2001 Regional Germplasm Observation Nursery – Comments
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Environmental conditions during the winter of 2000/2001 prevented data observations at several RGON sites. The winter hardiness nursery at Williston, North Dakota was lost due to winter-kill of all entries. Good winter-hardiness data, however, were obtained from South Dakota and Nebraska. Conditions in Kansas did not favor development of viral diseases, so no wheat streak mosaic virus (WSMV) or wheat soilborne mosaic virus (WSBMV) observations were obtained from Hays or Manhattan. WSBMV observations were obtained from Stillwater, OK. Descriptions of local checks and experimental conditions are as follows:

Acid soil tolerance – Stillwater, OK: (Brett Carver, Oklahoma State University) **-** The standard used to determine acid-soil tolerance (AST) was 2163, with an assigned AST rating of 2 on a scale of 1 (tolerant) to 5 (susceptible). Local check 1 = Jagger; local check 2 = OK94P549-99-6704; local check 3 = Ok101(OK95571).

Heading dates/drought tolerance – Bushland, TX: (Mark Lazar, Texas A&M) – Days to heading recorded as days from 1/1/2001. Drought tolerance (DT) = plot average drought response rating on a 0 to 5 scale, where 0=flat, fully green flag leaf, 1=green, rolled leaf, 2= leaf senesced at tip only, 3=less than half of leaf senesced, 4=more than half of leaf senesced, and 5=fully senesced flag leaf. Local check 1= TAM 109; local check 2= TAM 200; local check 3 = Scout 66.

Vernalization response; stripe rust – Beeville, TX: (Dave Marshall, Texas A&M) – Lines rated on a response of 1-3, with 1 = no heading, 2 = late heading, 3 = normal plant development. Stripe rust susceptablity rated on a score of 0-5, with 0 = resistant or no infection. Local check 1 = Sturdy 2K; local check 2 = TAM 300; local check 3 = TAM 302.

Heading dates/winter survival, leaf rust – Brookings, SD: (Amir Ibrahim, South Dakota State University) Winter survival recorded on a scale of 0-9, where 0 = no survival. Heading dates in days from 1/1. Leaf rust as reaction type. Local check 1 = Harding; local check 2 = Crimson; local check 3 = Jagger.

Winter survival/tolerance to *Fusarium* head blight: - Mead, NE: (Steve Baenziger, University of Nebraska). Winter survival recorded on a scale of 0-10, where 0 = no survival. Tolerance to *Fusarium* head blight scored as % infection of inoculated plants grown under a misting system. Local check 1 = NE422T (triticale), local check 2 = Pronghorn, local check 3 = Wahoo!

Leaf rust/wheat soilborne mosaic virus: - Stillwater, OK (Bob Hunger and Jeanmarie Verchot, Oklahoma State University). Reaction to leaf rust was determined on seedlings inoculated with a mixture of *Puccinia recondita* f. sp. *tritici* races collected in Oklahoma during spring, 2000. The avirulence/virulence formula of this mixture of races on a set of single-gene differentials plus selected cultivars was: 2c 19 26 SXL / 1 2a 3 3ka 9 11 16

17 24 30 DNE CTY. 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 for leaf rust = Danne (1&2) and Thatcher Lr 19 (3).

Reaction to WSBMV:
One, 1-ft row of each entry was rated for WSBMV symptoms on 21 March 01, 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
ELISA=enzyme linked immunosorbent assay. Values from ELISA indicate the presence or absence of virus in tissue, but should not be used exclusively to determine reaction (I.e., resistance or susceptibility) to WSBMV. For additional explanation regarding the use of ELISA in evaluating reaction to WSBMV, see Hunger et al. 1991. Crop Science 31:900-905. For WSBMV, values from ELISA are the average of three wells per entry; where
- = no virus detected
-/+ = little virus detected
+ = virus
Local checks for WSBMV = Vona (1), Hawk (2) Sierra (3)

Seedling Stem Rust – St. Paul, MN: (Don McVey, USDA-ARS, Lincoln). Reaction type to selected races of stem rust. Local checks 1&2 = Red Chief, local check 3 = Cheyenne.

Russian wheat aphid / greenbug biotype E: (David Porter & Cheryl Baker, USDA-ARS, Stillwater, OK).

RWA screening: RWA colonies were poor at time of infestation. The first test was rated three days early (11-4-00) due to a conflict with the ASA meeting. The test was left in the greenhouse beyond the usual rating period and it was noticed that lines that had appeared to be homozygous resistant now appeared to be segregating for resistance. Therefore, this test was rerated on 11-21-00, after 5 weeks of infestation. Many that had appeared to be homozygous resistant in the early rating were found to be segregating for resistance in the later rating (RWA rating- test #1). Therefore, all lines showing any resistance were replanted and rescreened (RWA rating- test #2)*.
Local checks were 1) STARS-9302 (derived from PI 149898), 2) PI 372129, 3) STARS-3-8 (derived from PI 140207). The rating scale in Test #1 was S (susceptible); R (resistant-minor injury); and RR (highly resistant-no injury); SEG-R (initially appeared to be homozygous resistant, later found to be segregating); SEG (segregating).

The rating scale for Test #2 was S (susceptible); MS (stunted plants with severe chlorosis but no leaf rolling); Roll (looseleaf rolling with no streaking); M (some stunting, some streaking, no rolling); MR (moderately resistant-minor streaking); R (resistant-some flecking); RR (highly resistant- no damage)

Greenbug Biotype E screening: This test was planted as three groups.
Group I Entries #1- 132
Group II: Entries 133- 264
Group III: Entries 265- 395

Local checks were 1) Amigo, 2) Largo, 3) GRS 1201

Russian wheat aphid: (Scott Haley, Colorado State University) - Eleven seeds of each were planted, the number of plants was only counted where a heterogeneous reaction was noted. In these cases, the number of resistant plants was also determined). The inclusion of the Rplant/Nplant information might help with interpretation of heterogeneous ratings. Rating 1 was taken about two weeks post-infestation, Rating 2 was taken about 10 days after this. The rating scale is a combined rating of leaf rolling, leaf chlorosis, stunting, and plant death, with the following categories: 1-VR, 2-R, 3-MR, 4-S, 5-VS.
Local checks = Prowers 99 (1) Akron (2) Halt (3).

Table 1. Entries in the 2001 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	NWX008068	waxy	BaiHuo/Kanto107//Ike	ARS-LNK
8	NWX008069	waxy	BaiHuo/Kanto107//Ike	ARS-LNK
9	NWX008070	waxy	BaiHuo/Kanto107//Ike	ARS-LNK
10	NWX008075	waxy	BaiHuo/Kanto107//Ike	ARS-LNK
11	NWX008087	waxy	BaiHuoMai/Ike	ARS-LNK
12	NWX008092	waxy	BaiHuoMai/Ike	ARS-LNK
13	NWX008093	waxy	BaiHuoMai/Ike	ARS-LNK
14	NWX008094	waxy	BaiHuoMai/Ike	ARS-LNK
15	NWX008106	waxy	BaiHuoMai/Ike	ARS-LNK
16	NWX008109	waxy	BaiHuo/Kanto107//Ike	ARS-LNK
17	NWX008118	waxy	BaiHuo/Kanto107//Ike	ARS-LNK
18	NW99L7011	HWW	N91L122/Arlin	ARS-LNK
19	NW99L7032	HWW	KM 602-90/NE89657//Arlin	ARS-LNK
20	NW99L7033	HWW	KM 602-90/NE89657//Arlin	ARS-LNK
21	NW99L7036	HWW	KM 602-90/NE89657//Arlin	ARS-LNK
22	NW99L7039	HWW	KM 602-90/NE89657//Arlin	ARS-LNK
23	NW99L7042	HWW	KM 602-90/NE89657//Arlin	ARS-LNK
24	NW99L7067	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
25	NW99L7068	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
26	NW99L7069	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
27	NW99L7074	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
28	NW99L7076	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
29	NW99L7078	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
30	TAM-107	HRW	PI 495594	check
31	Arapahoe	HRW	PI 518591	check
32	Karl 92	HRW	PI 564245	check
33	local check 1		see comments	check
34	local check 2		see comments	check
35	local check 3		see comments	check
36	NW99L7079	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
37	NW99L7080	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
38	NW99L7081	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
39	NW99L7083	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
40	NW99L7118	HWW	Dunav-1/3/NE701136/NS11-52/2/NB68570/Aurora/4/NE7060/NE74646/5/KS831170/6/…	ARS-LNK
41	NW99L7121	HWW	KS84HW1968*RioBlanco/HBY762A/4/Sumner/CO820026,F1/2/PI372129,F1/3/TAM-107	ARS-LNK
42	NW99L7131	HWW	AP-WI88-137/N92L005	ARS-LNK
43	NW99L7134	HWW	CO850034//T-57/5*TAM107/3/(KS91H174/RBL/KS91HW29//VISTA)	ARS-LNK
44	NW99L7139	HWW	YUMA//T-57/3/LAMAR/4/4*YUMA/5/(KS91H184/ARLIN S/KS91HW29//NE89526)	ARS-LNK
45	NW99L7145	HWW	AP-WI88-137/N92L088	ARS-LNK
46	NW99L7171	HWW	VH09553-753/N91L019//AP-WI89-163	ARS-LNK
47	NW99L7089	HWW	KS91H174/RIO BLANCO/2/KS91/3/NE82413 xColt	ARS-LNK
48	NW99L7181	HWW	KS831672/3/Rannaya 12/Bez.4/2/Lancota/F9-67/4/KS84HW196*RioBlanco/HBY762A	ARS-LNK
49	NW99L7198	HWW	NE87449/N86L200/3/KS91H174/RioBlanco/2/KS91	ARS-LNK
50	CO950043	HRW	Hill/PI294994-GBR//Lamar	CSU
51	CO970498	HRW	Ogallala/Halt	CSU

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Entry	Line	putative market class	Cultivar or pedigree	Source
52	CO970531	HRW	Ike/Halt	CSU
53	CO970547	HRW	Ike/Halt	CSU
54	CO970552	HRW	Ike/Halt	CSU
55	CO970940	HRW	Yuma/T-57//Lamar/3/4*Yuma/4/NEWS16	CSU
56	CO970943	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
57	CO980358	HRW	CO850034/T-57//5*TAM 107/3/NEWS10	CSU
58	CO980368	HRW	CO850034/T-57//5*TAM 107/3/NEWS10	CSU
59	CO980376	HRW	CO850034/T-57//5*TAM 107/3/NEWS02	CSU
60	TAM-107	HRW	PI 495594	check
61	Arapahoe	HRW	PI 518591	check
62	Karl 92	HRW	PI 564245	check
63	local check 1		see comments	check
64	local check 2		see comments	check
65	local check 3		see comments	check
66	CO980382	HRW	CO850034/T-57//5*TAM 107/3/NEWS02	CSU
67	CO980424	HRW	CO850034/T-57//5*TAM 200/3/NEWS03	CSU
68	CO980443	HRW	CO850034/T-57//5*TAM 200/3/NEWS03	CSU
69	CO980454	HRW	CO850034/T-57//5*TAM 200/3/NEWS03	CSU
70	CO980459	HRW	CO850034/T-57//5*TAM 200/3/NEWS03	CSU
71	CO980607	HRW	Yuma/T-57//TAM 200/3/4*Yuma/4/NEWS08	CSU
72	CO980629	HRW	Yuma/T-57//TAM 200/3/4*Yuma/4/NEWS08	CSU
73	CO980630	HRW	Yuma/T-57//TAM 200/3/4*Yuma/4/NEWS08	CSU
74	CO980684	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
75	CO980685	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
76	CO980697	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
77	CO980704	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
78	CO980712	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
79	CO980719	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
80	CO980721	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS18	CSU
81	CO980779	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS17	CSU
82	CO980829	HRW	Yuma/T-57//CO850034/3/4*Yuma/4/NEWS12	CSU
83	CO99D679	HRW	Yumar//TXGH12588-120*4/FS2	CSU
84	CO99D695	HRW	Yumar//TXGH12588-120*4/FS2	CSU
85	CO99D726	HRW	Yumar//TXGH12588-120*4/FS2	CSU
86	G980984	HRW	SIERRA/KARL92//R17105	Goertzen Seed
87	G982231	HRW	N87V106/TX90V8733	Goertzen Seed
88	G980091	HRW	G1891/HALT	Goertzen Seed
89	G980129	HWW	G14106/KARL92	Goertzen Seed
90	TAM-107	HRW	PI 495594	check
91	Arapahoe	HRW	PI 518591	check
92	Karl 92	HRW	PI 564245	check
93	local check 1		see comments	check
94	local check 2		see comments	check
95	local check 3		see comments	check
96	N97L9758-2	HRW	Redland/GRS1204	ARS-LNK
97	N97L9758-3	HRW	Redland/GRS1204	ARS-LNK
98	N97L9758-10	HRW	Redland/GRS1204	ARS-LNK
99	N97L9758-47	HRW	Redland/GRS1204	ARS-LNK
100	G980122	HWW	RMNF/JUP'S'//B17604/3/KARL92	Goertzen Seed
101	G980172	HWW	SNOWWHITE/IKE	Goertzen Seed
102	G980234	HWW	G14183/SNOWWHITE	Goertzen Seed
103	G980411	HWW	G3006/ARLIN	Goertzen Seed
104	G980661	HWW	TRINAKRIA/KARL92	Goertzen Seed
105	G980866	HRW	9112086/JAGGER	Goertzen Seed
106	G982131	HWW	AC465/B288D//B384B/3/JAGGER	Goertzen Seed

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Entry	Line	putative market class	Cultivar or pedigree	Source
107	G980933	HRW	KARL92/B12023	Goertzen Seed
108	G982462	HWW	95KGT-96HV (BULK POPULATION)	Goertzen Seed
109	G982158	HRW	GSR2500/KARL92	Goertzen Seed
110	G982048	HRW	AC465/B288D//B384B/3/JAGGER	Goertzen Seed
111	G982163	HRW	CUSTER/JAGGER	Goertzen Seed
112	G982251	HRW	N87V107/BETTY	Goertzen Seed
113	G982168	HRW	B14167/SNOWWHITE	Goertzen Seed
114	G982238	HRW	N87V107/BETTY	Goertzen Seed
115	G970007	HRW	G2542/G62//G1420	Goertzen Seed
116	KS99HW1-3	HWW	93H66/94HW297orHW301	KSU
117	KSKS99HW1-6	HWW	93H66/94HW297orHW301	KSU
118	KS99HW2-1	HWW	93H66/94HW297orHW301	KSU
119	KS99HW2-2	HWW	93H66/94HW297orHW301	KSU
120	TAM-107	HRW	PI 495594	check
121	Arapahoe	HRW	PI 518591	check
122	Karl 92	HRW	PI 564245	check
123	local check 1		see comments	check
124	local check 2		see comments	check
125	local check 3		see comments	check
126	KS99HW2-4	HWW	93H66/94HW297orHW301	KSU
127	KS99HW3-1	HWW	93H66/94HW297orHW301	KSU
128	KS99HW3-2	HWW	93H66/94HW297orHW301	KSU
129	KS00HW15	HWW	KS94HW33(ND ETC/4/KS87H186(NRK/T108))/KS95HW16(KS90HW53/KS91H184//RB)	KSU
130	KS00HW16	HWW	KS94HW33(ND ETC/4/KS87H186(NRK/T108))/KS95HW16(KS90HW53/KS91H184//RB)	KSU
131	KS00HW17	HWW	KS94HW33(ND ETC/4/KS87H186(NRK/T108))/KS95HW16(KS90HW53/KS91H184//RB)	KSU
132	KS00HW27	HWW	KS94HW33(ND ETC/4/KS87H186(NRK/T108))/KS95HW16(KS90HW53/KS91H184//RB)	KSU
133	KS00HW32	HWW	KS94HW115/KS94HW131(KS84HW196/RB//HBY762A)	KSU
134	KS00HW34	HWW	KS94HW115/KS94HW131(KS84HW196/RB//HBY762A)	KSU
135	KS00HW35	HWW	KS94HW115/KS94HW131(KS84HW196/RB//HBY762A)	KSU
136	KS00HW40	HWW	KS94HW80/KS95HW30(KS84HW200/KS83H139//KS91H184/3/RB)	KSU
137	KS00HW59	HWW	KS94HW87/KS95HW16(KS90HW53/KS91H184//RB)	KSU
138	KS00HW65	HWW	KS94HW100/KS94HW115(HBA142A/HBZ621A//RB)	KSU
139	KS00HW79	HWW	KS93HW292/3/85W663-11-6-1//KS91H184/3*RB	KSU
140	KS00HW81	HWW	KS93HW292/3/85W663-11-6-1//KS91H184/3*RB	KSU
141	KS00HW82	HWW	KS93HW292/3/85W663-11-6-1//KS91H184/3*RB	KSU
142	KS00HW83	HWW	KS93HW292/3/85W663-11-6-1//KS91H184/3*RB	KSU
143	KS00HW115	HWW	KS94HW117//JAGGER/KS94HW301	KSU
144	KS00HW120	HWW	KS94HW117//JAGGER/KS94HW301	KSU
145	KS00HW151	HWW	KS94HW117//KS91H153/KS94HW301	KSU
146	KS00HW152	HWW	KS94H871//VISTA/KS94HW301	KSU
147	KS00HW171	HWW	KS96HW94RS1(ARLIN/KS89H20)	KSU
148	KS00HW177	HWW	KS96HW94RS6(ARLIN/KS89H20)	KSU
149	KS00HW183	HWW	ARL/89H20	KSU
150	TAM-107	HRW	PI 495594	check
151	Arapahoe	HRW	PI 518591	check
152	Karl 92	HRW	PI 564245	check
153	local check 1		see comments	check
154	local check 2		see comments	check
155	local check 3		see comments	check
156	OK94P549-99-6704	HRW	HBY756A/Siouxland//2180	OSU
157	OK94P549-99-6705	HRW	HBY756A/Siouxland//2180	OSU
158	OK94P549-99-6702	HRW	HBY756A/Siouxland//2180	OSU
159	OK94P549-99-6736	HRW	HBY756A/Siouxland//2180	OSU
160	OK94P549-98-6611	HRW	HBY756A/Siouxland//2180	OSU
161	OK94P549-98-6621	HRW	HBY756A/Siouxland//2180	OSU

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Entry	Line	putative market class	Cultivar or pedigree	Source
162	OK96705-99-6745	HRW	2180/OK88803//Abilene	OSU
163	OK96705-99-6738	HRW	2180/OK88803//Abilene	OSU
164	OK96717-99-6756	HRW	Abilene/2180//Chisholm	OSU
165	OK98680	HRW	Odessa 06/Mesa	OSU
166	OK97508	HRW	2174/Cimarron	OSU
167	OK98697	HRW	TAM 200/HBB313E//2158 Seln	OSU
168	OK98699	HRW	TAM 200/HBB313E//2158 Seln	OSU
169	OK98690	HRW	OK91724/Karl	OSU
170	OK93P656-RMH3299	HRW	WO405D/HGF112//W7469C/HCF012	OSU
171	OK95616-98-6756	HRW	TXGH13622/2180	OSU
172	OK93P727-RMH3499	HRW	SGC008/W1060B//HBY242G2	OSU
173	OK95548-98-6654	HRW	OK86216/Cimarron sib//2180	OSU
174	OK95567-98-6704	HRW	OK87W663/2157//2180	OSU
175	OK92P577-RMH3099	HRW	2158 sib/2157//2180	OSU
176	SD98206	HRW	HBZ374C/NE93462	SDSU
177	SD98208	HRW	HBZ374C/NE93462	SDSU
178	SD98224	HRW	ID13.1/MTL SIB--71//NIOBRARA/3/NE89526	SDSU
179	SD98243	HRW	KS84063-9-39-3/NE86606	SDSU
180	TAM-107	HRW	PI 495594	check
181	Arapahoe	HRW	PI 518591	check
182	Karl 92	HRW	PI 564245	check
183	local check 1		see comments	check
184	local check 2		see comments	check
185	local check 3		see comments	check
186	SD98251	HRW	KS84063-9-39-3/NE86606	SDSU
187	SD98272	HRW	KS84063-9-7/CHISHOLM//NE92522	SDSU
188	SD98282	HRW	KS91H184/N93LOO5	SDSU
189	SD98428	HRW	RENAN/Alliance//NE90476	SDSU
190	SD97W604-1□□□	HWW	Gent/SXL//Abilene	SDSU
191	SD97W639-2□□□	HWW	RioBlanco/Redland	SDSU
192	SD99W001	HWW	EG NE92522/Arlin	SDSU
193	SD99W002	HWW	KS82W418/SPN/3/KS82W422/SWM754308//KS831182/KS82W422	SDSU
194	SD99W012	HWW	KS82W422/SWM754308//KS831182/KS82W422/3/KS82W418/SPN	SDSU
195	SD99W022	HWW	X85W663-3-2/K/3/K'S'/VE110//PVI66-86/4/KS82W422/SWM754308//KS831182/KS82W422	SDSU
196	SD99W028	HWW	KS82W418/SPN/3/KS82W422/SWM754308//KS831182/KS82W422	SDSU
197	STARS-OK00703	HRW	Karl 92/4/Karl/3/TAM W-101//Chisholm/PI 366616	ARS-Stillwater
198	STARS-OK00706	HRW	Custer/4/Karl//Bobwhite/PI 149898/3/Karl 92	ARS-Stillwater
199	STARS-OK00711	HRW	Custer/4/TAM W-101//Csm/PI 245462/3/Karl 92	ARS-Stillwater
200	STARS-OK00714	HRW	Custer/4/Karl 92/3/Csm//Csm/PI 225217	ARS-Stillwater
201	STARS-OK00725	HRW	TAM W-101//Chisholm/PI 245462	ARS-Stillwater
202	STARS-OK00726	HRW	TAM W-101//Chisholm/PI 245462	ARS-Stillwater
203	STARS-OK00730	HRW	Karl/3/Tam-101//Chisholm/PI 366616	ARS-Stillwater
204	STARS-OK00734	HRW	Custer/4/Karl//Bobwhite/PI 149898/3/Karl 92	ARS-Stillwater
205	TAM-107	HRW	PI 495594	check
206	Arapahoe	HRW	PI 518591	check
207	Karl 92	HRW	PI 564245	check
208	local check 1		see comments	check
209	local check 2		see comments	check
210	local check 3		see comments	check
211	TX95A1161	HRW	TAM W-101//NE78488/VEERY	TX A&M
212	TX96A0148	HRW	TX89-122/TX89V1209	TX A&M
213	TX97A0071	HRW	TX78V2430-2/TX86V1540//KS89H50-4	TX A&M
214	TX97A0072	HRW	TX81V6603/TX78A3345-V34//U1254-4-4-9-1	TX A&M
215	TX97A0122	HRW	TX88V4328/TX87V1613//TX87V1233-1	TX A&M

Table 1. Entries in the 2001 Regional Germplasm Observation Nursery (RGON).

Entry	Line	putative market class	Cultivar or pedigree	Source
216	TX97A0149	HRW	TAM-200*2/TA2460//TX89V4212/3/TAM-202	TX A&M
217	TX97A0151	HRW	TAM-200*2/TA2460//2*TAM202	TX A&M
218	TX97A0169	HRW	TX71A562-6*4/AMI*4//LGO/3/TX88V5431	TX A&M
219	TX97A0214	HRW	TAM W101*4/AMI*5//LGO/3/TAM109	TX A&M
220	TX97A0219	HRW	TX71562-6*4/AMI*4//LGO/3/NE86582	TX A&M
221	TX97A0244	HRW	TAM 105*4/AMI*5//LGO/3/STURDY	TX A&M
222	TX97A0282	HRW	KS8010*-72/TAM-200	TX A&M
223	TX97A0284	HRW	KS8010*-72/TAM-200	TX A&M
224	TX98A0010	HRW	2163/U1254-4-9-8-V41	TX A&M
225	TX98A0032	HRW	KS92PO363-134/183 P5-11	TX A&M
226	TX98A0058	HRW	TX84V1307/TX87V1613	TX A&M
227	TX98A0064	HRW	TX86V1540/ARAPAHOE	TX A&M
228	TX98A0118	HRW	TX91A403/U1254-4-7-2-V10	TX A&M
229	TX98A0130	HRW	TX78V2430-2/TX86V1540//TX90A9524	TX A&M
230	TX98A0190	HRW	COKER 68-15/ARLAN//OK88767-02	TX A&M
231	TX98VR8410	HRW	ERONGA/2*TXGH12671//TAM-200/3/2*TAM-202	TX A&M
232	TX98VR8421	HRW	TX89RWA-30/2*TAM-202	TX A&M
233	TX98VR8426	HRW	TX89RWA-26/2*TAM-202	TX A&M
234	TX98VR8431	HRW	PI137739/3*TAM-202-(15R-12)-H5080-1GH	TX A&M
235	TX99A5016	HRW	TX86V1540/LCO//TAM-201	TX A&M
236	TX99A5434	HRW	MADSEN/KS8010*-72//TX81V6599-1/3/KARL	TX A&M
237	TX99A5440	HRW	MADSEN/KS8010*-72//TX81V6599-1/3/KARL	TX A&M
238	TX99A5816	HRW	TX86V1540/TX90A9524	TX A&M
239	TX99A6610	HRW	TX87A6763/3/TX86V1540//LIND/TAN'S'	TX A&M
240	TAM-107	HRW	PI 495594	check
241	Arapahoe	HRW	PI 518591	check
242	Karl 92	HRW	PI 564245	check
243	local check 1		see comments	check
244	local check 2		see comments	check
245	local check 3		see comments	check
246	TX99A6611	HRW	TX87A6763/3/TX86V1540//LIND/TAN'S'	TX A&M
247	TX98D1519		TX88V4123/TAM 300 (=WX89D010-16-11)	TX A&M
248	TX98D1894		TAM 201/Coker 9835 (=WX93D032-15-9)	TX A&M
249	TX98D2210		Adder/WX86D109-6 (=WX89D066-865-531-11)	TX A&M
250	TX98D3456		TX92D7619/TX92D7761 (=WX92D158-82-6)	TX A&M
251	TX99D4031		Len/TAM 200//TAM 107 (=WX86D008-9-2-56-1-2-5)	TX A&M
252	TX99D4033		Len/TAM 200//TAM 107 (=WX86D008-9-2-56-1-5-21)	TX A&M
253	TX99D4043		WX86D109-6/Adder (=WX89D065-14-36)	TX A&M
254	TX99D4147		Kitt/Caldwell//TAM 300/TX88D3385 (=WX90D178-4-19-39-18)	TX A&M
255	TX99D4148		AFS93043 (=TX94D043-7-37)	TX A&M
256	TX99D4151		AFS93175 (=TX94D175-1-33)	TX A&M
257	TX99D4244		WX86D109-6/TX88D3495 (=WX89D237-2-16-3-9-6)	TX A&M
258	TX99D4247		SWM12362/TAM 302 (=WX94D005-4-19)	TX A&M
259	TX99D4362		TX89V4132/TX90D9716 (=X93V228-D14)	TX A&M
260	TX99D4389		TX90V7912/TX91V3308 (=X93V266-D50)	TX A&M
261	TX99D4409		TX92V2313/TX91V4920 (=X93V340-D12)	TX A&M
262	TX99D4441		TX87V1209//Coker 762/TX86V1405 (=TX91-98-1-D13)	TX A&M
263	TX99D4578		83YldComp#21/W3432//W9426C (=TX93D4721-3-39-35) (HB..	TX A&M
264	TX99D4596		RL6078/G8184 (=WX89D119-416-BVL)	TX A&M
265	TX99D4600		WX86D109-6/Adder (=WX89D065-36-9-BVL)	TX A&M
266	TX99D4612		WX86D109-6/Adder (=WX89D065-33-14-BVL)	TX A&M
267	TX99D4622		WX86D109-6/TX88D3495 (=WX89D237-5-678-29-BVL)	TX A&M
268	TX99D4628		WX89D119//WX89D222 (=WX90D174-1-3-954-4-BVL)	TX A&M
269	TX99D4657		TX88D3424*3/TTCC106 (=WX93D247-3-17-10-BVL)	TX A&M
270	TAM-107	HRW	PI 495594	check

Table 1. Entries in the 2001 Regional Germplasm Observation Nursery (RGON).

Entry	Line	putative market class	Cultivar or pedigree	Source
271	Arapahoe	HRW	PI 518591	check
272	Karl 92	HRW	PI 564245	check
273	local check 1		see comments	check
274	local check 2		see comments	check
275	local check 3		see comments	check
276	TX99D4664		TXGH12588/Siouxland//TX87V1209 (=WX90D045-27-9-7-BVL)	TX A&M
277	TX99D4682		RL6048/G8184//WX85D012/Besostaya (=WX90D174-929-56-6-..	TX A&M
278	X940786-1-6		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
279	X940786-6-4		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
280	X940793-10-6		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
281	X940786-6-7		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
282	X940793-10-7		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
283	X940786-6-9		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
284	X940793-10-8		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
285	X940786-6-10		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
286	X940786-6-11		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
287	X940786-17-3		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
288	X940828-6-5		KS85W663-7-4-2//KS85W663-7-7-3/APE/3/JGR	KSU
289	X940878-15-6		KS85W663-7-4-2//KS85W663-7-7-3/APE/3/JGR	KSU
290	X941049-1-1		HBK0935-12/KS85W663-11-6-1//KS85W663-11-6-1/3/P2548	KSU
291	X941049-1-2		HBK0935-12/KS85W663-11-6-1//KS85W663-11-6-1/3/P2548	KSU
292	X941108-15-3		U1265-4-5-5/LRO//0337-112/3/K92	KSU
293	X950535-2		TOMAHAWK/KSU94U331	KSU
294	X950581-3		KSU94U284/OGALLALA	KSU
295	X950677-2		KS92H408-6/KSU94U323	KSU
296	X950677-5		KS92H408-6/KSU94U323	KSU
297	X950726-4		HBK0736-3/(W)-Arlin	KSU
298	X940748-2-2		JCAM/EMU//DOVE/3/JGR/4/THK	KSU
299	X940603-5-1		KS92WGRC21/88HF004-6-32-2//059E-117/3/K92	KSU
300	X940748-2-4		JCAM/EMU//DOVE/3/JGR/4/THK	KSU
301	X940748-12-2		JCAM/EMU//DOVE/3/JGR/4/THK	KSU
302	TAM-107	HRW	PI 495594	check
303	Arapahoe	HRW	PI 518591	check
304	Karl 92	HRW	PI 564245	check
305	local check 1		see comments	check
306	local check 2		see comments	check
307	local check 3		see comments	check
308	X940786-17-2		U1275-1-4-2-2/KS85W663-7-4-2//JGR	KSU
309	X940793-2-2		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
310	X940793-9-1		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
311	X940793-9-5		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
312	X940793-10-4		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
313	X940793-10-5		KS86231B-10-1/KS85W663-7-4-2/4/2571	KSU
314	NI99412		NE88584/KSSB-369-7//ABILENE	UNL
315	NI99416		ALLIANCE/KARL 92	UNL
316	NI98414		NE90614/ * 2 NE87612	UNL
317	NE99410		NE90476/KS89H48-1	UNL
318	NE99424		TX90V7912/ABILENE	UNL
319	NE99445		RAWHIDE/TOMAHAWK//KARL 92	UNL
320	NE99464		NE86606/RAWHIDE//ABILENE	UNL
321	NE99469		NE87V106/NE88588//KARL 92	UNL
322	NE99489		NE90625/NE91525//KARL 92	UNL
323	NE99495		ALLIANCE/KARL 92	UNL
324	NE99510		NE92522/KSSB-369-7 WHITE	UNL
325	NE99513		NE92628/NE89522	UNL

Table 1. Entries in the 2001 Regional Germplasm Observation Nursery (RGON).

Entry	Line	putative market class	Cultivar or pedigree	Source
326	NE99529		TX90V7912/ABILENE	UNL
327	NE99533		TX90V7912/ABILENE	UNL
328	NE99542		ALLIANCE/KARL 92	UNL
329	NE99543		ALLIANCE/KARL 92	UNL
330	TAM-107	HRW	PI 495594	check
331	Arapahoe	HRW	PI 518591	check
332	Karl 92	HRW	PI 564245	check
333	local check 1		see comments	check
334	local check 2		see comments	check
335	local check 3		see comments	check
336	NE99552		ID13.1/MTL SIB--73/RAWHIDE//RAWBE	UNL
337	NE99554		NE87612 (=NEWTON//WRR 5*/AGENT//N	UNL
338	NE99575		NE90574/KSSB-369-7 WHITE	UNL
339	NE99578		RAWHIDE/TOMAHAWK//KARL 92	UNL
340	NE99579		TOMAHAWK/NE88584//NE89657	UNL
341	NE99585		KS91H184/ARAPAHOE	UNL
342	NE99656		TX89V4138/NE89657//KARL 92	UNL
343	NE99675		NE88584/KSSB-369-7//ABILENE	UNL
344	N99L012		KS87W822-2-1/N87V106	UNL
345	N99L033		KS87W8222-2-1/N87V106	UNL
346	NI98438		WINDSTAR/NE87612	UNL
347	MTW0049	HWW	Judith/PI262605//S86-740	Montana St.
348	MT0053	HRW	MT8709/Tiber//Erhardt	Montana St.
349	MT0077	HRW	Judith/CO860086	Montana St.
350	MT0080	HRW	Judith/Arapahoe	Montana St.
351	MT0081	HRW	MT8713/S86-740	Montana St.
352	MT0088	HRW	S86-736/SD89341	Montana St.
353	MT0091	HRW	AC Readymade/Jules	Montana St.
354	MT0092	HRW	AC Readymade/Jules	Montana St.
355	MT0097	HRW	Erhardt//Judith/Kestrel	Montana St.
356	MT0099	HRW	Erhardt//Judith/Kestrel	Montana St.
357	MT00101	HRW	HBC302E/Erhardt	Montana St.
358	MT00108	HRW	MT9221/McGuire	Montana St.
359	MT00117	HRW	Judith/PI499377	Montana St.
360	TAM-107	HRW	PI 495594	check
361	Arapahoe	HRW	PI 518591	check
362	Karl 92	HRW	PI 564245	check
363	local check 1		see comments	check
364	local check 2		see comments	check
365	local check 3		see comments	check
366	MT00118	HRW	PI262605/MT7863//Redwin	Montana St.
367	MTWR0121	HWW	PI372129/MT8713//Tiber	Montana St.
368	MTR00124	HRW	PI262605/Tiber//Redwin	Montana St.
369	MTR00129	HRW	PI222668/3*Judith	Montana St.
370	MTR00133	HRW	PI222668/3*Judith	Montana St.
371	MT00142	HRW	Meridian/CO870434	Montana St.
372	MT00154	HRW	SD88191//Judith/Blizzard	Montana St.
373	MT00156	HRW	Blizzard/Redwin//SD88191	Montana St.
374	MT00159	HRW	Promontory/Judith	Montana St.
375	MTS008	HRW	Vanguard/KS88H121	Montana St.
376	MTS0012	HRW	Neeley/MT8713//MTS92127	Montana St.
377	MTS0013	HRW	Neeley/CH54//MTS92137	Montana St.
378	MTS0019	HRW	Judith*2/Vanguard	Montana St.
379	MTS0023	HRW	MTS92021//Judith/Arapahoe	Montana St.
380	MTS0030	HRW	MTS92015//Vanguard/Norstar	Montana St.

Table 1. Entries in the 2001 Regional Germplasm Observation Nursery (RGON).

Entry	Line	putative market class	Cultivar or pedigree	Source
381	MTS0031	HRW	MTS92015//Vanguard/Norstar	Montana St.
382	KS99U674		TAM-107*3/TA1715	ARS-Manhattan
383	KS99U716		Karl92*3/TA2468	ARS-Manhattan
384	KS99U723		Wrangler/W3//Jagger*2	ARS-Manhattan
385	KS00U754		KS90WGRC10sib*3/TA2455/3/WGRC10//Karl*3/PI355520	ARS-Manhattan
386	KS00U755		KS94U276//KS90WGRC10sib*3/TA2455	ARS-Manhattan
387	KS00U756		KS94U276//KS90WGRC10sib*3/TA2455	ARS-Manhattan
388	KS00U757		KS94U276//KS90WGRC10sib*3/TA2455	ARS-Manhattan
389	KS00U758		Jagger/3/Karl*3//PI266844/PI355520	ARS-Manhattan
390	TAM-107	HRW	PI 495594	check
391	Arapahoe	HRW	PI 518591	check
392	Karl 92	HRW	PI 564245	check
393	local check 1		see comments	check
394	local check 2		see comments	check
395	local check 3		see comments	check

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
1	TAM-107	4	5	129		1	3		2.5
2	Karl 92	4	5	129		1	3		3.5
3	Arapahoe	3	4	137		1	8		2.5
4	local check 1	1	2	133		1	5		2
5	local check 2	3	3	131	168	1	9	4	3
6	local check 3	2	1	135	166	1	9	7	4
7	NWX008068	4	4	125		2	1	0	2.5
8	NWX008069	3	4	126	166	3	0	1	2.5
9	NWX008070	4	5	125		3	1	0	3
10	NWX008075	3	4	125	165	3	2	1	3
11	NWX008087	4	4	126		3	1	0	3
12	NWX008092	4	5	127	166	3	1	1	2.5
13	NWX008093	3	4	126	167	2	5	1	2.5
14	NWX008094	2	4	128	167	2	6	2	3
15	NWX008106	3	4	131	167	3	4	2	2.5
16	NWX008109	4	4	127	167	3	1	3	3
17	NWX008118	4	5	129	167	2	0	2	2
18	NW99L7011	3	4	136	169	1	2	5	3
19	NW99L7032	4	4	132	170	1	3	1	3
20	NW99L7033	3	3	132	169	1	0	1	2.5
21	NW99L7036	3	3	135		1	0	0	2.5
22	NW99L7039	2	1	134	168	1	5	2	3
23	NW99L7042	3	3	136	169	1	5	2	3
24	NW99L7067	3	4	130	169	1	2	3	2.5
25	NW99L7068	4	4	130	168	1	3	3	2.5
26	NW99L7069	3	3	131	169	1	7	3	3.5
27	NW99L7074	4	4	132	168	1	8	2	3.5
28	NW99L7076	1	2	131	168	1	7	4	4
29	NW99L7078	1	1	131	169	1	3	1	3
30	TAM-107	3	4	128	166	1	6	4	2.5
31	Arapahoe	4	3	137	172	1	9	2	2.5
32	Karl 92	4	5	129	166	1	7	7	3.5
33	local check 1	1	1	132	172	1	8	1	1.5
34	local check 2	2	3	130	171	1	8	4	2
35	local check 3	1	1	135	166	1	9	1	4
36	NW99L7079	3	4	131	167	1	1	3	3
37	NW99L7080	4	4	131	169	1	4	3	2.5
38	NW99L7081	4	5	130	168	1	2	5	3
39	NW99L7083	3	3	129	167	1	6	3	2.5
40	NW99L7118	2	2	137	169	1	7	6	2
41	NW99L7121	3	4	132	169	1	6	3	3.5
42	NW99L7131	3	4	131	169	3	2	3	2.5
43	NW99L7134	4	5	129	165	1	7	4	4
44	NW99L7139	4	4	132	168	1	1	4	3
45	NW99L7145	4	4	137	171	1	6	1	2.5
46	NW99L7171	3	4	137	173	1	8	1	2
47	NW99L7089	3	5	129	171	1	8	1	3
48	NW99L7181	4	4	130	167	1	2	1	3.5
49	NW99L7198	2	4	128	169	2	0	1	2
50	CO950043	2	4	129	169	1	4	1	2
51	CO970498	2	3	129	167	1	5	3	2.5
52	CO970531	2	4	130	168	1	5	2	3.5
53	CO970547	1	4	129	167	1	2	3	3
54	CO970552	3	4	131	166	1	2	2	4
55	CO970940	--	--	130		2	0	0	3

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
56	CO970943	3	3	131	168	1	1	1	2.5
57	CO980358	3	4	130		1	7	0	3
58	CO980368	3	3	131	167	1	7	1	2
59	CO980376	1	3	130	168	1	7	1	2.5
60	TAM-107	4	5	128	166	1	8	2	2.5
61	Arapahoe	4	3	137	169	1	9	5	2.5
62	Karl 92	3	3	129	167	1	5	5	3
63	local check 1	2	2	132	172	1	9	1	2
64	local check 2	2	2	1331	170	1	9	1	2.5
65	local check 3	1	2	134	166	1	9	1	4
66	CO980382	4	4	129	168	1	7	1	3
67	CO980424	4	3	135	171	1	1	1	2.5
68	CO980443	4	4	134	169	2	1	2	2
69	CO980454	4	3	130	172	2	1	1	2.5
70	CO980459	3	3	130	173	2	0	1	2.5
71	CO980607	4	4	129	171	3	0	1	2
72	CO980629	4	4	127	169	1	0	1	2
73	CO980630	3	3	128	170	2	1	1	2.5
74	CO980684	3	4	128		1	3	0	3
75	CO980685	4	4	128	169	1	5	1	3
76	CO980697	3	3	132	169	1	5	1	2.5
77	CO980704	4	4	131		1	1	0	3
78	CO980712	4	4	132		1	1	0	2.5
79	CO980719	4	4	132	168	1	2	1	2
80	CO980721	3	5	131		1	1	0	3
81	CO980779	4	4	130	168	1	1	1	3.5
82	CO980829	4	3	129	168	1	1	1	2.5
83	CO99D679	3	2	126	167	1	0	1	3
84	CO99D695	4	4	128		1	1	0	3
85	CO99D726	5	5	130	169	1	0	2	2.5
86	G980984	3	4	129	168	2	1	1	2
87	G982231	3	3	131	172	1	2	1	2
88	G980091	3	3	128	167	1	3	1	3
89	G980129	4	4	131	168	2	5	1	2.5
90	TAM-107	4	4	129	167	1	7	2	3
91	Arapahoe	4	4	138	172	1	9	2	2
92	Karl 92	4	4	129	168	1	5	2	3
93	local check 1	1	1	132	171	1	9	2	2
94	local check 2	2	2	131		1	9	0	2.5
95	local check 3	1	1	135	166	1	8	3	4
96	N97L9758-2	5	4	138	171	2	1	1	4.5
97	N97L9758-3	5	5	138	168	2	6	2	3.5
98	N97L9758-10	3	3	134		2	7	0	3
99	N97L9758-47	3	3	132	171	2	5	2	2
100	G980122	3	4	129	170	1	4	1	3
101	G980172	4	4	130	167	1	8	4	2.5
102	G980234	3	3	131		2	8	0	3
103	G980411	2	3	128	167	3	3	4	4
104	G980661	1	2	131	172	1	9	1	3.5
105	G980866	1	1	131	169	2	8	1	2
106	G982131	3	2	131	167	2	8	1	2.5
107	G980933	2	3	128	168	2	8	3	3
108	G982462	4	4	132	168	2	8	1	3
109	G982158	3	4	131	168	2	5	4	2.5
110	G982048	2	2	129	171	2	1	1	2

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
111	G982163	2	1	131	168	2	4	2	2.5
112	G982251	2	3	129	167	3	2	1	2.5
113	G982168	1	1	131	168	2	9	2	2
114	G982238	2	2	127	168	1	4	1	2
115	G970007	3	3	131	168	1	3	1	2.5
116	KS99HW1-3	4	4	136		1	9	0	2.5
117	KSKS99HW1-6	4	4	136	170	1	9	1	2
118	KS99HW2-1	4	5	136	168	1	9	1	2.5
119	KS99HW2-2	4	4	136	169	1	9	2	2
120	TAM-107	4	5	128	167	1	8	2	2.5
121	Arapahoe	4	3	136	170	1	8	3	3
122	Karl 92	3	4	129	167	1	3	3	3.5
123	local check 1	1	1	132		1	7	0	2
124	local check 2	1	1	131	172	1	8	2	2.5
125	local check 3	1	1	134	167	1	5	2	4
126	KS99HW2-4	5	4	135	172	1	8	1	2
127	KS99HW3-1	4	3	136	171	1	8	1	2.5
128	KS99HW3-2	4	3	136	169	1	8	1	2.5
129	KS00HW15	3	3	137	171	1	7	1	3
130	KS00HW16	3	3	136		1	7	0	3
131	KS00HW17	4	3	136	172	1	8	1	2.5
132	KS00HW27	3	3	136	172	1	8	1	3
133	KS00HW32	4	4	130	171	1	7	1	3
134	KS00HW34	1	2	130	168	1	9	1	3
135	KS00HW35	2	2	132	169	1	8	2	3
136	KS00HW40	5	4	137	172	1	9	1	2.5
137	KS00HW59	5	5	137		1	9	0	3
138	KS00HW65	4	3	132	169	1	9	2	3
139	KS00HW79	5	5	130		2	7	0	4
140	KS00HW81	4	4	131	167	2	6	6	4
141	KS00HW82	4	4	131	170	1	8	1	3.5
142	KS00HW83	3	3	129	166	1	7	5	3
143	KS00HW115	1	1	128	168	1	9	1	4
144	KS00HW120	3	3	127	167	1	4	3	4
145	KS00HW151	5	5	135	169	1	8	1	2.5
146	KS00HW152	5	5	132	168	1	9	3	3
147	KS00HW171	3	3	136	171	1	9	1	2.5
148	KS00HW177	3	2	136	168	1	7	5	3
149	KS00HW183	3	3	135	172	1	5	1	3
150	TAM-107	4	5	129	166	1	8	6	2.5
151	Arapahoe	3	3	137	172	1	9	2	2.5
152	Karl 92	5	5	129	167	1	5	6	3.5
153	local check 1	2	1	132		1	9	0	2
154	local check 2	3	3	131	171	1	9	4	2.5
155	local check 3	1	1	135		1	8	0	4
156	OK94P549-99-6704	2	2	130	169	1	5	2	2.5
157	OK94P549-99-6705	3	3	130		1	2	0	2
158	OK94P549-99-6702	1	2	130	168	1	3	2	2
159	OK94P549-99-6736	1	1	130	168	1	3	1	2
160	OK94P549-98-6611	1	1	130	168	1	3	2	2
161	OK94P549-98-6621	1	1	131	168	1	1	1	3
162	OK96705-99-6745	2	2	130	167	1	8	4	3
163	OK96705-99-6738	2	2	130	173	1	9	1	2.5
164	OK96717-99-6756	5	4	130	167	1	2	2	3
165	OK98680	3	3	130		1	4	0	2.5

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
166	OK97508	2	3	130	166	1	4	5	3
167	OK98697	2	3	131		1	1	0	3
168	OK98699	3	4	131	167	1	1	2	2.5
169	OK98690	3	3	131	169	1	3	1	3
170	OK93P656-RMH3299	1	1	131	168	1	3	3	2.5
171	OK95616-98-6756	1	2	129		1	7	0	3
172	OK93P727-RMH3499	2	3	129	167	1	1	3	3
173	OK95548-98-6654	1	1	129	167	1	6	1	2.5
174	OK95567-98-6704	3	3	129	166	1	0	3	3
175	OK92P577-RMH3099	2	3	129	168	1	1	2	2
176	SD98206	2	2	135	169	1	9	2	3
177	SD98208	1	1	132	169	1	9	1	2.5
178	SD98224	2	2	126	166	2	9	3	3
179	SD98243	1	1	131	169	2	9	1	2.5
180	TAM-107	4	4	128	166	1	6	4	3
181	Arapahoe	4	3	137	169	1	7	1	2.5
182	Karl 92	4	5	128	167	1	4	2	3.5
183	local check 1	1	1	132		1	8	0	2
184	local check 2	2	1	131	169	1	9	2	3
185	local check 3	2	1	135	166	1	7	1	4.5
186	SD98251	3	3	132	169	2	6	2	2.5
187	SD98272	2	2	131	167	2	7	1	3
188	SD98282	2	2	129	167	1	1	2	3.5
189	SD98428	3	3	132	171	2	6	1	2.5
190	SD97W604-1	2	3	130	167	1	7	3	3
191	SD97W639-2	4	4	131	168	2	3	1	2.5
192	SD99W001	4	3	132	167	1	5	3	3
193	SD99W002	3	3	131	167	2	6	1	2.5
194	SD99W012	3	3	131	167	1	7	2	2.5
195	SD99W022	4	3	136		1	8	0	2.5
196	SD99W028	3	3	129	168	1	1	2	2.5
197	STARS-OK00703	4	5	127	168	1	5	1	3
198	STARS-OK00706	4	4	128	167	3	1	2	2.5
199	STARS-OK00711	4	4	126	167	1	8	2	3
200	STARS-OK00714	4	4	129	169	1	1	3	3
201	STARS-OK00725	3	3	130	169	3	2	1	2
202	STARS-OK00726	3	3	132	167	2	3	1	2
203	STARS-OK00730	3	4	131	169	2	4	3	2
204	STARS-OK00734	3	4	127	166	1	1	1	3
205	TAM-107	4	4	129	166	1	7	4	2.5
206	Arapahoe	3	3	138	170	1	9	2	2.5
207	Karl 92	4	4	129	166	1	7	5	3
208	local check 1	1	1	132	171	1	8	3	1.5
209	local check 2	3	2	131	172	1	9	3	2.5
210	local check 3	3	3	135	166	1	9	2	4
211	TX95A1161	3	3	130	168	1	6	2	2
212	TX96A0148	4	4	130	168	3	1	1	3
213	TX97A0071	3	2	132	169	2	3	1	3
214	TX97A0072	3	3	131	169	2	3	1	2
215	TX97A0122	4	3	131	169	1	2	1	3
216	TX97A0149	3	2	135	170	2	4	3	2
217	TX97A0151	3	3	131	169	1	1	1	2
218	TX97A0169	4	5	127	167	1	3	1	3
219	TX97A0214	2	1	132	169	1	8	1	2.5
220	TX97A0219	3	3	134	168	1	8	1	2.5

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
221	TX97A0244	3	2	132	169	1	9	1	1.5
222	TX97A0282	3	3	131		2	5	0	2
223	TX97A0284	4	4	132	169	1	5	2	3
224	TX98A0010	3	3	128	169	1	1	1	2.5
225	TX98A0032	2	2	136	173	2	3	1	3
226	TX98A0058	2	2	133	168	3	3	1	3
227	TX98A0064	2	2	134	170	1	8	2	2
228	TX98A0118	3	3	131	169	2	5	1	3
229	TX98A0130	4	3	132	167	1	3	1	2.5
230	TX98A0190	4	4	130	169	1	3	1	3
231	TX98VR8410	1	1	130	169	2	3	1	3.5
232	TX98VR8421	3	3	130	169	1	2	1	2.5
233	TX98VR8426	1	1	129	168	1	1	3	3
234	TX98VR8431	2	2	128	169	1	1	1	3
235	TX99A5016	3	2	132	171	1	7	2	2.5
236	TX99A5434	2	2	129	169	1	3	1	3
237	TX99A5440	1	1	130	168	1	3	2	3
238	TX99A5816	3	3	131	168	1	8	2	2.5
239	TX99A6610	2	2	132	168	1	7	1	2.5
240	TAM-107	4	5	128	167	1	5	2	2.5
241	Arapahoe	4	3	137	172	1	8	1	3
242	Karl 92	3	3	129	167	1	6	2	3.5
243	local check 1	1	1	134	172	1	8	2	1.5
244	local check 2	1	1	132	169	1	9	4	2.5
245	local check 3	2	2	135	166	1	9	4	4
246	TX99A6611	3	3	130	168	2	7	1	2
247	TX98D1519	4	4	133	168	3	1	3	2
248	TX98D1894	2	1	135	169	2	7	1	1.5
249	TX98D2210	3	4	132	169	3	0	2	3
250	TX98D3456	2	1	129	168	3	0	1	2.5
251	TX99D4031	3	3	132	171	3	0	1	3
252	TX99D4033	2	1	132	170	1	0	1	2
253	TX99D4043	2	2	127	167	1	1	4	3
254	TX99D4147	4	4	129	167	1	2	1	2.5
255	TX99D4148	2	3	131	167	1	3	3	2
256	TX99D4151	3	3	131	168	1	2	2	3
257	TX99D4244	5	5	136	168	3	1	4	2.5
258	TX99D4247	4	4	129	168	2	0	1	3
259	TX99D4362	4	5	128	166	2	0	3	3.5
260	TX99D4389	1	1	132	168	2	1	2	3
261	TX99D4409	3	3	130		1	5	0	2
262	TX99D4441	1	1	132	169	2	0	3	2
263	TX99D4578	4	4	130	168	1	9	2	3
264	TX99D4596	4	4	132	171	3	0	1	2.5
265	TX99D4600	4	3	131	170	3	0	1	2.5
266	TX99D4612	4	3	132	169	3	0	1	3
267	TX99D4622	2	3	130	167	3	0	2	2
268	TX99D4628	4	4	130	169	1	3	1	2
269	TX99D4657	4	4	127	167	3	0	2	3
270	TAM-107	4	4	128	166	1	4	1	2.5
271	Arapahoe	3	3	138	172	1	8	1	2.5
272	Karl 92	3	4	129	166	1	2	3	3
273	local check 1	2	1	134	172	1	8	2	2
274	local check 2	3	2	131	170	1	9	3	2.5
275	local check 3	--	--	135	167	1	8	1	4

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
276	TX99D4664	1	1	131	168	3	0	2	3
277	TX99D4682	4	4	132	168	3	0	1	3
278	X940786-1-6	2	2	128	168	2	1	1	2
279	X940786-6-4	3	3	130	171	2	2	1	3
280	X940793-10-6	3	3	130	170	2	1	1	3
281	X940786-6-7	2	2	129	168	3	2	1	2.5
282	X940793-10-7	5	5	139	167	1	1	2	3.5
283	X940786-6-9	3	3	129	167	2	3	1	2.5
284	X940793-10-8	5	5	129	167	2	1	2	3
285	X940786-6-10	2	3	129	167	3	3	1	2
286	X940786-6-11	2	2	131	168	2	1	2	1.5
287	X940786-17-3	2	2	129		3	3	0	2
288	X940828-6-5	3	3	130	168	3	5	2	2
289	X940878-15-6	3	2	132	167	3	0	1	2.5
290	X941049-1-1	4	4	128	167	3	1	1	3
291	X941049-1-2	3	3	129	168	3	2	1	2
292	X941108-15-3	2	2	127	166	2	3	5	3
293	X950535-2	4	3	130	168	2	8	5	3
294	X950581-3	1	2	129	166	2	7	6	3
295	X950677-2	3	2	130	168	2	2	2	2.5
296	X950677-5	1	1	131	168	2	1	5	3
297	X950726-4	1	1	130	168	2	8	1	3
298	X940748-2-2	2	1	134	166	1	7	5	2
299	X940603-5-1	2	2	129	167	2	9	3	2
300	X940748-2-4	3	2	135	168	2	6	2	2.5
301	X940748-12-2	3	2	135	172	2	7	2	3
302	TAM-107	4	3	128	166	1	7	4	2.5
303	Arapahoe	3	3	137	172	1	9	2	2.5
304	Karl 92	3	3	128	167	1	7	5	3.5
305	local check 1	1	1	132	173	1	8	2	1.5
306	local check 2	2	2	131	169	1	9	5	2.5
307	local check 3	1	1	135	167	1	9	2	4
308	X940786-17-2	2	2	130	166	2	5	4	2.5
309	X940793-2-2	1	1	129	168	1	1	1	3
310	X940793-9-1	2	3	130	166	1	3	4	3
311	X940793-9-5	2	2	131	168	2	1	2	3
312	X940793-10-4	2	2	131	166	2	1	2	2.5
313	X940793-10-5	4	4	130	168	2	3	1	2.5
314	NI99412	3	1	137	171	1	8	1	2
315	NI99416	5	4	134	169	1	6	1	3
316	NI98414	4	4	136	168	1	8	1	2.5
317	NE99410	5	4	131	172	2	7	1	2
318	NE99424	4	4	131	169	2	8	2	2
319	NE99445	4	5	129	168	2	8	1	3.5
320	NE99464	2	1	135	169	1	9	2	3
321	NE99469	4	4	137	169	1	8	3	2
322	NE99489	2	1	137	172	1	8	2	2
323	NE99495	4	2	136	168	1	6	2	2
324	NE99510	4	3	135	169	1	7	3	3
325	NE99513	3	2	132	167	1	8	1	3
326	NE99529	2	2	132	169	1	9	1	3
327	NE99533	1	1	136	169	1	9	2	2.5
328	NE99542	3	2	136	168	1	8	3	2.5
329	NE99543	5	4	134	167	1	8	1	3.5
330	TAM-107	4	3	128	166	1	9	3	3

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		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
331	Arapahoe	4	3	137	170	1	9	1	3
332	Karl 92	4	4	129	167	1	7	4	4
333	local check 1	2	1	133	172	1	9	2	2
334	local check 2	2	2	131	169	1	9	3	2.5
335	local check 3	1	1	134	168	1	9	1	4.5
336	NE99552	4	4	134	169	1	9	2	2.5
337	NE99554	4	3	130	168	1	9	2	2
338	NE99575	4	3	136	171	1	9	4	3
339	NE99578	4	4	131	169	2	5	4	4
340	NE99579	3	3	135	171	1	8	2	2.5
341	NE99585	4	4	130	167	2	8	4	3
342	NE99656	3	3	133	172	1	9	1	2.5
343	NE99675	3	3	137	172	1	8	4	2.5
344	N99L012	4	4	132	171	1	8	1	2
345	N99L033	3	3	136	172	1	7	2	2.5
346	NI98438	5	4	136	172	1	8	1	1.5
347	MTW0049	5	3	138	172	1	9	3	1.5
348	MT0053	4	3	139	174	1	9	1	2.5
349	MT0077	2	3	132	169	2	4	5	2.5
350	MT0080	3	4	137	172	1	8	1	2.5
351	MT0081	1	1	139	168	1	9	5	3
352	MT0088	3	2	139	172	1	8	1	3.5
353	MT0091	3	2	137	174	1	6	4	3
354	MT0092	3	3	138	173	1	8	1	2.5
355	MT0097	1	1	139	172	1	9	3	2
356	MT0099	1	1	138		1	7	0	3
357	MT00101	2	1	135	170	1	5	4	3.5
358	MT00108	3	4	129		1	3	0	4
359	MT00117	3	2	140	172	1	6	3	2.5
360	TAM-107	4	4	127	168	1	5	1	2.5
361	Arapahoe	4	3	136	170	1	7	1	2.5
362	Karl 92	3	4	128	167	1	4	2	3.5
363	local check 1	2	1	132	172	1	6	5	2
364	local check 2	2	2	131	173	1	7	1	2.5
365	local check 3	2	2	134	166	1	9	5	4
366	MT00118	3	3	136	173	1	4	2	2.5
367	MTWR0121	2	1	138	172	1	7	6	2
368	MTR00124	4	3	138	173	1	6	1	2
369	MTR00129	4	3	137	170	1	6	6	3
370	MTR00133	1	1	137	172	1	7	1	2.5
371	MT00142	3	2	139	170	1	5	5	2.5
372	MT00154	4	3	140	172	1	4	1	3
373	MT00156	5	5	136	172	1	2	3	1.5
374	MT00159	4	4	137	172	1	9	4	2
375	MTS008	4	3	136	172	1	8	6	3
376	MTS0012	5	4	137	172	1	4	4	3
377	MTS0013	4	4	138	173	1	3	5	2.5
378	MTS0019	4	4	136	170	1	8	4	2
379	MTS0023	3	2	139	173	1	4	3	2
380	MTS0030	2	2	140	172	1	2	3	3
381	MTS0031	3	3	138	172	1	1	6	3
382	KS99U674	4	5	128	166	1	4	3	2.5
383	KS99U716	4	4	127	166	1	5	5	3
384	KS99U723	3	4	131	168	1	2	1	2.5
385	KS00U754	4	4	129	166	1	0	6	3

Table 2. Agronomic characteristics of entries in the 2001 RGON. See introduction for local check identification.

		Acid soil tolerance Stillwater, OK		Days (from 1/1) to heading		Vernalization (1-3)	Winter survival		Drought tolerance (0-5)
Entry No.	Line or Selection	April 18, 2001	May 8, 2001	Bushland, TX	Brookings, SD	Beeville, TX	Mead, NE (0-10)	Brookings, SD (0-9)	Bushland, TX
386	KS00U755	4	3	128	166	1	1	3	3
387	KS00U756	3	3	129	168	1	3	4	2.5
388	KS00U757	5	5	129	168	1	1	2	3
389	KS00U758	2	1	127	167	3	0	1	3
390	TAM-107	4	4	128	167	1	7	1	3
391	Arapahoe	4	3	137	170	1	9	3	3
392	Karl 92	5	5	128	167	1	3	3	4
393	local check 1	1	1	132	172	1	6	2	2
394	local check 2	1	1	131	171	1	8	1	3
395	local check 3	1	1	135	166	1	8	7	4.5

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
1	TAM-107	4		S	2=	2=	2=	2=
2	Karl 92	1		S	23c	2	2	2
3	Arapahoe	2		MR	;1-	2=	2=	2=
4	local check 1	4		S	S	S	S	S
5	local check 2	3	R	S	S	S	S	S
6	local check 3	5	R	R	S	S	S	S
7	NWX008068	1		S	2c	2	2	2
8	NWX008069	2	20MS	S	2,S	2c	2	2+
9	NWX008070	1		S	2	2,S	2,S	2
10	NWX008075	2	40S	S	2,S	2	2	2
11	NWX008087	1		S	2c	2	2	2
12	NWX008092	0	20S	S	2c	2	2	2
13	NWX008093	1	T	S	2c	2	2	2
14	NWX008094	0	5R	MR	2	2,S	S,2	2
15	NWX008106	0	10R	S	2	2	2	2
16	NWX008109	1	R	S	2	2,S	2	2,S
17	NWX008118	2	15MS	S	2	2	2	2
18	NW99L7011	2	20MS	S	2,S	2	2	2
19	NW99L7032	1	50MS	S	2	2	2c	2c
20	NW99L7033	2	40MS	MS	2	2	2	2
21	NW99L7036	3		MS	2	2	2c	2
22	NW99L7039	0	50S	S	2	2	2	2
23	NW99L7042	1	40MS	S	2	2,S	2	2
24	NW99L7067	4	90S	S	S	S	S	S
25	NW99L7068	4	70S	S	S	S	2	2
26	NW99L7069	4	70MS	S	2	S,2	2,S	2
27	NW99L7074	4	60S	S	2	;1n,S	2,S	S,2
28	NW99L7076	5	60S	S	2	2	2,S	2,S
29	NW99L7078	5	20MS	S	S	S	2,S	S
30	TAM-107	5	60S	S	2=	2=	2=	2-
31	Arapahoe	4	R	MR	;1	2=	1	2=
32	Karl 92	2	30MS	S	2	2	2-	2-
33	local check 1	4	R	S	S	S	S	S
34	local check 2	3	30MS	S	S	S	S	S
35	local check 3	5	20MS	R	S	S	S	S
36	NW99L7079	4	20S	S	S	S	2	2
37	NW99L7080	4	50MS	S	S	S	S	S
38	NW99L7081	4	50S	S	S	S	S	S
39	NW99L7083	4	70S	S	S	S	S	S
40	NW99L7118	2	5MS	MS	2=	2=	2=	2=
41	NW99L7121	4	70S	S	S	S	S	S
42	NW99L7131	3	50S	S	2,S	2,S	1.S	2-
43	NW99L7134	4	R	MS	2	2-	2-	2
44	NW99L7139	3	30MS	S	2,S	2	2	2
45	NW99L7145	1	60S	MR	2=	2=	2-	2=
46	NW99L7171	4	T	MR	2-	2-	2	2-
47	NW99L7089	3	30S	S	2=	2	2	2

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
48	NW99L7181	3	20S	S	2,S	2	2,S	2
49	NW99L7198	1		MS	2	2	2	2
50	CO950043	2		S	2	2-	2	2-
51	CO970498	3		S	2=	2-	2	2=
52	CO970531	2		S	2=	2=	2	2
53	CO970547	2		S	2=	2=	2=	2
54	CO970552	3		S	2-	;1-n,2	2	2
55	CO970940	1		S	2	2c	2	2
56	CO970943	1		S	;1,2	;1-n,2	2c	2c
57	CO980358	2		seg-R	2-	2=	2=	2-
58	CO980368	2		MR	2=	2=	2=	2=
59	CO980376	2		S	2=	;12c	2=	2=
60	TAM-107	4		S	2=	2=	2	2=
61	Arapahoe	3	R	MS	;1	2=	2=	2-
62	Karl 92	2	20MS	S	2	S	2	2
63	local check 1	4	R	S	S	S	S	S
64	local check 2	2	50S	S	S	S	S	S
65	local check 3	4	70S	R	S	S	S	S
66	CO980382	3		S	2	2-c	2-	2
67	CO980424	3		S	2=	2-	0	2-
68	CO980443	3		S	2=	2	0	2=
69	CO980454	2		S	2	2,S	2	2
70	CO980459	1		S	2=,;1	2=	2=	2=
71	CO980607	0		S	2	2	2	2
72	CO980629	2		R	2,S	2	2	2
73	CO980630	1		S	2	2	2	2
74	CO980684	2		S	2	2-	2	2=
75	CO980685	2		S	2=	2=	2	2-
76	CO980697	2		MS	;1	2-c	2	2c
77	CO980704	2		MS	;1	2-	2	2
78	CO980712	2		S	2	2c	2	2c
79	CO980719	1		S	2	2-	2	2c
80	CO980721	2		S	2=	2=	2-	2-
81	CO980779	2		S	2	2	2	2
82	CO980829	2		S	2	2	2-	2
83	CO99D679	2		S	2	2=	2=	2-
84	CO99D695	2		S				
85	CO99D726	1		S	2-	2-	2	2
86	G980984	1	S	MS	2c	2	2-	2-
87	G982231	1	70S	MR	;1n	;1-n	22-	
88	G980091	2	R	S	2c	2	2	2
89	G980129	2	80S	MS	2	2	2	2
90	TAM-107	3	80S	S	2=	2=	2-	2-
91	Arapahoe	2	R	MS	2=	1	2=	2-
92	Karl 92	2	10MR	S	2	2	2-	2
93	local check 1	3	R	S	S	S	S	S
94	local check 2	2		S	S	S	S	S

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
95	local check 3	3	60S	R	S	S	S	S
96	N97L9758-2	1	R	S	2c	2-	2-	2
97	N97L9758-3	1	R	S	S	S	2bn	2bn
98	N97L9758-10	1		S	2=	2=	2=bn	2bn
99	N97L9758-47	2	30S	MS	2,S	2-,S	;1	2
100	G980122	1	T	S	2=	2-	2-	2-
101	G980172	2	10S	MS	2=	2=	2=	2=
102	G980234	3		S	2=	2=	2=	2=
103	G980411	0	10S	S	2	2	2	2-
104	G980661	4		S	2=	2	2	2-
105	G980866	2	70S	S	2=,S	11+n,2=	2-,0;	2
106	G982131	1	20S	S	2=	;1-	;	;
107	G980933	2	10MS	S	2	2	2-	2-
108	G982462	4	R	MS	;1n,2	2,S	X,S	2
109	G982158	3	R	S	2cn	2cn	23cn	2
110	G982048	1		MR	0;	0;	1	0;
111	G982163	1	R	S	0;	;1-n	;1-n	0;
112	G982251	1		MS	;11+n	;1n	Xn	2-
113	G982168	0	20S	S	;11+n	;1-n	;1n	;1
114	G982238	1	30MS	S	0-;	;1n	;1n	;1
115	G970007	2	70S	S	2=	2-	2=	2=
116	KS99HW1-3	2		MR	2=	2=	2=	2=
117	KSKS99HW1-6	2	50S	S	2=	2=	2=	2=
118	KS99HW2-1	2	60S	MR	2=	2=	2=	2=
119	KS99HW2-2	2	50S	MR	2=	2=	2=	2=
120	TAM-107	4	90S	S	2=	2=	2=	2=
121	Arapahoe	2	R	MS	2=	2=	2=	2=
122	Karl 92	2	50S	S	2	2	2-	2-
123	local check 1	3		S	S	S	S	S
124	local check 2	2	30S	S	S	S	S	S
125	local check 3	3	70S	R	S	S	S	S
126	KS99HW2-4	3	30S	S	2=	2=	1	1
127	KS99HW3-1	2	R	S	2=	2=	2=	2=
128	KS99HW3-2	1	R	MS	2=	2=	2=	2=
129	KS00HW15	2	R	S	2=	2=	1	2=
130	KS00HW16	3		S	2=	2=	2=	2=
131	KS00HW17	3	R	S	2=	2=	2=	2=
132	KS00HW27	1	R	S	2=	2=	2-	2=
133	KS00HW32	2	R	S	2	2	2	2
134	KS00HW34	2	10S	S	2-bn	2-	2=bn	2
135	KS00HW35	2	R	S	2-bn	2-bn	2-bn	2-
136	KS00HW40	2	20MS	S	2=	2=	2=	2=
137	KS00HW59	3		S	2=	2=	2=	2=
138	KS00HW65	3	R	S	1	1	2=	2-
139	KS00HW79	2		MS	2=	2=	2=	2-
140	KS00HW81	2	20MS	MS	2=	2=	2=	2=
141	KS00HW82	2	20S	S	2=	2=	2=	2-

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
142	KS00HW83	3	R	S	2=	2=	2=	2-
143	KS00HW115	1	R	S	2=	2=	2=	2-
144	KS00HW120	2	R	S	2=	2=	2=	2=
145	KS00HW151	3	R	MR	2=	2-	2=	2-
146	KS00HW152	3	R	MR	2=	2-	;1-	2-
147	KS00HW171	2	R	MS	S	S	23	S
148	KS00HW177	2	R	S	2	2	23	2
149	KS00HW183	2	R	S	2	2	23	2
150	TAM-107	3	90S	S	2=	2=	2-	2=
151	Arapahoe	2	R	MS	2=	2=	2-	2=
152	Karl 92	1	70S	S	2	2	2-	2-
153	local check 1	3		S	S	S	S	S
154	local check 2	2	20S	S	S	S	S	S
155	local check 3	3		R	S	S	S	S
156	OK94P549-99-6704	2	R	MS	2=	1-	2=	2=
157	OK94P549-99-6705	1		S	2-	1-	2=	2-
158	OK94P549-99-6702	2	R	MS	2=	1-	1	1-
159	OK94P549-99-6736	1	R	MS	2-	1-	2=	1-
160	OK94P549-98-6611	2	R	S	2-,S	2=,S	2=,S	2=,S
161	OK94P549-98-6621	2	R	MR	2-	1-	2=	2=
162	OK96705-99-6745	4	10MS	S	2=	2=	2=	2=
163	OK96705-99-6738	3	60S	S	2=	2=	2=	2-
164	OK96717-99-6756	3	R	S	2=	2=	2=	2=
165	OK98680	3		MR	2=	1-	2=	2-
166	OK97508	4	R	S	2=	1-	2=	2=
167	OK98697	2		S	2	2=	2	2
168	OK98699	2	20MR	S	2	2=	2	2
169	OK98690	1	R	S	2-	2-	2=	2=
170	OK93P656-RMH3299	3	R	S	2=	2-	2	2=
171	OK95616-98-6756	4		S	2=	2-	2	2
172	OK93P727-RMH3499	3	20MS	S	2-	2	2	2
173	OK95548-98-6654	3	R	MS	1	1-	2=	2=
174	OK95567-98-6704	4	20S	S	2=	2=	2-	2-
175	OK92P577-RMH3099	2	R	S	2=	2=	2-	2-
176	SD98206	3	R	S	1	2=	2-	2-
177	SD98208	3	R	MS	1	2=	2=	2=
178	SD98224	4	R	S	2=	2=	2-	2=
179	SD98243	2	R	S	0;	;1n	;1n	;1-n
180	TAM-107	3	70S	S	2=	2=	2	2=
181	Arapahoe	3	R	MS	1	1	2=	2=
182	Karl 92	2	30MS	S	2=	2-	2-	2=
183	local check 1	2		S	S	S	S	S
184	local check 2	3	60S	S	S	S	S	S
185	local check 3	4		R	S	S	S	S
186	SD98251	2	R	S	0;	0;1-	;1-	0;
187	SD98272	1	R	S	0;	0;1-n	;11+n,2=	2
188	SD98282	4	R	S	2	2	2	2

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
189	SD98428	1	R	S	---	2	2	2-
190	SD97W604-1	2	20MR	S	---	2=	2-	2-
191	SD97W639-2	3	15MR	S	2-bn	2bn	23bn	2=
192	SD99W001	3	50MS	S	2-bn	2bn	23bn	23
193	SD99W002	2	20R	S	1	X-n	;1	Xn
194	SD99W012	1	15MR	S	1	;1n	;1	Xn
195	SD99W022	2		S	;1-	0;	;	1-
196	SD99W028	2	40MS	S	23	X	23	2
197	STARS-OK00703	4	R	S	2=	2-	2-	2-
198	STARS-OK00706	2	R	S	2-	S	2-	S
199	STARS-OK00711	4		S	23	S	S	23,S
200	STARS-OK00714	5		S	2-	2	2-	2,S
201	STARS-OK00725	2	40S	S	23	2-,S	S	S
202	STARS-OK00726	2	50S	MS	23	2-,S	S	S
203	STARS-OK00730	3	10S	S	2=	2-	2-	2-
204	STARS-OK00734	3	40S	S	2=	2	2=	2=
205	TAM-107	4	60S	S	2=	2=	2-	2-
206	Arapahoe	3	R	MR	1	2=	2=	2=
207	Karl 92	2	50S	S	2-	2-	2-	2-
208	local check 1	4	R	S	S	S	S	S
209	local check 2	3	20S	S	S	S	S	S
210	local check 3	4	50S	R	S	S	S	S
211	TX95A1161	3		S	2-	2-	2-	2-
212	TX96A0148	5	R	seg-R	2-	2=	2=	2-
213	TX97A0071	5	70S	S	2	2	2	S
214	TX97A0072	4	R	S	2=	2=	2=	2=
215	TX97A0122	3	10S	S	2-	2	2	2,S
216	TX97A0149	5	R	S	2=	2=	2=,S	2-,S
217	TX97A0151	4	R	S	2-	2=	2=	2=
218	TX97A0169	2		S	2-	2-	2-	2
219	TX97A0214	3	20MR	S	2-	S	2=	S
220	TX97A0219	1	R	S	2=	2=	2=	2-
221	TX97A0244	2	40S	S	2=	2=	2=	2=
222	TX97A0282	3		S	2=	2=	2=	2-
223	TX97A0284	3	50S	MS	2=	2=	2=	2=
224	TX98A0010	2	60S	S	2-	2-,S	2-	2-,S
225	TX98A0032	3	R	S	2	2=	2,S	2-bn
226	TX98A0058	3	R	S	2-	2-,s	2-	2-bn
227	TX98A0064	2	10S	R	2-	23	2	2
228	TX98A0118	2	R	S	2=	2=	2=	2=
229	TX98A0130	3		R	2	2	23	S
230	TX98A0190	3	R	S	S	S	S	S
231	TX98VR8410	2		S	2=	2=	2=	2=
232	TX98VR8421	2	20S	S	2=	2=	2=	2=
233	TX98VR8426	3	R	S	2=	;1	2=	2=
234	TX98VR8431	3	R	S	2,S	2,S	S,2	S
235	TX99A5016	3	R	S	2=	2=	2=	2=

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
236	TX99A5434	4	5MS	S	2	2	2,S	S
237	TX99A5440	4	5MS	R	2	2	2	23
238	TX99A5816	3	10MS	R	S	S	S	S
239	TX99A6610	2	15MS	R	S	S	S	S
240	TAM-107	4	40S	S	2-	2=	2=	2-
241	Arapahoe	2	R	MR	1	1	1	2=
242	Karl 92	2	30S	S	2-	2	2	2-
243	local check 1	3	R	S	S	S	S	S
244	local check 2	2	50S	S	S	S	S	S
245	local check 3	4	80S	R	S	S	S	S
246	TX99A6611	2	30S	seg-R	S	2,S	S	2
247	TX98D1519	1	30MS	S	2=	2=	2=	2=
248	TX98D1894	4	R	R	2=	2-	2=	2-
249	TX98D2210	1	R	S	2=	1-	2-	2=
250	TX98D3456	1	R	MR	2=	2-	2=	2=
251	TX99D4031	3	R	S	2=	2=	2=	2=
252	TX99D4033	3	R	MR	2-	2=	2-	2=
253	TX99D4043	3	20S	S	2=	2=	2=	2
254	TX99D4147	1	10S	S	2-	2=	2-	2=
255	TX99D4148	1	R	MR	2-cn	;	23	23
256	TX99D4151	1	R	MR	2=	2-	2-	2=
257	TX99D4244	1	R	MS	2-	;1-	2=	2=
258	TX99D4247	2	R	seg-R	2=	2=	2=	2=
259	TX99D4362	3	R	R	2=	2=	2=	2=
260	TX99D4389	1	80S	S	S	S	S	S
261	TX99D4409	2		R	2=,S	2-	1	0;
262	TX99D4441	1	R	MR	2=	;	2=	2=
263	TX99D4578	2	R	S	2-,S	2-	2-	2-
264	TX99D4596	1	R	MR	2=	;	2=	2=
265	TX99D4600	2	R	MS	2=	2=	2=	2-
266	TX99D4612	2	R	S	2=	2=	2=	2=
267	TX99D4622	1	R	MR	2=	2=	2=	2=
268	TX99D4628	3	50S	S	2-	2-,S	2-,S	2-bn
269	TX99D4657	0		MS	2-	2-,s	2	2=
270	TAM-107	3	70S	S	2=	2=	2=	2=
271	Arapahoe	2	R	MS	1	2=	2-	2=
272	Karl 92	2	50S	MR	2-	2-	2-	2=
273	local check 1	3	R	S	S	S	S	S
274	local check 2	2	50S	S	S	S	S	S
275	local check 3	4	60S	R	S	S	S	S
276	TX99D4664	3	R	R	2-	2	2-	2,S
277	TX99D4682	1	60S	MR	;1-	0;	;	;1-
278	X940786-1-6	1	R	R	;1-=	;1n	;	2
279	X940786-6-4	0	R	R	;1-	;	;	2
280	X940793-10-6	4	R	MR	2=	2=	2=	2=
281	X940786-6-7	1	R	R	;1-	;1-	;1-	Xn
282	X940793-10-7	5	10R	MR	2=	;1-	2=	2=

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
283	X940786-6-9	1	R	S	;	;	;	;
284	X940793-10-8	5	R	R	2=	2=	2=	2=
285	X940786-6-10	1		S	;1-	;1-	;1-	Xn
286	X940786-6-11	0	R	R	;1-	;1-	;	Xn
287	X940786-17-3	1		S	;1	;1-	;1-	1
288	X940828-6-5	1	20S	S	;1-	;	;	;
289	X940878-15-6	1	R	S	;	;1-n	;	;1n
290	X941049-1-1	0	R	MR	;	;1-n	.1-n	;
291	X941049-1-2	1		MS	2=	;	2=	;1-
292	X941108-15-3	2	R	seg-R	2-	2-	2=	2=
293	X950535-2	3	R	S	2=	---	2=	2=
294	X950581-3	2	R	S	1	2=	2=	2-
295	X950677-2	3	R	S	1	;	2=	2=
296	X950677-5	3	R	S	2=	;1-n	2=	2=
297	X950726-4	4	R	S	2=	2=	2=	2
298	X940748-2-2	2	R	S	;	;1n	Xn	;11+n
299	X940603-5-1	1	R	S	;	;	;	;
300	X940748-2-4	1	R	S	;	X-n	Xn	Xn
301	X940748-12-2	2	R	S	;	;1-n	X-n	2
302	TAM-107	4	70S	S	2=	2=	2-	2=
303	Arapahoe	3	R	MR	;1-	2=	1	2=
304	Karl 92	1	60S	S	2=	2-	2-	2=
305	local check 1	3	R	S	S	S	S	S
306	local check 2	3	60S	S	S	S	S	S
307	local check 3	4	30S	R		S	S	S
308	X940786-17-2	1	20MR	S	;	;	X-n	Xn
309	X940793-2-2	3		S	2-	2=	2	2=
310	X940793-9-1	3	R	R	2=	1	2=	2=
311	X940793-9-5	2	R	MR	2=	1	2=	2=
312	X940793-10-4	3	R	MR	2-	2=	2=	2=
313	X940793-10-5	4		MR	23	2=	2=	2=
314	NI99412	4	R	S	2-	2=	2-	1
315	NI99416	2		S	2-	2	2=	2=
316	NI98414	2	70S	S	2-	2=	2=	1
317	NE99410	2	R	MR	---	---	2	2
318	NE99424	3	R	S	1	2-bn	2-	2=
319	NE99445	2	R	S	2=	2=	2=	2=
320	NE99464	3	10R	S	2	2=	2	2=
321	NE99469	3	30S	S	2=	2=	2=	2=
322	NE99489	3	R	S	2-	2=bn	2=	2=
323	NE99495	3	50S	S	2-	2=	2-	2-
324	NE99510	4	10R	S	2	2-	2	2
325	NE99513	4		S	;1c	2	2-	2
326	NE99529	3		MR	2=	2=	1	2=
327	NE99533	3	60S	S	2-	2=	2=	2=
328	NE99542	2	40S	S	2=	1-	2=	2=
329	NE99543	3	50S	S	2-	2=	2=	2=

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
330	TAM-107	3	60S	S	2-	2=	2=	2=
331	Arapahoe	2	10MR	MS	;1	2=	1	2=
332	Karl 92	1	20MS	S	2-	2-	2-	2=
333	local check 1	2	R	S	S	S	S	S
334	local check 2	2	30S	S	S	S	S	S
335	local check 3	3	50S	R	S	S	S	S
336	NE99552	2	50S	S	1	2=	2=	2=
337	NE99554	2	40MS	S	;	;	;	2
338	NE99575	3	R	S	2-bn	2	2=bn	;
339	NE99578	2	R	S	2=	2=	X-n	2=
340	NE99579	2	R	S	S	23	2	2
341	NE99585	2	10S	MR	---	2=	2=	2-
342	NE99656	2	R	S	1bn	2bn	;1	2-
343	NE99675	3	R	S	1	2=	1	2=
344	N99L012	1	30S	S	1	2=	2=	2-
345	N99L033	1	R	MR	1	2=	2=	2=
346	NI98438	2		MR	1	2-	2=	2
347	MTW0049	1	20S	S	---	2	---	2=
348	MT0053	0	70S	S	S	23	S	2-bn
349	MT0077	1	30S	S	S	23	S	2-bn
350	MT0080	2	20S	S	23	23	2	2-bn
351	MT0081	3	R	S	0;	2	0;	23
352	MT0088	1	10S	MS	2	X	2	2
353	MT0091	2	40S	S	S	2	S	S
354	MT0092	2		S	S	S	S	S
355	MT0097	1	R	S	0;	23	;	S
356	MT0099	2		S	0;	X	;	23
357	MT00101	3	20S	MR	X-	X	2-	2-bn
358	MT00108	3		S	2bn	2	2-bn	2bn
359	MT00117	3	R	S	2bn	2-bn	2-bn	2
360	TAM-107	2		S	2-	2-	2=	2=
361	Arapahoe	2	R	MR	1	2=	2=	1
362	Karl 92	2	50S	S	2-	2-	2	2-
363	local check 1	2	R	S	S	S	S	S
364	local check 2	2	30S	S	S	S	S	S
365	local check 3	3	70S	R	S	S	S	S
366	MT00118	4	70S	S	S	S	S	S
367	MTWR0121	3	80S	S	S	S	S	S
368	MTR00124	4	50S	S	S	S	S	S
369	MTR00129	5	50S	S	S	23	S	S
370	MTR00133	4	80S	S	23	2-	S	S
371	MT00142	3	50S	S	2	2	2-	2-
372	MT00154	3	30S	S	2	2	2-	2
373	MT00156	3	90S	S	S	2+	S	S
374	MT00159	2	90S	S	S	S	S	2-bn,S
375	MTS008	2	90S	S	2	2	2,S	2
376	MTS0012	5	80S	S	2	2	2	2

Table 3. Reactions of entries in the 2001 RGON to various rust pathogens. See introduction for identification of local checks.

		Stripe Rust (0-5)	Leaf rust		Stem Rust, St. Paul, MN, isolates			
Entry	Line or Selection	Beeville, TX	Brookings, SD: reaction type	Stillwater, OK, seedling reaction type	70-MN-1476 RTHJ	72-MEX-53a RRTQQ	69-MN-399 QTHJ	74-MN-1409 TPMK
377	MTS0013	3	60S	S	S	2+	S	2-
378	MTS0019	2	80S	S	S	S	S	2=
379	MTS0023	1	R	MR	1	2-	2-	2-bn
380	MTS0030	4	50S	S	2	---	S	2-bn
381	MTS0031	3	40S	S	S	S	S	S
382	KS99U674	3	R	R	2=	2=	2=	2=
383	KS99U716	2	R	MS	2=	2=	2-	2
384	KS99U723	4	R	R	;	1	;	2-
385	KS00U754	4	R	MR	2-	2-	2-	2=
386	KS00U755	4	10S	seg-R	2,S	2-c	23	2
387	KS00U756	4	R	S	2	2c	2=	2=
388	KS00U757	4	R	S	2-	2=	2=	2=
389	KS00U758	3		S	;,S	23	;	2-
390	TAM-107	4	60S	S	2-	2=	2=	2=
391	Arapahoe	3	R	MR	;1	1	;1-	1
392	Karl 92	2	50S	S	2	2	2-	2-
393	local check 1	3	R	S	S	S	S	S
394	local check 2	2	R	S	S	S	S	S
395	local check 3	4	40S	R	S	S	S	S

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
1	TAM-107	4	+	90
2	Karl 92	1	-	100
3	Arapahoe	4	+	100
4	local check 1	4	+	30, 70
5	local check 2	1	-/+	30, 70
6	local check 3	1	-	30, 70
7	NWX008068	4	+	20, 100
8	NWX008069	3	+	100
9	NWX008070	3	+	80
10	NWX008075	4	-/+	80
11	NWX008087	2	-	70
12	NWX008092	2	-	60
13	NWX008093	4	+	20, 80
14	NWX008094	3	-/+	30, 80
15	NWX008106	2	-	10
16	NWX008109	3	+	30, 40
17	NWX008118	4	+	80
18	NW99L7011	4	+	30
19	NW99L7032	3	+	40
20	NW99L7033	3	+	30
21	NW99L7036	4	-	70
22	NW99L7039	4	+	70
23	NW99L7042	3	+	40
24	NW99L7067	4	+	80
25	NW99L7068	4	+	30
26	NW99L7069	3	+	30
27	NW99L7074	3	+	40
28	NW99L7076	4	+	60
29	NW99L7078	4	+	30
30	TAM-107	4	+	60
31	Arapahoe	4	+	60
32	Karl 92	2	+	80
33	local check 1	4	-/+	30, 70
34	local check 2	2	-	30, 70
35	local check 3	3	+	30, 70
36	NW99L7079	4	+	60
37	NW99L7080	4	+	60
38	NW99L7081	4	+	70
39	NW99L7083	4	+	70
40	NW99L7118	1	-/+	20
41	NW99L7121	4	+	60
42	NW99L7131	4	+	70
43	NW99L7134	4	+	80
44	NW99L7139	4	+	10, 100
45	NW99L7145	4	+	30
46	NW99L7171	3	+	80
47	NW99L7089	4	-/+	30, 100
48	NW99L7181	3	-/+	30, 100

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
49	NW99L7198	3	+	100
50	CO950043	4	+	100
51	CO970498	3	+	100
52	CO970531	2	-	30, 100
53	CO970547	2	-	80
54	CO970552	2	-	60
55	CO970940	3	+	30, 100
56	CO970943	3	+	60
57	CO980358	2	+	100
58	CO980368	2	-	100
59	CO980376	4	+	60, 100
60	TAM-107	4	+	100
61	Arapahoe	4	+	100
62	Karl 92	1	+	100
63	local check 1	4	+	30, 100
64	local check 2	2	-	30, 70
65	local check 3	2	-	30, 70
66	CO980382	4	+	100
67	CO980424	4	-	60
68	CO980443	4	+	40
69	CO980454	4	+	90
70	CO980459	4	+	100
71	CO980607	4	+	w kill
72	CO980629	3	+	80
73	CO980630	3	+	80
74	CO980684	3	+	100
75	CO980685	3	+	70
76	CO980697	3	+	20, 100
77	CO980704	3	+	10, 100
78	CO980712	3	-/+	80
79	CO980719	3	-/+	60
80	CO980721	2	-/+	60
81	CO980779	4	-/+	70
82	CO980829	3	+	80
83	CO99D679	4	+	70
84	CO99D695	4	-/+	80
85	CO99D726	4	+	60
86	G980984	1	-	80
87	G982231	4	-/+	40
88	G980091	1	-/+	100
89	G980129	3	+	100
90	TAM-107	4	+	100
91	Arapahoe	4	+	80
92	Karl 92	3	+	100
93	local check 1	3	-/+	90
94	local check 2	1	-	30, 70
95	local check 3	1	-	30, 70
96	N97L9758-2	3	-/+	30, 70

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
97	N97L9758-3	3	-/+	80
98	N97L9758-10	4	-/+	60
99	N97L9758-47	4	-	80
100	G980122	1	-	60
101	G980172	2	-	40, 100
102	G980234	3	-/+	50, 100
103	G980411	3	-/+	80
104	G980661	3	-/+	80
105	G980866	3	-	30, 80
106	G982131	2	-	80
107	G980933	2	-	100
108	G982462	3	+	90
109	G982158	4	-/+	80
110	G982048	3	-/+	30, 60
111	G982163	2	-/+	70
112	G982251	2	-/+	80
113	G982168	2	-	40
114	G982238	1	+	80
115	G970007	3	-/+	80
116	KS99HW1-3	4	-/+	80
117	KSKS99HW1-6	4	-/+	100
118	KS99HW2-1	4	-/+	100
119	KS99HW2-2	4	-/+	100
120	TAM-107	3	-/+	100
121	Arapahoe	4	-/+	90
122	Karl 92	2	-	100
123	local check 1	3	-/+	30, 70
124	local check 2	1	-	30, 70
125	local check 3	1	-/+	20, 100
126	KS99HW2-4	4	+	100
127	KS99HW3-1	4	+	100
128	KS99HW3-2	4	+	100
129	KS00HW15	2	-/+	100
130	KS00HW16	2	-	100
131	KS00HW17	1	-	100
132	KS00HW27	3	+	30, 70
133	KS00HW32	2	-/+	30, 70
134	KS00HW34	3	-	30, 70
135	KS00HW35	2	-	100
136	KS00HW40	2	+	90
137	KS00HW59	2	-/+	80
138	KS00HW65	3	-/+	80
139	KS00HW79	3	+	80
140	KS00HW81	1	-	80
141	KS00HW82	1	-	90
142	KS00HW83	1	+	70
143	KS00HW115	2	+	80
144	KS00HW120	3	-/+	70

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
145	KS00HW151	4	-	90
146	KS00HW152	4	-	70
147	KS00HW171	3	-	30, 80
148	KS00HW177	3	-	60
149	KS00HW183	2	-	80
150	TAM-107	4	-/+	100
151	Arapahoe	3	-/+	60
152	Karl 92	2	-/+	30, 90
153	local check 1	4	-/+	100
154	local check 2	1	-	80
155	local check 3	2	-	40
156	OK94P549-99-6704	4	-/+	40
157	OK94P549-99-6705	4	-/+	100
158	OK94P549-99-6702	4	-/+	30, 80
159	OK94P549-99-6736	4	+	80
160	OK94P549-98-6611	2	-	40
161	OK94P549-98-6621	2	-	40
162	OK96705-99-6745	2	-	30, 90
163	OK96705-99-6738	2	-/+	30, 70
164	OK96717-99-6756	2	-	30, 70
165	OK98680	3	-/+	100
166	OK97508	2	-	100
167	OK98697	2	-	100
168	OK98699	1	-	100
169	OK98690	1	-/+	80
170	OK93P656-RMH3299	1	-/+	80
171	OK95616-98-6756	1	-/+	100
172	OK93P727-RMH3499	2	-	80
173	OK95548-98-6654	2	-	100
174	OK95567-98-6704	2	+	80
175	OK92P577-RMH3099	3	-/+	90
176	SD98206	4	-/+	90
177	SD98208	4	-/+	90
178	SD98224	4	-/+	100
179	SD98243	4	-	80
180	TAM-107	4	-/+	100
181	Arapahoe	4	+	100
182	Karl 92	3	-/+	100
183	local check 1	4	-/+	30, 70
184	local check 2	1	-	30, 70
185	local check 3	3	-	30, 70
186	SD98251	3	+	100
187	SD98272	3	-	100
188	SD98282	4	+	100
189	SD98428	4	+	30, 80
190	SD97W604-1	4	+	90
191	SD97W639-2	1	-	80
192	SD99W001	2	+	70

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
193	SD99W002	1	+	60
194	SD99W012	1	-	80
195	SD99W022	2	+	50
196	SD99W028	1	-	40
197	STARS-OK00703	3	+	30, 100
198	STARS-OK00706	3	-	20, 100
199	STARS-OK00711	3	+	100
200	STARS-OK00714	3	+	10, 100
201	STARS-OK00725	3	+	80
202	STARS-OK00726	3	+	100
203	STARS-OK00730	1	-	90
204	STARS-OK00734	2	-	80
205	TAM-107	3	+	80
206	Arapahoe	3	+	90
207	Karl 92	2	-	100
208	local check 1	4	+	30, 70
209	local check 2	1	-	30, 70
210	local check 3	2	-	30, 70
211	TX95A1161	4	+	60
212	TX96A0148	4	+	30
213	TX97A0071	2	-	90
214	TX97A0072	1	-	30, 100
215	TX97A0122	1	-	40, 100
216	TX97A0149	1	+	30, 100
217	TX97A0151	3	+	30, 100
218	TX97A0169	3	+	80
219	TX97A0214	2	+	30, 80
220	TX97A0219	3	+	60
221	TX97A0244	3	+	80
222	TX97A0282	4	+	40
223	TX97A0284	4	+	50
224	TX98A0010	1	-	40
225	TX98A0032	4	+	10
226	TX98A0058	4	+	30, 80
227	TX98A0064	3	+	40
228	TX98A0118	3	+	40
229	TX98A0130	4	+	80
230	TX98A0190	3	+	100
231	TX98VR8410	4	-/+	60
232	TX98VR8421	3	+	60
233	TX98VR8426	4	-	100
234	TX98VR8431	4	-/+	80
235	TX99A5016	3	+	80
236	TX99A5434	3	+	60
237	TX99A5440	1	-	90
238	TX99A5816	3	+	100
239	TX99A6610	3	+	100
240	TAM-107	3	+	100

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
241	Arapahoe	3	+	100
242	Karl 92	2	+	100
243	local check 1	3	-	30, 70
244	local check 2	2	-	30, 70
245	local check 3	2	-	30, 70
246	TX99A6611	3	+	90
247	TX98D1519	3	-/+	30
248	TX98D1894	2	-	30
249	TX98D2210	2	-	w kill
250	TX98D3456	4	-/+	60
251	TX99D4031	4	-/+	60
252	TX99D4033	4	-/+	10
253	TX99D4043	3	-/+	100
254	TX99D4147	3	-/+	40
255	TX99D4148	3	-/+	80
256	TX99D4151	1	-	80
257	TX99D4244	4	-/+	60
258	TX99D4247	4	-	80
259	TX99D4362	3	-/+	60
260	TX99D4389	1	-	60
261	TX99D4409	4	+	60
262	TX99D4441	4	-/+	30
263	TX99D4578	2	-/+	100
264	TX99D4596	3	-/+	30
265	TX99D4600	4	-/+	w kill
266	TX99D4612	3	-/+	30
267	TX99D4622	3	-/+	40
268	TX99D4628	2	+	80
269	TX99D4657	2	-/+	80
270	TAM-107	3	-/+	100
271	Arapahoe	3	-/+	100
272	Karl 92	2	-	100
273	local check 1	4	-/+	30, 70
274	local check 2	1	+	30, 70
275	local check 3	2	-/+	30,70
276	TX99D4664	3	-/+	30
277	TX99D4682	4	-	30
278	X940786-1-6	1	+	100
279	X940786-6-4	1	-	90
280	X940793-10-6	3	-/+	40
281	X940786-6-7	1	-/+	100
282	X940793-10-7	4	+	100
283	X940786-6-9	2	+	100
284	X940793-10-8	2	+	100
285	X940786-6-10	1	-/+	100
286	X940786-6-11	1	+	80
287	X940786-17-3	1	-	100
288	X940828-6-5	2	-/+	100

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
289	X940878-15-6	3	-/+	80
290	X941049-1-1	1	-	70
291	X941049-1-2	1	-	80
292	X941108-15-3	1	+	80
293	X950535-2	1	-	100
294	X950581-3	1	-	100
295	X950677-2	1	-	70
296	X950677-5	1	-	80
297	X950726-4	1	-	100
298	X940748-2-2	1	-	100
299	X940603-5-1	1	-	100
300	X940748-2-4	1	-/+	100
301	X940748-12-2	2	-/+	80
302	TAM-107	4	+	90
303	Arapahoe	2	+	100
304	Karl 92	1	-/+	100
305	local check 1	4	-	30,70
306	local check 2	1	-	30,70
307	local check 3	1	-	30,70
308	X940786-17-2	2	-/+	30
309	X940793-2-2	3	+	80
310	X940793-9-1	3	-	70
311	X940793-9-5	3	-	30
312	X940793-10-4	1	-	40
313	X940793-10-5	1	+	100
314	NI99412	2	-/+	30,80
315	NI99416	3	+	80
316	NI98414	4	-/+	70
317	NE99410	4	+	70
318	NE99424	2	-	100
319	NE99445	2	-/+	100
320	NE99464	4	+	80
321	NE99469	4	+	100
322	NE99489	3	+	90
323	NE99495	4	+	80
324	NE99510	4	+	80
325	NE99513	4	+	100
326	NE99529	3	-	100
327	NE99533	4	-/+	100
328	NE99542	2	-/+	100
329	NE99543	2	+	100
330	TAM-107	4	+	100
331	Arapahoe	4	+	100
332	Karl 92	2	-	100
333	local check 1	3	+	30,70
334	local check 2	2	-	30,70
335	local check 3	1	-/+	30,70
336	NE99552	2	-/+	30,80

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
337	NE99554	1	-	50
338	NE99575	1	-	40
339	NE99578	1	-	70
340	NE99579	1	-/+	80
341	NE99585	4	+	100
342	NE99656	1	+	80
343	NE99675	2	-/+	20,100
344	N99L012	2	-	30,100
345	N99L033	1	-/+	30,100
346	NI98438	4	+	50
347	MTW0049	4	+	40
348	MT0053	4	+	40
349	MT0077	3	+	30
350	MT0080	2	-	40
351	MT0081	3	+	30
352	MT0088	4	+	80
353	MT0091	4	+	30
354	MT0092	4	+	30
355	MT0097	4	-/+	30,100
356	MT0099	3	+	40
357	MT00101	4	+	60
358	MT00108	3	-/+	80
359	MT00117	2	+	30
360	TAM-107	3	+	80
361	Arapahoe	3	+	40
362	Karl 92	2	-	80
363	local check 1	3	+	30,70
364	local check 2	1	-	30,70
365	local check 3	2	-	30,90
366	MT00118	3	+	30
367	MTWR0121	3	+	40
368	MTR00124	4	+	30
369	MTR00129	3	-/+	80
370	MTR00133	2	-	80
371	MT00142	2	-	100
372	MT00154	4	+	30,80
373	MT00156	4	+	80
374	MT00159	4	-/+	80
375	MTS008	4	+	40
376	MTS0012	2	+	30
377	MTS0013	4	-	30,100
378	MTS0019	4	-/+	40,100
379	MTS0023	2	-/+	30
380	MTS0030	4	-	30
381	MTS0031	4	-	90
382	KS99U674	4	-	100
383	KS99U716	1	-	90
384	KS99U723	2	-	60

Table 4. Reactions of entries in the 2001 RGON to Wheat Soilborne Mosaic Virus (WSBMV) and Fusarium head blight. See introduction for identification of local checks.

		Wheat soilborne mosaic virus (WSBMV), Stillwater, OK		Reaction to Fusarium head blight (average % infection per spike)
Entry	Line or Selection	visual 1-4	ELISA	Mead, NE
385	KS00U754	1	-/+	30,80
386	KS00U755	1	-	40
387	KS00U756	3	-	70
388	KS00U757	1	-	30,80
389	KS00U758	3	+	80
390	TAM-107	3	-/+	100
391	Arapahoe	2	-/+	80
392	Karl 92	1	-	100
393	local check 1	3	-/+	30,70
394	local check 2	2	+	30,70
395	local check 3	2	-/+	30,70

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
1	TAM-107	S	-	S	8	4		
2	Karl 92	S	-	S	8	5		
3	Arapahoe	S	-	S	1	4		
4	local check 1	RR	-	S	8	2	2	6
5	local check 2	R	-	R	9	4		
6	local check 3	R	-	RR	11	2	2	11
7	NWX008068	S	-	S	4	5		
8	NWX008069	S	-	S	8	5		
9	NWX008070	S	-	S	9	5		
10	NWX008075	S	-	S	11	5		
11	NWX008087	S	-	S	8	5		
12	NWX008092	S	-	S	8	5		
13	NWX008093	S	-	S	7	5		
14	NWX008094	S	-	S	9	5		
15	NWX008106	S	-	S	11	4		
16	NWX008109	S	-	S	11	5		
17	NWX008118	S	-	S	11	5		
18	NW99L7011	S	-	S	8	5		
19	NW99L7032	S	-	S	10	5		
20	NW99L7033	S	-	S	11	5		
21	NW99L7036	S	-	S	9	5		
22	NW99L7039	S	-	S	11	5		
23	NW99L7042	S	-	S	11	5		
24	NW99L7067	S	-	S	11	4		
25	NW99L7068	S	-	S	11	5		
26	NW99L7069	S	-	S	7	5		
27	NW99L7074	S	-	S	11	5		
28	NW99L7076	S	-	S	11	5		
29	NW99L7078	S	-	S	11	5		
30	TAM-107	S	-	S	11	4		
31	Arapahoe	S	-	S	8	5		
32	Karl 92	S	-	S	5	5		
33	local check 1	RR	-	S	11	2	2	9
34	local check 2	R	-	R	11	5		
35	local check 3	RR	-	RR	11	2	2	11
36	NW99L7079	S	-	S	11	5		
37	NW99L7080	S	-	S	11	5		
38	NW99L7081	S	-	S	11	5		
39	NW99L7083	S	-	S	11	5		
40	NW99L7118	S	-	S	10	5		
41	NW99L7121	S	-	S	11	5		
42	NW99L7131	S	-	S	9	5		
43	NW99L7134	S	-	S	10	5		
44	NW99L7139	S	-	S	11	5		
45	NW99L7145	S	-	S	11	5		
46	NW99L7171	S	-	S	10	5		
47	NW99L7089	S	-	S	5	5		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
48	NW99L7181	S	-	S	10	5		
49	NW99L7198	S	-	S	9	4		
50	CO950043	SEG-R	10R/5S	S	11	2	2	11
51	CO970498	SEG-R	7R/8S	S	11	2	2	11
52	CO970531	R	7R/1M/7S	S	10	2	2	10
53	CO970547	R	8R/10S	S	10	2	2	9
54	CO970552	SEG-R	3R/12S	S	11	3	2	4
55	CO970940	SEG-R	15roll	S	6	2	2	6
56	CO970943	SEG	4Roll/2M/7S	S	11	4		
57	CO980358	SEG	1R/1M/5roll/7s	S	9	2	2	5
58	CO980368	SEG	12roll	S	4	2	2	4
59	CO980376	R	16roll/2MS	S	7	2	2	7
60	TAM-107	S	-	S	9	5		
61	Arapahoe	S	-	S	5	5		
62	Karl 92	S	-	S	4	5		
63	local check 1	R	-	S	9	2	2	9
64	local check 2	R	-	R	10	4		
65	local check 3	R	-	RR	11	2	2	11
66	CO980382	SEG-R	5roll/6Mroll/3S	S	2	2	2	2
67	CO980424	SEG-R	15M	S	11	2	2	9
68	CO980443	SEG	9M/3S	S	10	3	2	4
69	CO980454	SEG	8MR/4S	S	6	2	2	5
70	CO980459	SEG	1MR/6M/6S	S	5	2	2	4
71	CO980607	SEG-R	8MR/5roll/3S	S	6	2	2	6
72	CO980629	SEG-R	6MR/6M/3S	S	6	2	2	6
73	CO980630	SEG-R	6MR/6S	S	5	2	2	5
74	CO980684	SEG-R	7MR/4M/4S	S	6	2	2	6
75	CO980685	SEG	12MR/2M	S	8	2	2	8
76	CO980697	SEG-R	6MR/4M/3S	S	10	2	2	10
77	CO980704	SEG	12MR/5M	S	9	2	2	8
78	CO980712	SEG	10Mroll/4S	S	5	2	2	5
79	CO980719	SEG	3M/11S	S	6	2	2	6
80	CO980721	SEG	4M/3roll/8S	S	5	2	2	5
81	CO980779	SEG	5roll/7S	S	3	2	2	2

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
82	CO980829	SEG	5roll/7M/2S	S	11	2	2	11
83	CO99D679	R	15MR/2roll/1S	RR	7	2	2	7
84	CO99D695	SEG	1R/13M	RR	11	2	2	11
85	CO99D726	SEG-R	6M/5roll/3S	S	11	2	2	11
86	G980984	S	-	S	11	5		
87	G982231	S	-	S	11	5		
88	G980091	S	4M/10Mroll/1S	S	11	2	2	10
89	G980129	S	-	S	9	5		
90	TAM-107	S	-	S	11	4		
91	Arapahoe	S	-	S	2	5		
92	Karl 92	S	-	S	5	5		
93	local check 1	RR	-	S	11	2	2	11
94	local check 2	R	-	R	8	5		
95	local check 3	R	-	RR	6	2	2	5
96	N97L9758-2	S	-	RR	10	5		
97	N97L9758-3	S	-	RR	11	5		
98	N97L9758-10	S	-	S	10	5		
99	N97L9758-47	S	-	S	11	5		
100	G980122	S	-	S	10	5		
101	G980172	S	-	S	11	5		
102	G980234	S	-	S	10	5		
103	G980411	S	-	S	11	5		
104	G980661	S	-	S	11	5		
105	G980866	S	-	S	11	5		
106	G982131	S	-	S	11	5		
107	G980933	S	-	S	11	5		
108	G982462	S	-	S	11	5		
109	G982158	S	-	S	11	5		
110	G982048	S	-	S	10	5		
111	G982163	S	-	S	11	5		
112	G982251	S	-	S	11	5		
113	G982168	S	-	S	11	5		
114	G982238	S	-	S	11	5		
115	G970007	S	-	S	11	5		
116	KS99HW1-3	S	-	S	11	5		
117	KSKS99HW1-6	S	-	S	10	5		
118	KS99HW2-1	S	-	S	10	5		
119	KS99HW2-2	S	-	S	11	5		
120	TAM-107	S	-	S	11	4		
121	Arapahoe	S	-	S	5	5		
122	Karl 92	S	-	S	5	5		
123	local check 1	RR	-	S	11	2	2	11
124	local check 2	MR	-	R	11	4		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
125	local check 3	R	-	RR	9	2	2	9
126	KS99HW2-4	S	-	S	10	5		
127	KS99HW3-1	S	-	S	5	5		
128	KS99HW3-2	S	-	S	10	5		
129	KS00HW15	S	-	S	10	5		
130	KS00HW16	S	-	S	11	5		
131	KS00HW17	S	-	S	10	5		
132	KS00HW27	S	-	S	10	5		
133	KS00HW32	S	-	S	11	5		
134	KS00HW34	S	-	S	10	5		
135	KS00HW35	S	-	S	11	5		
136	KS00HW40	S	-	S	10	5		
137	KS00HW59	S	-	S	10	4		
138	KS00HW65	S	-	S	8	5		
139	KS00HW79	S	-	S	9	5		
140	KS00HW81	S	-	S	10	5		
141	KS00HW82	S	-	S	10	5		
142	KS00HW83	S	-	S	10	5		
143	KS00HW115	S	-	S	8	5		
144	KS00HW120	S	-	S	8	5		
145	KS00HW151	SEG-R	9R/1M/6S	S	11	2	2	10
146	KS00HW152	R	13RR	S	11	2	2	11
147	KS00HW171	S	-	S	10	5		
148	KS00HW177	S	-	S	10	5		
149	KS00HW183	S	-	S	8	5		
150	TAM-107	S	-	S	10	4		
151	Arapahoe	S	-	S	9	5		
152	Karl 92	S	-	S	7	5		
153	local check 1	RR	-	S	7	2	2	7
154	local check 2	R	-	R	10	4		
155	local check 3	MR	-	RR	7	2	2	7
156	OK94P549-99-6704	S	-	S	7	5		
157	OK94P549-99-6705	S	-	S	6	5		
158	OK94P549-99-6702	S	-	S	7	5		
159	OK94P549-99-6736	S	-	S	6	5		
160	OK94P549-98-6611	S	-	S	2	5		
161	OK94P549-98-6621	S	-	S	7	5		
162	OK96705-99-6745	S	-	S	10	5		
163	OK96705-99-6738	S	-	S	10	5		
164	OK96717-99-6756	S	-	S	2	4		
165	OK98680	S	-	S	11	4		
166	OK97508	S	-	S	9	3	2	2
167	OK98697	S	-	S	2	4		
168	OK98699	S	-	S	7	4		
169	OK98690	S	-	S	11	4		
170	OK93P656-RMH3299	S	-	S	7	5		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
171	OK95616-98-6756	S	-	R	8	5		
172	OK93P727-RMH3499	S	-	S	5	3	2	2
173	OK95548-98-6654	S	-	S	8	5		
174	OK95567-98-6704	S	-	S	8	5		
175	OK92P577-RMH3099	S	-	S	8	5		
176	SD98206	S	-	S	9	4		
177	SD98208	S	-	S	9	5		
178	SD98224	S	-	S	9	5		
179	SD98243	S	-	S	10	5		
180	TAM-107	S	-	S	11	5		
181	Arapahoe	S	-	S	1	5		
182	Karl 92	S	-	S	5	5		
183	local check 1	RR	-	S	11	2	2	10
184	local check 2	MR	-	R	11	4		
185	local check 3	R	-	RR	11	2	2	11
186	SD98251	S	-	S	11	5		
187	SD98272	S	-	S	11	5		
188	SD98282	S	-	S	11	5		
189	SD98428	S	-	S	11	5		
190	SD97W604-1□□□	S	-	S	11	5		
191	SD97W639-2□□□	S	-	S	11	5		
192	SD99W001	S	-	S	10	5		
193	SD99W002	S	-	S	11	5		
194	SD99W012	S	-	S	11	5		
195	SD99W022	S	-	S	11	4		
196	SD99W028	S	-	S	11	5		
197	STARS-OK00703	RR	10MR/5M/ 1S	S	11	2	2	11
198	STARS-OK00706	RR	12R/1S	S	11	2	2	11
199	STARS-OK00711	RR	14R	S	11	2	2	11
200	STARS-OK00714	SEG	13roll/2S	S	11	2	2	11
201	STARS-OK00725	RR	13R	S	11	2	2	11
202	STARS-OK00726	RR	15RR	S	11	2	2	11
203	STARS-OK00730	RR	13MR/5M	S	11	2	2	11
204	STARS-OK00734	SEG-R	12MR/3S	S	11	3	2	4
205	TAM-107	S	-	S	11	5		
206	Arapahoe	S	-	S	7	5		
207	Karl 92	S	-	S	4	5		
208	local check 1	RR	-	S	11	2	2	10
209	local check 2	R	-	R	7	4		
210	local check 3	RR	-	RR	11	2	2	11
211	TX95A1161	S	-	S	7	5		
212	TX96A0148	S	-	S	9	5		
213	TX97A0071	S	-	S	8	5		
214	TX97A0072	S	-	S	10	5		
215	TX97A0122	S	-	S	11	5		
216	TX97A0149	S	-	S	10	5		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
217	TX97A0151	S	-	S	11	4		
218	TX97A0169	S	-	S	11	5		
219	TX97A0214	S	-	RR	11	5		
220	TX97A0219	S	-	R	10	5		
221	TX97A0244	S	-	S	11	5		
222	TX97A0282	S	-	S	11	5		
223	TX97A0284	S	-	S	11	5		
224	TX98A0010	S	-	S	11	5		
225	TX98A0032	S	-	S	11	5		
226	TX98A0058	S	-	S	11	4		
227	TX98A0064	S	-	S	11	5		
228	TX98A0118	S	-	S	11	5		
229	TX98A0130	S	-	S	8	4		
230	TX98A0190	S	-	S	8	5		
231	TX98VR8410	S	-	S	11	5		
232	TX98VR8421	S	-	S	11	5		
233	TX98VR8426	S	-	S	11	5		
		M-SEG	7R/4M/3M	S				
234	TX98VR8431		S		11	3	3	8
235	TX99A5016	S	-	S	11	5		
236	TX99A5434	S	-	S	9	5		
237	TX99A5440	S	-	S	10	5		
238	TX99A5816	S	-	S	9	5		
239	TX99A6610	S	-	S	11	5		
240	TAM-107	S	-	S	11	4		
241	Arapahoe	S	-	S	8	4		
242	Karl 92	S	-	S	8	5		
243	local check 1	RR	-	S	10	2	2	10
244	local check 2	MR	-	R	10	4		
245	local check 3	MR	-	RR	11	2	2	11
246	TX99A6611	S	-	S	10	5		
247	TX98D1519	S	-	S	10	5		
248	TX98D1894	S	-	S	10	5		
249	TX98D2210	S	-	S	11	5		
250	TX98D3456	S	-	S	9	5		
251	TX99D4031	S	-	S	10	5		
252	TX99D4033	S	-	S	10	5		
253	TX99D4043	S	-	S	11	2	2	8
254	TX99D4147	S	-	S	10	5		
255	TX99D4148	S	-	S	11	5		
256	TX99D4151	S	-	S	11	5		
257	TX99D4244	S	-	S	11	4		
258	TX99D4247	S	-	S	5	4		
259	TX99D4362	S	-	S	11	4		
260	TX99D4389	S	-	S	11	5		
261	TX99D4409	S	-	S	7	5		
262	TX99D4441	S	-	S	11	5		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
263	TX99D4578	S	-	S	11	5		
264	TX99D4596	S	-	S	10	5		
265	TX99D4600	S	-	S	11	5		
266	TX99D4612	S	-	S	11	5		
267	TX99D4622	S	-	R	8	5		
268	TX99D4628	S	-	S	11	5		
269	TX99D4657	S	-	S	11	5		
270	TAM-107	S	-	S	10	4		
271	Arapahoe	S	-	S	6	5		
272	Karl 92	S	-	S	6	5		
273	local check 1	RR	-	S	11	2	2	11
274	local check 2	MR	-	R	11	4		
275	local check 3	MR	-	RR	11	2	2	11
276	TX99D4664	S	-	S	8	3	2	2
277	TX99D4682	S	-	S	11	5		
278	X940786-1-6	S	-	S	11	5		
279	X940786-6-4	S	-	S	11	5		
280	X940793-10-6	S	-	S	11	5		
281	X940786-6-7	S	-	S	11	5		
282	X940793-10-7	S	-	S	11	5		
283	X940786-6-9	S	-	S	10	5		
284	X940793-10-8	S	-	S	11	4		
285	X940786-6-10	S	-	S	10	5		
286	X940786-6-11	S	-	S	10	5		
287	X940786-17-3	S	-	S	11	5		
288	X940828-6-5	S	-	S	10	4		
289	X940878-15-6	S	-	S	11	5		
290	X941049-1-1	S	-	S	11	5		
291	X941049-1-2	S	-	S	11	5		
292	X941108-15-3	S	-	S	11	5		
293	X950535-2	S	-	S	10	5		
294	X950581-3	S	-	S	8	5		
295	X950677-2	S	-	S	10	5		
296	X950677-5	S	-	S	11	4		
297	X950726-4	S	-	S	11	5		
298	X940748-2-2	S	-	S	8	5		
299	X940603-5-1	S	-	S	8	5		
300	X940748-2-4	S	-	S	11	5		
301	X940748-12-2	S	-	S	9	4		
302	TAM-107	S	-	S	10	5		
303	Arapahoe	S	-	S	6	4		
304	Karl 92	S	-	S	10	5		
305	local check 1	RR	-	S	11	2	2	11
306	local check 2	R	-	R	11	4		
307	local check 3	SEG	-	RR	11	2	2	11
308	X940786-17-2	S	-	S	11	5		
309	X940793-2-2	S	-	S	11	5		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
310	X940793-9-1	S	-	S	11	5		
311	X940793-9-5	S	-	S	11	5		
312	X940793-10-4	S	-	S	11	5		
313	X940793-10-5	S	-	S	11	5		
314	NI99412	S	-	S	11	5		
315	NI99416	S	-	S	11	5		
316	NI98414	S	-	S	11	5		
317	NE99410	S	-	S	10	5		
318	NE99424	S	-	S	11	4		
319	NE99445	S	-	S	11	5		
320	NE99464	S	-	S	11	5		
321	NE99469	S	-	S	11	5		
322	NE99489	S	-	S	11	5		
323	NE99495	S	-	S	9	5		
324	NE99510	S	-	S	6	5		
325	NE99513	S	-	S	10	4		
326	NE99529	S	-	S	8	5		
327	NE99533	S	-	S	10	5		
328	NE99542	S	-	S	11	5		
329	NE99543	S	-	S	11	5		
330	TAM-107	S	-	S	11	5		
331	Arapahoe	S	-	S	5	5		
332	Karl 92	S	-	S	8	5		
333	local check 1	RR	-	S	11	2	2	11
334	local check 2	MR	-	R	11	4		
335	local check 3	R	-	RR	11	2	2	11
336	NE99552	S	-	S	9	5		
337	NE99554	S	-	S	10	5		
338	NE99575	S	-	S	11	5		
339	NE99578	S	-	S	9	5		
340	NE99579	S	-	S	6	5		
341	NE99585	S	-	S	7	5		
342	NE99656	S	-	S	10	5		
343	NE99675	S	-	S	8	5		
344	N99L012	S	-	S	6	5		
345	N99L033	S	-	S	11	5		
346	NI98438	S	-	S	9	5		
347	MTW0049	S	-	S	11	4		
348	MT0053	S	-	S	10	5		
349	MT0077	S	-	S	11	4		
350	MT0080	S	-	S	11	4		
351	MT0081	S	-	S	11	5		
352	MT0088	S	-	S	11	5		
353	MT0091	S	-	S	11	5		
354	MT0092	S	-	S	11	4		
355	MT0097	S	-	S	11	5		
356	MT0099	S	-	S	11	5		

Table 5. Reactions of entries in the 2001 RGON to insect pest. See introduction for identification of local checks.

		Stillwater, OK			Akron, CO - Russian Wheat Aphid			
Entry	Line	Russ. Wheat Aphid rating # 1	Russ. Wheat Aphid rating # 2	Greenbug biotype E rating	No. of plants	rating 1 (1-5)	rating 2 (1-5)	No. of resistant plants
357	MT00101	S	-	S	8	4		
358	MT00108	S	-	S	11	5		
359	MT00117	S	-	S	11	5		
360	TAM-107	S	-	S	11	5		
361	Arapahoe	S	-	S	4	4		
362	Karl 92	S	-	S	6	5		
363	local check 1	RR	-	S	11	2	2	11
364	local check 2	MR	-	R	11	5		
365	local check 3	R	-	RR	11	2	2	11
366	MT00118	SEG?-RR	15RR	S	11	2	2	11
367	MTWR0121	MR-SEG?R	9R/4M	S	11	2	2	11
368	MTR00124	SEG-R	15RR	S	11	2	2	11
369	MTR00129	SEG-R	16RR/2M	S	11	2	2	11
370	MTR00133	SEG-R	10RR/5S	S	11	2	2	8
371	MT00142	S	-	S	11	3	2	2
372	MT00154	S	-	S	11	5		
373	MT00156	S	-	S	11	4		
374	MT00159	S	-	S	11	5		
375	MTS008	S	-	S	11	5		
376	MTS0012	S	-	S	11	5		
377	MTS0013	S	-	S	11	5		
378	MTS0019	S	-	S	10	5		
379	MTS0023	S	-	S	11	5		
380	MTS0030	S	-	S	11	5		
381	MTS0031	S	-	S	11	5		
382	KS99U674	S	-	S	11	5		
383	KS99U716	S	-	S	11	5		
384	KS99U723	S	-	S	10	5		
385	KS00U754	S	-	S	10	5		
386	KS00U755	S	-	S	10	5		
387	KS00U756	S	-	S	11	5		
388	KS00U757	S	-	S	11	5		
389	KS00U758	S	-	S	8	5		
390	TAM-107	S	-	S	8	5		
391	Arapahoe	S	-	S	3	5		
392	Karl 92	S	-	S	6	5		
393	local check 1	RR	-	S	11	2	2	11
394	local check 2	MR	-	R	11	4		
395	local check 3	R	-	RR	11	2	2	11