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Table 1. Location notes, and local checks, 2002 RGON.

Test/location	notes
Acid soil tolerance, Stillwater, OK	lost, drought
Leaf rust, Beeville, TX	lost
Drought tolerance, Mark Lazar, Texas A&M, Bushland, TX	Ratings taken May 28 and 29, 2002. Ratings are on a 0-5 scale, referring to the flag leaf, where 0 = green, flat leaf, 1 = green, rolled leaf, 2 = tip of leaf necrotic, 3 = less than half of leaf necrotic, 4 = more than half of leaf necrotic, and 5 = dead leaf.
Winter hardiness, Williston, ND (Jim Berg and Phil Bruckner, Montana St. U.)	local checks: 1=Morgan, 2=Big Sky, 3=Rampart
Winter hardiness, Watertown, SD (Amir Ibrahim, So. Dakota St. U.)	local checks: 1=Harding, 2=SD97457, 3=Jagger
Winterhardiness, Mead, NE	no winterkill
Hessian fly resistance, Elburn Parker, USDA-ARS, Manhattan, KS	local checks = Karl 92 (S), Ike (R), Caldwell (R) and Magnum (R)
Seedling leaf rust, Bob Hunger and Jeanmarie Verchot, Oklahoma St. U., Stillwater, OK	Reaction to leaf rust was determined on seedlings inoculated with a mixture of Puccinia triticina spores collected in Oklahoma during spring, 2000, and from southern Texas in 2001. The avirulence/virulence formula of this mixture on aset of single-gene differentials plus selected cultivars was: 19 / 1 2a 2c 3 3ka 9 11 16 17 24 26 30 DNE CTY SXL.Reactions were obtained using Stakeman's rating system (USDA Bull. #E617, 1962,53 pp) and translated for reporting to the following scale:S=susceptible (Stakeman's 3 3- 3+ 4 3+c)MS=moderately susceptible (Stakeman's X3; 3= 3=c 3-c 3-n 3c 3n) MR=moderately resistant (Stakeman's X;3= X;3- X;3=c X;3-n X;3-c 3=n) R=resistant (Stakeman's 0 ; 1 X;3=n X;1). Local checks: 1=Hawk, 2=Sierra, 3=Vona.
Seedling stem rust, Don McVey, USDA-ARS, St. Paul, MN	local checks: 1&2=RedChief, 3=Cheyenne
WSBMV, Bob Hunger and Jeanmarie Verchot, Oklahoma St. U., Stillwater, OK	One, 1-ft row of each entry was rated for WSBMV symptoms in March, 2002 where:1=no mosaic, 2=slight mosaic and/or slight stunting, 3=moderate mosaic and/or moderate stunting, 4=severe mosaic and/or severe stunting

Table 1. Location notes, and local checks, 2002 RGON.

Test/location	notes
WSMV, Joe Martin and Clayton Seaman, Kansas St. U., Hays, KS	local checks:1=KS96W10-3, 2=Trego & 3=Ike
Russian wheat aphid, Scott Haley, Colorado State U., Akron, CO	Local checks: 1=Prowers 99, 2=Akron, 3=Halt
Russian wheat aphid, Cheryl Baker and Dave Porter, USDA-ARS, Stillwater, OK	This test was planted in three groups. Group I: Entries #1-96 Group II: Entries #97-191 Group III: Entries #192-277 Group I Group II Group III -Plants were clipped to approximately 4" tall one week before rating -Local checks were 1) STARS2001RWA-1102 (RR), 2) STARS2001RWA-1131 (RR), 3) STARS2001RWA-1030 (M). -The rating scale was S (susceptible); M (moderate-some chlorosis and stunting, no leaf rolling); R (resistant-minor injury); and RR (highly resistant-no injury); if lines were segregating actual numbers are indicated.
Greenbug, Cheryl Baker and Dave Porter, USDA-ARS, Stillwater, OK	This test was planted in two groups. Group I: Entries #1- 144 Group II: Entries 145-277 -Plants were clipped to approximately 4" tall one week prior to rating. -Local checks were 1) Custer (S), 2) Largo (R), 3) Amigo (S). -The rating scale was S (susceptible); R (resistant).
Fusarium head blight, Julie Schimelfenig and Steve Baenziger, U. of Nebraska, Mead, NE	artificial inoculum and misting. Local check 1, 2 & 3 = NE422T triticale
Fusarium head blight, Amir Ibrahim, So. Dakota St., Brookings, SD	FHB ratings are based on a 0-9 scale. Incidence (Inc%) is the number of infected ears. Severity (Sev%) is the average of the scab ratings * 10. Disease Index (Dis%) is incidence * severity/100. local checks: 1=Harding, 2=SD97457, 3=Jagger

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Table 2. Entries in the 2002 Regional Germplasm Observation Nursery (RGON).

Entry	Line	putative market class	Cultivar or pedigree	Source
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	G982002	HRW	CG14404/JAGGER	Goertzen Seed
8	G982159	HRW	G2500/KARL 92	Goertzen Seed
9	G982241	HRW	N87V107/BETTY	Goertzen Seed
10	G981043W	HWW	CG14404/JAGGER	Goertzen Seed
11	G982094W	HWW	CG14070/KARL 92	Goertzen Seed
12	G980003	HRW	NE91608/KARL 92	Goertzen Seed
13	G980039	HRW	G1878/JAGGER	Goertzen Seed
14	G980129W	HWW	CG14106/KARL 92	Goertzen Seed
15	G980143	HRW	TONKAWA/JAGGER	Goertzen Seed
16	G980938	HRW	CG94763/KARL 92	Goertzen Seed
17	G980354W	HWW	G3006/ARLIN	Goertzen Seed
18	G980578	HRW	HART/TITAN//CG30186/3/FILLMORE/4/KARL 92	Goertzen Seed
19	G980822	HRW	AUST25211/TXV6180//CG20020/3/KARL 92	Goertzen Seed
20	G980866	HRW	CG9122086/JAGGER	Goertzen Seed
21	G980926W	HWW	95CGT-96WD (BULK POPULATION)	Goertzen Seed
22	G982048	HRW	AC465/CG30288D//CG50384B/3/JAGGER	Goertzen Seed
23	G982238	HRW	N87V107/BETTY	Goertzen Seed
24	G980984	HRW	CG9328706/KARL 92//R17105	Goertzen Seed
25	G980122	HRW	RMNF12-71/JUPS-1-2/CG17064//KARL 92	Goertzen Seed
26	G980172W	HWW	SNOWWHITE/IKE	Goertzen Seed
27	G980234W	HWW	CG13024/JAGGER	Goertzen Seed
28	G980258	HRW	TONKAWA/JAGGER	Goertzen Seed
29	G980411W	HWW	G3006/ARLIN	Goertzen Seed
30	G980723	HRW	94CGT-96HV (BULK POPULATION)	Goertzen Seed
31	G982131W	HWW	AC465/CG30288D//CG50384B/3/JAGGER	Goertzen Seed
32	G980846	HRW	HUTCH58K/HAVEN	Goertzen Seed
33	G980871	HRW	CG14014/SNOWWHITE	Goertzen Seed
34	G980927	HRW	TONKAWA/JAGGER	Goertzen Seed
35	G980933	HRW	KARL 92/CG12023	Goertzen Seed
36	G982163	HRW	CUSTER/JAGGER	Goertzen Seed
37	KS00HW32-1	HWW	94HW115/94HW131(84HW196/RB//HBY762A)	KSU, Hays
38	KS00HW34-5	HWW	94HW115/94HW131(84HW196/RB//HBY762A)	KSU, Hays
39	KS00HW35-1	HWW	94HW115/94HW131(84HW196/RB//HBY762A)	KSU, Hays
40	KS00HW35-2	HWW	94HW115/94HW131(84HW196/RB//HBY762A)	KSU, Hays
41	KS00HW35-3	HWW	94HW115/94HW131(84HW196/RB//HBY762A)	KSU, Hays
42	KS00HW65-1	HWW	94HW100/94HW115(HBA142A/HBZ621A//RB)	KSU, Hays
43	KS00HW65-2	HWW	94HW100/94HW115(HBA142A/HBZ621A//RB)	KSU, Hays
44	KS00HW65-5	HWW	94HW100/94HW115(HBA142A/HBZ621A//RB)	KSU, Hays
45	KS00HW114-1	HWW	94HW117//JGR/94HW301	KSU, Hays
46	KS00HW114-5	HWW	94HW117//JGR/94HW301	KSU, Hays
47	KS00HW115-4	HWW	94HW117//JGR/94HW301	KSU, Hays

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Entry	Line	putative market class	Cultivar or pedigree	Source
48	KS00HW115-5	HWW	94HW117//JGR/94HW301	KSU, Hays
49	KS00HW151-1	HWW	94H871//VTA/94HW301	KSU, Hays
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	KS00HW151-3	HWW	94H871//VTA/94HW301	KSU, Hays
57	KS00HW151-4	HWW	94H871//VTA/94HW301	KSU, Hays
58	KS00HW152-1	HWW	94H871//VTA/94HW301	KSU, Hays
59	KS00HW152-2	HWW	94H871//VTA/94HW301	KSU, Hays
60	KS00HW152-5	HWW	94H871//VTA/94HW301	KSU, Hays
61	KS00HW171	HWW	ARL/89H20	KSU, Hays
62	KS00HW175	HWW	ARL/89H20	KSU, Hays
63	KS00HW177	HWW	ARL/89H20	KSU, Hays
64	KS00HW183	HWW	ARL/89H20	KSU, Hays
65	KS01HW50	HWW	94HW123-5/BTY SIB	KSU, Hays
66	KS01HW54	HWW	94HW123-5/BTY SIB	KSU, Hays
67	KS01HW55	HWW	94HW123-5/BTY SIB	KSU, Hays
68	KS01HW61	HWW	NZBG/94HW77//TREGO	KSU, Hays
69	KS01HW62	HWW	NZBG/94HW77//TREGO	KSU, Hays
70	KS01HW63	HWW	NZBG/94HW77//TREGO	KSU, Hays
71	KS01HW64	HWW	NZBG/94HW77//TREGO	KSU, Hays
72	KS01HW66	HWW	NZBG/94HW123//TREGO	KSU, Hays
73	SD97059-2	HRW	ND8889/NE90574	South Dakota St.
74	SD97184-1	HRW	ND8974/HBF0441-132	South Dakota St.
75	SD97250-2	HRW	ND90109/NE87613	South Dakota St.
76	SD97337-1	HRW	ND9118/SD89333	South Dakota St.
77	SD97380-2	HRW	Rawhide/Siouxland	South Dakota St.
78	SD92107-5-1	HRW	Brule//Bennett/Chisholm/3/Arapahoe	South Dakota St.
79	SD99075	HRW	SD92203/Arapahoe	South Dakota St.
80	SD99096	HRW	VBF0168/NE90524	South Dakota St.
81	SD97089-1	HRW	ND89142//ND85137/KS87H6	South Dakota St.
82	SD97532-2	HRW	Arapahoe/KS87W822-2-1	South Dakota St.
83	SD99074	HRW	SD92124/Arapahoe//Custer/Arapahoe	South Dakota St.
84	SD92107-6-2	HRW	Brule//Bennett/Chisholm/3/Arapahoe	South Dakota St.
85	NW01L2019	HWW	NW97S151-sel	ARS-Lincoln
86	NW01L2021(=NW97S412-1)	HWW	NW97S412-sel	ARS-Lincoln
87	NW01L2022	HWW	NW97S412-sel	ARS-Lincoln
88	NW01L2023	HWW	NW97S412-sel	ARS-Lincoln
89	NW01L2024	HWW	NW97S154-sel	ARS-Lincoln
90	NW01L2028(=NW97S142-1)	HWW	NW97S142-sel	ARS-Lincoln
91	NW01L2032	HWW	NW97S142-sel	ARS-Lincoln
92	NW01L2033	HWW	NW97S142-sel	ARS-Lincoln
93	NW01L2036	HWW	NW97S142-sel	ARS-Lincoln
94	NW01L2038(=NW97S139-1)	HWW	NW97S139-sel	ARS-Lincoln

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Entry	Line	putative market class	Cultivar or pedigree	Source
95	NW01L2039(=NW97S139-2)	HWW	NW97S139-sel	ARS-Lincoln
96	NE00403	HRW	PRONGHORN/ARLIN//ABILENE	Univ. Nebraska
97	NE00429	HRW	WI87-018/2*ARAPAHOE	Univ. Nebraska
98	NE00435	HRW	WI87-018/2*ARAPAHOE	Univ. Nebraska
99	NE00439	HRW	KS831936 - 3 / NE86501 / / TX86V1405 - 1	Univ. Nebraska
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	NE00456	HRW	FRANKENMUTH/NE92638 (=AURORA 2*/TAM101//REDLAND)//PRONGHORN=CENTURA/DAWN//COLT sib	Univ. Nebraska
107	NE00469	HRW	KRASNODASKAYA/NE92522 (=REDLAND/NE82419)//PRONGHORN=CENTURA/DAWN//COLT sib	Univ. Nebraska
108	NE00479	HRW	IL85-3132-1/ARAPAHOE	Univ. Nebraska
109	NE00481	HRW	NE93462 (=ARAPAHOE/NA HW-81-170)/NE92608 (=NE82413/COLT)	Univ. Nebraska
110	NE00507	HRW	KS831936 - 3 / NE86501 / / TX86V1405 - 1	Univ. Nebraska
111	NE00525	HRW	PRC3338/NE90479 (=KS83H2510 H11/REDLAND)//NE90616 (=ARAPAHOE/COLT)	Univ. Nebraska
112	NE00544	HRW	SD89180/KARL 92	Univ. Nebraska
113	NE00556	HRW	NE93462 (=ARAPAHOE/NA HW-81-170)/NE90616 (=ARAPAHOE/COLT)	Univ. Nebraska
114	NE00564	HRW	T81/NE91635 (=NE82761/NE82599)	Univ. Nebraska
115	NE00611	HRW	NE93646 (=KARL/ARAPAHOE SIB.//COLT)/NE90476 (=BENNETT/REDLAND)	Univ. Nebraska
116	NE00616	HRW	NE93462 (=ARAPAHOE/NA HW-81-170)/NE92608 (=NE82413/COLT)	Univ. Nebraska
117	NE00624	HRW	RUSS L93.-72/ALLIANCE	Univ. Nebraska
118	NE00633	HRW	NE92614 (=CENTURA/RL8200003)/IKE	Univ. Nebraska
119	NE00639	HRW	MS POP/2*REDLAND//2*ARAPAHOE	Univ. Nebraska
120	NE00658	HRW	NE93462 (=ARAPAHOE/NA HW-81-170)/NE92608 (=NE82413/COLT)	Univ. Nebraska
121	NE00679	HRW	NE93462 (=ARAPAHOE/NA HW-81-170)/NE90616 (=ARAPAHOE/COLT)	Univ. Nebraska
122	NE00687	HRW	IL85-3132-1/NE92529/RAW1B93	Univ. Nebraska
123	NE00698	HRW	NE93462 (=ARAPAHOE/NA HW-81-170)/NE92608 (=NE82413/COLT)	Univ. Nebraska
124	NW97S277	HWW	Pronghorn/Arlin	ARS-Lincoln
125	NW99L7083	HWW	KS84HW1968*RioBlanco/HBY762A//Halt	ARS-Lincoln
126	KS950337-II-2	HRW	HBC458G-2/ARAPAHOE//HBF0290	KSU, Manhattan
127	KS950352-M-4	HRW	X87581L-1-1/KS84063-9-39-3-27//KARL 92	KSU, Manhattan
128	KS950369-C-4	HRW	CLK/X86035*-BB-24//TOMAHAWK	KSU, Manhattan
129	KS950369-C-6	HRW	CLK/X86035*-BB-24//TOMAHAWK	KSU, Manhattan
130	KS950404-A-4	HRW	HBK0935W-21/IKE//KS92H408-6	KSU, Manhattan
131	KS950409-P-4	HRW	HBK0935W-24/KS84W063-9-34-3-2//X85W663-11-6-1	KSU, Manhattan
132	KS950412-F-1	HRW	HBK0935W-24/KS84W063-9-34-3-2//KARL 92	KSU, Manhattan
133	KS950412-F-2	HRW	HBK0935W-24/KS84W063-9-34-3-2//KARL 92	KSU, Manhattan
134	KS950412-F-7	HRW	HBK0935W-24/KS84W063-9-34-3-2//KARL 92	KSU, Manhattan
135	KS950412-F-8	HRW	HBK0935W-24/KS84W063-9-34-3-2//KARL 92	KSU, Manhattan
136	KS950446-F-2	HRW	3080 2-231/KARL 92//KS92H408-6	KSU, Manhattan
137	KS950446-N-3	HRW	3080 2-231/KARL 92//KS92H408-6	KSU, Manhattan
138	KS950447-G-6	HRW	3080 2-231/ARAPAHOE//KS84063-9-39-3-27	KSU, Manhattan
139	KS950334-T-4	HRW	HBC458G-2/KS84063-9-39-3-27//HBF0290	KSU, Manhattan
140	KS950351-GG-1	HRW	X87581L-1-1/KS84063-9-39-3-27//KS84063-9-39-3-27	KSU, Manhattan
141	KS950423-I-1	HRW	474S10-1/HBC059E//KSU94U284	KSU, Manhattan

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142	KS950493-A-2	HRW	KS93U7/KS84063-9-39-3-27//X86036*-AX-11	KSU, Manhattan
143	KS95W175-2	HWW	X85W663-11-6-1-11/KS84063-9-39-3-4W	KSU, Manhattan
144	KS95W175-3	HWW	X85W663-11-6-1-11/KS84063-9-39-3-4W	KSU, Manhattan
145	OK99602	HRW	Lut12688/Karl 92	Oklahoma St. Univ.
146	OK99610	HRW	2174/AgSeco 7853	Oklahoma St. Univ.
147	OK99216	HRW	AgSeco 7853/2*2174	Oklahoma St. Univ.
148	OK99207	HRW	Karl/2*2174	Oklahoma St. Univ.
149	OK99124	HRW	Tonkawa/Zombor//Karl 92	Oklahoma St. Univ.
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	OK99219	HRW	OK91P609/Cimarron//2174	Oklahoma St. Univ.
157	OK99215	HRW	AgSeco 7853/2*2174	Oklahoma St. Univ.
158	OK99115	HRW	KS92WGRC26/Tonkawa	Oklahoma St. Univ.
159	OK99133	HRW	Tonkawa//2*Karl 92/Century awnless	Oklahoma St. Univ.
160	OK99203	HRW	Karl/Lut7086//2174	Oklahoma St. Univ.
161	OK99212	HRW	Tomahawk/2174//Tonkawa	Oklahoma St. Univ.
162	TX00A0012		(X95V008) CO880169/3/PSN'S'/BOW'S'//TAM200	Texas A&M
163	TX00A0035		(X95V047) HBZ374C/N94V217	Texas A&M
164	TX00A0059		(X95V062) JAGGER/TX90V6313	Texas A&M
165	TX00A0112		(X95V091) KS91H153-2/TAM202	Texas A&M
166	TX00A0155		(X95V139) OGALLALA/HBE0726-1	Texas A&M
167	TX00A0174		(X95V159) TAM200/TX84V4094-16	Texas A&M
168	TX00A0181		(X95V172) TAM201//TX86V1540/ABILENE	Texas A&M
169	TX00A0192		(X95V176) TAM202/KS93U206	Texas A&M
170	TX00A0198		(X95V181) TAM202//TX86V1540/ABILENE	Texas A&M
171	TX00A0235		(X95V227) TX89V4132/K92	Texas A&M
172	TX00A0241		(X95V230) TX89V4132/TX91V5929	Texas A&M
173	TX00A0294		(X95V279) TX91A590/OGALLALA	Texas A&M
174	TX00A0307		(X95V286) TX91D7006/TX91A438	Texas A&M
175	TX00A0390		(X97V427) TX85V1830/TX84V1307//TX86V1540/TX81V6607-2	Texas A&M
176	TX00A0391		(X97V427) TX85V1830/TX84V1307//TX86V1540/TX81V6607-2	Texas A&M
177	TX00A0413		(X95V473) TAM200/FUNDULEA//TX90V8410	Texas A&M
178	TX00A0414		(X95V473) TAM200/FUNDULEA//TX90V8410	Texas A&M
179	TX00A0419		(X95V477) TX86V1540/TAM200'S'//ARLIN	Texas A&M
180	TX00A0440		(X95V490) TAM200 BC41254-1-5-1-1/TX38949-2//K92	Texas A&M
181	TX00A0442		(X95V490) TAM200 BC41254-1-5-1-1/TX38949-2//K92	Texas A&M
182	TX00A0448		(X95V493) TAM200 BC41254-1-5-1-1/TX38949-2//TX92V4536	Texas A&M
183	TX00A0489		(X95V530) U1254-4-9-8-V25/TX92V4536	Texas A&M
184	TX00A0515		(X95V580) TAM200BC41254-1-5-1-1/TX89V4213//TX91V4931	Texas A&M
185	TX00A0606		(X95V636) U1254-4-9-8/TX91V4931	Texas A&M
186	TX00A0658		(X95V703) X94V335/TX91A438	Texas A&M
187	TX00A0673		(X95V726) X94V455/JAGGER	Texas A&M
188	TX00A0690		(X95V772) X94V505//TAM200/FUNDULEA	Texas A&M

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189	TX00A0764		(X95V871) X94V851/TAM202	Texas A&M
190	TX99A0562-2		X93VT749/TX89D9627	Texas A&M
191	TX01A5936		JAGGER/3/PSN 'S'/BOW 'S'//T200	Texas A&M
192	TX99A0638		(X92V587)TAM-200/4/INIA/A.DIST/	Texas A&M
193	TX99A0655		TX78V2430-2/TX86V1540(TX90V7911	Texas A&M
194	TX99A6235		MADSEN/TX87V1233//KARL	Texas A&M
195	TX99A6611		TX87A6763/3/TX86V1540//LIND/TAN'S' (SWM13201)	Texas A&M
196	TX98A0116		TX91A311/U1254-1-5-2-5-V46	Texas A&M
197	TX99A0017		CO880054/TX78A3345-V34	Texas A&M
198	TX99A0025		HBC208/TX90V6329	Texas A&M
199	TX99A0214		TX87V1613/TX91V4931	Texas A&M
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	TX99A0216		TX87V1613//CHISHOLM/KS831957	Texas A&M
207	TX99A6030		KARL/TX84V19053/3/TX81V6603//SXL/AURORA	Texas A&M
208	TX99A6634		KARL/TX84V1905/3/TX81V6603//SXL/AURORA	Texas A&M
209	TX97V2835		U1254-1-5-2-1/TX81V6582	Texas A&M
210	TX97V2836		U1254-1-5-2-1/TX81V6582	Texas A&M
211	TX98V6612		U1254-4-7-2/DONG XIE4	Texas A&M
212	TX95V5314		TX87V15434/TX84V1317	Texas A&M
213	TX97V2824		TX85V1830/TX84V1307	Texas A&M
214	TX98VR8431		PI137739/3*TAM-202-(15R-12)-H5080-1GH	Texas A&M
215	TX99A0023		CO880169/TX92V3107(TAM-2	Texas A&M
216	TX99A0026		HBC208/TX90V6329	Texas A&M
217	TX99A0154		OGALLALA/TAM-202	Texas A&M
218	TX99A0247		TX90V6316/TX91A438	Texas A&M
219	TX99A6434		TX86V1540/TX90A9524	Texas A&M
220	NNS-GP90-14		TX86A8072/TX86A5606	Texas A&M
221	NNS-GP90-13		TX86A8072/TX86A5606	Texas A&M
222	TX97V5304		U1254-7-9-2-1/TXGH10440	Texas A&M
223	TX99V1813		TX88A6533/TX90V7912	Texas A&M
224	TX99V2413		X92V056 (CHINA 5/KARL)/TX89V4133	Texas A&M
225	TX00V1117		ARLIN/TX89V4213 (CO723594/YACO'S'//TX81V6582)	Texas A&M
226	TX00V1131		TX87V1613/KS91WGRC11	Texas A&M
227	TX00V1221		U1254-4-7-2/DONG XIE-4	Texas A&M
228	CO970547	HRW	Ike/Halt	Colorado St.
229	CO99508	HRW	Akron/Halt//4*Akron	Colorado St.
230	CO99534	HRW	Akron/Halt//4*Akron	Colorado St.
231	CO980376	HRW	CO850034/T-57//5*TAM 107/3/NEWS02	Colorado St.
232	CO980607	HRW	Yuma/T-57//TAM 200/3/4*Yuma/4/NEWS08	Colorado St.
233	CO980630	HRW	Yuma/T-57//TAM 200/3/4*Yuma/4/NEWS08	Colorado St.
234	CO980719	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	Colorado St.
235	CO980829	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS12	Colorado St.

Table 2. Entries in the 2002 Regional Germplasm Observation Nursery (RGON).

Entry	Line	putative market class	Cultivar or pedigree	Source
236*	CO991057	HRW	Akron//TXGH12588-26*4/FS2	Colorado St.
237*	CO991132	HRW	Jagger//TXGH12588-120*4/FS2	Colorado St.
238*	CO991350	HRW	Yumar//TXGH12588-26*4/FS2	Colorado St.
239*	CO991407	HRW	Yumar//TAM 110*4/FS2	Colorado St.
240*	CO00D007	HRW	Yumar//TXGH12588-120*4/FS2	Colorado St.
241*	CO00D011	HRW	Yumar//TXGH12588-120*4/FS2	Colorado St.
242*	CO00D019	HRW	Yumar//TXGH12588-120*4/FS2	Colorado St.
243*	CO00D032	HRW	Yumar//TXGH12588-120*4/FS2	Colorado St.
244	CO99141	HRW	Ike/Halt	Colorado St.
245	CO99148	HRW	Ogallala/Halt	Colorado St.
246	CO99177	HRW	Longhorn/Halt	Colorado St.
247	CO99314	HRW	TX91V4931/Halt	Colorado St.
248	CO99W013	HWW	KS84HW196/Halt	Colorado St.
249	CO99W033	HWW	KS84HW196/Halt	Colorado St.
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	CO99W076	HWW	KS92WGRC25/Vista	Colorado St.
257	CO99W078	HWW	KS92WGRC25/Vista	Colorado St.
258	CO99W081	HWW	KS92WGRC25/Vista	Colorado St.
259	CO99W183	HWW	KS92WGRC25/Halt	Colorado St.
260	CO99W188	HWW	KS92WGRC25/Halt	Colorado St.
261	CO99W192	HWW	KS92WGRC25/Halt	Colorado St.
262	CO99W254	HWW	CO931029/Halt	Colorado St.
263	CO99W277	HWW	CO931037/Halt	Colorado St.
264	CO99W329	HWW	CO931091/Halt	Colorado St.
265	TAM-107	HRW	PI 495594	check
266	Karl 92	HRW	PI 564245	check
267	Arapahoe	HRW	PI 518591	check
268	local check 1		see comments	check
269	local check 2		see comments	check
270	local check 3		see comments	check
271	NI01828		NUPLAINS/2/VH091552//KS91H184/3*RIOBLANCO	Univ. Nebraska
272	NI01803		N93L058	Univ. Nebraska
273	NI01812		HBC 208	Univ. Nebraska
274	NI01823		3080 2-231/APE/KS92H363-6	Univ. Nebraska
275	NI01824		INTENSIVNAJA\NE92458 (=OK83201/REDLAND)	Univ. Nebraska
276	NI99416		ALLIANCE/KARL 92	Univ. Nebraska
277	NI98438		WINDSTAR/NE87612	Univ. Nebraska
*Contain proprietary gene/trait				

Table 3. Agronomic characteristics, and reaction to Hessian fly, of entries in the 2002 RGON. See notes for local check identification.

Entry	Line or Selection	Winter survival Williston, ND (0-9)	Winter survival Watertown, SD (0-9)	Drought tolerance (0-5) Bushland, TX	Hessian fly reistance Manhattan, KS
1	TAM-107	4	0	2.5	S
2	Karl 92	5	1	4.0	S
3	Arapahoe	5	7	2.5	R
4	local check 1	8	4	1.5	
5	local check 2	7	8	3.0	
6	local check 3	4	1	3.5	
7	G982002	4	4	2.5	H-
8	G982159	4	6	3.5	S
9	G982241	5	5	3.0	S
10	G981043W	5	3	3.0	H-
11	G982094W	5	7	2.5	S
12	G980003	5	5	4.0	S
13	G980039	5	4	3.5	S
14	G980129W	5	2	4.0	S
15	G980143	4	7	2.5	S
16	G980938	5	0	4.5	S
17	G980354W	2	3	2.5	S
18	G980578	3	7	2.5	S
19	G980822	5	1	3.0	S
20	G980866	3	3	1.0	S
21	G980926W	4	3	4.0	S
22	G982048	4	1	4.0	S
23	G982238	6	7	4.0	S
24	G980984	3	1	4.0	S
25	G980122	4	3	3.0	S
26	G980172W	5	1	2.0	S
27	G980234W	5	2	4.5	H
28	G980258	5	2	4.5	S
29	G980411W	4	1	3.5	S
30	G980723	5	3	2.5	S
31	G982131W	5	1	2.5	S
32	G980846	5	1	4.5	S
33	G980871	4	3	2.5	S
34	G980927	3	1	3.5	S
35	G980933	6	5	4.0	S
36	G982163	5	4	3.0	S
37	KS00HW32-1	3	5	3.5	H
38	KS00HW34-5	5	4	3.0	H
39	KS00HW35-1	6	5	3.0	S
40	KS00HW35-2	6	3	3.0	S
41	KS00HW35-3	4	5	3.0	S
42	KS00HW65-1	5	4	2.5	H
43	KS00HW65-2	5	2	2.0	H
44	KS00HW65-5	5	1	2.0	H+
45	KS00HW114-1	4	1	4.5	S
46	KS00HW114-5	5	0	4.0	S
47	KS00HW115-4	5	1	3.5	S
48	KS00HW115-5	5	0	4.0	S
49	KS00HW151-1	4	5	1.0	R
50	TAM-107	5	2	2.5	S
51	Karl 92	6	3	3.5	S
52	Arapahoe	7	6	2.0	R
53	local check 1	8	9	1.0	
54	local check 2	5	8	4.0	
55	local check 3	8	5	3.5	
56	KS00HW151-3	2	7	3.0	R

Table 3. Agronomic characteristics, and reaction to Hessian fly, of entries in the 2002 RGON. See notes for local check identification.

Entry	Line or Selection	Winter survival Williston, ND (0-9)	Winter survival Watertown, SD (0-9)	Drought tolerance (0-5) Bushland, TX	Hessian fly reistance Manhattan, KS
57	KS00HW151-4	4	8	2.5	R
58	KS00HW152-1	8	6	2.5	R
59	KS00HW152-2	5	7	2.0	R
60	KS00HW152-5	7	7	2.5	R-
61	KS00HW171	5	4	2.5	S
62	KS00HW175	5	3	3.0	S
63	KS00HW177	5	3	3.0	S
64	KS00HW183	5	4	2.5	S
65	KS01HW50	6	3	1.5	S
66	KS01HW54	6	4	2.0	S
67	KS01HW55	6	3	2.5	S
68	KS01HW61	4	2	2.0	S
69	KS01HW62	3	1	2.5	H-
70	KS01HW63	5	2	2.5	H-
71	KS01HW64	5	1	2.5	S
72	KS01HW66	5	6	3.0	S
73	SD97059-2	5	6	1.5	S
74	SD97184-1	7	4	2.5	H+
75	SD97250-2	7	7	2.0	R
76	SD97337-1	5	4	2.0	H
77	SD97380-2	5	7	2.0	H
78	SD92107-5-1	6	8	1.0	H+
79	SD99075	5	7	2.5	H
80	SD99096	5	7	2.5	H
81	SD97089-1	3	6	1.0	R-
82	SD97532-2	5	4	2.0	S+
83	SD99074	5	3	1.5	H-
84	SD92107-6-2	7	6	2.0	R-
85	NW01L2019	5	2	3.0	S
86	NW01L2021(=NW97S412-1)	3	2	3.0	S
87	NW01L2022	6	2	2.5	S
88	NW01L2023	5	1	3.5	S
89	NW01L2024	3	0	2.0	S
90	NW01L2028(=NW97S142-1)	5	7	2.0	S
91	NW01L2032	5	4	2.5	S
92	NW01L2033	5	7	2.0	S
93	NW01L2036	3	2	1.0	S
94	NW01L2038(=NW97S139-1)	5	3	3.0	S
95	NW01L2039(=NW97S139-2)	5	0	3.0	S
96	NE00403	5	4	3.5	S
97	NE00429	4	4	2.5	H+
98	NE00435	6	8	3.0	R-
99	NE00439	5	3	3.0	H
100	TAM-107	5	3	2.5	S
101	Karl 92	4	2	4.0	S
102	Arapahoe	5	7	2.0	R
103	local check 1	7	6	1.5	
104	local check 2	4	8	4.5	
105	local check 3	5	1	4.0	
106	NE00456	5	8	2.5	R
107	NE00469	5	3	3.0	R
108	NE00479	3	8	3.0	R
109	NE00481	3	5	2.0	S
110	NE00507	5	7	2.5	H
111	NE00525	5	3	3.0	H
112	NE00544	5	6	2.5	S

Table 3. Agronomic characteristics, and reaction to Hessian fly, of entries in the 2002 RGON. See notes for local check identification.

Entry	Line or Selection	Winter survival Williston, ND (0-9)	Winter survival Watertown, SD (0-9)	Drought tolerance (0-5) Bushland, TX	Hessian fly reistance Manhattan, KS
113	NE00556	4	1	3.0	H+
114	NE00564	5	7	2.5	S
115	NE00611	5	3	2.0	S
116	NE00616	4	6	1.5	H-
117	NE00624	4	5	3.5	R
118	NE00633	2	4	2.5	R
119	NE00639	4	3	2.5	R
120	NE00658	4	3	2.0	S
121	NE00679	5	4	2.5	H+
122	NE00687	5	2	3.0	R
123	NE00698	6	3	2.0	H-
124	NW97S277	4	2	2.5	S
125	NW99L7083	4	2	3.5	H
126	KS950337-II-2	4	0	4.0	S
127	KS950352-M-4	5	3	3.0	S
128	KS950369-C-4	3	1	4.0	H
129	KS950369-C-6	3	1	4.5	S
130	KS950404-A-4	3	0	1.5	S
131	KS950409-P-4	5	2	2.0	S
132	KS950412-F-1	4	5	3.0	S
133	KS950412-F-2	4	3	2.0	S
134	KS950412-F-7	5	4	2.0	S
135	KS950412-F-8	5	1	2.5	S
136	KS950446-F-2	5	1	2.0	H
137	KS950446-N-3	4	1	3.0	H-
138	KS950447-G-6	3	1	2.0	H
139	KS950334-T-4	4	5	3.5	R-
140	KS950351-GG-1	4	0	2.5	S
141	KS950423-I-1	3	2	2.5	H
142	KS950493-A-2	4	1	3.0	S
143	KS95W175-2	3	4	2.0	S
144	KS95W175-3	4	0	2.0	S
145	OK99602	4	3	4.5	S
146	OK99610	5	0	2.5	S
147	OK99216	3	3	3.0	H
148	OK99207	2	2	2.5	R-
149	OK99124	2	4	4.0	S
150	TAM-107	4	3	3.0	S
151	Karl 92	4	8	4.0	S
152	Arapahoe	5	7	2.0	H+
153	local check 1	7	8	1.5	
154	local check 2	5	7	2.5	
155	local check 3	8	2	3.5	
156	OK99219	3	1	3.5	H
157	OK99215	2	0	2.5	H
158	OK99115	4	0	2.5	S
159	OK99133	4	1	2.5	S
160	OK99203	4	0	2.5	S
161	OK99212	4	0	3.5	R
162	TX00A0012	3	1	2.0	S
163	TX00A0035	5	1	2.5	H
164	TX00A0059	3	1	1.5	S
165	TX00A0112	3	2	2.5	R
166	TX00A0155	3	6	3.5	H-
167	TX00A0174	3	6	2.5	S
168	TX00A0181	4	8	3.5	S

Table 3. Agronomic characteristics, and reaction to Hessian fly, of entries in the 2002 RGON. See notes for local check identification.

Entry	Line or Selection	Winter survival Williston, ND (0-9)	Winter survival Watertown, SD (0-9)	Drought tolerance (0-5) Bushland, TX	Hessian fly reistance Manhattan, KS
169	TX00A0192	4	7	3.0	S
170	TX00A0198	5	8	2.0	S
171	TX00A0235	4	7	2.5	S
172	TX00A0241	5	8	3.5	S
173	TX00A0294	4	7	3.5	S
174	TX00A0307	5	6	2.5	H
175	TX00A0390	2	6	3.0	S
176	TX00A0391	2	6	2.5	S
177	TX00A0413	4	8	3.0	S
178	TX00A0414	4	8	2.5	S
179	TX00A0419	3	6	2.0	S
180	TX00A0440	4	8	2.0	S
181	TX00A0442	4	8	3.0	S
182	TX00A0448	4	8	1.5	S
183	TX00A0489	5	9	2.0	S
184	TX00A0515	3	6	2.0	S
185	TX00A0606	4	0	3.0	S
186	TX00A0658	4	1	- (thin std)	S
187	TX00A0673	5	0	1.5	S
188	TX00A0690	4	2	3.0	S
189	TX00A0764	4	2	3.0	S
190	TX99A0562-2	6	7	3.0	S
191	TX01A5936	3	3	2.0	S
192	TX99A0638	3	4	2.0	S
193	TX99A0655	4	1	2.0	S
194	TX99A6235	5	6	2.5	S
195	TX99A6611	5	7	3.0	S
196	TX98A0116	4	8	3.0	S
197	TX99A0017	4	5	4.0	S
198	TX99A0025	5	5	2.5	S
199	TX99A0214	5	3	3.0	S
200	TAM-107	5	4	2.5	S
201	Karl 92	3	5	3.0	S
202	Arapahoe	5	6	2.0	H+
203	local check 1	8	9	2.0	
204	local check 2	4	8	2.5	
205	local check 3	6	5	3.0	
206	TX99A0216	3	6	3.0	S
207	TX99A6030	5	4	2.5	S
208	TX99A6634	2	5	2.5	S
209	TX97V2835	4	5	2.5	S
210	TX97V2836	3	5	2.5	S
211	TX98V6612	2	0	3.0	S
212	TX95V5314	6	5	3.0	H-
213	TX97V2824	1	2	2.5	S
214	TX98VR8431	4	4	2.5	S
215	TX99A0023	5	3	4.0	S
216	TX99A0026	4	3	3.0	H
217	TX99A0154	2	3	3.5	S
218	TX99A0247	2	4	3.0	S
219	TX99A6434	5	2	2.5	S
220	NNS-GP90-14	5	4	3.5	S
221	NNS-GP90-13	4	3	3.5	H-
222	TX97V5304	3	5	4.5	S
223	TX99V1813	5	3	2.5	S
224	TX99V2413	2	6	2.5	H

Table 3. Agronomic characteristics, and reaction to Hessian fly, of entries in the 2002 RGON. See notes for local check identification.

Entry	Line or Selection	Winter survival Williston, ND (0-9)	Winter survival Watertown, SD (0-9)	Drought tolerance (0-5) Bushland, TX	Hessian fly reistance Manhattan, KS
225	TX00V1117	2	0	2.0	S
226	TX00V1131	3	5	3.5	S
227	TX00V1221	3	4	2.5	S
228	CO970547	5	6	4.0	H-
229	CO99508	4	4	3.0	S
230	CO99534	5	6	3.0	S
231	CO980376	4	4	3.5	S
232	CO980607	3	5	3.0	H+
233	CO980630	3	3	3.0	H
234	CO980719	4	4	2.5	S
235	CO980829	4	3	3.0	R-
236*	CO991057	4	8	2.5	S
237*	CO991132	2	1	2.5	H
238*	CO991350	5	8	2.5	S
239*	CO991407	5	2	2.0	S
240*	CO00D007	5	2	3.5	S
241*	CO00D011	5	7	1.5	S
242*	CO00D019	5	6	2.5	H
243*	CO00D032	3	2	3.0	H+
244	CO99141	4	6	3.5	H
245	CO99148	4	5	3.0	S
246	CO99177	3	2	2.5	S
247	CO99314	5	4	4.0	S
248	CO99W013	4	2	3.5	S
249	CO99W033	4	3	3.0	S
250	TAM-107	5	6	2.5	S
251	Karl 92	4	6	4.0	S
252	Arapahoe	5	7	2.0	R
253	local check 1	7	9	1.5	
254	local check 2	7	8	2.5	
255	local check 3	6	0	3.5	
256	CO99W076	7	5	2.0	S
257	CO99W078	4	5	2.5	S
258	CO99W081	4	8	3.0	S
259	CO99W183	5	0	3.5	S
260	CO99W188	5	7	4.0	S
261	CO99W192	5	6	2.5	S
262	CO99W254	3	5	3.0	S
263	CO99W277	5	8	3.5	S
264	CO99W329	6	8	4.5	S
265	TAM-107	4	6	3.0	S
266	Karl 92	4	7	4.5	S
267	Arapahoe	5	7	2.5	R-
268	local check 1	8	9	2.0	
269	local check 2	5	9	3.5	
270	local check 3	7	5	4.0	
271	NI01828	4	7	2.0	S
272	NI01803	4	6	4.5	S
273	NI01812	5	5	2.5	S
274	NI01823	5	6	2.0	S
275	NI01824	5	8	2.5	S
276	NI99416	5	6	2.5	S
277	NI98438	5	6	2.0	S

Table 4. Reactions of entries in the 2002 RGON to various rust pathogens. See notes for identification of local checks.

		Leaf rust	Stem Rust, St. Paul, MN, isolates		
Entry	Line or Selection	Stillwater, OK, seedling reaction type (Stakeman's)	72-MEX 53A RTQQ	01-TX- 27C TTTT	80-MN- 633B TPMK
1	TAM-107	3+	;1	2=	2=
2	Karl 92	3+	2-	S	2-
3	Arapahoe	;	;	2=,S	2=
4	local check 1	3+	S	S	S
5	local check 2	3	S	S	S
6	local check 3	3+	S	S	S
7	G982002	X;3-	;	2=	2=
8	G982159	3+	S	S	2-
9	G982241	3-	S	S	2
10	G981043W	X;3-	2=	2=	2-
11	G982094W	4	;	S,2=	2-,S
12	G980003	3+	2=,S	S,;	S,2-
13	G980039	3+	;1-n	;	S
14	G980129W	3+	2=,S	2=	S
15	G980143	3+	S	S	S
16	G980938	3+	S	S	S
17	G980354W	3+	2=	0,S	S
18	G980578	3+	2=	0	S
19	G980822	3	2=	0	2=
20	G980866	3	;1n	0	S
21	G980926W	3+	2,S	0	2,S
22	G982048	X;3-	;	0	;
23	G982238	3	S	0	2=
24	G980984	3	2=	0	2
25	G980122	3	S	2	S
26	G980172W	X;3-	;	2=	2
27	G980234W	X;3-	2=	2=	2-
28	G980258	3+	2=	0	S,2-
29	G980411W	3	S	;	S
30	G980723	3+	2	2+	S
31	G982131W	X;3-	;	;	2=
32	G980846	X;3-	Xn	S	S
33	G980871	X;3-	2-,S	2+	2=
34	G980927	3-	2=	;	2=
35	G980933	3	;	2+	S
36	G982163	3+	Xn	2	;,S
37	KS00HW32-1	X;3-	S	S	S
38	KS00HW34-5	;	23	S	S
39	KS00HW35-1	;	23	S	;
40	KS00HW35-2	;	23	2+	;
41	KS00HW35-3	X;3-	23	0	;
42	KS00HW65-1	X;3-	;	0	2
43	KS00HW65-2	X;3-	;	0	2
44	KS00HW65-5	X;3-	;	;	2
45	KS00HW114-1	X;3-	;1	0	;
46	KS00HW114-5	X;3=	;	;	2=
47	KS00HW115-4	X;3-	;	;	2=

Table 4. Reactions of entries in the 2002 RGON to various rust pathogens. See notes for identification of local checks.

		Leaf rust	Stem Rust, St. Paul, MN, isolates		
Entry	Line or Selection	Stillwater, OK, seedling reaction type (Stakeman's)	72-MEX 53A RTQQ	01-TX- 27C TTTT	80-MN- 633B TPMK
48	KS00HW115-5	X;3-	;1	;	2=
49	KS00HW151-1	X;3=	2=	;	2-
50	TAM-107	3+	1	;1	0
51	Karl 92	4	2=	S	2
52	Arapahoe	;	;	1	;
53	local check 1	3	S	S	S
54	local check 2	3+	S	S	S
55	local check 3	3+	S	S	S
56	KS00HW151-3	X;3-	2-	2-	2-
57	KS00HW151-4	X;3=	2=	2-	2
58	KS00HW152-1	X;3-	2=	2-	2-
59	KS00HW152-2	X;3-	2=	2-	2-
60	KS00HW152-5	X;3-	2=	2=	2-
61	KS00HW171	3+	S	1	S
62	KS00HW175	3+	2	1	S
63	KS00HW177	3+	S	1	S
64	KS00HW183	3+	2	1	S
65	KS01HW50	X;3-	;	;1	;
66	KS01HW54	3+	X-n	;1	2
67	KS01HW55	X;3-	;	;1	2-
68	KS01HW61	3	;1	2=	2-
69	KS01HW62	3+	2=,S	2-	;1-
70	KS01HW63	3-	2=	2=	2-
71	KS01HW64	4	2=	2=,S	2-,;
72	KS01HW66	X;3-	2=	2=	;
73	SD97059-2	X;3-	2=	2	2-
74	SD97184-1	3	2=	2-	2-
75	SD97250-2	X;3-	2=	2=	;
76	SD97337-1	3	2=	2=	;
77	SD97380-2	;	;	2=	;
78	SD92107-5-1	X;3-	;	2=	;
79	SD99075	X;3-	;1-	2=	;
80	SD99096	3=	;1-	2=	;
81	SD97089-1	X;3-	;	2=	;
82	SD97532-2	X;3-	;	2=	;
83	SD99074	X;3-	;1-	;	;
84	SD92107-6-2	X;3-	;,S	2=	
85	NW01L2019	X;3-	;	;	2=
86	NW01L2021(=NW97S412-1)	X;3	;,S	2-	2=
87	NW01L2022	3+	2	2+	;
88	NW01L2023	3-	;	2=	2=
89	NW01L2024	3=	;	0	2=
90	NW01L2028(=NW97S142-1)	3=	;	---	2=
91	NW01L2032	X;3-	2=	0	2=
92	NW01L2033	X;3-	;	2=	2=
93	NW01L2036	3	2=	;	2=
94	NW01L2038(=NW97S139-1)	3+	;	0	2=

Table 4. Reactions of entries in the 2002 RGON to various rust pathogens. See notes for identification of local checks.

		Leaf rust	Stem Rust, St. Paul, MN, isolates		
Entry	Line or Selection	Stillwater, OK, seedling reaction type (Stakeman's)	72-MEX 53A RTQQ	01-TX- 27C TTTT	80-MN- 633B TPMK
95	NW01L2039(=NW97S139-2)	3	;.S	0	2
96	NE00403	3-	;	1	2-
97	NE00429	X;3-	;	2	;
98	NE00435	3-	;,2=	2+	;
99	NE00439	3+	S	;	23c
100	TAM-107	3+	2=	2=	2=
101	Karl 92	3+	2-	2+	2-
102	Arapahoe	;	;	2=	;
103	local check 1	3+	S	S	S
104	local check 2	3=	S	S	S
105	local check 3	3+	S	S	S
106	NE00456	3+	X-n	2+,2=,;	;1
107	NE00469	3+	X-n	2+	;
108	NE00479	;3P3	;	2=	2=
109	NE00481	3	;	2	X
110	NE00507	3+	S	2	X
111	NE00525	3+	;1	;1	2-
112	NE00544	3+	;,S	2+	23
113	NE00556	3-	;1	2+	;
114	NE00564	3+	;1	2	;
115	NE00611	3	;	S	;
116	NE00616	3+	;	S	;1-
117	NE00624	3+	S	2+	;
118	NE00633	3+	X-n	2+	;
119	NE00639	X;3-	;	2-	;
120	NE00658	3+	;	22+	;
121	NE00679	3+	;	S	;
122	NE00687	3	;	22+	;
123	NE00698	3+	;	0	;
124	NW97S277	3-	;	2=	;
125	NW99L7083	3+	S	s	2-
126	KS950337-II-2	;3P3	2=	2=	2=
127	KS950352-M-4	3	2=	s	2-
128	KS950369-C-4	X;3-	;	;	2-,s
129	KS950369-C-6	X;3-	;	;	2=
130	KS950404-A-4	3	;	2-	2=
131	KS950409-P-4	X;3-	2	s	s
132	KS950412-F-1	;	2	;1	2=,s
133	KS950412-F-2	;	s	2-	2
134	KS950412-F-7	;	2=	;1	2=
135	KS950412-F-8	3=	s	2-	2=,s
136	KS950446-F-2	3	2=	2=	s
137	KS950446-N-3	;	;	0	2=
138	KS950447-G-6	X;3-	;1-	;	;
139	KS950334-T-4	3	;	1	;
140	KS950351-GG-1	3	;	0	2,;
141	KS950423-I-1	3	;	2-	,2

Table 4. Reactions of entries in the 2002 RGON to various rust pathogens. See notes for identification of local checks.

		Leaf rust	Stem Rust, St. Paul, MN, isolates		
Entry	Line or Selection	Stillwater, OK, seedling reaction type (Stakeman's)	72-MEX 53A RTQQ	01-TX- 27C TTTT	80-MN- 633B TPMK
142	KS950493-A-2	3-	;	2-	---
143	KS95W175-2	X;3-	;	0	;
144	KS95W175-3	X;3-	;	0	;
145	OK99602	3+	;	S	2
146	OK99610	3+	2=	S	23
147	OK99216	3+	;	2-	2-
148	OK99207	X;3-	2	2	s
149	OK99124	3-	;1	s	23
150	TAM-107	3+	2=	;1	2=
151	Karl 92	3+	;	2=	2-
152	Arapahoe	X;3-	2-	S	;
153	local check 1	3-	S	S	S
154	local check 2	3	S	S	S
155	local check 3	3	S	S	S
156	OK99219	3+	2=	1	;
157	OK99215	3+	2=	;1	2
158	OK99115	3+	2=	S	2-,S
159	OK99133	3+	2=	S	S
160	OK99203	3	2=	2	S
161	OK99212	X;3-	2=	2	2
162	TX00A0012	3	2	2	S
163	TX00A0035	3	;	0	2,S
164	TX00A0059	3+	;	0	S
165	TX00A0112	3	;1-	;1	0
166	TX00A0155	3	2	S	2-
167	TX00A0174	X;3-	;	0	2-
168	TX00A0181	X;3-	;	0	2=
169	TX00A0192	3+	;1	0	;1
170	TX00A0198	3+	S	2	2
171	TX00A0235	3+	S,2	S	2
172	TX00A0241	3	2-	S	23
173	TX00A0294	3	;	2=,S	2
174	TX00A0307	3+	;	2-	2
175	TX00A0390	X;3-	2=	;1-	2-
176	TX00A0391	3	;,2=	;1-	2=
177	TX00A0413	3-	S	S	S
178	TX00A0414	3	S	S	S
179	TX00A0419	X;3-	2=	;1	2=
180	TX00A0440	3+	2=	1	2=
181	TX00A0442	3+	2=	S	SA
182	TX00A0448	3+	2=	2=	S
183	TX00A0489	3+	2=	S	23
184	TX00A0515	X;3-	2=	1	2=
185	TX00A0606	3+	;	1	0
186	TX00A0658	3	---	---	---
187	TX00A0673	3+	;	0	2=
188	TX00A0690	3-	;	2	2

Table 4. Reactions of entries in the 2002 RGON to various rust pathogens. See notes for identification of local checks.

		Leaf rust	Stem Rust, St. Paul, MN, isolates		
Entry	Line or Selection	Stillwater, OK, seedling reaction type (Stakeman's)	72-MEX 53A RTQQ	01-TX- 27C TTTT	80-MN- 633B TPMK
189	TX00A0764	3	2=	22+	0
190	TX99A0562-2	3+	2-	S	0
191	TX01A5936	X;3=	;	2=	;
192	TX99A0638	X;3-	;	;1	2
193	TX99A0655	X;3-	2=	2=	;
194	TX99A6235	3-	;1-n	S	0
195	TX99A6611	X;3-	;1-n	;1	0,2=
196	TX98A0116	3	;1-n	;1	;1-
197	TX99A0017	3+	;1	S	2=
198	TX99A0025	3	2=	;1,S	2=
199	TX99A0214	3+	2	S	2=
200	TAM-107	3	2=	1	2=
201	Karl 92	4	;	2=	2
202	Arapahoe	X;3-	2-	S	;
203	local check 1	3+	S	S	S
204	local check 2	3+	S	S	S
205	local check 3	3	S	S	S
206	TX99A0216	3	2=	S	2
207	TX99A6030	;	S	S	2=
208	TX99A6634	X;3=	;,S	;1,S	2-
209	TX97V2835	;	2=	2=	0
210	TX97V2836	;	2=	2=	0
211	TX98V6612	;	;	1	2=
212	TX95V5314	3-	;	2-	S
213	TX97V2824	3+	2=	2	0
214	TX98VR8431	3-	S	22+	0
215	TX99A0023	3	;	;1,S	2=
216	TX99A0026	3+	;	0	2=
217	TX99A0154	X;3-	2=	1	2=
218	TX99A0247	3+	2=	S	2
219	TX99A6434	X;3-	S	2	2
220	NNS-GP90-14	3+	2=	;	1
221	NNS-GP90-13	4	2=	S	S
222	TX97V5304	;	2=	0	2=
223	TX99V1813	3+	;1-n	2	;,S
224	TX99V2413	X;3=	S	2+	S
225	TX00V1117	3+	;	2+	S
226	TX00V1131	3-	;	;1	0
227	TX00V1221	X;3-	21=	2-,S	2-
228	CO970547	3+	2=	2-2	;,S
229	CO99508	3	23	S	S
230	CO99534	3+	S	S	S
231	CO980376	3+	;	2	2
232	CO980607	3+	2-	;1	;
233	CO980630	3+	S	2-	;
234	CO980719	3-	2=	2=	S
235	CO980829	3	S	22+	S

Table 4. Reactions of entries in the 2002 RGON to various rust pathogens. See notes for identification of local checks.

		Leaf rust	Stem Rust, St. Paul, MN, isolates		
Entry	Line or Selection	Stillwater, OK, seedling reaction type (Stakeman's)	72-MEX 53A RTQQ	01-TX- 27C TTTT	80-MN- 633B TPMK
236*	CO991057	3+	2-	22+	S
237*	CO991132	3+	;1-n	S	0
238*	CO991350	3	;1	0	0
239*	CO991407	3	S	2	S
240*	CO00D007	3	S	2-2	2,S
241*	CO00D011	3+	;1	2=	;1
242*	CO00D019	3+	S	;1	S
243*	CO00D032	3+	2-	2=	S
244	CO99141	3+	;	22+	S
245	CO99148	X;3-	;1	;1-	2
246	CO99177	3	;1-	;1-	2=
247	CO99314	3+	2=	0	2-
248	CO99W013	3+	2=	S	2
249	CO99W033	3	2=	2=	S,2-
250	TAM-107	3+	2=	;1	2=
251	Karl 92	3+	;	2=	2
252	Arapahoe	X;3=	2-	S	;
253	local check 1	3+	S	S	S
254	local check 2	3+	S	S	S
255	local check 3	3	S	S	S
256	CO99W076	3	;	S	S
257	CO99W078	3+	;	S	S
258	CO99W081	3+	;	S	S
259	CO99W183	3+	;	0	S
260	CO99W188	3	2=	0	S
261	CO99W192	3	2=	S	S
262	CO99W254	3+	2=	1	2=
263	CO99W277	3-	2=	S	S
264	CO99W329	3-	2=	S	S
265	TAM-107	3	2=	;1	2-
266	Karl 92	3+	;	2=	23
267	Arapahoe	X;3=	2-	S	;
268	local check 1	3+	S	S	S
269	local check 2	3+	S	S	S
270	local check 3	3+	S	S	S
271	NI01828	X;3-	2=	---	2=
272	NI01803	3-	2=	---	;
273	NI01812	3+	2	22+	2
274	NI01823	3+	S	22+	;
275	NI01824	X;3-	;	22+	;
276	NI99416	4	2-	---	;
277	NI98438	X;3=	2=	2=	;

Table 5. Reactions of entries in the 2002 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Wheat Streak Mosaic Virus. See notes for identification of local checks.

Entry	Line or Selection	Wheat soilborne mosaic virus (WSBMV), Stillwater, OK (visual, 1-4)	Wheat streak mosaic virus (WSMV), Hays, KS (1-9)
1	TAM-107	3	5
2	Karl 92	2	7
3	Arapahoe	3	6
4	local check 1	1	2
5	local check 2	2	5
6	local check 3	2	7
7	G982002	1	4
8	G982159	1	7
9	G982241	1	7
10	G981043W	1	6
11	G982094W	1	5
12	G980003	1	7
13	G980039	1	5
14	G980129W	3	7
15	G980143	2	7
16	G980938	1	7
17	G980354W	2	5
18	G980578	1	7
19	G980822	1	6
20	G980866	1	4
21	G980926W	1	7
22	G982048	2	5
23	G982238	1	7
24	G980984	1	5
25	G980122	1	7
26	G980172W	1	7
27	G980234W	1	4
28	G980258	1	4
29	G980411W	2	7
30	G980723	1	6
31	G982131W	1	5
32	G980846	1	5
33	G980871	2	5
34	G980927	4	7
35	G980933	2	7
36	G982163	1	7
37	KS00HW32-1	1	6
38	KS00HW34-5	2	6
39	KS00HW35-1	1	6
40	KS00HW35-2	1	7
41	KS00HW35-3	1	6
42	KS00HW65-1	2	4
43	KS00HW65-2	1	4
44	KS00HW65-5	1	4
45	KS00HW114-1	2	4
46	KS00HW114-5	2	5
47	KS00HW115-4	1	6

Table 5. Reactions of entries in the 2002 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Wheat Streak Mosaic Virus. See notes for identification of local checks.

Entry	Line or Selection	Wheat soilborne mosaic virus (WSBMV), Stillwater, OK (visual, 1-4)	Wheat streak mosaic virus (WSMV), Hays, KS (1-9)
48	KS00HW115-5	1	5
49	KS00HW151-1	3	7
50	TAM-107	3	5
51	Karl 92	1	7
52	Arapahoe	2	7
53	local check 1	1	2
54	local check 2	2	4
55	local check 3	2	7
56	KS00HW151-3	1	6
57	KS00HW151-4	1	5
58	KS00HW152-1	1	5
59	KS00HW152-2	1	5
60	KS00HW152-5	1	5
61	KS00HW171	1	5
62	KS00HW175	2	5
63	KS00HW177	2	5
64	KS00HW183	1	5
65	KS01HW50	2	5
66	KS01HW54	1	5
67	KS01HW55	2	5
68	KS01HW61	2	6
69	KS01HW62	2	6
70	KS01HW63	2	6
71	KS01HW64	2	6
72	KS01HW66	1	4
73	SD97059-2	2	7
74	SD97184-1	1	5
75	SD97250-2	1	7
76	SD97337-1	1	5
77	SD97380-2	1	7
78	SD92107-5-1	2	5
79	SD99075	1	7
80	SD99096	1	7
81	SD97089-1	1	5
82	SD97532-2	2	5
83	SD99074	1	7
84	SD92107-6-2	1	5
85	NW01L2019	2	7
86	NW01L2021(=NW97S412-1)	3	7
87	NW01L2022	3	5
88	NW01L2023	1	7
89	NW01L2024	2	7
90	NW01L2028(=NW97S142-1)	1	6
91	NW01L2032	1	5
92	NW01L2033	2	5
93	NW01L2036	2	5
94	NW01L2038(=NW97S139-1)	3	7

Table 5. Reactions of entries in the 2002 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Wheat Streak Mosaic Virus. See notes for identification of local checks.

Entry	Line or Selection	Wheat soilborne mosaic virus (WSBMV), Stillwater, OK (visual, 1-4)	Wheat streak mosaic virus (WSMV), Hays, KS (1-9)
95	NW01L2039(=NW97S139-2)	3	7
96	NE00403	1	5
97	NE00429	3	5
98	NE00435	2	5
99	NE00439	2	6
100	TAM-107	3	5
101	Karl 92	1	7
102	Arapahoe	2	7
103	local check 1	1	2
104	local check 2	2	5
105	local check 3	1	7
106	NE00456	1	5
107	NE00469	1	5
108	NE00479	1	5
109	NE00481	1	7
110	NE00507	2	7
111	NE00525	2	6
112	NE00544	2	5
113	NE00556	1	7
114	NE00564	1	7
115	NE00611	2	6
116	NE00616	2	7
117	NE00624	1	7
118	NE00633	1	7
119	NE00639	2	5
120	NE00658	1	7
121	NE00679	1	5
122	NE00687	1	7
123	NE00698	1	7
124	NW97S277	1	5
125	NW99L7083	1	8
126	KS950337-II-2	1	5
127	KS950352-M-4	1	5
128	KS950369-C-4	1	7
129	KS950369-C-6	2	5
130	KS950404-A-4	2	4
131	KS950409-P-4	2	5
132	KS950412-F-1	1	7
133	KS950412-F-2	1	7
134	KS950412-F-7	1	7
135	KS950412-F-8	1	7
136	KS950446-F-2	2	7
137	KS950446-N-3	2	5
138	KS950447-G-6	2	5
139	KS950334-T-4	1	5
140	KS950351-GG-1	2	4
141	KS950423-I-1	1	5

Table 5. Reactions of entries in the 2002 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Wheat Streak Mosaic Virus. See notes for identification of local checks.

Entry	Line or Selection	Wheat soilborne mosaic virus (WSBMV), Stillwater, OK (visual, 1-4)	Wheat streak mosaic virus (WSMV), Hays, KS (1-9)
142	KS950493-A-2	1	5
143	KS95W175-2	1	7
144	KS95W175-3	2	7
145	OK99602	2	7
146	OK99610	2	4
147	OK99216	1	5
148	OK99207	1	6
149	OK99124	2	7
150	TAM-107	2	5
151	Karl 92	1	7
152	Arapahoe	2	6
153	local check 1	1	2
154	local check 2	1	4
155	local check 3	3	7
156	OK99219	1	5
157	OK99215	2	5
158	OK99115	1	7
159	OK99133	1	7
160	OK99203	1	7
161	OK99212	1	5
162	TX00A0012	2	7
163	TX00A0035	2	5
164	TX00A0059	1	5
165	TX00A0112	2	7
166	TX00A0155	2	5
167	TX00A0174	2	5
168	TX00A0181	1	6
169	TX00A0192	1	5
170	TX00A0198	2	7
171	TX00A0235	1	7
172	TX00A0241	1	7
173	TX00A0294	1	6
174	TX00A0307	2	6
175	TX00A0390	3	7
176	TX00A0391	3	5
177	TX00A0413	2	7
178	TX00A0414	2	7
179	TX00A0419	2	7
180	TX00A0440	1	7
181	TX00A0442	2	7
182	TX00A0448	2	7
183	TX00A0489	1	5
184	TX00A0515	2	5
185	TX00A0606	3	7
186	TX00A0658	2	5
187	TX00A0673	1	5
188	TX00A0690	2	7

Table 5. Reactions of entries in the 2002 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Wheat Streak Mosaic Virus. See notes for identification of local checks.

Entry	Line or Selection	Wheat soilborne mosaic virus (WSBMV), Stillwater, OK (visual, 1-4)	Wheat streak mosaic virus (WSMV), Hays, KS (1-9)
189	TX00A0764	3	4
190	TX99A0562-2	2	7
191	TX01A5936	3	7
192	TX99A0638	3	7
193	TX99A0655	3	7
194	TX99A6235	3	7
195	TX99A6611	2	7
196	TX98A0116	1	7
197	TX99A0017	2	7
198	TX99A0025	2	7
199	TX99A0214	3	7
200	TAM-107	2	5
201	Karl 92	2	7
202	Arapahoe	2	7
203	local check 1	1	2
204	local check 2	1	5
205	local check 3	2	7
206	TX99A0216	3	7
207	TX99A6030	2	7
208	TX99A6634	1	5
209	TX97V2835	2	5
210	TX97V2836	2	6
211	TX98V6612	2	7
212	TX95V5314	1	7
213	TX97V2824	3	7
214	TX98VR8431	2	5
215	TX99A0023	1	7
216	TX99A0026	1	7
217	TX99A0154	2	7
218	TX99A0247	2	5
219	TX99A6434	2	6
220	NNS-GP90-14	1	7
221	NNS-GP90-13	2	5
222	TX97V5304	2	5
223	TX99V1813	2	7
224	TX99V2413	2	7
225	TX00V1117	2	7
226	TX00V1131	2	7
227	TX00V1221	2	6
228	CO970547	1	5
229	CO99508	1	5
230	CO99534	1	6
231	CO980376	2	5
232	CO980607	3	5
233	CO980630	2	7
234	CO980719	3	5
235	CO980829	2	5

Table 5. Reactions of entries in the 2002 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Wheat Streak Mosaic Virus. See notes for identification of local checks.

Entry	Line or Selection	Wheat soilborne mosaic virus (WSBMV), Stillwater, OK (visual, 1-4)	Wheat streak mosaic virus (WSMV), Hays, KS (1-9)
236*	CO991057	2	5
237*	CO991132	2	5
238*	CO991350	3	5
239*	CO991407	3	5
240*	CO00D007	3	5
241*	CO00D011	3	7
242*	CO00D019	3	5
243*	CO00D032	3	7
244	CO99141	2	7
245	CO99148	2	8
246	CO99177	3	7
247	CO99314	1	7
248	CO99W013	1	7
249	CO99W033	3	6
250	TAM-107	2	6
251	Karl 92	1	7
252	Arapahoe	1	7
253	local check 1	2	1
254	local check 2	2	5
255	local check 3	2	7
256	CO99W076	2	8
257	CO99W078	2	8
258	CO99W081	2	8
259	CO99W183	2	7
260	CO99W188	1	7
261	CO99W192	1	7
262	CO99W254	1	5
263	CO99W277	1	6
264	CO99W329	1	7
265	TAM-107	1	5
266	Karl 92	1	7
267	Arapahoe	1	7
268	local check 1	1	1
269	local check 2	2	5
270	local check 3	2	7
271	NI01828	1	7
272	NI01803	1	5
273	NI01812	2	5
274	NI01823	2	7
275	NI01824	2	7
276	NI99416	2	7
277	NI98438	1	6

Table 6. Reactions of entries in the 2002 RGON to Russian wheat aphid and greenbug. See notes for identification of local checks.

		Stillwater, OK		Akron, CO - Russian Wheat Aphid			
Entry	Line	Greenbug biotype E rating	Russ. Wheat Aphid	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
1	TAM-107	S	S	11	4		
2	Karl 92	S	S	11	5		
3	Arapahoe	S	S	8	5		
4	local check 1	S	RR	11	1	1	11
5	local check 2	R	RR	10	4		
6	local check 3	S	RR	11	1	1	11
7	G982002	S	S	11	4		
8	G982159	S	S	10	5		
9	G982241	S	S	11	5		
10	G981043W	S	S	11	5		
11	G982094W	S	S	11	4		
12	G980003	S	S	11	4		
13	G980039	S	S	11	4		
14	G980129W	S	S	11	4		
15	G980143	S	S	8	4		
16	G980938	S	S	11	4		
17	G980354W	S	S	8	4		
18	G980578	S	S	11	5		
19	G980822	S	S	11	5		
20	G980866	S	S	10	5		
21	G980926W	S	S	8	4		
22	G982048	S	S	11	5		
23	G982238	S	S	11	5		
24	G980984	S	S	11	5		
25	G980122	S	S	11	5		
26	G980172W	S	S	11	5		
27	G980234W	S	S	11	3	3	4
28	G980258	S	S	8	5		
29	G980411W	S	S	10	4		
30	G980723	S	S	10	4		
31	G982131W	S	S	10	5		
32	G980846	S	S	10	5		
33	G980871	S	S	9	5		
34	G980927	S	S	8	5		
35	G980933	S	S	7	5		
36	G982163	S	S	11	3	3	3
37	KS00HW32-1	S	S	9	5		
38	KS00HW34-5	S	S	8	5		
39	KS00HW35-1	S	S	11	3	4	
40	KS00HW35-2	S	S	11	3	4	
41	KS00HW35-3	S	S	11	3	4	
42	KS00HW65-1	S	S	11	5		
43	KS00HW65-2	S	S	11	5		
44	KS00HW65-5	S	S	10	5		
45	KS00HW114-1	S	S	11	5		
46	KS00HW114-5	S	S	11	5		
47	KS00HW115-4	S	S	11	5		
48	KS00HW115-5	S	S	11	5		

Table 6. Reactions of entries in the 2002 RGON to Russian wheat aphid and greenbug. See notes for identification of local checks.

		Stillwater, OK		Akron, CO - Russian Wheat Aphid			
Entry	Line	Greenbug biotype E rating	Russ. Wheat Aphid	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
49	KS00HW151-1	S	9R/3S	11	1	1	11
50	TAM-107	S	S	11	3	4	
51	Karl 92	S	S	11	5		
52	Arapahoe	S	S	10	3	4	
53	local check 1	S	RR	11	1	1	11
54	local check 2	R	RR	11	2	4	
55	local check 3	S	R	11	1	1	11
56	KS00HW151-3	S	S	11	3	4	
57	KS00HW151-4	S	R	11	1	1	11
58	KS00HW152-1	S	R	11	1	1	11
59	KS00HW152-2	S	R	11	1	1	10
60	KS00HW152-5	S	R	11	1	1	11
61	KS00HW171	S	S	11	5		
62	KS00HW175	S	S	6	5		
63	KS00HW177	S	S	6	5		
64	KS00HW183	S	S	6	5		
65	KS01HW50	S	S	8	5		
66	KS01HW54	S	S	10	5		
67	KS01HW55	S	S	10	5		
68	KS01HW61	S	S	9	5		
69	KS01HW62	S	S	10	5		
70	KS01HW63	S	S	10	5		
71	KS01HW64	S	S	10	5		
72	KS01HW66	S	S	10	5		
73	SD97059-2	S	S	11	4		
74	SD97184-1	S	S	6	5		
75	SD97250-2	S	S	8	4		
76	SD97337-1	S	S	8	4		
77	SD97380-2	S	S	5	5		
78	SD92107-5-1	S	S	8	5		
79	SD99075	S	S	11	4		
80	SD99096	S	S	11	5		
81	SD97089-1	S	S	10	5		
82	SD97532-2	S	S	11	4		
83	SD99074	S	S	11	5		
84	SD92107-6-2	S	S	11	4		
85	NW01L2019	S	S	10	3	4	
86	NW01L2021(=NW97S412-1)	S	S	11	3	4	
87	NW01L2022	S	S	10	3	3	4
88	NW01L2023	S	S	11	4		
89	NW01L2024	S	S	11	5		
90	NW01L2028(=NW97S142-1)	S	S	11	3	4	
91	NW01L2032	S	S	11	3	4	
92	NW01L2033	S	S	11	3	4	
93	NW01L2036	S	S	11	5		
94	NW01L2038(=NW97S139-1)	S	S	11	5		
95	NW01L2039(=NW97S139-2)	S	S	11	5		
96	NE00403	S	S	11	4		

Table 6. Reactions of entries in the 2002 RGON to Russian wheat aphid and greenbug. See notes for identification of local checks.

		Stillwater, OK		Akron, CO - Russian Wheat Aphid			
Entry	Line	Greenbug biotype E rating	Russ. Wheat Aphid	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
97	NE00429	S	S	11	4		
98	NE00435	S	S	11	3	4	
99	NE00439	S	S	11	3	4	
100	TAM-107	S	S	11	2	4	
101	Karl 92	S	S	11	4		
102	Arapahoe	S	S	11	3	4	
103	local check 1	S	RR	11	1	1	11
104	local check 2	R	RR	11	2	4	
105	local check 3	S	M	11	1	1	11
106	NE00456	S	S	11	4		
107	NE00469	S	S	11	5		
108	NE00479	S	S	10	4		
109	NE00481	S	S	10	4		
110	NE00507	S	S	11	3	4	
111	NE00525	S	S	10	3	4	
112	NE00544	S	S	8	3	4	
113	NE00556	S	S	7	4		
114	NE00564	S	S	11	3	4	
115	NE00611	S	S	11	5		
116	NE00616	S	S	11	5		
117	NE00624	S	S	6	5		
118	NE00633	S	S	11	5		
119	NE00639	S	S	10	4		
120	NE00658	S	S	10	4		
121	NE00679	S	S	11	5		
122	NE00687	S	S	10	5		
123	NE00698	S	S	11	4		
124	NW97S277	S	S	8	3	4	
125	NW99L7083	S	S	11	3	4	
126	KS950337-II-2	S	S	11	4		
127	KS950352-M-4	S	S	11	4		
128	KS950369-C-4	S	S	11	5		
129	KS950369-C-6	S	S	10	5		
130	KS950404-A-4	S	S	11	5		
131	KS950409-P-4	S	S	11	5		
132	KS950412-F-1	S	S	11	5		
133	KS950412-F-2	S	S	10	5		
134	KS950412-F-7	S	S	8	5		
135	KS950412-F-8	S	S	5	3	4	
136	KS950446-F-2	S	S	8	4		
137	KS950446-N-3	S	S	11	4		
138	KS950447-G-6	S	S	11	5		
139	KS950334-T-4	S	S	11	5		
140	KS950351-GG-1	S	S	11	5		
141	KS950423-I-1	S	S	6	5		
142	KS950493-A-2	S	S	9	5		
143	KS95W175-2	S	S	11	5		
144	KS95W175-3	S	S	11	5		

Table 6. Reactions of entries in the 2002 RGON to Russian wheat aphid and greenbug. See notes for identification of local checks.

		Stillwater, OK		Akron, CO - Russian Wheat Aphid			
Entry	Line	Greenbug biotype E rating	Russ. Wheat Aphid	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
145	OK99602	S	S	11	5		
146	OK99610	S	S	11	3	2	2
147	OK99216	S	S	11	5		
148	OK99207	S	S	11	5		
149	OK99124	S	S	11	5		
150	TAM-107	S	S	11	3	4	
151	Karl 92	S	S	6	5		
152	Arapahoe	S	S	10	4		
153	local check 1	S	RR	11	1	1	11
154	local check 2	R	RR	11	2	4	
155	local check 3	S	M	11	1	1	11
156	OK99219	S	S	11	3	3	3
157	OK99215	S	S	11	3	3	4
158	OK99115	S	S	11	5		
159	OK99133	S	S	11	5		
160	OK99203	S	S	11	5		
161	OK99212	S	S	11	5		
162	TX00A0012	S	S	8	5		
163	TX00A0035	S	S	8	4		
164	TX00A0059	S	S	8	3	4	
165	TX00A0112	S	S	11	5		
166	TX00A0155	S	S	11	5		
167	TX00A0174	S	S	11	4		
168	TX00A0181	S	S	6	5		
169	TX00A0192	S	S	7	5		
170	TX00A0198	S	S	8	5		
171	TX00A0235	S	S	11	5		
172	TX00A0241	S	S	7	4		
173	TX00A0294	S	S	10	4		
174	TX00A0307	S	S	12	4		
175	TX00A0390	S	S	10	4		
176	TX00A0391	S	S	10	5		
177	TX00A0413	S	S	10	5		
178	TX00A0414	S	S	10	3	4	
179	TX00A0419	S	S	11	5		
180	TX00A0440	S	S	8	5		
181	TX00A0442	S	S	10	5		
182	TX00A0448	S	S	10	5		
183	TX00A0489	S	S	10	4		
184	TX00A0515	S	S	10	4		
185	TX00A0606	S	S	10	3	4	
186	TX00A0658	S	S	1	2	4	
187	TX00A0673	S	S	10	4		
188	TX00A0690	S	S	10	4		
189	TX00A0764	S	S	11	4		
190	TX99A0562-2	S	10R/3S	10	2	2	9
191	TX01A5936	S	S	10	5		
192	TX99A0638	S	S	10	3	4	

Table 6. Reactions of entries in the 2002 RGON to Russian wheat aphid and greenbug. See notes for identification of local checks.

		Stillwater, OK		Akron, CO - Russian Wheat Aphid			
Entry	Line	Greenbug biotype E rating	Russ. Wheat Aphid	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
193	TX99A0655	S	S	10	3	4	
194	TX99A6235	S	S	10	4		
195	TX99A6611	S	S	8	4		
196	TX98A0116	S	S	10	5		
197	TX99A0017	S	S	10	4		
198	TX99A0025	S	S	11	5		
199	TX99A0214	S	S	11	4		
200	TAM-107	S	S	11	3	4	
201	Karl 92	S	S	11	5		
202	Arapahoe	S	S	10	3	4	
203	local check 1	S	RR	11	1	1	11
204	local check 2	R	RR	11	5		
205	local check 3	S	M	11	1	1	11
206	TX99A0216	S	S	9	4		
207	TX99A6030	S	S	10	3	4	
208	TX99A6634	S	S	9	4		
209	TX97V2835	S	S	10	5		
210	TX97V2836	S	S	10	5		
211	TX98V6612	S	S	11	4		
212	TX95V5314	S	S	11	3	4	
213	TX97V2824	S	S	5	4		
214	TX98VR8431	S	M	8	2	2	6
215	TX99A0023	S	S	11	4		
216	TX99A0026	S	S	6	5		
217	TX99A0154	S	S	8	3	4	
218	TX99A0247	S	S	10	4		
219	TX99A6434	S	S	10	4		
220	NNS-GP90-14	S	S	10	5		
221	NNS-GP90-13	S	S	8	4		
222	TX97V5304	R	S	11	3	4	
223	TX99V1813	S	S	11	5		
224	TX99V2413	S	S	11	2	4	
225	TX00V1117	S	S	11	4		
226	TX00V1131	S	S	11	5		
227	TX00V1221	S	S	11	4		
228	CO970547	S	R	9	2	2	9
229	CO99508	S	R	11	1	1	11
230	CO99534	S	R	11	1	1	11
231	CO980376	S	R	11	1	1	11
232	CO980607	S	R	7	1	1	7
233	CO980630	S	R	9	1	1	7
234	CO980719	S	R	8	2	2	8
235	CO980829	S	R	4	2	2	4
236*	CO991057	R	S	9	4		
237*	CO991132	S	S	11	4		
238*	CO991350	R	R	9	1	1	8
239*	CO991407	S	R	5	2	2	4
240*	CO00D007	R	R	9	1	1	9

Table 6. Reactions of entries in the 2002 RGON to Russian wheat aphid and greenbug. See notes for identification of local checks.

		Stillwater, OK		Akron, CO - Russian Wheat Aphid			
Entry	Line	Greenbug biotype E rating	Russ. Wheat Aphid	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
241*	CO00D011	S	R	8	2	2	7
242*	CO00D019	S	S	8	4		
243*	CO00D032	S	R	8	1	1	8
244	CO99141	S	R	10	2	2	8
245	CO99148	S	R	10	1	1	10
246	CO99177	S	R	10	2	2	10
247	CO99314	S	S	12	4		
248	CO99W013	S	R	11	1	1	11
249	CO99W033	S	17R/1S	11	1	1	11
250	TAM-107	S	S	11	5		
251	Karl 92	S	S	8	5		
252	Arapahoe	S	S	10	5		
253	local check 1	S	R	11	2	2	11
254	local check 2	R	RR	11	4		
255	local check 3	S	R	11	2	2	11
256	CO99W076	S	R	11	3	3	11
257	CO99W078	S	R	11	2	2	9
258	CO99W081	S	R	11	3	3	11
259	CO99W183	S	R	11	2	2	11
260	CO99W188	S	R	11	1	1	11
261	CO99W192	S	R	11	1	1	11
262	CO99W254	S	R	11	2	2	11
263	CO99W277	S	R	11	2	2	11
264	CO99W329	S	M	11	3	2	11
265	TAM-107	S	S	11	5		
266	Karl 92	S	S	8	5		
267	Arapahoe	S	S	8	5		
268	local check 1	S	RR	11	2	2	11
269	local check 2	S	RR	11	4		
270	local check 3	S	M	11	2	2	11
271	NI01828	S	S	11	5		
272	NI01803	S	S	11	5		
273	NI01812	S	S	11	5		
274	NI01823	S	S	11	5		
275	NI01824	S	S	11	5		
276	NI99416	S	S	11	5		
277	NI98438	S	S	11	5		

Table 7. Reaction of entries in the 2002 to Fusarium head blight.

		Mead, Ne			Brookings, SD		
Entry	Line	Plot severity (0-10)	Head severity (0-10)	Infection incidence (%)	Infection incidence (%)	Severity incidence (%)	Disease %
1	TAM-107	3	8	30	100	68	68
2	Karl 92	1	2	40	100	73	73
3	Arapahoe	0	3	7	100	46	46
4	local check 1	2	8	23	100	31	31
5	local check 2	0	6	7	.	.	.
6	local check 3	0	2	10	100	72	72
7	G982002	1	2	23	100	53	53
8	G982159	1	1	40	100	73	73
9	G982241	0	2	7	100	47	47
10	G981043W	0	1	7	100	66	66
11	G982094W	1	2	37	100	42	42
12	G980003	1	3	47	100	65	65
13	G980039	1	4	33	100	83	83
14	G980129W	1	4	40	100	60	60
15	G980143	1	5	23	100	61	61
16	G980938	0	1	13	100	60	60
17	G980354W	1	5	27	100	68	68
18	G980578	0	2	17	.	.	.
19	G980822	1	6	20	100	41	41
20	G980866	1	4	17	100	68	68
21	G980926W	1	2	30	100	30	30
22	G982048	0	1	13	100	60	60
23	G982238	2	4	50	100	49	49
24	G980984	1	2	57	100	42	42
25	G980122	2	3	63	100	75	75
26	G980172W	1	3	37	100	55	55
27	G980234W	2	5	37	100	67	67
28	G980258	2	5	47	100	75	75
29	G980411W	2	3	60	100	70	70
30	G980723	1	2	23	100	29	29
31	G982131W	1	2	33	100	55	55
32	G980846	1	2	40	100	63	63
33	G980871	0	3	13	100	37	37
34	G980927	0	2	7	100	44	44
35	G980933	0	2	7	100	68	68
36	G982163	2	6	30	100	63	63
37	KS00HW32-1	0	6	7	100	64	64
38	KS00HW34-5	0	2	17	100	65	65
39	KS00HW35-1	1	3	33	100	81	81
40	KS00HW35-2	0	2	17	100	48	48
41	KS00HW35-3	0	1	3	100	74	74
42	KS00HW65-1	2	3	63	100	68	68
43	KS00HW65-2	2	4	57	100	66	66
44	KS00HW65-5	0	3	13	100	60	60
45	KS00HW114-1	2	4	43	100	90	90
46	KS00HW114-5	2	5	33	100	68	68
47	KS00HW115-4	1	2	50	100	55	55
48	KS00HW115-5	1	3	47	100	53	53

Table 7. Reaction of entries in the 2002 to Fusarium head blight.

		Mead, Ne			Brookings, SD		
Entry	Line	Plot severity (0-10)	Head severity (0-10)	Infection incidence (%)	Infection incidence (%)	Severity incidence (%)	Disease %
49	KS00HW151-1	2	3	60	100	66	66
50	TAM-107	2	3	80	100	90	90
51	Karl 92	1	1	37	100	63	63
52	Arapahoe	0	.	0	100	63	63
53	local check 1	1	9	10	100	68	68
54	local check 2	1	6	10	100	52	52
55	local check 3	1	3	27	100	82	82
56	KS00HW151-3	1	3	40	100	52	52
57	KS00HW151-4	1	3	27	100	37	37
58	KS00HW152-1	1	3	23	.	.	.
59	KS00HW152-2	0	1	13	100	57	57
60	KS00HW152-5	1	4	20	100	60	60
61	KS00HW171	0	1	3	100	28	28
62	KS00HW175	0	1	10	100	35	35
63	KS00HW177	1	2	33	100	37	37
64	KS00HW183	0	1	20	100	48	48
65	KS01HW50	3	7	40	100	78	78
66	KS01HW54	1	4	27	100	78	78
67	KS01HW55	0	3	10	100	85	85
68	KS01HW61	2	4	40	100	62	62
69	KS01HW62	1	3	23	100	40	40
70	KS01HW63	1	3	27	100	43	43
71	KS01HW64	1	2	27	100	30	30
72	KS01HW66	0	2	27	100	43	43
73	SD97059-2	1	5	13	100	65	65
74	SD97184-1	0	.	0	100	77	77
75	SD97250-2	0	.	0	100	40	40
76	SD97337-1	0	.	0	100	43	43
77	SD97380-2	1	3	27	100	75	75
78	SD92107-5-1	0	.	0	100	44	44
79	SD99075	1	5	13	100	38	38
80	SD99096	0	4	3	100	27	27
81	SD97089-1	0	3	10	100	32	32
82	SD97532-2	1	3	30	100	58	58
83	SD99074	1	3	20	100	52	52
84	SD92107-6-2	0	2	20	100	48	48
85	NW01L2019	2	3	70	100	45	45
86	NW01L2021(=NW97S412-1)	1	3	30	100	47	47
87	NW01L2022	2	5	47	100	87	87
88	NW01L2023	.	.	0	100	75	75
89	NW01L2024	2	3	53	100	43	43
90	NW01L2028(=NW97S142-1)	1	3	47	100	48	48
91	NW01L2032	2	3	53	100	73	73
92	NW01L2033	2	4	53	100	35	35
93	NW01L2036	2	3	50	100	33	33
94	NW01L2038(=NW97S139-1)	2	4	40	100	75	75
95	NW01L2039(=NW97S139-2)	1	3	43	100	46	46
96	NE00403	1	3	43	100	70	70

Table 7. Reaction of entries in the 2002 to Fusarium head blight.

		Mead, Ne			Brookings, SD		
Entry	Line	Plot severity (0-10)	Head severity (0-10)	Infection incidence (%)	Infection incidence (%)	Severity incidence (%)	Disease %
97	NE00429	1	2	37	100	73	73
98	NE00435	1	4	17	100	48	48
99	NE00439	1	3	23	100	47	47
100	TAM-107	1	3	40	100	80	80
101	Karl 92	1	3	17	100	60	60
102	Arapahoe	0	1	7	100	39	39
103	local check 1	1	10	7	100	90	90
104	local check 2	0	1	10	100	74	74
105	local check 3	2	5	33	100	90	90
106	NE00456	0	1	3	100	44	44
107	NE00469	0	1	3	100	48	48
108	NE00479	0	.	0	100	40	40
109	NE00481	1	4	30	100	53	53
110	NE00507	0	1	27	100	47	47
111	NE00525	0	1	13	100	70	70
112	NE00544	1	4	23	100	50	50
113	NE00556	3	7	43	100	50	50
114	NE00564	1	6	17	100	78	78
115	NE00611	0	2	17	100	45	45
116	NE00616	2	4	57	100	50	50
117	NE00624	1	6	20	100	45	45
118	NE00633	1	6	17	100	23	23
119	NE00639	0	2	17	100	48	48
120	NE00658	2	6	30	100	43	43
121	NE00679	1	4	23	100	86	86
122	NE00687	1	4	13	100	60	60
123	NE00698	1	2	50	100	51	51
124	NW97S277	4	6	63	100	81	81
125	NW99L7083	0	6	7	100	65	65
126	KS950337-II-2	0	4	10	100	76	76
127	KS950352-M-4	1	6	23	100	64	64
128	KS950369-C-4	1	10	13	100	77	77
129	KS950369-C-6	1	8	13	100	80	80
130	KS950404-A-4	0	2	20	100	64	64
131	KS950409-P-4	1	4	17	100	51	51
132	KS950412-F-1	0	1	13	100	63	63
133	KS950412-F-2	1	4	30	.	.	.
134	KS950412-F-7	1	5	10	100	70	70
135	KS950412-F-8	1	7	17	100	66	66
136	KS950446-F-2	0	2	10	100	75	75
137	KS950446-N-3	1	6	13	100	50	50
138	KS950447-G-6	0	3	17	100	50	50
139	KS950334-T-4	1	10	7	100	84	84
140	KS950351-GG-1	1	2	33	.	.	.
141	KS950423-I-1	2	10	20	100	90	90
142	KS950493-A-2	3	7	47	100	58	58
143	KS95W175-2	1	9	13	100	46	46
144	KS95W175-3	1	3	23	100	86	86

Table 7. Reaction of entries in the 2002 to Fusarium head blight.

		Mead, Ne			Brookings, SD		
Entry	Line	Plot severity (0-10)	Head severity (0-10)	Infection incidence (%)	Infection incidence (%)	Severity incidence (%)	Disease %
145	OK99602	0	1	37	100	53	53
146	OK99610	3	7	43	100	64	64
147	OK99216	2	9	20	100	80	80
148	OK99207	1	4	17	100	58	58
149	OK99124	1	3	23	100	89	89
150	TAM-107	3	5	53	100	57	57
151	Karl 92	0	2	10	100	66	66
152	Arapahoe	1	3	17	100	50	50
153	local check 1	1	6	23	100	82	82
154	local check 2	0	1	13	100	90	90
155	local check 3	0	.	0	100	38	38
156	OK99219	0	1	20	100	67	67
157	OK99215	0	2	13	100	70	70
158	OK99115	1	4	13	.	.	.
159	OK99133	1	3	17	100	80	80
160	OK99203	2	3	57	100	79	79
161	OK99212	0	.	0	100	87	87
162	TX00A0012	1	3	20	100	77	77
163	TX00A0035	0	3	13	100	65	65
164	TX00A0059	1	2	30	100	66	66
165	TX00A0112	1	3	30	.	.	.
166	TX00A0155	1	4	30	100	66	66
167	TX00A0174	1	4	33	100	68	68
168	TX00A0181	0	8	3	100	38	38
169	TX00A0192	1	3	37	100	60	60
170	TX00A0198	0	2	27	100	78	78
171	TX00A0235	0	1	40	100	30	30
172	TX00A0241	1	3	27	100	88	88
173	TX00A0294	0	.	0	100	70	70
174	TX00A0307	1	6	20	100	44	44
175	TX00A0390	1	3	33	100	90	90
176	TX00A0391	2	8	23	100	79	79
177	TX00A0413	2	2	67	100	70	70
178	TX00A0414	1	3	47	100	44	44
179	TX00A0419	3	5	50	100	76	76
180	TX00A0440	2	7	23	100	46	46
181	TX00A0442	1	3	57	100	90	90
182	TX00A0448	4	6	60	100	68	68
183	TX00A0489	1	3	40	100	66	66
184	TX00A0515	2	3	57	100	56	56
185	TX00A0606	3	7	40	100	62	62
186	TX00A0658	1	3	20	.	.	.
187	TX00A0673	2	5	33	100	57	57
188	TX00A0690	1	6	20	100	64	64
189	TX00A0764	1	4	40	100	90	90
190	TX99A0562-2	1	7	10	100	72	72
191	TX01A5936	4	6	60	100	63	63
192	TX99A0638	1	5	27	100	55	55

Table 7. Reaction of entries in the 2002 to Fusarium head blight.

		Mead, Ne			Brookings, SD		
Entry	Line	Plot severity (0-10)	Head severity (0-10)	Infection incidence (%)	Infection incidence (%)	Severity incidence (%)	Disease %
193	TX99A0655	1	3	43	100	60	60
194	TX99A6235	1	6	23	100	45	45
195	TX99A6611	0	.	0	100	87	87
196	TX98A0116	1	4	27	100	59	59
197	TX99A0017	2	4	40	100	78	78
198	TX99A0025	2	7	27	100	50	50
199	TX99A0214	1	5	17	100	70	70
200	TAM-107	2	6	37	100	62	62
201	Karl 92	0	.	0	100	52	52
202	Arapahoe	1	7	17	100	45	45
203	local check 1	2	5	33	100	72	72
204	local check 2	0	10	3	100	65	65
205	local check 3	1	7	20	100	84	84
206	TX99A0216	1	6	20	100	70	70
207	TX99A6030	1	5	27	100	71	71
208	TX99A6634	1	2	40	100	70	70
209	TX97V2835	2	5	40	100	67	67
210	TX97V2836	1	3	30	100	75	75
211	TX98V6612	1	4	30	100	66	66
212	TX95V5314	1	4	33	100	62	62
213	TX97V2824	1	2	30	100	62	62
214	TX98VR8431	1	4	30	100	66	66
215	TX99A0023	1	3	33	100	37	37
216	TX99A0026	1	3	20	100	36	36
217	TX99A0154	2	4	47	100	66	66
218	TX99A0247	1	5	17	100	83	83
219	TX99A6434	1	4	20	100	53	53
220	NNS-GP90-14	2	5	30	100	59	59
221	NNS-GP90-13	1	6	17	.	.	.
222	TX97V5304	1	4	37	100	43	43
223	TX99V1813	1	3	33	100	41	41
224	TX99V2413	2	6	30	100	58	58
225	TX00V1117	1	4	23	100	60	60
226	TX00V1131	1	3	23	100	90	90
227	TX00V1221	1	4	37	100	57	57
228	CO970547	1	3	40	100	80	80
229	CO99508	0	2	17	100	68	68
230	CO99534	1	3	17	100	82	82
231	CO980376	1	3	27	100	76	76
232	CO980607	1	4	23	100	79	79
233	CO980630	1	2	27	100	58	58
234	CO980719	1	5	13	100	46	46
235	CO980829	1	4	13	100	64	64
236*	CO991057	1	6	10	100	52	52
237*	CO991132	0	3	13	100	90	90
238*	CO991350	1	5	13	100	69	69
239*	CO991407	0	3	13	100	63	63
240*	CO00D007	0	4	13	100	42	42

Table 7. Reaction of entries in the 2002 to Fusarium head blight.

		Mead, Ne			Brookings, SD		
Entry	Line	Plot severity (0-10)	Head severity (0-10)	Infection incidence (%)	Infection incidence (%)	Severity incidence (%)	Disease %
241*	CO00D011	1	3	20	100	68	68
242*	CO00D019	1	4	23	100	60	60
243*	CO00D032	1	4	20	100	45	45
244	CO99141	1	6	23	100	79	79
245	CO99148	1	4	20	100	64	64
246	CO99177	1	4	20	100	76	76
247	CO99314	1	5	13	100	64	64
248	CO99W013	0	3	10	100	72	72
249	CO99W033	0	4	10	100	82	82
250	TAM-107	0	6	7	100	76	76
251	Karl 92	0	3	13	100	63	63
252	Arapahoe	1	5	13	100	73	73
253	local check 1	0	3	13	100	40	40
254	local check 2	1	4	17	100	30	30
255	local check 3	1	6	13	100	90	90
256	CO99W076	1	4	20	100	77	77
257	CO99W078	0	4	13	100	83	83
258	CO99W081	1	4	13	100	73	73
259	CO99W183	0	3	13	.	.	.
260	CO99W188	1	4	17	100	71	71
261	CO99W192	1	5	13	100	42	42
262	CO99W254	1	5	13	100	53	53
263	CO99W277	1	5	17	100	73	73
264	CO99W329	1	6	13	100	57	57
265	TAM-107	1	4	17	100	70	70
266	Karl 92	1	3	17	100	67	67
267	Arapahoe	0	1	13	100	36	36
268	local check 1	0	2	17	100	33	33
269	local check 2	1	4	23	100	48	48
270	local check 3	1	5	17	100	77	77
271	NI01828	0	2	13	.	.	.
272	NI01803	1	4	17	100	58	58
273	NI01812	1	3	17	100	57	57
274	NI01823	0	4	13	100	62	62
275	NI01824	1	5	17	100	90	90
276	NI99416	1	3	17	100	90	90
277	NI98438	1	4	20	100	63	63