS010525-1-1	3	3
116	KS010525-1-3	4	2
117	KS04WKS-13	3	2
118	KS04WKS-24	3	1
119	KS990002-2-4	3	2
120	KS990002-2-13	3	2
121	KS06PYN2-21	2	1
122	KS990152-3-26	3	3
123	KS010514-6-11	2	4
124	NE05418	3	3
125	NE05425	3	2
126	NE05426	3	2
127	NE05427	2	1
128	NE05430	4	3
129	NE05495	3	4
130	NE05496	3	2
131	NW05518	3	3
132	NE05523	5	4
133	NE05537	4	3

Table 7. Acid soil tolerances, 2007 RGON.

134	NE05548	3	1
135	NE05549	4	3
136	NE05558	4	3
137	NE05578	3	3
138	NW05589	3	1
139	NW05643	2	4
140	NE05699	3	1
141	NI05713	2	2
142	NE05453	1	2
143	NE05459	3	3
144	NE05567	4	2
145	NE05568	2	2
146	NE05569	2	2
147	N98L20040-44	4	5
148	NI06721	1	2
149	NI06724	1	3
150	TAM-107	4	5
151	Karl 92	4	4
152	Arapahoe	3	2
153	OK Bullet	2	2
154	Deliver	4	5
155	Duster	2	1
156	NI06726	2	3
157	NI06731	3	4
158	NI06732	2	1
159	NI06736	3	4
160	NI06737	3	4
161	SD06023	2	1
162	SD06067	5	3
163	SD06068	4	2
164	SD06111	5	4
165	SD06142	3	1
166	SD06144	1	2
167	SD06158	2	2
168	SD06159	4	4
169	SD06183	4	5
170	SD03164-1	3	1
171	SD03164-2	3	1
172	SD03164-5	3	2
173	SD03184-1	3	3
174	SD03184-4	4	2
175	SD03188-2	5	5
176	SD06W004	4	2
177	SD06W010	5	4
178	SD06W068	3	5
179	SD06W075	3	3

Table 7. Acid soil tolerances, 2007 RGON.

180	SD06W076	4	5
181	SD06W111	4	2
182	SD06W112	4	5
183	SD06W135	3	3
184	SD06W158	2	2
185	SD06W166	4	5
186	SD06W185	3	2
187	SD06W188	3	3
188	SD06W193	5	5
189	SD99W015-1	3	1
190	SD03W005-2	3	1
191	NX05M4080-2	3	3
192	NX05M4151-2	4	5
193	NX05M4151-4	4	4
194	NX05M4179-1	3	5
195	NX05M4179-2	4	5
196	NX05M4179-4	3	5
197	NX05M4179-5	3	3
198	NX05M4180-2	3	5
199	NX05M4180-4	4	2
200	TAM-107	4	5
201	Karl 92	3	3
202	Arapahoe	3	2
203	OK Bullet	2	2
204	Deliver	5	5
205	Duster	2	2
206	NX05M4180-5	3	5
207	NX05M4180-6	4	3
208	NX05M4180-7	4	5
209	NX05M4223-2	2	3
210	NX05M4223-4	3	4
211	NX05M4225-1	3	4
212	NX05M4225-2	4	4
213	NX05M4251-1	3	3
214	NX05M4391	3	1
215	NX05M4420-1	3	2
216	NX05M4462-6	4	3
217	NX05M4469-2	3	4
218	NX05M4475-1	2	2
219	NX05M4477-1	3	2
220	NX05M4477-2	3	4
221	NX05M4499-1	3	2
222	NX05M4501-2	4	1
223	CO01385-A1	2	2
224	CO02W214	3	2
225	CO02W237	3	4

Table 7. Acid soil tolerances, 2007 RGON.

226	CO02W280	3	2
227	CO03064	3	3
228	CO03443	5	5
229	CO03W033	4	2
230	CO03W043	5	3
231	CO03W054	3	1
232	CO03W108	1	2
233	CO03W127	4	5
234	CO03W139	4	4
235	CO03W146	5	5
236	CO03W238	3	3
237	CO03W239	3	3
238	CO03W269	4	2
239	MTS0531	4	3
240	MTS0532	4	3
241	MTCL0537	4	3
242	MT0552	3	4
243	MT0554	4	2
244	MT0565	5	4
245	MT0585	3	3
246	MT0598	2	3
247	TX04A001243	2	4
248	TX04A001244	4	4
249	TX04A001246	4	5
250	TAM-107	4	5
251	Karl 92	4	3
252	Arapahoe	4	2
253	OK Bullet	3	2
254	Deliver	5	5
255	Duster	1	2
256	TX04A001268	1	2
257	TX04A001482	2	1
258	TX04A001529	4	5
259	TX04A001585	1	3
260	TX04A001756	1	2
261	TX04A001771	2	3
262	TX04A001797	1	2
263	TX01V5134WC-2	3	3
264	TX01V5134RC-2	2	3
265	TX01V5134RC-3	2	2
266	TX04M410164	4	5
267	TX04M410211	3	1
268	TX04V075080	1	1
269	TX04V077095	4	4
270	TX05V071039	3	2
271	TX05V071040	3	4

Table 7. Acid soil tolerances, 2007 RGON.

272	TX05V072020	4	4
273	TX05V072047	4	4
274	TX05V072071	3	3
275	TX05V072072	2	1
276	TX05V072073	3	3
277	TX05V072075	5	5
278	TX05V073050	3	2
279	TX05V073067	3	2
280	TX05V074049	3	4
281	TX05V074062	2	3
282	TX05V074072	5	5
283	TAM-107	4	5
284	Karl 92	4	4
285	Arapahoe	4	2
286	NX05M4100-2	3	5
287	NX05M4361-1	1	1
288	NX05M4449-1	4	3
289	NX05M4476-1	3	3

Table 8. Winter-hardiness scores, 2007 RGON.

Winterhardiness: Williston, ND		
Entry	Line	Stand/Vigor (0-9)
25-May		
1	TAM-107	2
2	Karl 92	4
3	Arapahoe	5
4	Yellowstone	4
5	CDC Falcon	7
6	Rampart	3
7	KS03HW1-6	4
8	KS05HW14-3	3
9	KS05HW14-4	2
10	KS05HW15-1	3
11	KS05HW15-2	2
12	KS05HW15-5	3
13	KS05HW28-1	2
14	KS05HW28-4	3
15	KS05HW53-4	3
16	KS05HW55-3	3
17	KS05HW121-1	2
18	KS05HW121-2	3
19	KS05HW122-5	3
20	KS05HW136-3	4
21	KS05HW162-3	2
22	DUBYA	4
23	KS06HW79	4
24	KS06HW10	3
25	KS06HW11	4
26	KS06HW27	3
27	KS06HW28	2
28	KS06HW32	2
29	KS06HW37	4
30	KS06HW41	3
31	KS06HW43	4
32	KS06HW45	3
33	KS06HW46	3
34	KS06HW55	3
35	KS06HW56	3
36	KS06HW62	3
37	OK02405	3
38	OK03305	2
39	OK02125	4
40	OK03311	3
41	OK03522	3
42	OK04904C	4
43	OK05903C	3
44	OK05905C	3
45	OK04505	2
46	OK04108	2
47	OK05830	3
48	OK04507	2
49	OK04111	2
50	TAM-107	3
51	Karl 92	3
52	Arapahoe	5
53	Yellowstone	4
54	CDC Falcon	7
55	Rampart	5
56	OK04315	4
57	OK04525	3
58	OK00514-05804	3
59	OK00514-05806	3
60	OK00611W	3
61	OK02522W	3

Table 8. Winter-hardiness scores, 2007 RGON.

Entry	Winterhardiness: Williston, ND	
	Line	Stand/Vigor (0-9) 25-May
62	OK Bullet06ERU	2
63	OK05737W	2
64	OK05741W	2
65	OK04726W	2
66	OK04733W	3
67	HV9W00-B1551WP	3
68	HV9W02-112W	3
69	HV9W02-267W	3
70	HV9W02-271W	5
71	HV9W02-243W	5
72	HV9W00-B243R	5
73	HV9W98A-1002R	4
74	HV9W96-1271R-1	3
75	HV9W03-280W-1	5
76	HV9W03-280W-2	4
77	HV9W03-282W-1	4
78	HV9W03-282W-2	5
79	HV9W03-1601R-1	3
80	HV9W03-1601R-2	3
81	HV9W03-1379R-1	3
82	HV9W03-1379R-2	5
83	HV9W03-539R-1	5
84	HV9W03-539R-2	5
85	HV9W03-540R-1	5
86	HV9W03-540R-2	5
87	HV9W03-696R-1	4
88	HV9W03-696R-2	5
89	HV9W03-753R-1	3
90	HV9W03-753R-2	3
91	HV9W96-1271R-1	3
92	HV9W02-267W	2
93	HV9W98A-1002R	3
94	HV9W02-846R	3
95	U4387-1-1-6	3
96	U4391-2-23-13	3
97	U4393A-1-16-10	3
98	U4620R-3-8-7-10	2
99	U4658-2-8-13	2
100	TAM-107	3
101	Karl 92	4
102	Arapahoe	6
103	Yellowstone	5
104	CDC Falcon	7
105	Rampart	4
106	U4658-2-8-15	4
107	U4808-1-1-17-8-10	4
108	U4808-1-1-19-5-6-13	4
109	U4808-4-3-26-1-39	2
110	U4808-4-3-23-8-8	3
111	U4808-4-3-19-3	2
112	KS000183-3-1	2
113	KS000183-3-2	3
114	KS010520-5-3	3
115	KS010525-1-1	5
116	KS010525-1-3	4
117	KS04WKS-13	3
118	KS04WKS-24	2
119	KS990002-2-4	3
120	KS990002-2-13	4
121	KS06PYN2-21	3
122	KS990152-3-26	2



Table 8. Winter-hardiness scores, 2007 RGON.

Winterhardiness: Williston, ND		
Entry	Line	Stand/Vigor (0-9)
25-May		
123	KS010514-6-11	4
124	NE05418	4
125	NE05425	4
126	NE05426	4
127	NE05427	4
128	NE05430	3
129	NE05495	3
130	NE05496	4
131	NW05518	4
132	NE05523	4
133	NE05537	4
134	NE05548	6
135	NE05549	5
136	NE05558	4
137	NE05578	4
138	NW05589	4
139	NW05643	5
140	NE05699	4
141	NI05713	5
142	NE05453	4
143	NE05459	5
144	NE05567	5
145	NE05568	4
146	NE05569	4
147	N98L20040-44	5
148	NI06721	4
149	NI06724	4
150	TAM-107	4
151	Karl 92	4
152	Arapahoe	6
153	Yellowstone	4
154	CDC Falcon	7
155	Rampart	5
156	NI06726	4
157	NI06731	4
158	NI06732	6
159	NI06736	4
160	NI06737	4
161	SD06021	5
162	SD06067	5
163	SD06069	7
164	SD06111	5
165	SD06142	6
166	SD06144	5
167	SD06158	7
168	SD06159	6
169	SD06183	5
170	SD03164-1	5
171	SD03164-2	5
172	SD03164-5	4
173	SD03184-1	4
174	SD03184-4	6
175	SD03188-2	5
176	SD06W004	4
177	SD06W010	2
178	SD06W068	4
179	SD06W075	5
180	SD06W076	4
181	SD06W111	6
182	SD06W112	6
183	SD06W135	6

Table 8. Winter-hardiness scores, 2007 RGON.

Winterhardiness: Williston, ND		
Entry	Line	Stand/Vigor (0-9) 25-May
184	SD06W158	5
185	SD06W166	6
186	SD06W185	4
187	SD06W188	5
188	SD06W193	6
189	SD99W015-1	5
190	SD03W005-2	5
191	NX05M4080-2	4
192	NX05M4151-2	5
193	NX05M4151-4	4
194	NX05M4179-1	4
195	NX05M4179-2	4
196	NX05M4179-4	5
197	NX05M4179-5	5
198	NX05M4180-2	4
199	NX05M4180-4	4
200	TAM-107	4
201	Karl 92	4
202	Arapahoe	6
203	Yellowstone	5
204	CDC Falcon	6
205	Rampart	4
206	NX05M4180-5	1
207	NX05M4180-6	1
208	NX05M4180-7	2
209	NX05M4223-2	3
210	NX05M4223-4	2
211	NX05M4225-1	3
212	NX05M4225-2	3
213	NX05M4251-1	3
214	NX05M4391	4
215	NX05M4420-1	3
216	NX05M4462-6	2
217	NX05M4469-2	2
218	NX05M4475-1	3
219	NX05M4477-1	4
220	NX05M4477-2	3
221	NX05M4499-1	3
222	NX05M4501-2	4
223	CO01385-A1	3
224	CO02W214	3
225	CO02W237	3
226	CO02W280	3
227	CO03064	3
228	CO03443	4
229	CO03W033	3
230	CO03W043	3
231	CO03W054	3
232	CO03W108	4
233	CO03W127	3
234	CO03W139	3
235	CO03W146	3
236	CO03W238	2
237	CO03W239	3
238	CO03W269	3
239	MTS0531	5
240	MTS0532	4
241	MTCL0537	3
242	MT0552	6
243	MT0554	5
244	MT0565	6

Table 8. Winter-hardiness scores, 2007 RGON.

Winterhardiness: Williston, ND		
Entry	Line	Stand/Vigor (0-9) 25-May
245	MT0585	5
246	MT0598	7
247	TX04A001243	4
248	TX04A001244	2
249	TX04A001246	2
250	TAM-107	3
251	Karl 92	4
252	Arapahoe	6
253	Yellowstone	5
254	CDC Falcon	7
255	Rampart	4
256	TX04A001268	3
257	TX04A001482	4
258	TX04A001529	3
259	TX04A001585	4
260	TX04A001756	5
261	TX04A001771	4
262	TX04A001797	4
263	TX01V5134WC-2	5
264	TX01V5134RC-2	4
265	TX01V5134RC-3	4
266	TX04M410164	4
267	TX04M410211	5
268	TX04V075080	3
269	TX04V077095	2
270	TX05V071039	5
271	TX05V071040	5
272	TX05V072020	4
273	TX05V072047	2
274	TX05V072071	3
275	TX05V072072	4
276	TX05V072073	3
277	TX05V072075	5
278	TX05V073050	4
279	TX05V073067	4
280	TX05V074049	4
281	TX05V074062	4
282	TX05V074072	2
283	TAM-107	5
284	Karl 92	5
285	Arapahoe	6
286	NX05M4100-2	4
287	NX05M4361-1	5
288	NX05M4449-1	5
289	NX05M4476-1	4

Program	Vigor Avg.
KSU-Hays	3.4
OSU	4.0
WestBred	5.7
ARS-Manhattan	4.5
KSU-Manhattan	6.8
UNL	4.2
SDSU	
ARS-LNK	
CSU	
MSU	
TAMU	3.8