UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
in cooperation with
STATE AGRICULTURAL EXPERIMENT STATIONS

COMPARISON OF WINTER WHEAT VARIETIES GROWN IN COOPERATIVE NURSERY EXPERIMENTS IN THE HARD RED WINTER WHEAT REGION IN 1986

C. J. Peterson
Research Agronomist

Lincoln, Nebraska
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CENTRAL STATES AREA

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By

C. J. Peterson

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P. Rowoth

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Lethbridge
Canada Agricultural Research Station — J. Thomas

UNIVERSITY OF MANITOBA:
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Department of Plant Science — D. Zuzens

REGIONAL NOTES

The 1986 Hard Red Winter Wheat Breeders field day was held in Bushland, Texas. The 1987 field day is scheduled for May 28th at Hays, Kansas. Visits are planned to the Ft. Hays Experiment station in the morning and HybriTech nurseries in the afternoon.

The Seventeenth Hard Red Winter Wheat Workers Conference was held in Manhattan, Kansas on February 24-28, 1986. The next conference is scheduled for 1989 at a yet to be determined location.

Dr. V. A. Johnson retired from his position as USDA/ARS Wheat Research Leader at Lincoln, Nebraska in June of 1986. Dr. Johnson was coordinator of the state-federal cooperative wheat research program in the hard red winter wheat region.

Dr. P. S. Baenziger has replaced Dr. J. W. Schmidt as University of Nebraska wheat and small grains breeder at Lincoln, Nebraska. Dr. Schmidt retired in December of 1985.

Dr. R. A. Graybosch, postdoctoral fellow at the University of Kentucky, has accepted a position with the USDA/ARS at Lincoln, Nebraska and will begin work in June of 1987. Dr. Graybosch's work will focus on winterhardiness and stress resistance in wheat using molecular and biotechnological approaches.

NOTE: The response reaction of entries to leaf and stem rust infection has been coded on a 1-9 scale to facilitate generation of this report. This same scale has been used in past reports. The response data can be interpreted as follows:

Response scale		Reaction type
1	-	VR
2	-	R
3	-	MR
4	-	M
5	-	M
6	-	M
7	-	MS
8	-	S
9	-	VS

NEW VARIETIES AND GERMPLASM

The following is only a partial list of new wheat varieties and germplasms available in the region. Included are those for which we have current information.

VARIETIES

The Texas Agricultural Experiment Station has indicated the intent to release the variety TAM 200 in 1987. TAM 200 was tested in the SRPN in 1984 and 1985 as TX81V6614.

Nickerson American Plant Breeders has announced the release of three experimental varieties under the Agripro label:

Trailblazer, tested in the SRPN in 1985 and 1986 as NA-HW81-170, is a medium maturity, intermediate height semi-dwarf wheat.

Mesa, tested in the SRPN in 1986 as NA-81-171-14, is an early maturity, short semi-dwarf.

Abilene, tested in the 1986 SRPN as NA-81-362-5, is a medium maturity semi-dwarf.

Several variety releases described in the 1985 nursery report have been given names. The Nebraska Agricultural Experiment Station has given the names 'Redland' to NE851182, a composite of selections from Brule, and 'Cody' to NE77465. The Kansas Agricultural Experiment Station has given the names 'Norkan' to KS82H4, and 'Dodge' to KS82H144.

GERMPLASM

The Kansas Agricultural Experiment Station and the USDA/ARS has announced the release of KS86WGRC02 hard red winter wheat germplasm (PI504517). KS86WGRC02 produces low leaf rust infection type with culture PRTUS6 of Puccinia recondita Rob. ex Desm. The resistance is derived from accession TA 1675 of Aegilops Squarrosa with the pedigree TA 1675/3*Wichita.

1986
Southern Regional Performance Nursery

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Kharkof	CI1442	Check
2	Scout 66	CI13996	"
3	TAM-105	CI17826	"
4	Plainsman V/3/2*Larned/Eagle//Sage	KS82H4	Kansas
5	KS73H530//Sage/Arthur	KS82H144	"
6	Plainsman V/Odesskaya 51	KS831957	"
7*	Plainsman V/3/Kaw/Atl 50//Pkr*5/Ag	KS831374	"
8*	Nwt/3/Pkr*5/Ag//Atl 50	KS831203	"
9*	Winter Wheat Composite	KS82C2009	"
10	Payne//TAM W-101/Amigo	OK81322	Oklahoma
11	Aurora/2*TAM W-101	OK83396	"
12	" "	OK83398	"
13*	Vona//Chisholm/Plainsman V	OK83201	"
14*	Amigo sib/2*Newton	OK82377	"
15	TX71A1039-V1*3/Amigo	TX81V6180	Texas
16	" "	TX81V6183	"
17	" "	TX81V6187	"
18	TAM-105/TAM W-101	TX80A4135-6	"
19	MV69-12/TAM W-103	TX78A3345-V42	"
20	TAM W-101/Newton	TX80A5172-4	"
21	Short Wheat/Scout (TX69A509-2)//Fox	TX78V2430-36	"
22*	TX73V203*3/Amigo	TX81V5581	"
23*	TAM W-101/Ctk//Amigo	TX80A5901-1	"
24*	TX68D5194/Osage	TX84V1227	"
25*	MV-69-12/TAM W-103	TX84A7608	"
26*	Mex Dw/Baca//Vona	C0820026	Colorado
27*	Anza/Scout//Centurk	C0810010	"
28*	Brule Composite	NE851182	Nebraska
29*	Wrr*5/Agent//Ctk 78	NE77465	"
30*	Wrr*5/Agent//Aurora/3/Centurk 78	NE78488	"
31	Experimental line	AGC-101	Agrigenetics
32	" "	AGC-102	"
33*	" "	AGC-106	"
34*	" "	AGC-110	"
35**	Winter Wheat Hybrid	RH845202	Rohm & Haas
36*	" "	RH855001	"
37*	" "	RH855002	"
38	OK11252A/HW76-1226	NA-HW81-170	NAPB
39*	" "	NA-81-362-5	"
40*	" "	NA-81-171-14	"
41*	TAM-105/Chisholm Hybrid	SDG-1001	Shell Dev.
42*	Bounty Hybrid	Bounty-205	Cargill
43*	Bounty Hybrid	Bounty-301	"
44*	Winter Wheat Hybrid	XH216a	HybriTech
45*	" "	XH551	"

* New entry in 1986.
** New seed provided.

TEST SITE INFORMATION - SRPN

Clovis, NM -- The irrigated nursery was planted on 10/15/85 into good moisture and fertilized with 255-0-0. The nursery was irrigated four times and harvested on 6/7/86.

The dryland nursery was planted on 9/25/85 into good moisture with no fertilizer applied and harvested on 6/12/86. Winter and early spring was very dry with a total of 13.3 inches of moisture falling during the growing season.

Spotted infestations of Russian wheat aphid caused additional variability in the nurseries. All grain yields were adjusted to 14% moisture basis.

Farmington, NM -- Irrigated by center pivot as needed, approximately 30 inches of total water. Fertilized with 245 lbs. N., 10 lbs. P_2O_5, and 15 lbs. K_2O per acre. One pint/acre of Lorsban was applied for Russian wheat aphid control. Very mild winter temperatures in January and February with late hard frosts occurring on April 19th and 27th.

Bushland, TX -- The crop season was characterized by near normal temperatures in the fall but substantially above normal temperatures from January through April resulting in the earliest harvest date in over 39 years. The dryland nursery was planted 10/24/85 but only Kharkof headed after May 1. Fortunately no frost damage occurred. Precipitation was abnormally distributed with 10 inches of rain between September 10 and October 10 providing good moisture but delaying seeding. A 12-inch (non-drifting) snow on February 6-12 provided sufficient moisture to keep the crop in good condition through most of April. By late April and through much of the fruiting period, the wheat was in substantial moisture stress. The test was uniform in spite of the moisture stress with a low C.V. The nursery was sprayed with parathion in late February and an apparent greenbug infestation was controlled. The treatment also may have controlled a not so apparent infestation of Russian wheat aphid. Russian wheat aphids were found a few weeks after spraying but caused little damage. Leaf rust and some stem rust were present late in the season but were not important factors in production. Barley yellow dwarf may have caused some, but rather insignificant, damage and differences among entries did not appear to be significant. No fertilizer was applied to this summer fallowed land.

The irrigated nursery was planted on 10/24/85 at about 65 lbs/a on summer fallowed land. The irrigation borders were leveled with a laser land leveler in late summer and as much as 4 inches of soil were moved from cut to fill. The SRPN was planted on the fill area with 350 lbs/a of P_2O_5 applied to adjust for soil movement. No preplant irrigation was applied but 4 inch irrigations were applied on April 5th and 22nd and May 6th and 16th. Greenbugs caused little damage and were controlled with parathion. Minor yellow dwarf infection was noted. Leaf rust may have caused some damage to susceptible varieties and a late stem rust infection caused no damage.

Chillicothe, TX -- Fall rainfall was adequate for good stand establishment. Winter and spring rainfall was well below normal

resulting in serious drought stress at flowering. Drought effects were exacerbated by higher than normal winter and spring temperatures. Nursery was fertilized with 154 lbs/a of 26-32-0 in the fall and top dressed with 40 lbs/a of N as urea in the spring. No insect or winterkill problems and leaf rust and stem rust infections were too late to cause yield loss.

Dallas, TX -- The nursery was planted on 11/13/85 under muddy conditions. Good uniform stands were obtained. Initial infection of leaf rust was evident on 12/18/85. Winter was extremely mild with only 5 days below freezing. Leaf rust increased until 1/12/86 but then subsided because of lack of moisture. No precipitation occurred from January 14th to February 26th causing reduced tillering. In the spring, leaf and stem rust became moderately severe and reduced yields on susceptible lines. A severe hail storm on April 18th resulted in snapped heads and plants. Harvest was delayed until June 17th because of heavy rains from May 20th through June 13th. Test weight of all entries was drastically reduced.

Stillwater, OK -- Good stands were obtained and good production prospects existed throughout the growing season. Milder than normal winter and early warm spring temperatures resulted in early heading. Leaf rust and septoria leaf blotch infections were severe. There was some evidence of barley yellow dwarf symptoms.

Lahoma, OK -- Good stands were obtained and good production prospects existed throughout the growing season. There was some evidence of moisture stress in early spring. There was a severe infection of leaf rust. Septoria leaf blotch was present.

Altus, OK -- Good uniform stands were obtained. Drought stress was evident during early spring and during the soft dough stage. Severe leaf rust infection affected yields. Yields and test weights were reduced by high temperatures.

Goodwell, OK -- Good uniform stands were obtained. No disease or insect problems of consequence. Good production prospects existed until the soft dough stage when the crop experienced excessive temperatures reducing yields.

Hutchinson, KS -- Good stand establishment and fall growth for a mid-October planting. Mild winter and no winterkilling. Spring had adequate moisture, but timely rains were needed to prevent damage from drought stress. Leaf rust developed late, during anthesis, but infection was very heavy and reduced yields (approx. 5-8%). Cool weather and rain during grain filling helped mid-maturity and late selections. Early lines did not appear to take advantage of favorable grain fill environment. No lodging or shattering occurred.

Manhattan, KS -- Adequate stand establishment from 10/7/85 planting with heavy rains one week after planting causing some minor emergence problems. An unusually cool November caused less fall tillering than expected. Winter was mild with very warm temperatures in December and January. A severe temperature drop in the first week of February

caused some freeze back and reduced stands in very winter tender selections. Generally the nursery survived this well, however. Spring temperatures were warm and the season was favorable for yield development. An extremely severe leaf rust and stem rust epidemic decimated yield potential of susceptible lines. Stem rust was the primary disease. No lodging or shattering occurred and soilborne mosaic did not affect yields.

Hays, KS -- The nursery was planted on 9/26/85 into excellent soil moisture conditions. Good stands were obtained and normal fall growth followed. No winter damage occurred and heading dates were at least two weeks ahead of normal. Spring drought stress had the largest effect on the nursery. Leaf rust severities reached only minimal levels on the flag leaves as most leaves died due to drought stress. Rain delayed harvest and test weights were reduced due to weathering.

Colby, KS -- Planted on 9/23/85 with excellent moisture. Emergence was prompt and stands excellent. Fall and winter moisture was good through November but below normal thereafter until late spring. Temperatures were above normal through much of the winter and growth was initiated by late January. A temperature drop to 21 degrees on April 15th resulted in some head sterility. Wet snow on April 27th caused considerable and variable lodging and stem breakage. Many broken stems deteriorated and dried up. Hail on May 15th caused additional damage. No insect damage and very little disease observed. Leaf rust developed late in the season. Test results were variable due to weather conditions and perhaps of questionable value.

Garden City, KS -- Warm, early, dry spring with moisture limiting yield levels. No significant damage from insects or diseases.

Ft. Collins, CO -- Very good growing conditions except some heat stress in early spring. Planted 9/23/85 and harvested 7/23/86. Essentially no diseases present.

Akron, CO -- Excellent growing conditions. Planted 9/16/85 on no-till field and harvested 7/18/86. Essentially no diseases present.

Burlington, CO -- Excellent fall establishment. Severe moisture stress in late spring and essentially no diseases present. Planted 9/12/85 and harvested 7/12/86.

Mead, NE -- Planted on 10/8/85, harvested 7/11/86. The nurseries were planted and harvested later than normal. Good moisture throughout the growing season. Winter injury resulted from hard freezes in December and April, abruptly ending fall growth and limiting spring recovery. Severe leaf and stem rust epidemics reduced yield on susceptible cultivars.

Clay Center, NE -- Planted on 9/27/85, harvested 7/17/86. The nurseries were planted and harvested later than normal. Good moisture throughout the growing season. Winter injury resulted from hard freezes in December and April, abruptly ending fall growth and limiting spring recovery. Leaf and stem rust epidemics reduced yield on

susceptible cultivars. General conditions similar to Mead, but not as severe.

North Platte, NE -- Planted on 9/17/85, harvested 7/22/86. Normal planting and harvesting date with good moisture during the growing season. Good winter survival and recovery. Competition with downy brome affected yields. Main disease present was Cephalosporium stripe.

Sidney, NE -- Planted on 9/11/85, harvested 7/24/86. The nurseries were planted and harvested on time. Good winter survival and recovery. Above average late season moisture allowed the crop to finish well. No lodging and little disease or insect damage.

Alliance, NE -- Planted on 9/10/85, harvested 7/26/87. The nurseries were planted and harvested on time. Good winter survival and recovery. Above average late season moisture allowed the crop to finish well. No lodging and little disease or insect damage.

Brookings, SD -- The nurseries were seeded 9/21/85 in fall planted flax. There was excellent snow cover throughout the winter and early spring. A wet June provided for a high amount of tanspot, septoria, and leaf and stem rust. Harvested 7/23/86.

Presho, SD -- The nurseries were seeded 9/17/85 in oat stubble. Moisture was excessive. Snow cover over the entire winter ensured survival. Excessive rain in the spring and summer caused a high incidence of tanspot and septoria. Stem and leaf rust were also present. Several plots in the NRPN were not harvested due to poor stand caused by standing water. Harvested 7/17/86.

Highmore, SD -- The nurseries were seeded 9/5/85 into an optimum seedbed. Snow cover was variable. Tanspot, septoria, and leaf and stem rust were observed. Hail on June 16 caused straw breakage, especially on early maturing lines. Harvested 7/14/86.

Casselton, ND -- The nursery was planted 9/11/85 into flax strips. Adequate snow cover provided for 100% survival. Heavy leaf and stem rust infections affected yield and test weight. Harvested 7/21/86.

Columbia, MO -- The fall was extremely wet. Temperatures dropped to 0 degrees on December 1st with ice cover for several days. January was very dry with near normal rainfall occurring in late spring and below average rainfall in May and June. Diseases did not appear early in the season but were easily observed prior to harvest. There was a good aphid population in the fall and some barley yellow dwarf symptoms were observed in the spring.

Ames, IA -- Planted on 9/18/85 into field with cloddy surface but with good moisture and friable at seed placement level. Emerged in 10-12 days. Good growth occurred in fall and plants were well established by onset of winter. Winter survival was highly variable and spring rains were heavy, affecting the plots. Very severe leaf rust and septoria tritici infections occurred by June 18 with septoria nodorum on some entries and some tanspot. Decimated leaf area lead to low yields and

very low test weights. Heading, ripening, and plant height were erratic due to variable and spotty stands. The plots were harvested on 7/9/86. After attempts to adjust for variable stands, winterkill, flooding, and shattering, it was concluded that the test was unreliable and data were not reported.

Urbana, IL -- Adequate moisture provided for excellent fall germination, growth, and plant development throughout the growing season. The winter was more severe than usual and caused severe winterkill of less hardy entries. Some stem rust was present late in the season but probably did not reduce yields significantly.

Lind, WA -- Seeding conditions were unfavorable. Stand variation was due to field conditions and not varietal differences. Plots showing very poor stands were not harvested.

Aberdeen, ID -- No information.

Table 1. Yield and agronomic data for 45 entries in the Southern Regional Performance Nursery in 1986.

CLOVIS (IRR.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX81V6187	17	6202	76	83	110
NA-81-362-5	39	6007	76.1	81	117
TAM-107	48	5916	74.6	82	110
RH855001	36	5890	73.7	91	113
TX81V6183	16	5889	76	85	109
AGC-110	34	5771	71.1	93	117
TX81V6180	15	5675	75.6	79	108
C0820026	26	5667	72.3	90	115
CI17826	3	5579	75.1	89	114
TX78V2430-36	21	5532	73.7	85	116
TX78A3345-V42	19	5505	72.7	82	117
RH845202	35	5498	74.9	92	116
SDG-1001	41	5487	75.9	89	115
BOUNTY-301	43	5457	72.3	95	118
TX80A4135-6	18	5456	74.3	86	114
XH216A	44	5402	73.1	94	117
TX84V1227	24	5278	74.8	88	111
NE78488	30	5169	74.2	94	118
TX80A5172-4	20	5147	73.2	88	110
BOUNTY-205	42	5142	72.1	92	116
OK81322	10	5078	72.4	91	117
NA-81-171-14	40	5066	75.4	81	110
NA-HW81-170	38	5042	72.1	90	117
TAM-108	49	5031	68.8	86	118
RH855002	37	5014	74.5	89	115
KS82C2009	9	4738	73.6	97	118
CAPITAN	46	4715	71.9	103	119
TAMEX	47	4711	70.8	96	118
NE851182	28	4588	69.5	97	118
XH551	45	4573	70.6	85	116
KS82H4	4	4553	72.8	88	116
OK82377	14	4454	73.6	87	109
TX80A5901-1	23	4347	75.1	80	113
OK83396	11	4245	71.6	77	113
OK83201	13	4209	73.5	79	113
KS831203	8	4206	69.9	88	118
KS82H144	5	4200	74.3	80	112
AGC-101	31	4189	70.9	81	111
AGC-102	32	4080	69.9	77	110
NE77465	29	4052	68.6	95	118
TX84A7608	25	3907	68.6	78	110
CI13996	2	3870	73.5	102	117
KS831374	7	3870	70.9	80	114
KS831957	6	3805	71.2	88	116
CI1442	1	3772	72.9	110	122
TX81V5581	22	3671	69.7	72	110
OK83398	12	3646	71	83	114
C0810010	27	3568	71.2	90	117
AGC-106	33	3426	68.8	85	116
MEAN		4822			
LSD(.05)		720			
C.V.		9.1			

CLOVIS

(DRYL.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TAM-107	48	3159	75.9	63	106
TX80A4135-6	18	2817	76.1	60	108
AGC-110	34	2813	73.4	60	110
TX78V2430-36	21	2628	76	63	106
CI17826	3	2490	75.5	62	109
C0820026	26	2489	74.1	62	111
RH855001	36	2486	76.4	65	108
CAPITAN	46	2383	73.1	72	114
RH855002	37	2332	74.3	65	110
TAM-108	49	2261	70.5	58	114
RH845202	35	2215	75.6	64	111
TX80A5172-4	20	2159	74.5	63	105
SDG-1001	41	2142	76	62	108
KS82C2009	9	2123	75.5	61	113
TX84V1227	24	2120	75.6	64	106
NA-81-171-14	40	2108	76.2	57	106
OK82377	14	2101	74.5	63	105
TAMEX	47	2084	74.3	62	112
TX81V6183	16	2068	77	60	106
BOUNTY-205	42	2064	71.7	64	109
OK83201	13	2061	75.1	55	108
TX81V6180	15	2054	77.2	59	105
XH551	45	2048	71.9	61	110
TX78A3345-V42	19	2039	73	59	113
CI13996	2	2006	73.6	67	111
TX81V6187	17	1966	76.2	56	106
C0810010	27	1966	72.7	64	111
NE78488	30	1936	76.6	63	116
BOUNTY-301	43	1868	73.5	68	113
XH216A	44	1828	72.7	62	115
OK81322	10	1769	74.7	59	112
NE851182	28	1760	72.2	64	114
TX80A5901-1	23	1727	72.8	58	109
NA-HW81-170	38	1700	73.2	60	112
KS82H4	4	1690	72.4	62	109
KS831203	8	1690	71.5	58	111
OK83396	11	1683	71	60	107
AGC-101	31	1612	72.2	56	107
TX81V5581	22	1544	71.8	54	107
NE77465	29	1544	70.1	57	117
OK83398	12	1542	70.4	57	108
KS82H144	5	1530	75	59	106
CI1442	1	1436	70.9	67	121
KS831957	6	1394	69.2	63	110
KS831374	7	1392	71.9	59	109
NA-81-362-5	39	1284	72.9	55	114
AGC-102	32	1244	71.6	57	107
AGC-106	33	1240	70.7	58	110
TX84A7608	25	1053	70.2	52	107
MEAN		1952			
LSD(.05)		649			
C.V.		20.4			

FARMINGTON

NEW MEXICO

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1
KS82C2009	9	7767	72.9	87	0	135
TX81V6180	15	7767	72.6	74	0	129
BOUNTY-205	42	7490	71.9	86	0	130
TX81V6183	16	7229	72.6	73	0	132
C0810010	27	7132	72.6	87	0	133
XH551	45	7034	71	80	0	134
NA-81-362-5	39	6936	74.5	73	0	133
AGC-110	34	6920	71.3	79	0	130
NE78488	30	6839	69.7	91	20	135
SDG-1001	41	6839	73.2	87	25	129
CI17826	3	6757	72.6	79	0	129
OK83201	13	6757	71.9	76	0	132
TX81V6187	17	6741	72.9	70	8	132
TX78V2430-36	21	6708	69.7	85	3	137
NE851182	28	6692	68.7	87	20	136
C0820026	26	6513	70.3	81	0	134
TX80A4135-6	18	6350	70.6	80	0	130
BOUNTY-301	43	6301	70.6	87	3	134
TX78A3345-V42	19	6285	69.7	72	0	134
OK83396	11	6106	68.4	79	23	133
TX81V5581	22	6073	68.4	66	25	130
OK83398	12	6057	69	76	19	132
KS82H4	4	6041	71	82	13	132
TX80A5901-1	23	5943	70.3	76	25	132
KS831957	6	5878	70	83	3	134
RH845202	35	5797	72.2	83	5	134
RH855001	36	5780	71	86	3	132
XH216A	44	5715	69.3	85	19	140
RH855002	37	5683	70.3	81	25	133
TX84A7608	25	5666	68.4	75	3	135
NE77465	29	5585	69.3	94	0	134
KS831203	8	5552	69.3	78	3	134
AGC-102	32	5552	69.3	77	3	134
NA-81-171-14	40	5373	72.2	74	13	132
TX84V1227	24	5341	72.2	84	15	134
OK81322	10	5292	69.7	83	25	143
KS831374	7	5129	70.6	73	1	130
TX80A5172-4	20	5064	71.3	81	0	130
OK82377	14	4966	69.3	81	0	130
CI13996	2	4836	69.7	87	20	133
NA-HW81-170	38	4836	70.3	76	35	136
AGC-106	33	4641	69	83	5	135
CI1442	1	4266	66.8	95	19	143
KS82H144	5	4185	70	76	3	132
AGC-101	31	4119	67.1	74	25	134
MEAN		6012				
LSD(.05)		1457				
C.V.		17.3				

DALLAS TEXAS, THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV. %	LEAF RUST RESP 1-9	STEM RUST SEV. %	STEM RUST RESP 1-9	HAIL DAMAGE 0-9	MILDEW %	SEPTORIA TRITICI %
OK83396	11	2654	67.1	79	93	50	7	13	3	3	0	16
TX81V5581	22	2578	65.4	66	85	80	7	1	3	4	72	32
OK81322	10	2526	70.1	75	91	22	3	30	7	4	0	16
TX81V6183	16	2233	63.2	72	86	82	8	50	8	3	14	22
OK82377	14	2139	68.6	80	87	97	8	2	2	4	0	17
NA-81-171-14	40	2123	71.2	66	85	22	7	47	7	6	75	26
TX80A4135-6	18	2118	62.6	75	93	97	8	43	8	3	14	17
OK83398	12	2107	67.1	76	93	60	8	1	2	4	0	17
KS82H4	4	1977	66	80	99	87	8	0	.	2	39	26
TX78A3345-V42	19	1928	66	67	89	100	8	57	8	3	17	32
OK83201	13	1914	69.2	74	88	100	8	42	8	4	37	24
BOUNTY-301	43	1914	64.5	86	100	97	8	0	.	3	7	17
TX81V6187	17	1887	62.6	71	84	97	8	67	8	4	0	38
NE77465	29	1883	66.4	77	87	60	8	0	.	4	0	17
RH855001	36	1870	67.3	72	91	95	8	47	7	4	36	30
NA-HW81-170	38	1807	68.2	74	88	80	8	10	3	6	60	22
RH855002	37	1744	66.9	77	91	100	8	50	7	5	31	26
BOUNTY-205	42	1744	64.3	81	98	97	8	0	.	7	7	37
TX80A5901-1	23	1686	67.9	70	85	97	8	4	3	5	70	17
TX80A5172-4	20	1675	65.6	80	87	100	8	2	3	4	38	21
NA-81-362-5	39	1663	71	71	88	47	8	20	7	5	72	19
C0820026	26	1627	69	72	85	43	7	47	8	5	0	31
AGC-102	32	1616	67.7	67	86	100	8	50	8	4	36	30
NE851182	28	1589	60.8	88	100	97	8	2	3	3	0	24
NE78488	30	1553	66.9	85	87	93	8	22	7	5	33	16
TX84A7608	25	1524	68.4	76	85	93	8	57	8	6	42	17
TX81V6180	15	1502	64.5	72	86	60	8	12	7	3	0	17
TX78V2430-36	21	1482	63.9	76	99	70	7	0	.	2	38	17
KS831374	7	1441	68.2	72	87	22	7	50	8	5	19	22
SDG-1001	41	1417	69	67	87	97	8	53	8	7	35	29
TX84V1227	24	1388	67.3	83	99	50	7	0	.	3	49	19
KS831957	6	1381	68.2	75	87	72	8	63	8	4	11	21
XH551	45	1341	61.7	71	99	100	8	47	8	7	48	36
AGC-101	31	1309	67.5	72	85	100	8	50	8	5	41	37
AGC-110	34	1213	53.8	74	100	97	8	87	8	3	49	36
KS82H144	5	1177	65.4	76	99	80	8	12	3	3	42	24
RH845202	35	1172	60.8	75	87	97	8	50	8	3	36	31
CI13996	2	1141	61.3	85	100	100	8	22	7	1	14	21
XH216A	44	1139	62.1	81	100	100	8	4	3	4	9	22
KS82C2009	9	1137	65.4	69	98	60	8	12	3	4	16	27
CI17826	3	1067	57.4	74	96	97	8	22	7	3	22	26
KS831203	8	1031	58.1	77	99	97	8	53	7	4	37	16
C0810010	27	986	60.2	76	99	100	8	15	3	4	0	30
AGC-106	33	825	66.4	69	87	100	8	10	3	6	28	29
CI1442	1	195	63.4	90	111	100	8	20	7	1	0	19
MEAN		1609										
LSD(.05)		261										
C.V.		9.9										

CHILLICOTHE

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX81V6187	17	3013	76.5	65	97
TX81V6183	16	2892	79.8	64	97
RH855002	37	2867	74.3	67	97
TX81V6180	15	2856	75.9	61	96
TX78A3345-V42	19	2816	74.1	54	99
NA-81-171-14	40	2800	76.9	59	96
TX81V5581	22	2782	72	59	96
KS82H4	4	2686	75.4	58	104
RH855001	36	2686	73.8	61	96
OK83396	11	2674	71.1	63	104
OK81322	10	2659	73.6	69	98
TX80A4135-6	18	2645	72	56	105
SDG-1001	41	2636	75.3	60	96
XH551	45	2591	74	58	97
RH845202	35	2544	74.2	64	104
OK82377	14	2506	76.1	74	104
OK83398	12	2495	72.3	59	101
NE78488	30	2475	74.8	69	99
XH216A	44	2464	74.3	59	104
C0820026	26	2461	73.5	69	97
NE77465	29	2459	73.1	65	104
KS82C2009	9	2446	75.7	68	104
TX80A5172-4	20	2425	73.3	59	99
CI17826	3	2412	72.5	61	104
TX84A7608	25	2410	73.2	59	96
TX84V1227	24	2369	73.5	64	104
NA-HW81-170	38	2369	74.8	59	104
BOUNTY-205	42	2363	73.1	54	104
AGC-102	32	2336	73.7	61	94
TX78V2430-36	21	2334	74	63	106
TX80A5901-1	23	2298	72.2	58	96
KS831374	7	2280	74.2	72	96
AGC-106	33	2262	74.2	69	96
AGC-110	34	2262	73.5	58	110
NA-81-362-5	39	2248	77.5	56	106
KS831957	6	2237	73.8	69	96
KS82H144	5	2204	76	64	101
KS831203	8	2168	73.1	64	108
BOUNTY-301	43	2112	73.5	54	112
CI13996	2	2076	75.6	65	109
C0810010	27	2067	73.1	61	104
AGC-101	31	2056	74.3	64	96
NE851182	28	2053	71.5	64	109
CI1442	1	1780	74.3	78	119
OK83201	13	1545	73.7	51	98
MEAN		2425			
LSD(.05)		363			
C.V.		9.2			

BUSHLAND

(IRR.)

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
OK83396	11	6964	77	76	111
NA-81-362-5	39	6729	79.7	74	114
TX78V2430-36	21	6480	76.5	74	112
BOUNTY-301	43	6421	76.8	85	116
TX80A4135-6	18	6352	76.6	71	112
AGC-110	34	6327	76.1	77	115
OK81322	10	6141	75.7	80	113
OK83398	12	6107	76.2	76	110
TX81V6187	17	6078	78.3	70	107
NA-HW81-170	38	6047	77.2	76	115
TX81V6180	15	6038	78.7	70	106
BOUNTY-205	42	5977	75.9	81	113
TX80A5901-1	23	5896	79.2	74	111
TX81V6183	16	5881	78.1	68	107
C0820026	26	5876	77.5	80	110
RH845202	35	5876	77.7	81	113
TX78A3345-V42	19	5845	75.3	72	114
TX84V1227	24	5838	77.9	76	112
TX81V5581	22	5820	77	64	106
XH216A	44	5788	77.4	80	116
RH855002	37	5764	78.1	81	111
NE78488	30	5708	77.7	80	114
NE851182	28	5650	73	82	116
RH855001	36	5636	76.2	78	109
TX84A7608	25	5593	76.9	75	108
OK82377	14	5589	76.8	74	108
TX80A5172-4	20	5540	76.8	79	107
NE77465	29	5537	77.2	78	117
KS82C2009	9	5524	77	80	115
KS831203	8	5452	75.3	74	115
CI17826	3	5387	76.1	75	113
OK83201	13	5320	76.8	74	109
KS82H4	4	5315	77	79	114
XH551	45	5232	76.5	77	112
NA-81-171-14	40	5152	78.7	64	106
SDG-1001	41	5122	79.3	76	108
C0810010	27	5055	76.8	81	114
AGC-106	33	5030	76.5	78	111
KS82H144	5	5015	77.9	74	110
CI13996	2	4625	76.2	82	114
KS831374	7	4618	76.2	69	109
AGC-102	32	4434	76.1	69	106
AGC-101	31	4301	75.6	64	104
KS831957	6	4207	75.6	76	111
CI1442	1	3033	76.8	88	129
MEAN		5563			
LSD(.05)		520			
C.V.		5.7			

BUSHLAND

(DRYL.)

TEXAS

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX81V6183	16	1811	78.1	51	113
TX78V2430-36	21	1703	76.5	53	118
TX80A4135-6	18	1698	76	53	115
RH855001	36	1691	77.7	55	114
TX84V1227	24	1678	75.9	55	115
C0820026	26	1668	77	54	114
RH855002	37	1663	77.9	55	114
BOUNTY-205	42	1654	75.1	56	116
TX80A5172-4	20	1649	75.9	58	113
OK83396	11	1632	74.8	53	115
KS82C2009	9	1624	77.4	56	117
TX78A3345-V42	19	1614	75.9	48	116
TX81V6187	17	1584	78.6	50	114
TX81V5581	22	1567	75.6	51	111
RH845202	35	1557	76.2	54	116
NE78488	30	1555	78.4	56	117
TX84A7608	25	1535	75.9	52	112
NE851182	28	1525	74.2	57	119
SDG-1001	41	1521	78.3	55	113
AGC-110	34	1511	73.9	46	119
KS82H4	4	1508	76.5	51	117
KS831203	8	1503	73.5	52	118
OK83201	13	1494	77.3	55	114
XH551	45	1473	75.1	50	115
BOUNTY-301	43	1471	75.9	55	118
CI13996	2	1466	75.9	56	117
CI17826	3	1459	75	50	117
TX81V6180	15	1444	78.2	51	113
C0810010	27	1434	74.1	55	118
KS82H144	5	1432	77.7	52	114
TX80A5901-1	23	1432	77.8	51	115
NA-81-362-5	39	1432	77.4	47	116
OK81322	10	1422	75.5	51	116
NE77465	29	1404	73.4	48	119
AGC-102	32	1399	76	51	111
OK82377	14	1398	76.8	52	115
KS831374	7	1393	76.8	54	114
XH216A	44	1388	75.2	57	118
AGC-106	33	1355	77.3	57	116
OK83398	12	1331	75.5	51	114
NA-HW81-170	38	1330	74.1	52	116
NA-81-171-14	40	1328	78.6	50	111
KS831957	6	1289	76	53	113
AGC-101	31	1286	76.1	50	111
CI1442	1	1017	75	58	125
MEAN		1496			
LSD(.05)		178			
C.V.		8.5			

STILLWATER

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV. %	RESP. 1-9
BOUNTY-205	42	3710	74.4	82	107	65	8
RH855002	37	3631	75.6	78	99	40	8
OK83398	12	3630	75.1	73	105	0	2
NE78488	30	3623	77.9	75	102	40	8
TX78V2430-36	21	3577	76.1	75	112	5	2
TX84A7608	25	3572	73.7	66	97	1	2
XH216A	44	3571	74.7	79	109	25	5
NA-81-362-5	39	3542	76.5	72	108	1	2
TX81V6187	17	3532	75.9	70	100	65	8
OK81322	10	3451	73.1	71	104	5	2
KS831203	8	3415	73.8	74	110	65	8
XH551	45	3384	74.8	74	101	40	8
KS831374	7	3357	74.9	71	97	25	5
BOUNTY-301	43	3336	73.9	80	111	40	5
TX81V6180	15	3319	73.3	64	99	20	5
TX81V6183	16	3242	75.1	71	100	40	8
NE77465	29	3195	75.9	77	109	40	8
NE851182	28	3189	73.3	75	113	40	8
NA-81-171-14	40	3184	76.8	65	100	5	2
KS82C2009	9	3172	73.9	76	104	65	8
TX80A5172-4	20	3118	77	79	103	65	8
OK83396	11	3075	74.4	76	105	0	2
KS831957	6	3055	75.5	72	98	65	8
OK82377	14	3046	73.5	72	103	65	8
TX78A3345-V42	19	3023	74.3	67	101	65	8
SDG-1001	41	3021	77.4	70	98	65	8
NA-HW81-170	38	3012	75.5	75	108	65	8
TX81V5581	22	3007	72.9	64	97	40	8
TX80A5901-1	23	2977	76.4	71	99	99	8
TX84V1227	24	2944	76.9	77	110	25	2
RH855001	36	2929	72.6	80	101	99	8
AGC-106	33	2871	75.3	71	100	65	8
C0820026	26	2865	73.5	66	99	10	2
OK83201	13	2841	74.6	69	98	65	8
TX80A4135-6	18	2824	71.6	72	109	40	8
AGC-110	34	2800	71	69	112	65	8
KS82H4	4	2763	73.9	71	109	99	8
CI17826	3	2753	69.9	72	109	99	8
RH845202	35	2751	73.8	76	110	65	8
AGC-102	32	2662	74.4	64	97	40	8
AGC-101	31	2564	74	66	97	65	8
C0810010	27	2402	72.4	74	110	95	8
CI13996	2	2394	75.2	84	110	65	8
KS82H144	5	1991	70.7	71	109	65	8
CI1442	1	1813	73	82	121	65	8
MEAN		3070					
LSD(.05)		552					
C.V.		11.0					

ALTUS

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
OK83396	11	2479	74.6	57
TX84V1227	24	2443	77.3	60
TX78V2430-36	21	2439	76.5	53
OK82377	14	2425	76.8	57
BOUNTY-301	43	2425	75.1	58
OK81322	10	2421	75.5	56
OK83398	12	2417	75.6	56
TX80A4135-6	18	2367	71.5	58
NA-81-362-5	39	2269	78.6	51
BOUNTY-205	42	2269	74.6	59
NE77465	29	2233	74.2	56
NE78488	30	2215	75.7	57
RH855002	37	2174	74.4	57
SDG-1001	41	2174	75.2	57
XH216A	44	2165	75.3	61
KS82C2009	9	2156	75.1	59
TX80A5901-1	23	2148	77.1	54
KS82H4	4	2143	75.1	57
TX80A5172-4	20	2134	74.6	60
NA-HW81-170	38	2134	76.1	56
NE851182	28	2107	72.4	57
TX81V5581	22	2103	72.8	52
KS831203	8	2076	73.3	54
NA-81-171-14	40	2076	78.3	54
RH855001	36	2004	71.9	56
TX78A3345-V42	19	1991	72.8	51
CI13996	2	1964	73.9	68
OK83201	13	1964	74.9	55
TX81V6183	16	1959	73.4	53
TX81V6180	15	1941	73.9	54
TX84A7608	25	1937	73.7	55
XH551	45	1923	74.3	58
KS831374	7	1905	76.4	58
KS831957	6	1892	74.9	57
RH845202	35	1892	72.2	54
KS82H144	5	1861	73.4	55
TX81V6187	17	1825	73.7	50
AGC-110	34	1811	68.8	50
CI17826	3	1771	70.6	57
C0820026	26	1731	73.4	53
AGC-106	33	1708	72.8	56
AGC-102	32	1654	74.4	55
AGC-101	31	1614	74.2	54
C0810010	27	1556	70.4	57
CI1442	1	1228	73.4	64
MEAN		2047		
LSD(.05)		238		
C.V.		7.1		

LAHOMA

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
OK83396	11	4622	74.4	77
NA-81-171-14	40	4398	78.7	76
TX81V6180	15	4232	76.4	76
BOUNTY-301	43	4214	76.9	90
NE78488	30	4183	78	87
C0820026	26	4165	75.5	80
TX81V6187	17	4147	77.5	78
OK83398	12	4138	75.2	78
TX84A7608	25	4120	73.1	81
NE77465	29	4066	75.3	81
TX81V6183	16	4008	76.9	79
TX81V5581	22	4008	74.2	74
TX80A4135-6	18	3986	74.2	82
TX78V2430-36	21	3923	77.1	77
OK82377	14	3883	75.9	82
TX78A3345-V42	19	3865	73.5	74
BOUNTY-205	42	3829	73.9	85
TX80A5172-4	20	3797	73.5	87
NA-81-362-5	39	3779	78.4	74
KS831374	7	3766	77.4	79
OK81322	10	3753	74.8	79
NA-HW81-170	38	3699	77.5	76
RH855002	37	3681	75.7	84
XH216A	44	3640	76	83
TX84V1227	24	3627	77.8	85
KS831957	6	3591	76.1	87
AGC-106	33	3591	76.2	82
AGC-101	31	3587	76.4	77
NE851182	28	3524	74	83
SDG-1001	41	3515	76.8	82
KS82C2009	9	3452	75.2	85
AGC-102	32	3430	76	79
OK83201	13	3394	76.5	79
RH855001	36	3322	73.4	81
KS831203	8	3273	73.9	81
RH845202	35	3259	76.4	80
XH551	45	3255	75.3	78
KS82H144	5	3138	75.2	82
CI13996	2	3134	76.6	90
KS82H4	4	3120	75.5	78
CI17826	3	3071	72.9	79
AGC-110	34	3053	72.6	77
TX80A5901-1	23	2833	75.7	74
C0810010	27	2825	74.9	80
CI1442	1	2461	76.4	90
MEAN		3652		
LSD(.05)		382		
C.V.		6.4		

GOODWELL

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX81V6183	16	5039	79.3	62	117
RH855001	36	4953	78	67	118
TX84V1227	24	4916	79.2	68	125
TX81V6187	17	4871	79.3	62	118
TX80A5901-1	23	4847	79.3	65	118
RH855002	37	4847	78.2	69	118
TX81V6180	15	4761	78.7	62	118
TX80A4135-6	18	4757	78.2	63	124
TX78V2430-36	21	4724	77.1	63	125
OK81322	10	4671	77.9	63	123
TX80A5172-4	20	4659	77.4	72	118
TX78A3345-V42	19	4639	76.2	60	121
BOUNTY-301	43	4610	76.1	66	125
BOUNTY-205	42	4573	76.4	66	124
OK83396	11	4557	77.3	62	121
NA-81-362-5	39	4545	78.7	60	123
SDG-1001	41	4545	78.8	68	117
RH845202	35	4541	77.9	65	123
OK83201	13	4508	77.7	64	118
CI17826	3	4500	77.4	60	124
TX81V5581	22	4500	76.9	61	117
NE77465	29	4426	76.4	65	124
XH216A	44	4394	76.9	67	125
TX84A7608	25	4390	77.3	65	117
KS82C2009	9	4381	79.2	68	121
NE78488	30	4369	78.6	68	120
NA-81-171-14	40	4353	79.5	61	116
NA-HW81-170	38	4337	77.4	64	122
XH551	45	4300	77.4	64	119
C0820026	26	4247	77.1	62	118
AGC-110	34	4247	75.9	55	126
KS82H4	4	4239	76.6	64	124
CI13996	2	4230	77.3	73	125
KS831374	7	4202	77	65	117
KS831203	8	4161	75.1	63	124
OK83398	12	4136	77.3	64	120
AGC-106	33	4120	77	68	117
NE851182	28	4112	74.7	66	126
KS82H144	5	4087	78	61	122
C0810010	27	4030	76.1	67	125
OK82377	14	3879	77.4	62	124
AGC-102	32	3728	76.5	63	115
KS831957	6	3695	77.1	72	117
AGC-101	31	3683	76.5	60	115
CI1442	1	3287	75.2	71	132
MEAN		4391			
LSD(.05)		439			
C.V.		6.1			

HUTCHINSON

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF SEV. %	RUST RESP 1-9
RH855002	37	5196	77.2	86	118	97	8
NE78488	30	5176	78.2	89	119	13	8
TX81V5581	22	5169	74.6	73	113	40	8
NA-81-362-5	39	5061	78.8	78	121	5	4
RH855001	36	5029	75.2	85	117	100	8
TX78V2430-36	21	5024	76.2	84	123	38	6
BOUNTY-205	42	5008	76.5	86	123	80	8
NE77465	29	4978	76.4	95	123	15	6
OK81322	10	4965	78.8	82	119	7	4
NA-HW81-170	38	4953	77.9	84	121	33	8
C0820026	26	4942	77.2	79	116	30	8
OK82377	14	4904	79.2	84	119	38	8
TX81V6180	15	4897	78.1	73	113	73	8
BOUNTY-301	43	4829	75.4	94	124	7	4
TX84V1227	24	4820	78	91	122	5	3
NA-81-171-14	40	4757	79.7	74	114	2	3
XH551	45	4743	76.3	84	117	100	8
OK83396	11	4727	76	76	120	20	8
OK83398	12	4704	76.3	79	120	17	6
TX81V6187	17	4597	78.2	74	117	87	8
XH216A	44	4592	74.2	90	123	77	8
SDG-1001	41	4463	76.2	84	114	100	8
KS82H4	4	4402	76.5	85	122	87	8
KS82H144	5	4402	77.8	84	120	50	8
AGC-101	31	4370	74.3	79	111	70	8
OK83201	13	4363	77.3	81	115	67	8
AGC-106	33	4353	74.3	82	115	97	8
TX80A5901-1	23	4328	78.8	78	117	57	8
NE851182	28	4296	73.7	90	123	67	8
RH845202	35	4295	74.4	92	121	97	8
KS82C2009	9	4265	77.1	89	119	90	8
TX80A5172-4	20	4262	77.3	88	117	83	8
CI13996	2	4237	76.5	104	122	77	8
TX81V6183	16	4207	77.7	76	117	73	8
TX84A7608	25	4155	76.2	79	113	67	8
KS831957	6	4123	77	89	116	60	8
KS831203	8	4114	70.5	89	123	73	8
KS831374	7	4013	77.2	79	115	80	8
C0810010	27	3966	73.6	96	123	93	8
TX80A4135-6	18	3960	70.8	80	121	50	8
TX78A3345-V42	19	3742	70.8	73	119	100	8
AGC-102	32	3730	74.4	75	112	77	8
AGC-110	34	3682	68.2	79	123	97	8
CI17826	3	3601	70	83	120	100	8
CI1442	1	2668	68.5	115	128	63	8
MEAN		4468					
LSD(.05)		581					
C.V.		8.0					

MANHATTAN

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	STEM RUST SEV. 1-9	STEM RUST RESP. 1-9
C0820026	26	5716	75.1	88	123	3	3
OK81322	10	5700	73.5	90	123	4	7
NA-81-171-14	40	5568	75.9	85	122	6	7
NE78488	30	5554	76	102	124	4	7
OK82377	14	5505	75.2	90	126	7	7
BOUNTY-301	43	5434	74.2	107	128	7	8
TX81V6180	15	5298	73.9	79	122	5	7
BOUNTY-205	42	5254	71.4	105	127	2	3
OK83396	11	5148	72.5	86	125	7	8
TX81V5581	22	5063	73.3	79	120	4	7
RH855002	37	5034	74.1	91	124	5	7
OK83398	12	4965	72.8	91	126	7	8
OK83201	13	4839	71.2	88	121	8	8
NE77465	29	4823	74.2	103	126	2	3
KS82C2009	9	4722	75.2	100	126	5	7
NA-81-362-5	39	4695	76.6	84	127	8	8
KS831374	7	4643	74.1	88	118	8	7
AGC-102	32	4571	74.4	83	119	9	9
AGC-106	33	4503	75.3	86	122	8	8
RH855001	36	4459	69.3	92	124	5	7
TX81V6183	16	4422	69.9	84	123	8	9
TX81V6187	17	4411	71.2	81	124	8	9
TX84V1227	24	4409	75.5	104	127	7	8
TX78V2430-36	21	4403	74.8	95	128	7	8
NE851182	28	4402	71.5	103	127	5	7
XH551	45	4401	71.4	87	124	6	7
NA-HW81-170	38	4320	75	91	127	6	7
TX80A5901-1	23	4285	70.5	82	123	5	7
AGC-101	31	4269	73.1	87	118	7	8
SDG-1001	41	4169	69.6	89	123	9	9
KS82H144	5	4168	73.4	92	124	5	7
TX80A5172-4	20	4168	72.5	95	124	4	3
KS82H4	4	4010	72.9	97	126	2	3
XH216A	44	3980	70.9	96	128	8	8
TX84A7608	25	3816	68.3	85	122	9	9
KS831957	6	3747	69.9	95	121	9	9
TX78A3345-V42	19	3626	63.1	78	126	7	8
RH845202	35	3446	68	95	126	9	9
KS831203	8	3441	67.6	98	127	8	8
CI13996	2	3269	71.6	111	126	5	7
CI17826	3	3250	62.6	93	125	9	9
C0810010	27	3134	69.8	103	127	4	7
AGC-110	34	2791	60.6	89	127	9	9
TX80A4135-6	18	2752	58.9	89	127	9	9
CI1442	1	1301	57.9	124	.	8	8
MEAN		4353					
LSD(.05)		573					
C.V.		8.1					

HAYS

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
OK83396	11	4610	75.1	72	126
TX81V6180	15	4408	78	69	122
NE78488	30	4376	76.6	80	126
BOUNTY-301	43	4318	73.1	78	129
RH855002	37	4244	75.9	75	124
NE77465	29	4181	73.3	74	129
TX80A5172-4	20	4112	75.3	78	123
C0820026	26	4085	76.1	72	124
KS84HW196	46	4079	76	69	124
OK83398	12	4018	73.7	69	125
OK82377	14	3986	76.9	70	124
BOUNTY-205	42	3981	72.9	77	126
TX81V6187	17	3974	77.4	69	124
TX80A4135-6	18	3965	74.7	70	126
RH855001	36	3936	75.7	74	124
NA-81-171-14	40	3901	77.9	65	122
NA-81-362-5	39	3889	76.8	65	127
TX81V6183	16	3884	77.4	69	123
TX84A7608	25	3875	73.3	72	123
TX81V5581	22	3853	75.3	64	121
TX80A5901-1	23	3851	77.4	68	124
CI13996	2	3781	76.8	88	127
TX84V1227	24	3724	76	76	127
KS82H4	4	3689	75.3	74	127
KS82H144	5	3685	75.1	72	124
AGC-110	34	3678	73.1	68	127
XH216A	44	3678	73.8	74	127
KS831374	7	3668	74.9	72	123
NE851182	28	3662	73.4	79	128
KS831203	8	3659	73.3	74	128
TX78A3345-V42	19	3639	72	67	126
OK83201	13	3622	75.5	69	123
RH845202	35	3615	75.5	74	126
SDG-1001	41	3565	76.6	73	122
NA-HW81-170	38	3552	75.3	70	127
AGC-106	33	3549	72.9	70	123
TX78V2430-36	21	3537	73.7	74	128
CI17826	3	3512	74.7	71	126
KS831957	6	3402	74.2	74	123
KS82C2009	9	3369	75.2	72	126
AGC-101	31	3308	75.7	70	123
C0810010	27	3206	71.2	80	127
XH551	45	3154	72.8	71	125
CI1442	1	2550	68.6	102	136
OK81322	10	.	.	.	.
AGC-102	32	.	.	.	.
MEAN		3773			
LSD(.05)		432			
C.V.		7.0			

COLBY

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1	SNOW DAMAGE %
TX80A4135-6	18	3407	75.5	73	7	128	5
OK83396	11	3208	75.3	71	7	127	0
TX80A5901-1	23	3183	76.9	73	7	127	5
RH855001	36	3026	76.4	77	17	128	20
TX81V5581	22	3004	74.6	68	5	125	0
RH845202	35	2934	76.5	76	10	128	10
BOUNTY-301	43	2910	75.1	80	10	130	15
RH855002	37	2898	76.6	78	27	127	15
TX78A3345-V42	19	2851	74.3	69	4	129	2
CI17826	3	2786	76.9	71	7	128	2
NA-81-362-5	39	2746	79.3	66	13	129	0
OK81322	10	2742	77.7	73	7	128	0
AGC-110	34	2721	76.7	69	8	129	5
TX84V1227	24	2717	77.2	77	5	129	10
C0820026	26	2668	77	79	17	128	5
KS82H4	4	2627	76.2	74	8	128	10
TX81V6187	17	2616	78.8	73	18	126	15
SDG-1001	41	2594	75.4	75	17	126	5
TX81V6183	16	2551	78.8	72	13	126	5
OK83398	12	2529	74.1	73	8	127	0
TX84A7608	25	2486	73.5	75	12	127	10
XH551	45	2448	76.1	74	13	128	5
KS831203	8	2443	73.8	75	15	129	5
TX81V6180	15	2430	78.7	71	10	125	15
TX80A5172-4	20	2428	76.4	79	23	126	5
NA-81-171-14	40	2410	75.3	69	10	125	15
NE78488	30	2352	76.3	75	27	131	5
KS831374	7	2345	74.1	71	5	127	10
KS831957	6	2336	75.1	80	12	128	20
NE851182	28	2255	75	77	20	131	0
BOUNTY-205	42	2253	73.2	76	30	128	35
NE77465	29	2219	74.7	76	30	132	2
OK83201	13	2204	76.9	71	20	127	5
XH216A	44	2152	76.5	75	23	130	5
KS82C2009	9	2132	76	76	13	129	10
AGC-101	31	2132	73.7	74	12	126	10
TX78V2430-36	21	2080	74.8	69	17	129	5
AGC-102	32	2035	74.9	70	13	126	10
NA-HW81-170	38	1973	76.3	69	23	129	5
KS82H144	5	1921	75.4	72	20	127	15
CI13996	2	1847	76.2	82	50	129	5
AGC-106	33	1744	73.7	76	40	128	5
OK82377	14	1529	75.4	69	37	126	15
C0810010	27	1374	72.5	75	43	128	40
CI1442	1	1188	73.3	97	60	136	10
MEAN		2432					
LSD(.05)		496					
C.V.		12.5					

GARDEN CITY

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	SHATTER %
TX81V5581	22	1991	77.4	53	122	0
TX80A4135-6	18	1949	75.2	55	124	0
RH855002	37	1949	76.8	62	123	0
C0820026	26	1926	77.5	60	122	0
NE78488	30	1890	78.1	58	125	0
XH551	45	1890	76.1	58	124	0
TX81V6187	17	1882	78	53	122	2
XH216A	44	1873	74	58	126	0
TX84A7608	25	1844	75.8	55	123	0
BOUNTY-205	42	1838	76.1	60	125	0
RH855001	36	1825	76.4	55	123	0
C0810010	27	1823	74.6	60	125	0
NE851182	28	1798	74	58	128	0
OK81322	10	1786	77.1	53	124	1
SDG-1001	41	1784	77.8	60	123	0
OK82377	14	1738	77	58	122	0
TX78V2430-36	21	1737	76.3	57	125	0
OK83396	11	1733	75.5	57	124	0
AGC-110	34	1733	74.3	47	126	0
TX81V6183	16	1731	78	50	122	2
OK83398	12	1725	76.6	57	124	0
NA-81-362-5	39	1725	77.4	47	125	0
CI13996	2	1716	76.6	62	125	0
RH845202	35	1685	76.8	53	125	0
TX80A5901-1	23	1662	78.4	53	124	0
CI17826	3	1654	75.4	52	125	0
NE77465	29	1654	73.2	52	127	0
TX84V1227	24	1644	76.8	57	124	0
OK83201	13	1643	77.7	55	123	1
TX80A5172-4	20	1641	75.9	53	123	0
NA-81-171-14	40	1639	78.3	53	121	0
KS831957	6	1635	75.5	57	125	0
BOUNTY-301	43	1627	75.4	58	125	0
AGC-106	33	1601	76.7	58	123	0
KS82C2009	9	1597	77.4	55	125	0
TX81V6180	15	1570	77.7	57	121	2
TX78A3345-V42	19	1522	73.8	50	126	0
KS831374	7	1505	76.3	53	124	0
KS82H4	4	1503	76	53	125	0
AGC-101	31	1497	76.5	55	121	0
AGC-102	32	1471	76.4	53	121	0
KS82H144	5	1432	77.4	55	123	0
NA-HW81-170	38	1403	75.5	52	125	0
KS831203	8	1377	73.2	48	126	0
CI1442	1	1212	67.4	58	131	0
MEAN		1690				
LSD(.05)		357				
C.V.		12.9				

FORT COLLINS

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
NE77465	29	6647	79.5	107	154
BOUNTY-301	43	6595	76.4	100	152
KS82C2009	9	6443	80.5	98	154
C0810010	27	6204	79.5	102	154
TX80A4135-6	18	6132	78.6	86	152
C0820026	26	6083	79.5	83	149
TX78V2430-36	21	6069	74.9	89	152
TX81V6180	15	6049	78.6	77	148
NE851182	28	6035	74.9	95	153
AGC-110	34	5988	76.4	85	152
TX81V6183	16	5981	78.3	80	147
TX84V1227	24	5980	77.7	95	152
NE78488	30	5965	80.2	103	153
RH855002	37	5956	78.3	85	147
OK83396	11	5888	78.3	81	151
KS82H4	4	5876	77.7	91	150
NA-HW81-170	38	5866	77.4	84	153
TX78A3345-V42	19	5837	76.1	76	152
RH855001	36	5790	78.6	93	148
NA-81-362-5	39	5695	78.6	71	153
VONA	49	5666	80.2	86	148
TX81V6187	17	5637	78.9	76	150
OK83201	13	5607	78.6	85	149
TX80A5172-4	20	5561	78.3	91	148
CI13996	2	5508	79.2	112	152
CI17826	3	5501	78.3	84	149
TX84A7608	25	5475	78	79	149
RH845202	35	5451	75.5	90	150
XH216A	44	5448	78	89	153
CODY	46	5330	78.9	104	154
TX81V5581	22	5301	77.4	72	148
BOUNTY-205	42	5264	74	93	152
OK81322	10	5173	77.1	86	154
AGC-B1-1	47	5160	77.7	85	148
SDG-1001	41	5145	78.9	84	148
KS831203	8	5098	76.4	94	154
OK82377	14	5004	77.4	89	149
LANCOTA	48	4967	77.7	104	155
XH551	45	4844	77.1	89	150
OK83398	12	4829	76.8	83	150
TX80A5901-1	23	4741	77.7	84	150
CI1442	1	4685	76.8	119	157
KS831957	6	4658	77.1	90	149
KS82H144	5	4593	76.8	85	149
AGC-101	31	4248	76.4	80	146
NA-81-171-14	40	4186	77.4	67	145
KS831374	7	4073	76.8	80	150
AGC-102	32	3801	74.3	76	147
AGC-106	33	3687	76.1	83	150
MEAN		5423			
LSD(.05)		926			
C.V.		10.5			

BURLINGTON

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
VONA	49	5068	77.4	75
TX80A4135-6	18	5019	78.9	77
TX81V6187	17	5000	75.8	75
RH855002	37	4981	75.5	77
BOUNTY-301	43	4814	74.9	87
TX81V6183	16	4682	77.1	71
AGC-B1-1	47	4670	77.4	77
RH845202	35	4632	74.6	80
TX80A5172-4	20	4588	77.1	76
BOUNTY-205	42	4566	74.3	82
NA-81-362-5	39	4503	78	67
C0820026	26	4499	77.4	75
AGC-110	34	4458	75.8	69
AGC-101	31	4443	76.1	79
SDG-1001	41	4443	75.2	79
TX81V5581	22	4381	75.8	69
TX84A7608	25	4317	72.7	64
NA-81-171-14	40	4281	77.7	72
RH855001	36	4276	74.6	79
TX84V1227	24	4234	75.2	76
NA-HW81-170	38	4213	78.9	73
CI17826	3	4208	74.6	74
TX81V6180	15	4208	75.2	65
TX80A5901-1	23	4142	75.8	69
TX78A3345-V42	19	4140	73.7	68
CI13996	2	4072	77.4	97
OK83201	13	4070	77.4	64
XH551	45	4059	74.3	75
NE851182	28	4025	72.7	74
AGC-102	32	4020	74.6	74
TX78V2430-36	21	3982	74	69
KS82H4	4	3914	74	75
AGC-106	33	3875	74.3	81
XH216A	44	3871	71.2	77
KS82C2009	9	3853	74.9	75
CODY	46	3838	79.2	77
NE78488	30	3813	77.1	80
KS831957	6	3784	75.8	86
LANCOTA	48	3768	75.5	88
OK82377	14	3735	76.8	73
C0810010	27	3714	74	79
KS831374	7	3686	78	69
OK81322	10	3588	78	74
OK83396	11	3539	72.1	64
NE77465	29	3493	74.6	75
KS82H144	5	3394	76.8	69
KS831203	8	3385	72.4	74
OK83398	12	3342	72.4	68
CI1442	1	2415	74.9	111
MEAN		4122		
LSD(.05)		811		
C.V.		12.0		

AKRON

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
VONA	49	3350	78.6	70
C0820026	26	3099	78.3	69
RH855002	37	3018	77.4	73
XH216A	44	3008	76.4	80
RH855001	36	2982	78.3	73
BOUNTY-205	42	2937	78	78
SDG-1001	41	2899	78	71
TX81V6180	15	2864	79.5	69
OK83201	13	2862	77.4	69
TX84V1227	24	2803	79.9	76
AGC-B1-1	47	2787	76.8	67
BOUNTY-301	43	2760	77.1	83
NA-81-171-14	40	2753	79.5	62
OK81322	10	2751	77.4	76
TX80A4135-6	18	2732	77.7	68
TX84A7608	25	2723	78	68
C0810010	27	2706	77.1	81
NE851182	28	2701	75.8	81
CODY	46	2701	75.2	90
NE78488	30	2613	77.1	91
KS82C2009	9	2608	78.9	79
NA-HW81-170	38	2589	78	77
LANCOTA	48	2557	77.4	83
OK83396	11	2551	77.4	69
TX81V6183	16	2545	79.5	64
AGC-110	34	2545	76.8	69
XH551	45	2545	76.1	76
KS831203	8	2539	77.4	74
AGC-106	33	2528	76.8	71
RH845202	35	2501	75.2	75
TX80A5901-1	23	2499	78.6	71
CI13996	2	2468	79.2	86
AGC-102	32	2456	78	69
TX81V6187	17	2451	80.5	63
CI17826	3	2427	76.8	68
AGC-101	31	2392	77.7	69
OK82377	14	2371	78.6	66
KS831957	6	2348	72.7	76
TX81V5581	22	2330	77.4	64
NA-81-362-5	39	2306	78.9	64
NE77465	29	2305	75.8	84
TX78V2430-36	21	2300	77.7	73
KS831374	7	2297	76.8	72
TX80A5172-4	20	2296	76.1	69
KS82H4	4	2268	78.6	70
OK83398	12	2241	77.7	69
TX78A3345-V42	19	2224	77.7	69
KS82H144	5	2023	77.4	68
CI1442	1	1732	74.9	110
MEAN		2577		
LSD(.05)		454		
C.V.		10.8		

MEAD

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV. %	LEAF RUST RESP 1-9	STEM RUST SEV. %	STEM RUST RESP 1-9
NE77465	29	2849	74.8	105	152	1	2		2
OK83396	11	2719	69	85	151	1	2		8
OK81322	10	2688	69.7	93	150	1	2		8
CI13996	2	2564	74.2	113	151	90	8		2
OK83398	12	2354	69	89	152	1	2		8
NA-81-171-14	40	2280	72.2	76	147	1	2		8
KS82H4	4	2278	72.2	95	153	50	7		2
TX80A5901-1	23	2278	73.5	82	150	90	8		7
NE78488	30	2219	73.5	100	149	1	2		2
BOUNTY-205	42	2170	69.7	99	154	1	2		3
NA-81-362-5	39	2062	72.2	79	152	1	2		7
OK82377	14	2035	70.3	91	153	1	2		7
RH855001	36	2006	67.1	90	150	90	8		8
RH855002	37	1970	69	90	149	90	8		8
NE851182	28	1961	68.4	102	156	5	7		2
BOUNTY-301	43	1789	68.4	96	156	1	2		8
TX81V5581	22	1751	67.7	74	149	90	8		7
NA-HW81-170	38	1722	67.1	86	153	1	2		3
KS831374	7	1668	70.3	76	146	1	2		8
KS82H144	5	1618	68.4	89	153	10	7		3
RH845202	35	1596	67.1	100	151	90	8		8
XH216A	44	1556	67.1	94	154	10	7		8
XH551	45	1509	75.5	81	149	90	8		8
TX80A5172-4	20	1493	67.1	92	151	50	7		7
CI17826	3	1453	61.3	97	149	90	8		8
C0820026	26	1363	71	76	151	25	7		2
AGC-102	32	1325	71	74	146	90	8		8
KS831957	6	1255	67.1	92	146	25	7		8
AGC-101	31	1177	71	77	145	80	7		8
KS831203	8	1107	64.5	88	155	1	2		2
TX81V6187	17	1107	70.3	75	152	90	8		8
TX81V6180	15	1085	68.4	71	152	50	7		8
SDG-1001	41	1058	61.9	84	147	90	8		8
C0810010	27	1027	70.3	100	152	90	8		2
TX84A7608	25	1015	63.2	77	147	1	2		2
AGC-106	33	1015	67.1	76	150	90	8		8
KS82C2009	9	998	67.1	91	153	75	7		8
TX81V6183	16	995	68.4	77	151	90	8		8
TX78V2430-36	21	968	67.1	81	157	1	2		3
OK83201	13	841	68.4	79	151	80	8		3
TX80A4135-6	18	820	58.1	94	154	50	3		8
TX84V1227	24	773	69.7	90	158	1	2		8
CI1442	1	753	64.5	121	157	90	8		8
AGC-110	34	697	56.8	88	152	75	7		8
TX78A3345-V42	19	679	60.6	69	151	90	7		2
MEAN		1570							
LSD(.05)		501							
C.V.		19.5							

CLAY

CENTER

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
BOUNTY-205	42	2561	71.6	99
NE77465	29	2510	76.1	97
OK83398	12	2368	71	79
BOUNTY-301	43	2354	72.5	97
NA-81-362-5	39	2270	71.6	71
NA-81-171-14	40	2208	73.1	66
OK83396	11	2196	69	76
KS82H4	4	2152	74.8	91
NE78488	30	2128	76.1	89
OK81322	10	1898	74.2	86
NA-HW81-170	38	1755	68.9	79
CI13996	2	1710	75.5	102
CI17826	3	1700	67.1	86
RH855001	36	1648	66.4	79
TX81V5581	22	1634	71	64
NE851182	28	1500	69.7	89
AGC-102	32	1488	68.4	69
KS831957	6	1459	71	89
OK82377	14	1432	70.3	79
TX80A5901-1	23	1430	73.5	84
KS82H144	5	1365	71	84
KS831374	7	1348	72.2	71
TX80A4135-6	18	1325	61.9	86
XH216A	44	1280	69.7	94
C0820026	26	1252	71	76
XH551	45	1249	72.2	84
AGC-101	31	1241	67.9	69
TX84A7608	25	1172	67.7	91
RH845202	35	1147	65.3	81
RH855002	37	1144	67.9	79
SDG-1001	41	1068	65.5	81
AGC-106	33	1027	66	66
TX80A5172-4	20	1011	67.1	84
CI1442	1	948	67.1	127
AGC-110	34	936	57	76
OK83201	13	908	71	66
C0810010	27	891	71	69
KS82C2009	9	841	67.7	81
TX81V6183	16	768	65.8	61
TX78A3345-V42	19	754	62.6	69
TX78V2430-36	21	724	67.7	86
TX81V6187	17	708	69	71
TX84V1227	24	695	69	76
KS831203	8	673	63.2	76
TX81V6180	15	573	67.7	66
MEAN		1410		
LSD(.05)		436		
C.V.		18.9		

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
NA-81-362-5	39	4672	77.4	86
NE77465	29	4349	74.2	103
NE78488	30	4228	75.5	112
BOUNTY-301	43	3937	73.5	94
NE851182	28	3885	74.8	88
AGC-106	33	3623	74.2	81
TX81V5581	22	3584	69.7	72
KS82C2009	9	3578	77.4	97
TX80A5901-1	23	3554	77.4	70
BOUNTY-205	42	3535	74.8	90
KS82H4	4	3506	75.5	86
XH216A	44	3488	75.5	90
AGC-102	32	3461	72.9	77
RH855001	36	3416	74.8	84
OK81322	10	3363	74.8	89
RH855002	37	3340	78	88
OK83398	12	3306	71.6	77
NA-81-171-14	40	3303	73.5	72
RH845202	35	3219	71.6	88
NA-HW81-170	38	3200	74.8	79
OK83396	11	3017	71	74
TX80A5172-4	20	2988	72.2	87
KS831374	7	2986	76.8	84
C0810010	27	2962	74.8	97
C0820026	26	2956	76.1	81
CI17826	3	2938	71	88
AGC-101	31	2894	72.9	74
CI13996	2	2812	76.1	103
XH551	45	2804	73.5	81
TX81V6183	16	2770	71	76
KS831203	8	2728	73.5	88
KS831957	6	2687	75.5	86
TX81V6187	17	2586	74.8	72
KS82H144	5	2585	77.4	84
TX78A3345-V42	19	2570	73.5	79
OK82377	14	2498	70.3	83
TX81V6180	15	2470	69.7	70
TX80A4135-6	18	2456	73.5	84
AGC-110	34	2433	64.5	79
SDG-1001	41	2411	68.4	79
TX84A7608	25	2392	73.5	71
TX84V1227	24	2346	77.4	86
OK83201	13	2119	73.5	79
CI1442	1	1949	73.5	130
TX78V2430-36	21	1765	77.4	81
MEAN		3059		
LSD(.05)		900		
C.V.		18.1		

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
C0820026	26	5025	80.6	86	155
NE77465	29	4746	79.3	100	156
C0810010	27	4675	81.9	94	156
NA-81-362-5	39	4668	80.6	77	155
BOUNTY-205	42	4567	78	88	154
KS82C2009	9	4545	81.9	91	156
NE851182	28	4523	77.4	91	155
OK81322	10	4481	79.3	85	156
NE78488	30	4461	80.6	104	156
OK83396	11	4279	79.3	70	155
TX81V6180	15	4261	80	72	153
XH216A	44	4231	77.4	90	157
XH551	45	4195	80	91	154
KS831374	7	4130	80	79	153
TX80A5901-1	23	4104	80	80	157
TX81V6187	17	4101	80.6	76	152
OK83201	13	4062	80	80	153
TX81V6183	16	3929	79.3	72	152
RH855002	37	3899	80.6	86	153
TX84V1227	24	3896	81.9	85	156
BOUNTY-301	43	3883	79.3	94	156
TX78V2430-36	21	3828	77.4	80	156
KS82H4	4	3781	78.7	83	155
TX81V5581	22	3766	78	71	155
CI17826	3	3756	77.4	77	153
RH855001	36	3750	80	81	153
NA-HW81-170	38	3746	80.6	81	156
SDG-1001	41	3746	78	86	153
KS831203	8	3740	80	86	156
AGC-110	34	3720	78.7	77	153
OK83398	12	3672	79.3	74	155
RH845202	35	3667	80	88	153
NA-81-171-14	40	3572	79.3	70	153
TX80A4135-6	18	3565	79.3	76	153
AGC-101	31	3507	78	80	152
AGC-106	33	3489	81.9	84	153
AGC-102	32	3476	80	85	153
OK82377	14	3469	80	80	155
TX80A5172-4	20	3440	77.4	77	155
TX78A3345-V42	19	3421	78	76	154
TX84A7608	25	3387	76.1	75	154
KS82H144	5	3375	80	75	154
CI13996	2	3290	78.7	103	154
KS831957	6	3247	78.7	84	154
CI1442	1	2897	77.4	113	164
MEAN		3910			
LSD(.05)		617			
C.V.		9.7			

ALLIANCE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
C0810010	27	4319	79.3	86	160
TX84A7608	25	4060	76.1	74	160
BOUNTY-205	42	3998	74.8	84	160
C0820026	26	3954	77.4	80	159
BOUNTY-301	43	3939	74.8	86	160
SDG-1001	41	3925	77.4	85	160
NE78488	30	3901	75.5	89	160
NE851182	28	3825	72.9	83	160
TX81V6183	16	3797	77.4	74	157
RH855002	37	3796	77.4	90	157
TX81V6187	17	3781	76.1	69	158
NE77465	29	3720	76.8	86	160
KS82C2009	9	3716	.	84	160
TX78A3345-V42	19	3716	74.8	72	160
CI17826	3	3684	78	80	160
TX81V6180	15	3684	76.1	69	158
AGC-110	34	3642	76.1	74	157
CI13996	2	3605	78.7	95	160
RH855001	36	3554	76.1	76	157
TX80A5901-1	23	3535	78	70	160
RH845202	35	3509	76.8	77	158
XH551	45	3423	76.1	79	160
KS831374	7	3419	76.1	75	157
XH216A	44	3408	75.5	81	160
OK83201	13	3404	76.1	77	157
AGC-102	32	3360	76.1	72	157
OK81322	10	3334	74.2	75	161
AGC-106	33	3322	77.4	80	159
AGC-101	31	3310	74.2	76	160
OK83396	11	3274	75.5	64	160
KS831203	8	3241	74.8	80	160
KS831957	6	3188	75.5	84	157
KS82H4	4	3155	79.3	76	160
TX80A4135-6	18	3120	77.4	75	157
NA-81-362-5	39	3120	.	69	160
NA-81-171-14	40	3113	76.1	70	160
CI1442	1	3079	77.4	104	162
TX80A5172-4	20	3049	76.1	76	160
OK83398	12	2925	76.1	70	160
TX81V5581	22	2898	76.1	66	160
NA-HW81-170	38	2882	76.8	75	160
KS82H144	5	2550	76.1	69	160
TX84V1227	24	2540	.	70	162
TX78V2430-36	21	2534	75.5	67	161
OK82377	14	2300	76.1	66	160
MEAN		3414			
LSD(.05)		644			
C.V.		11.5			

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
BOUNTY-205	42	4766	74.4	93	159	87
BOUNTY-301	43	4424	73.9	91	161	83
NA-81-171-14	40	4204	73.7	68	158	93
RH855002	37	4082	69.7	90	159	90
TX81V5581	22	4067	65	74	159	87
NE78488	30	3938	72.8	98	162	80
AGC-106	33	3859	72.6	80	158	77
NE77465	29	3795	73.7	97	163	83
C0820026	26	3749	67.7	78	159	77
AGC-102	32	3738	72.4	75	158	87
OK83398	12	3675	68.8	81	160	80
OK82377	14	3656	67.2	83	160	73
KS82H4	4	3525	72.4	86	161	73
NE851182	28	3517	69.5	95	162	83
AGC-101	31	3516	70.6	76	158	83
KS831957	6	3451	74.8	97	162	83
NA-81-362-5	39	3446	70.1	72	160	87
RH855001	36	3426	68.6	86	159	87
XH216A	44	3404	68.6	80	161	80
OK81322	10	3400	68.6	84	161	67
XH551	45	3335	68.3	87	159	87
KS831374	7	3276	69.4	76	158	73
OK83201	13	3273	67	84	159	83
OK83396	11	3248	65	76	161	77
TX81V6180	15	3206	66.5	71	160	73
TX80A5901-1	23	3202	67.5	77	159	83
KS82H144	5	3177	70.8	77	160	83
TX78V2430-36	21	3156	72.2	85	160	67
KS82C2009	9	3143	70.4	94	160	73
TX81V6187	17	3143	66.8	79	159	70
RH845202	35	3097	66.5	91	159	83
TX84A7608	25	3002	63.4	79	160	87
SDG-1001	41	2839	66.1	82	158	77
TX84V1227	24	2765	72.8	93	162	73
KS831203	8	2708	70.3	85	160	67
CI13996	2	2602	70.8	102	161	73
TX78A3345-V42	19	2340	60.3	72	160	73
TX81V6183	16	2302	66.3	75	159	77
TX80A5172-4	20	2273	68.1	91	161	67
CI17826	3	2225	65.2	88	161	63
NA-HW81-170	38	2209	65.9	79	161	70
C0810010	27	2129	68.1	94	161	83
AGC-110	34	1544	60.9	83	159	77
TX80A4135-6	18	1517	56.2	82	161	63
CI1442	1	1271	68.1	110	163	60
MEAN		3169				
LSD(.05)		774				
C.V.		15.0				

PRESHO

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
RH855002	37	2861	77.3	76	151	97
NA-81-362-5	39	2691	80	69	151	100
RH855001	36	2656	75.9	70	151	100
NA-81-171-14	40	2390	78.2	66	152	97
TX80A5901-1	23	2381	77.8	65	151	97
SDG-1001	41	2366	76	72	151	97
OK81322	10	2359	76.8	67	155	97
KS831957	6	2223	78.4	77	155	100
XH216A	44	2209	76.8	72	152	93
KS831374	7	2205	77.5	69	152	93
CI17826	3	2162	74.6	75	152	93
NE77465	29	2086	76	75	154	90
AGC-106	33	2076	77.7	70	152	93
BOUNTY-205	42	2058	76.6	73	152	93
NE78488	30	2046	77.5	75	154	97
C0810010	27	2037	77.7	76	152	100
TX84A7608	25	1963	75.1	69	151	93
NE851182	28	1958	74	70	154	93
TX81V5581	22	1926	75.9	62	151	100
BOUNTY-301	43	1918	76.6	74	152	97
RH845202	35	1901	76.6	73	151	97
XH551	45	1868	77.1	71	152	90
TX80A5172-4	20	1858	75.7	70	152	87
TX81V6183	16	1810	75.3	63	151	97
TX81V6180	15	1805	76.9	61	152	72
KS82H4	4	1788	78.4	68	153	87
AGC-102	32	1778	77.8	66	151	97
OK83396	11	1746	74.6	61	153	80
CI13996	2	1738	77.7	78	153	90
OK83201	13	1712	77.1	62	152	93
KS831203	8	1662	76	69	152	93
CI1442	1	1655	74	87	158	93
TX78A3345-V42	19	1609	69	64	155	77
OK83398	12	1597	74.6	58	154	83
AGC-101	31	1567	77.5	62	151	93
NA-HW81-170	38	1551	76.8	66	153	83
TX80A4135-6	18	1537	71.9	61	153	83
KS82H144	5	1430	75.3	69	155	53
KS82C2009	9	1425	76.8	69	155	97
TX81V6187	17	1422	75.1	61	153	90
TX78V2430-36	21	1400	74.8	72	156	20
AGC-110	34	1307	72.6	66	151	97
C0820026	26	1284	74.9	56	156	83
OK82377	14	839	75.9	61	156	33
TX84V1227	24	271	.	53	155	0
MEAN		1847				
LSD(.05)		521				
C.V.		17.2				

HIGHMORE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
NA-81-171-14	40	6512	78.9	72	151
NA-81-362-5	39	6293	80.2	73	153
NE77465	29	6154	77.7	91	154
BOUNTY-205	42	5929	77.7	86	152
TX80A5901-1	23	5506	78.7	76	152
C0820026	26	5415	76.6	78	151
RH855002	37	5375	76.4	80	151
BOUNTY-301	43	5363	77.5	87	154
TX81V5581	22	5309	76.8	69	150
RH855001	36	5280	75.3	79	150
OK81322	10	5186	76.9	81	153
AGC-106	33	5136	77.8	75	150
KS82H4	4	4906	79.3	79	152
KS831374	7	4785	77.1	78	150
KS82C2009	9	4640	76.8	85	153
NE78488	30	4605	78.2	91	154
NE851182	28	4593	73.7	89	153
C0810010	27	4565	78.2	91	153
XH551	45	4555	75.1	79	152
OK83398	12	4453	78.2	71	152
TX81V6180	15	4311	77.1	65	152
CI13996	2	4218	76.6	93	152
TX84V1227	24	4144	77.8	81	154
XH216A	44	4123	74.6	86	153
KS831203	8	4080	74.6	80	151
TX81V6183	16	4033	73.5	72	151
OK82377	14	4023	77.1	74	151
AGC-101	31	4007	77.5	70	151
NA-HW81-170	38	3998	77.3	75	153
OK83396	11	3965	76.8	69	153
AGC-102	32	3804	76.9	73	151
KS831957	6	3657	77.3	91	155
KS82H144	5	3536	75.9	75	152
TX78V2430-36	21	3533	77.5	79	153
RH845202	35	3494	73.7	83	151
OK83201	13	3484	76.8	79	151
SDG-1001	41	3409	72.2	84	150
CI17826	3	3396	73	80	152
TX80A5172-4	20	3342	74.8	79	153
TX81V6187	17	3314	73.9	73	152
TX84A7608	25	2712	69.7	72	151
AGC-110	34	2654	67.7	73	152
TX78A3345-V42	19	2358	70.1	68	154
CI1442	1	2256	73.1	108	158
TX80A4135-6	18	1804	68.1	76	153
MEAN		4271			
LSD(.05)		937			
C.V.		13.4			

CASSELTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-5	DAYS TO HEADING FROM 1/1	STEM RUST SEV. %	RUST RESP. 1-9
BOUNTY-301	43	5964	77.9	107	3	157		2
OK81322	10	5914	75.8	98	3	157		3
BOUNTY-205	42	5815	77	103	3	157		8
OK83396	11	5619	74.3	84	3	157		2
KS82H4	4	5550	77.6	92	2	156		8
OK83398	12	5480	73.9	86	3	155		2
CO820026	26	5324	74.4	94	2	156		8
NE851182	28	5323	74.6	105	3	158		8
NA-81-362-5	39	5247	78.7	85	2	157		8
RH855002	37	5230	74	98	3	156		9
OK83201	13	5222	75.2	96	1	156		8
KS82C2009	9	5204	75.6	106	3	158		8
NE77465	29	5179	78.3	106	2	160		8
TX81V5581	22	5030	73.8	78	3	154		8
OK82377	14	4996	76.4	88	2	155		8
KS831203	8	4930	74.8	97	2	156		8
AGC-106	33	4930	76.3	92	3	155		8
TX84V1227	24	4902	78.6	102	3	157		8
RH855001	36	4850	72.5	95	3	155		9
NE78488	30	4819	77.1	110	3	160		8
RH845202	35	4770	73.1	99	3	155		9
AGC-110	34	4757	70.9	92	3	156		9
TX78V2430-36	21	4734	78	91	3	156		8
TX80A5172-4	20	4732	75.8	90	3	152		8
TX84A7608	25	4675	72.7	85	2	155		8
NA-81-171-14	40	4674	78.4	77	3	154		8
XH216A	44	4674	74.9	102	3	158		8
CI13996	2	4660	76.6	115	4	156		8
AGC-101	31	4628	75.6	84	1	153		8
KS831374	7	4542	75.8	87	2	156		7
TX80A4135-6	18	4534	70.7	90	2	155		9
SDG-1001	41	4510	73.1	94	3	153		9
TX80A5901-1	23	4497	75.2	86	4	156		8
XH551	45	4490	74.9	96	2	156		9
KS82H144	5	4444	76.3	84	2	155		7
NA-HW81-170	38	4444	76.5	94	3	157		8
CO810010	27	4300	74.4	101	3	157		9
TX78A3345-V42	19	4261	70.4	83	1	158		9
TX81V6187	17	4230	74.4	83	2	153		9
TX81V6180	15	4036	75.2	76	2	154		8
TX81V6183	16	3939	74	82	2	154		9
AGASSIZ	48	3850	78.7	124	3	162		8
CI17826	3	3817	70.1	88	3	155		9
AGC-102	32	3808	74.2	84	2	155		8
ROUGHRIDER	47	3791	77.4	120	3	161		8
KS831957	6	3665	74.5	98	2	156		3
NORSTAR	46	3404	74.6	135	3	164		8
CI1442	1	2782	72	120	4	162		8
MEAN		4691						
LSD(.05)		924						
C.V.		12.1						

COLUMBIA

MISSOURI

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL 0-9	LEAF RUST SEV. %	RESP. 1-9	SEPTORIA 0-9
NA-81-362-5	39	2127	78.2	67	126	8	4	4	5
NE77465	29	2000	74.9	77	128	8	4	4	5
NA-81-171-14	40	1839	77.9	62	125	7	1	4	5
OK81322	10	1829	76.9	72	126	6	9	6	5
RH855002	37	1825	77.4	71	124	6	20	8	5
BOUNTY-205	42	1807	76.8	83	127	7	10	8	10
TX78V2430-36	21	1606	77.1	64	126	6	2	2	6
NE78488	30	1589	76.9	74	125	7	10	6	6
RH855001	36	1517	77	72	125	7	15	8	6
BOUNTY-301	43	1505	72.5	82	130	6	4	4	5
CI13996	2	1447	75	85	128	7	37	8	6
OK83398	12	1398	74.3	70	127	6	5	6	6
XH551	45	1381	74.4	68	126	6	25	5	5
CI17826	3	1346	75.2	71	127	6	14	6	5
OK83396	11	1346	73.6	69	128	6	4	4	6
RH845202	35	1325	77	69	128	6	23	8	5
TX80A5172-4	20	1303	73.4	68	127	4	7	2	5
NE851182	28	1289	69.6	75	131	5	20	8	5
XH216A	44	1286	74.4	76	128	7	1	2	6
AGC-110	34	1189	73.4	67	128	5	9	6	5
KS831203	8	1146	72.3	69	130	4	13	8	5
TX81V6187	17	1143	73.1	84	128	4	27	8	5
TX80A5901-1	23	1134	74.3	61	125	5	17	8	5
KS831374	7	1133	75.6	65	124	6	30	8	5
KS831957	6	1106	72.1	60	126	2	7	6	5
TX78A3345-V42	19	1063	71.6	58	124	5	4	6	5
C0810010	27	1062	72.2	73	130	4	14	6	5
AGC-101	31	1055	73.2	67	125	4	7	6	5
KS82H4	4	1045	73.6	74	128	4	27	6	5
TX81V5581	22	1045	72.1	58	125	5	1	2	6
SDG-1001	41	922	75.1	64	125	4	17	8	5
CI1442	1	888	68.9	92	132	6	40	8	5
NA-HW81-170	38	876	73.7	60	125	2	4	6	5
C0820026	26	855	73.1	60	126	3	3	2	5
TX84A7608	25	820	74	59	125	3	11	6	5
KS82H144	5	792	73.8	68	128	4	17	8	5
TX81V6183	16	760	71.3	60	126	4	4	6	5
OK82377	14	726	73.9	68	126	3	4	4	5
TX81V6180	15	683	72.9	66	129	4	10	8	5
TX80A4135-6	18	656	66.4	64	129	3	32	8	6
OK83201	13	644	73.8	58	125	3	5	8	5
AGC-106	33	581	71.6	60	124	4	5	8	5
KS82C2009	9	415	71.7	63	131	2	20	6	6
TX84V1227	24	298	.	71	134	1	10	6	6
AGC-102	32	141	.	62	133	1	5	4	6
MEAN		1154							
LSD(.05)		430							
C.V.		22.7							

URBANA

ILLINOIS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
NA-81-362-5	39	5385	83.5	69	131	100
NE851182	28	5166	75.5	79	136	100
OK81322	10	4762	79.3	76	133	78
RH845202	35	4683	79.5	77	132	100
RH855001	36	4643	80.4	70	130	90
NE78488	30	4533	79.3	77	130	100
NE77465	29	4522	77.6	78	134	100
TX80A4135-6	18	4506	75.3	70	132	88
OK83396	11	4492	76.7	68	132	98
KS82H4	4	4487	80	72	134	78
XH216A	44	4483	75.6	78	134	100
BOUNTY-205	42	4477	76.9	77	132	78
CI17826	3	4445	80.2	85	133	100
NA-HW81-170	38	4420	80.9	68	133	98
TX78A3345-V42	19	4381	77.9	61	132	95
AGC-110	34	4347	76.9	68	132	92
OK83398	12	4325	79	69	131	95
NA-81-171-14	40	4264	81.6	58	129	83
TX80A5172-4	20	4095	79.5	73	131	92
RH855002	37	3968	79.3	67	130	73
KS831957	6	3875	80.5	72	130	100
CI13996	2	3852	79	87	133	100
XH551	45	3785	77.4	66	131	95
KS831374	7	3767	79.3	68	129	98
TX80A5901-1	23	3608	78.6	61	131	75
TX84A7608	25	3565	77.2	65	130	83
AGC-101	31	3556	80.4	59	129	97
BOUNTY-301	43	3552	75.3	75	136	42
SDG-1001	41	3496	79	61	130	77
CI1442	1	3435	76.2	95	138	100
AGC-102	32	3102	79.3	64	129	100
TX81V6187	17	3086	78.6	59	131	57
C0810010	27	3062	73.6	73	134	52
KS831203	8	2998	73.9	70	134	38
AGC-106	33	2639	76.4	60	130	57
TX81V5581	22	2521	76.7	52	130	60
TX81V6180	15	2500	77.9	58	132	37
KS82C2009	9	2471	72.9	66	136	35
KS82H144	5	2220	76	62	133	22
TX81V6183	16	2208	76.9	55	131	30
OK83201	13	2013	74.8	60	131	38
C0820026	26	1630	73.6	54	133	20
OK82377	14	1354	75.3	62	136	7
TX78V2430-36	21	655	75.5	50	138	1
TX84V1227	24	33	.	57	.	0
MEAN		3541				
LSD(.05)		716				
C.V.		12.4				

ABERDEEN

IDAHO

TWO REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	PLANT HEIGHT CM	LODGING 0-9	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
AGC-110	34	6899	99	5	155	100
OK83396	11	6773	89	2	153	98
RH845202	35	6349	104	7	152	98
RH855002	37	6240	99	4	153	98
NA-81-362-5	39	6230	86	1	153	98
XH551	45	6160	97	2	152	100
TX78A3345-V42	19	6098	79	1	154	90
OK83398	12	5997	89	2	153	95
NA-81-171-14	40	5994	79	2	152	90
NE851182	28	5992	104	6	154	95
SDG-1001	41	5672	91	3	151	95
TX81V6183	16	5607	84	3	152	88
TX80A4135-6	18	5585	91	6	153	98
XH216A	44	5558	102	6	155	65
TX81V6187	17	5545	86	3	152	83
KS82H4	4	5476	97	3	154	83
KS831957	6	5473	102	5	153	95
NE78488	30	5458	112	4	156	98
NA-HW81-170	38	5369	89	6	155	58
TX81V6180	15	5362	81	1	152	75
KS82H144	5	5280	89	2	152	93
C0820026	26	5191	91	5	153	95
NE77465	29	5161	104	5	154	98
AGC-101	31	5109	86	2	152	100
OK83201	13	5104	84	5	152	95
CI17826	3	5101	97	6	153	95
AGC-102	32	5042	89	1	152	98
OK82377	14	4918	91	7	151	93
BOUNTY-205	42	4881	104	9	153	100
KS831203	8	4876	99	3	155	70
AGC-106	33	4861	94	4	152	93
KS831374	7	4838	86	2	155	90
RH855001	36	4809	86	3	152	98
KS82C2009	9	4791	94	5	155	100
TX80A5901-1	23	4772	86	6	155	98
TX81V5581	22	4687	74	3	152	95
TX78V2430-36	21	4675	97	4	155	80
BOUNTY-301	43	4392	99	6	154	95
OK81322	10	4325	102	6	157	98
CI1442	1	4258	122	8	162	85
TX80A5172-4	20	4218	89	5	152	90
C0810010	27	3596	102	3	153	98
TX84A7608	25	3378	81	3	152	70
CI13996	2	3214	119	6	155	93
TX84V1227	24	2882	99	7	153	100
MEAN		5160				
LSD(.05)		1695				
C.V.		16.3				

ROCKLAND

IDAHO

TWO REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	PLANT HEIGHT CM	LODGING 0-9	WINTER SURVIVAL %
RH855002	37	4912	86	3	95
SDG-1001	41	4831	91	3	95
RH855001	36	4603	86	3	90
XH216A	44	4576	84	3	100
AGC-106	33	4546	86	2	95
BOUNTY-301	43	4540	99	2	95
RH845202	35	4501	89	3	100
TX80A4135-6	18	4427	81	2	88
C0810010	27	4307	89	2	83
NE851182	28	4200	97	2	93
XH551	45	4196	86	2	100
BOUNTY-205	42	4152	86	3	93
NA-81-362-5	39	4128	76	2	93
OK83396	11	3921	99	1	73
C0820026	26	3823	84	1	90
TX80A5901-1	23	3786	76	2	95
CI17826	3	3709	84	3	95
NE78488	30	3708	97	2	95
OK81322	10	3657	89	3	85
TX78A3345-V42	19	3636	74	1	73
TX81V5581	22	3598	66	1	100
NA-81-171-14	40	3576	71	2	73
OK83201	13	3534	79	2	20
TX81V6183	16	3529	69	2	65
TX84A7608	25	3487	74	1	63
AGC-110	34	3411	81	1	75
KS82C2009	9	3405	86	1	90
NE77465	29	3311	97	2	85
AGC-102	32	3215	79	2	95
AGC-101	31	3127	76	2	95
TX81V6187	17	3112	74	3	88
OK83398	12	3107	76	1	88
TX80A5172-4	20	3067	84	3	71
KS831374	7	3009	74	2	93
KS831957	6	2882	86	1	88
NA-HW81-170	38	2866	79	2	85
CI13996	2	2728	104	3	80
TX81V6180	15	2681	69	2	70
CI1442	1	2602	114	3	80
KS82H144	5	2538	79	2	65
KS82H4	4	2247	81	2	55
KS831203	8	1844	79	3	40
OK82377	14	1509	76	2	50
TX78V2430-36	21	.	.	.	0
TX84V1227	24	.	.	.	0
MEAN		3547			
LSD(.05)		1356			
C.V.		18.9			

LIND

WASHINGTON

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	STAND %
NE77465	29	2246	78.6	62	149	57
KS82C2009	9	2236	79.2	61	149	28
C0810010	27	2143	79.9	64	148	68
BOUNTY-205	42	1870	77.5	69	148	52
CI17826	3	1800	79.1	64	147	52
TX84A7608	25	1742	79.2	64	147	53
NA-81-362-5	39	1728	78.3	51	149	70
OK81322	10	1701	78	58	149	48
C0820026	26	1701	79.6	56	148	58
XH216A	44	1652	76.5	66	150	42
BOUNTY-301	43	1638	78.6	64	149	55
KS82H4	4	1634	78.6	61	148	55
TX84V1227	24	1634	79.7	60	149	57
OK83396	11	1590	77.1	58	149	53
NA-HW81-170	38	1577	77.7	54	150	53
TX81V6183	16	1553	80.5	47	148	52
TX81V6187	17	1503	80.1	52	148	73
RH855002	37	1455	78.7	62	147	65
OK82377	14	1453	77.3	59	147	57
TX80A4135-6	18	1439	78.8	61	148	47
RH845202	35	1435	78.9	63	148	50
KS831957	6	1417	77	67	146	55
SDG-1001	41	1379	79.2	61	147	52
TX81V5581	22	1358	79.2	55	148	50
NE78488	30	1332	79.9	64	149	60
CI1442	1	1325	78.9	77	152	62
OK83201	13	1314	79.2	57	147	47
OK83398	12	1305	77.3	54	148	58
CI13996	2	1298	78.9	66	149	45
TX78V2430-36	21	1276	79.5	62	149	35
NA-81-171-14	40	1260	78.6	52	147	45
AGC-102	32	1224	77.1	57	146	65
TX80A5172-4	20	1217	78	58	147	48
AGC-110	34	1217	78.7	57	149	52
NE851182	28	1197	76.4	60	150	33
TX80A5901-1	23	1186	79.9	57	149	77
AGC-101	31	1126	76.9	55	146	58
KS831203	8	1087	77.8	59	149	38
KS82H144	5	1036	78.3	58	149	58
KS831374	7	1033	76.1	54	147	58
AGC-106	33	989	77.7	63	148	40
RH855001	36	978	78.3	58	147	58
XH551	45	921	77.8	55	149	53
TX81V6180	15	891	79.5	49	148	48
TX78A3345-V42	19	888	76.4	53	150	62
MEAN		1422				
LSD(.05)		280				
C.V.		12.1				

Table 2. Summary of mean yields (kg/ha) of 45 wheats grown in the 1986 Southern Regional Performance Nursery at 33 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	DALLAS TEXAS		CHILLI-COTHE TEXAS		BUSHLAND (IRR.) TEXAS		BUSHLAND (DRYL.) TEXAS		TEXAS STATE MEAN	
OK11252A/HW76-1226	NA-81-362-5	39	1663	21	2248	35	6729	2	1432	32	3018	8
BOUNTY HYBRID	BOUNTY-205	42	1744	17	2363	28	5977	12	1654	8	2935	15
WINTER WHEAT HYBRID	RH855002	37	1744	17	2867	3	5764	21	1663	7	3009	10
BOUNTY HYBRID	BOUNTY-301	43	1914	11	2112	39	6421	4	1471	25	2980	12
WRR*5/AGENT//AURORA/3/CENTURK 78	NE78488	30	1553	25	2475	18	5708	22	1555	16	2823	23
AURORA/2*TAM W-101	OK83396	11	2654	1	2674	10	6964	1	1632	10	3481	1
WRR*5/AGENT//CTK 78	NE77465	29	1883	14	2459	21	5537	28	1404	34	2821	25
PAYNE//TAM W-101/AMIGO	OK81322	10	2526	3	2659	11	6141	7	1422	33	3187	4
WINTER WHEAT HYBRID	RH855001	36	1870	15	2686	8	5636	24	1691	4	2971	13
OK11252A/HW76-1226	NA-81-171-14	40	2123	6	2800	6	5152	35	1328	42	2851	20
MEX DW/BACA//VONA	C0820026	26	1627	22	2461	20	5876	15	1668	6	2908	16
BRULE COMPOSITE	NE851182	28	1589	24	2053	43	5650	23	1525	18	2704	29
AURORA/2*TAM W-101	OK83398	12	2107	8	2495	17	6107	8	1331	40	3010	9
TX73V203*3/AMIGO	TX81V5581	22	2578	2	2782	7	5820	19	1567	14	3187	5
WINTER WHEAT HYBRID	XH216A	44	1139	39	2464	19	5788	20	1388	38	2695	30
TX71A1039-V1*3/AMIGO	TX81V6180	15	1502	27	2856	4	6038	11	1444	28	2960	14
TX71A1039-V1*3/AMIGO	TX81V6187	17	1887	13	3013	1	6078	9	1584	13	3140	6
WINTER WHEAT HYBRID	RH845202	35	1172	37	2544	15	5876	15	1557	15	2787	27
TX71A1039-V1*3/AMIGO	TX81V6183	16	2233	4	2892	2	5881	14	1811	1	3204	2
TAM W-101/CTK//AMIGO	TX80A5901-1	23	1686	19	2298	31	5896	13	1432	31	2828	22
PLAINSMAN V/3/2*LARNED/EAGLE//SAGE	KS82H4	4	1977	9	2686	8	5315	33	1508	21	2871	19
WINTER WHEAT HYBRID	XH551	45	1341	33	2591	14	5232	34	1473	24	2659	33
TAM-105/CHISHOLM HYBRID	SDG-1001	41	1417	30	2636	13	5122	36	1521	19	2674	32
TAM-105/TAM W-101	TX80A4135-6	18	2118	7	2645	12	6352	5	1698	3	3203	3
WINTER WHEAT COMPOSITE	KS82C2009	9	1137	40	2446	22	5524	29	1624	11	2683	31
OK11252A/HW76-1226	NA-HW81-170	38	1807	16	2369	26	6047	10	1330	41	2888	18
MV69-12/TAM W-103	TX78A3345-V42	19	1928	10	2816	5	5845	17	1614	12	3050	7
TAM-105	CI17826	3	1067	41	2412	24	5387	31	1459	27	2581	34
EXPERIMENTAL LINE	AGC-110	34	1213	35	2262	34	6327	6	1511	20	2828	21
SHORT WHEAT/SCOUT (TX69A509-2)//FOX	TX78V2430-36	21	1482	28	2334	30	6480	3	1703	2	2999	11
TAM W-101/NEWTON	TX80A5172-4	20	1675	20	2425	23	5540	27	1649	9	2822	24
VONA//CHISHOLM/PLAINSMAN V	OK83201	13	1914	11	1545	45	5320	32	1494	23	2568	35
PLAINSMAN V/3/KAW/ATL 50//PKR*5/AG	KS831374	7	1441	29	2280	32	4618	41	1393	37	2433	39
MV-69-12/TAM W-103	TX84A7608	25	1524	26	2410	25	5593	25	1535	17	2765	28
AMIGO SIB/2*NEWTON	OK82377	14	2139	5	2506	16	5589	26	1398	36	2908	17
ANZA/SCOUT//CENTURK	C0810010	27	986	43	2067	41	5055	37	1434	29	2385	40
EXPERIMENTAL LINE	AGC-106	33	825	44	2262	33	5030	38	1355	39	2368	41
SCOUT 66	CI13996	2	1141	38	2076	40	4625	40	1466	26	2327	42
TX68D5194/OSAGE	TX84V1227	24	1388	31	2369	26	5838	18	1678	5	2818	26
PLAINSMAN V/ODESSKYA 51	KS831957	6	1381	32	2237	36	4207	44	1289	43	2279	43
NWT/3/PKR*5/AG//ATL 50	KS831203	8	1031	42	2168	38	5452	30	1503	22	2538	36
EXPERIMENTAL LINE	AGC-101	31	1309	34	2056	42	4301	43	1286	44	2238	44
EXPERIMENTAL LINE	AGC-102	32	1616	23	2336	29	4434	42	1399	35	2446	38
KS73H530//SAGE/ARTHUR	KS82H144	5	1177	36	2204	37	5015	39	1432	30	2457	37
KHARKOF	CI1442	1	195	45	1780	44	3033	45	1017	45	1506	45
	MEAN		1609		2425		5563		1496		2773	
	LSD(.05)		261		363		520		178		506	
	C.V.		9.9		9.2		5.7		8.5		7.9	

Table 2. Continued

C.I. OR SEL. NO.	ENTRY NO.	MEAD NEBRASKA		CLAY CENTER NEBRASKA		NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN		CASSELTON N. DAKOTA	
NA-81-362-5	39	2062	11	2270	5	4672	1	4668	4	3120	34	3358	4	5247	9
BOUNTY-205	42	2170	10	2561	1	3535	10	4567	5	3998	3	3366	3	5815	3
RH855002	37	1970	14	1144	30	3340	16	3899	19	3796	10	2830	15	5230	10
BOUNTY-301	43	1789	16	2354	4	3937	4	3883	21	3939	5	3180	5	5964	1
NE78488	30	2219	9	2128	9	4228	3	4461	9	3901	7	3387	2	4819	20
OK83396	11	2719	2	2196	7	3017	21	4279	10	3274	30	3097	8	5619	4
NE77465	29	2849	1	2510	2	4349	2	4746	2	3720	12	3635	1	5179	13
OK81322	10	2688	3	1898	10	3363	15	4481	8	3334	27	3153	6	5914	2
RH855001	36	2006	13	1648	14	3416	14	3750	26	3554	19	2875	14	4850	19
NA-81-171-14	40	2280	6	2208	6	3303	18	3572	33	3113	36	2895	13	4674	27
C0820026	26	1363	26	1252	25	2956	25	5025	1	3954	4	2910	12	5324	7
NE851182	28	1961	15	1500	16	3885	5	4523	7	3825	8	3139	7	5323	8
OK83398	12	2354	5	2368	3	3306	17	3672	31	2925	39	2925	11	5480	6
TX81V5581	22	1751	17	1634	15	3584	7	3766	24	2898	40	2727	20	5030	14
XH216A	44	1556	22	1280	24	3488	12	4231	12	3408	24	2793	17	4674	26
TX81V6180	15	1085	32	573	45	2470	37	4261	11	3684	15	2415	32	4036	40
TX81V6187	17	1107	30	708	42	2586	33	4101	16	3781	11	2457	28	4230	39
RH845202	35	1596	21	1147	29	3219	19	3667	32	3509	21	2628	25	4770	21
TX81V6183	16	995	38	768	39	2770	30	3929	18	3797	9	2452	29	3939	41
TX80A5901-1	23	2278	7	1430	20	3554	9	4104	15	3535	20	2980	9	4497	33
KS82H4	4	2278	7	2152	8	3506	11	3781	23	3155	33	2974	10	5550	5
XH551	45	1509	23	1249	26	2804	29	4195	13	3423	22	2636	24	4490	34
SDG-1001	41	1058	33	1068	31	2411	40	3746	27	3925	6	2442	30	4510	32
TX80A4135-6	18	820	41	1325	23	2456	38	3565	34	3120	35	2257	41	4534	31
KS82C2009	9	998	37	841	38	3578	8	4545	6	3716	13	2735	19	5204	12
NA-HW81-170	38	1722	18	1755	11	3200	20	3746	28	2882	41	2661	23	4444	35
TX78A3345-V42	19	679	45	754	40	2570	35	3421	40	3716	13	2228	42	4261	38
CI17826	3	1453	25	1700	13	2938	26	3756	25	3684	15	2706	22	3817	42
AGC-110	34	697	44	936	35	2433	39	3720	30	3642	17	2285	39	4757	22
TX78V2430-36	21	968	39	724	41	1765	45	3828	22	2534	44	1964	44	4734	23
TX80A5172-4	20	1493	24	1011	33	2988	22	3440	39	3049	38	2396	34	4732	24
OK83201	13	841	40	908	36	2119	43	4062	17	3404	25	2267	40	5222	11
KS831374	7	1668	19	1348	22	2986	23	4130	14	3419	23	2710	21	4542	30
TX84A7608	25	1015	35	1172	28	2392	41	3387	41	4060	2	2405	33	4675	25
OK82377	14	2035	12	1432	19	2498	36	3469	38	2300	45	2347	36	4996	15
C0810010	27	1027	34	891	37	2962	24	4675	3	4319	1	2775	18	4300	37
AGC-106	33	1015	36	1027	32	3623	6	3489	36	3322	28	2495	27	4930	16
CI13996	2	2564	4	1710	12	2812	28	3290	43	3605	18	2796	16	4660	28
TX84V1227	24	773	42	695	43	2346	42	3896	20	2540	43	2050	43	4902	18
KS831957	6	1255	28	1459	18	2687	32	3247	44	3188	32	2367	35	3665	44
KS831203	8	1107	30	673	44	2728	31	3740	29	3241	31	2298	38	4930	17
AGC-101	31	1177	29	1241	27	2894	27	3507	35	3310	29	2426	31	4628	29
AGC-102	32	1325	27	1488	17	3461	13	3476	37	3360	26	2622	26	3808	43
KS82H144	5	1618	20	1365	21	2585	34	3375	42	2550	42	2299	37	4444	36
CI1442	1	753	43	948	34	1949	44	2897	45	3079	37	1925	45	2782	45
MEAN		1570		1410		3059		3910		3414		2671		4758	
LSD(.05)		501		436		900		617		644		532		944	
C.V.		19.5		18.9		18.1		9.7		11.5		14.7		12.1	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		FARMINGTON NEW MEXICO		NEW MEXICO STATE MEAN		FORT COLLINS COLORADO		BURLINGTON COLORADO		AKRON COLORADO		COLORADO STATE MEAN	
NA-81-362-5	39	6007	2	1284	42	6936	7	4742	12	5695	20	4503	9	2306	36	4168	19
BOUNTY-205	42	5142	19	2064	16	7490	3	4899	7	5264	30	4566	8	2937	5	4256	12
RH855002	37	5014	23	2332	7	5683	29	4343	20	5956	14	4981	3	3018	2	4652	2
BOUNTY-301	43	5457	13	1868	25	6301	18	4542	17	6595	2	4814	4	2760	10	4723	1
NE78488	30	5169	17	1936	24	6839	9	4648	14	5965	13	3813	34	2613	17	4130	23
OK83396	11	4245	30	1683	33	6106	20	4011	29	5888	15	3539	40	2551	20	3993	31
NE77465	29	4052	36	1544	35	5585	31	3727	36	6647	1	3493	41	2305	37	4148	21
OK81322	10	5078	20	1769	27	5292	36	4046	28	5173	31	3588	39	2751	12	3838	32
RH855001	36	5890	3	2486	6	5780	27	4719	13	5790	19	4276	17	2982	4	4350	8
NA-81-171-14	40	5066	21	2108	13	5373	34	4183	25	4186	42	4281	16	2753	11	3740	35
C0820026	26	5667	7	2489	5	6513	16	4890	8	6083	6	4499	10	3099	1	4560	4
NE851182	28	4588	25	1760	28	6692	15	4347	19	6035	9	4025	27	2701	16	4254	13
OK83398	12	3646	43	1542	37	6057	22	3748	35	4829	36	3342	44	2241	42	3471	40
TX81V5581	22	3671	42	1544	36	6073	21	3763	34	5301	29	4381	14	2330	35	4004	30
XH216A	44	5402	15	1828	26	5715	28	4315	22	5448	28	3871	32	3008	3	4109	25
TX81V6180	15	5675	6	2054	18	7767	1	5165	2	6049	8	4208	20	2864	7	4374	6
TX81V6187	17	6202	1	1966	22	6741	13	4970	4	5637	21	5000	2	2451	30	4363	7
RH845202	35	5498	11	2215	8	5797	26	4503	18	5451	27	4632	6	2501	26	4195	16
TX81V6183	16	5889	4	2068	15	7229	4	5062	3	5981	11	4682	5	2545	21	4403	5
TX80A5901-1	23	4347	29	1727	29	5943	24	4005	30	4741	37	4142	22	2499	27	3794	34
KS82H4	4	4553	27	1690	31	6041	23	4095	27	5876	16	3914	30	2268	41	4019	28
XH551	45	4573	26	2048	19	7034	6	4552	16	4844	35	4059	26	2545	22	3816	33
SDG-1001	41	5487	12	2142	10	6839	9	4823	11	5145	32	4443	13	2899	6	4162	20
TX80A4135-6	18	5456	14	2817	1	6350	17	4875	10	6132	5	5019	1	2732	13	4628	3
KS82C2009	9	4738	24	2123	11	7767	2	4876	9	6443	3	3853	33	2608	18	4301	11
NA-HW81-170	38	5042	22	1700	30	4836	40	3859	31	5866	17	4213	19	2589	19	4222	14
TX78A3345-V42	19	5505	10	2039	20	6285	19	4610	15	5837	18	4140	23	2224	43	4067	26
CI17826	3	5579	8	2490	4	6757	11	4942	6	5501	25	4208	20	2427	31	4045	27
AGC-110	34	5771	5	2813	2	6920	8	5168	1	5988	10	4458	11	2545	23	4330	10
TX78V2430-36	21	5532	9	2628	3	6708	14	4956	5	6069	7	3982	29	2300	38	4117	24
TX80A5172-4	20	5147	18	2159	9	5064	38	4124	26	5561	23	4588	7	2296	40	4148	21
OK83201	13	4209	31	2061	17	6757	11	4343	21	5607	22	4070	25	2862	8	4180	17
KS831374	7	3870	39	1392	41	5129	37	3464	41	4073	43	3686	38	2297	39	3352	43
TX84A7608	25	3907	37	1053	45	5666	30	3542	40	5475	26	4317	15	2723	14	4172	18
OK82377	14	4454	28	2101	14	4966	39	3840	32	5004	34	3735	36	2371	33	3703	36
C0810010	27	3568	44	1966	22	7132	5	4222	24	6204	4	3714	37	2706	15	4208	15
AGC-106	33	3426	45	1240	44	4641	42	3102	45	3687	45	3875	31	2528	25	3363	42
CI13996	2	3870	38	2006	21	4836	40	3571	39	5508	24	4072	24	2468	28	4016	29
TX84V1227	24	5278	16	2120	12	5341	35	4246	23	5980	12	4234	18	2803	9	4339	9
KS831957	6	3805	40	1394	40	5878	25	3692	37	4658	39	3784	35	2348	34	3597	39
KS831203	8	4206	32	1690	31	5552	32	3816	33	5098	33	3385	43	2539	24	3674	38
AGC-101	31	4189	34	1612	34	4119	45	3307	42	4248	41	4443	12	2392	32	3695	37
AGC-102	32	4080	35	1244	43	5552	33	3625	38	3801	44	4020	28	2456	29	3426	41
KS82H144	5	4200	33	1530	38	4185	44	3305	43	4593	40	3394	42	2023	44	3336	44
CI1442	1	3772	41	1436	39	4266	43	3158	44	4685	38	2415	45	1732	45	2944	45
MEAN		4798		1906		6012		4239		5435		4103		2553		4031	
LSD(.05)		716		654		1457		933		943		829		456		738	
C.V.		9.1		21.0		17.3		17.0		10.6		12.4		10.9		11.7	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		OKLAHOMA STATE MEAN		COLUMBIA MISSOURI		URBANA ILLINOIS	
NA-81-362-5	39	3542	8	2269	9	3779	19	4545	16	3534	12	2127	1	5385	1
BOUNTY-205	42	3710	1	2269	9	3829	17	4573	14	3595	5	1807	6	4477	12
RH855002	37	3631	2	2174	13	3681	23	4847	5	3583	7	1825	5	3968	20
BOUNTY-301	43	3336	14	2425	4	4214	4	4610	13	3646	3	1505	10	3552	28
NE78488	30	3623	4	2215	12	4183	5	4369	26	3597	4	1589	8	4533	6
OK83396	11	3075	22	2479	1	4622	1	4557	15	3683	1	1346	14	4492	9
NE77465	29	3195	17	2233	11	4066	10	4426	22	3480	17	2000	2	4522	7
OK81322	10	3451	10	2421	6	3753	21	4671	10	3574	9	1829	4	4762	3
RH855001	36	2929	31	2004	25	3322	34	4953	2	3302	25	1517	9	4643	5
NA-81-171-14	40	3184	19	2076	23	4398	2	4353	27	3503	14	1839	3	4264	18
C0820026	26	2865	33	1731	40	4165	6	4247	30	3252	28	855	34	1630	42
NE851182	28	3189	18	2107	21	3524	29	4112	38	3233	29	1289	18	5166	2
OK83398	12	3630	3	2417	7	4138	8	4136	36	3580	8	1398	12	4325	17
TX81V5581	22	3007	28	2103	22	4008	11	4500	20	3404	20	1045	29	2521	36
XH216A	44	3571	7	2165	15	3640	24	4394	23	3443	18	1286	19	4483	11
TX81V6180	15	3319	15	1941	30	4232	3	4761	7	3564	10	683	39	2500	37
TX81V6187	17	3532	9	1825	37	4147	7	4871	4	3594	6	1143	22	3086	32
RH845202	35	2751	39	1892	34	3259	36	4541	18	3111	34	1325	16	4683	4
TX81V6183	16	3242	16	1959	29	4008	12	5039	1	3562	11	760	37	2208	40
TX80A5901-1	23	2977	29	2148	17	2833	43	4847	5	3201	32	1134	23	3608	25
KS82H4	4	2763	37	2143	18	3120	40	4239	32	3066	36	1045	29	4487	10
XH551	45	3384	12	1923	32	3255	37	4300	29	3216	31	1381	13	3785	23
SDG-1001	41	3021	26	2174	13	3515	30	4545	16	3314	22	922	31	3496	29
TX80A4135-6	18	2824	35	2367	8	3986	13	4757	8	3483	15	656	40	4506	8
KS82C2009	9	3172	20	2156	16	3452	31	4381	25	3290	27	415	43	2471	38
NA-HW81-170	38	3012	27	2134	19	3699	22	4337	28	3295	26	876	33	4420	14
TX78A3345-V42	19	3023	25	1991	26	3865	16	4639	12	3379	21	1063	26	4381	15
CI17826	3	2753	38	1771	39	3071	41	4500	20	3024	38	1346	14	4445	13
AGC-110	34	2800	36	1811	38	3053	42	4247	30	2978	39	1189	20	4347	16
TX78V2430-36	21	3577	5	2439	3	3923	14	4724	9	3666	2	1606	7	655	44
TX80A5172-4	20	3118	21	2134	19	3797	18	4659	11	3427	19	1303	17	4095	19
OK83201	13	2841	34	1964	27	3394	33	4508	19	3177	33	644	41	2013	41
KS831374	7	3357	13	1905	33	3766	20	4202	34	3308	24	1133	24	3767	24
TX84A7608	25	3572	6	1937	31	4120	9	4390	24	3505	13	820	35	3565	26
OK82377	14	3046	24	2425	4	3883	15	3879	41	3308	23	726	38	1354	43
C0810010	27	2402	42	1556	44	2825	44	4030	40	2703	44	1062	27	3062	33
AGC-106	33	2871	32	1708	41	3591	26	4120	37	3073	35	581	42	2639	35
CI13996	2	2394	43	1964	27	3134	39	4230	33	2930	40	1447	11	3852	22
TX84V1227	24	2944	30	2443	2	3627	25	4916	3	3483	16	298	44	33	45
KS831957	6	3055	23	1892	34	3591	26	3695	43	3058	37	1106	25	3875	21
KS831203	8	3415	11	2076	23	3273	35	4161	35	3231	30	1146	21	2998	34
AGC-101	31	2564	41	1614	43	3587	28	3683	44	2862	42	1055	28	3556	27
AGC-102	32	2662	40	1654	42	3430	32	3728	42	2869	41	141	45	3102	31
KS82H144	5	1991	44	1861	36	3138	38	4087	39	2769	43	792	36	2220	39
CI1442	1	1813	45	1228	45	2461	45	3287	45	2197	45	888	32	3435	30
MEAN		3070		2047		3652		4391		3290		1154		3541	
LSD(.05)		552		238		382		439		384		430		716	
C.V.		11.0		7.1		6.4		6.1		7.8		22.7		12.4	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN		ABERDEEN IDAHO		ROCKLAND IDAHO		IDAHO STATE MEAN		LIND * WASHINGTON	
NA-81-362-5	39	3446	17	6293	2	2691	2	4143	3	6230	5	4128	13	5179	5	1728	7
BOUNTY-205	42	4766	1	5929	4	2058	14	4251	2	4881	29	4152	12	4516	19	1870	4
RH855002	37	4082	4	5375	7	2861	1	4106	4	6240	4	4912	1	5576	1	1455	18
BOUNTY-301	43	4424	2	5363	8	1918	20	3902	6	4392	38	4540	6	4466	21	1638	11
NE78488	30	3938	6	4605	16	2046	15	3530	12	5458	18	3708	18	4583	16	1332	25
OK83396	11	3248	24	3965	30	1746	28	2986	25	6773	2	3921	14	5347	3	1590	14
NE77465	29	3795	8	6154	3	2086	12	4011	5	5161	23	3311	28	4236	26	2246	1
OK81322	10	3400	20	5186	11	2359	7	3648	11	4325	39	3657	19	3991	34	1701	9
RH855001	36	3426	18	5280	10	2656	3	3787	7	4809	33	4603	3	4706	13	978	42
NA-81-171-14	40	4204	3	6512	1	2390	4	4369	1	5994	9	3576	22	4785	12	1260	31
C0820026	26	3749	9	5415	6	1284	43	3482	13	5191	22	3823	15	4507	20	1701	8
NE851182	28	3517	14	4593	17	1958	18	3356	16	5992	10	4200	10	5096	8	1197	35
OK83398	12	3675	11	4453	20	1597	34	3242	19	5997	8	3107	32	4552	18	1305	28
TX81V5581	22	4067	5	5309	9	1926	19	3767	8	4687	36	3598	21	4143	28	1358	24
XH216A	44	3404	19	4123	24	2209	9	3245	18	5558	14	4576	4	5067	9	1652	10
TX81V6180	15	3206	25	4311	21	1805	25	3107	21	5362	20	2681	38	4021	33	891	44
TX81V6187	17	3143	29	3314	40	1422	40	2626	36	5545	15	3112	31	4329	23	1503	17
RH845202	35	3097	31	3494	35	1901	21	2831	30	6349	3	4501	7	5425	2	1435	21
TX81V6183	16	2302	38	4033	26	1810	24	2715	33	5607	12	3529	24	4568	17	1553	16
TX80A5901-1	23	3202	26	5506	5	2381	5	3696	9	4772	35	3786	16	4279	25	1186	36
KS82H4	4	3525	13	4906	13	1788	26	3406	15	5476	16	2247	41	3861	38	1634	13
XH551	45	3335	21	4555	19	1868	22	3253	17	6160	6	4196	11	5178	6	921	43
SDG-1001	41	2839	33	3409	37	2366	6	2871	27	5672	11	4831	2	5251	4	1379	23
TX80A4135-6	18	1517	44	1804	45	1537	37	1619	45	5585	13	4427	8	5006	10	1439	20
KS82C2009	9	3143	29	4640	15	1425	39	3069	23	4791	34	3405	27	4098	32	2236	2
NA-HW81-170	38	2209	41	3998	29	1551	36	2586	38	5369	19	2866	36	4117	31	1577	15
TX78A3345-V42	19	2340	37	2358	43	1609	33	2102	42	6098	7	3636	20	4867	11	888	45
CI17826	3	2225	40	3396	38	2162	11	2594	37	5101	26	3709	17	4405	22	1800	5
AGC-110	34	1544	43	2654	42	1307	42	1835	43	6899	1	3411	26	5155	7	1217	33
TX78V2430-36	21	3156	28	3533	34	1400	41	2696	35	4675	37	.	.	4675	15	1276	30
TX80A5172-4	20	2273	39	3342	39	1858	23	2491	40	4218	41	3067	33	3643	39	1217	33
OK83201	13	3273	23	3484	36	1712	30	2823	31	5104	25	3534	23	4319	24	1314	27
KS831374	7	3276	22	4785	14	2205	10	3422	14	4838	32	3009	34	3924	36	1033	40
TX84A7608	25	3002	32	2712	41	1963	17	2559	39	3378	43	3487	25	3432	40	1742	6
OK82377	14	3656	12	4023	27	839	44	2839	29	4918	28	1509	43	3213	43	1453	19
C0810010	27	2129	42	4565	18	2037	16	2910	26	3596	42	4307	9	3951	35	2143	3
AGC-106	33	3859	7	5136	12	2076	13	3690	10	4861	31	4546	5	4703	14	989	41
CI13996	2	2602	36	4218	22	1738	29	2853	28	3214	44	2728	37	2971	44	1298	29
TX84V1227	24	2765	34	4144	23	271	45	2393	41	2882	45	.	.	2882	45	1634	12
KS831957	6	3451	16	3657	32	2223	8	3110	20	5473	17	2882	35	4178	27	1417	22
KS831203	8	2708	35	4080	25	1662	31	2817	32	4876	30	1844	42	3360	42	1087	38
AGC-101	31	3516	15	4007	28	1567	35	3030	24	5109	24	3127	30	4118	30	1126	37
AGC-102	32	3738	10	3804	31	1778	27	3106	22	5042	27	3215	29	4129	29	1224	32
KS82H144	5	3177	27	3536	33	1430	38	2714	34	5280	21	2538	40	3909	37	1036	39
CI1442	1	1271	45	2256	44	1655	32	1727	44	4258	40	2602	39	3430	41	1325	26
MEAN		3169		4271		1847		3096		5160		3547		4354		1422	
LSD(.05)		774		937		521		958		1695		1356		N.S.		280	
C.V.		15.0		13.4		17.2		15.1		16.3		18.9		17.4		12.1	

* Not included in regional averages.

Table 2. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	HUTCHINSON KANSAS		HAYS KANSAS		MANHATTAN KANSAS		COLBY KANSAS		GARDEN CITY KANSAS		KANSAS STATE MEAN		REGIONAL AVERAGE	
NA-81-362-5	39	5061	4	3889	16	4695	16	2746	11	1725	21	3623	12	3856	1
BOUNTY-205	42	5008	7	3981	11	5254	8	2253	31	1838	10	3667	9	3832	2
RH855002	37	5196	1	4244	5	5034	11	2898	8	1949	2	3864	4	3791	3
BOUNTY-301	43	4829	14	4318	4	5434	6	2910	7	1627	33	3824	5	3780	4
NE78488	30	5176	2	4376	3	5554	4	2352	27	1890	6	3870	2	3719	5
OK83396	11	4727	18	4610	1	5148	9	3208	2	1733	18	3885	1	3709	6
NE77465	29	4978	8	4181	6	4823	14	2219	32	1654	27	3571	14	3658	7
OK81322	10	4965	9	.	.	5700	2	2742	12	1786	14	3798	7	3648	8
RH855001	36	5029	5	3936	14	4459	20	3026	4	1825	11	3655	10	3648	9
NA-81-171-14	40	4757	16	3901	15	5568	3	2410	26	1639	31	3655	11	3606	10
C0820026	26	4942	11	4085	8	5716	1	2668	15	1926	4	3867	3	3567	11
NE851182	28	4296	29	3662	28	4402	25	2255	30	1798	13	3283	25	3553	12
OK83398	12	4704	19	4018	9	4965	12	2529	20	1725	21	3588	13	3457	13
TX81V5581	22	5169	3	3853	19	5063	10	3004	5	1991	1	3816	6	3455	14
XH216A	44	4592	21	3678	26	3980	34	2152	34	1873	8	3255	26	3449	15
TX81V6180	15	4897	13	4408	2	5298	7	2430	24	1570	36	3720	8	3437	16
TX81V6187	17	4597	20	3974	12	4411	22	2616	17	1882	7	3496	16	3428	17
RH845202	35	4295	30	3615	32	3446	38	2934	6	1685	24	3195	33	3404	18
TX81V6183	16	4207	34	3884	17	4422	21	2551	19	1731	20	3359	19	3397	19
TX80A5901-1	23	4328	28	3851	20	4285	28	3183	3	1662	25	3462	18	3394	20
KS82H4	4	4402	24	3689	23	4010	33	2627	16	1503	39	3246	27	3382	21
XH551	45	4743	17	3154	42	4401	26	2448	22	1890	5	3327	22	3381	22
SDG-1001	41	4463	22	3565	33	4169	30	2594	18	1784	15	3315	24	3367	23
TX80A4135-6	18	3960	40	3965	13	2752	44	3407	1	1949	3	3207	32	3348	24
KS82C2009	9	4265	31	3369	39	4722	15	2132	35	1597	35	3217	31	3334	25
NA-HW81-170	38	4953	10	3552	34	4320	27	1973	39	1403	43	3240	28	3257	26
TX78A3345-V42	19	3742	41	3639	30	3626	37	2851	9	1522	37	3076	37	3250	27
CI17826	3	3601	44	3512	37	3250	41	2786	10	1654	26	2961	41	3247	28
AGC-110	34	3682	43	3678	25	2791	43	2721	13	1733	18	2921	43	3246	29
TX78V2430-36	21	5024	6	3537	36	4403	24	2080	37	1737	17	3356	20	3234	30
TX80A5172-4	20	4262	32	4112	7	4168	31	2428	25	1641	30	3322	23	3228	31
OK83201	13	4363	26	3622	31	4839	13	2204	33	1643	29	3334	21	3173	32
KS831374	7	4013	38	3668	27	4643	17	2345	28	1505	38	3235	30	3147	33
TX84A7608	25	4155	35	3875	18	3816	35	2486	21	1844	9	3235	29	3126	34
OK82377	14	4904	12	3986	10	5505	5	1529	43	1738	16	3532	15	3091	35
C0810010	27	3966	39	3206	41	3134	42	1374	44	1823	12	2701	44	3065	36
AGC-106	33	4353	27	3549	35	4503	19	1744	42	1601	34	3150	34	3063	37
CI13996	2	4237	33	3781	21	3269	40	1847	41	1716	23	2970	40	3034	38
TX84V1227	24	4820	15	3724	22	4409	23	2717	14	1644	28	3463	17	3026	39
KS831957	6	4123	36	3402	38	3747	36	2336	29	1635	32	3049	38	3020	40
KS831203	8	4114	37	3659	29	3441	39	2443	23	1377	44	3007	39	3010	41
AGC-101	31	4370	25	3308	40	4269	29	2132	36	1497	40	3115	36	2990	42
AGC-102	32	3730	42	.	.	4571	18	2035	38	1471	41	2952	42	2966	43
KS82H144	5	4402	23	3685	24	4168	32	1921	40	1432	42	3121	35	2855	44
CI1442	1	2668	45	2550	43	1301	45	1188	45	1212	45	1784	45	2213	45
MEAN		4468		3773		4353		2432		1690		3334		3330	
LSD(.05)		581		432		573		496		357		534		267	
C.V.		8.0		7.0		8.1		12.5		12.9		9.1		13.2	

Table 3. Summary of mean yields (kg/ha) and ranks of 45 wheats grown in the 1986 Southern Regional Performance Nursery at 20 locations from the Midwest from which a CV of 14.0 or less and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	DALLAS TEXAS		CHILLI-COTHE TEXAS		BUSHLAND (IRR.) TEXAS		BUSHLAND (DRYL.) TEXAS		SIDNEY NEBRASKA		ALLIANCE NEBRASKA		CLOVIS (IRR.) NEW MEXICO	
BOUNTY-301	43	1914	11	2112	39	6421	4	1471	25	3883	21	3939	5	5457	13
RH855002	37	1744	17	2867	3	5764	21	1663	7	3899	19	3796	10	5014	23
C0820026	26	1627	22	2461	20	5876	15	1668	6	5025	1	3954	4	5667	7
NA-81-362-5	39	1663	21	2248	35	6729	2	1432	32	4668	4	3120	34	6007	2
BOUNTY-205	42	1744	17	2363	28	5977	12	1654	8	4567	5	3998	3	5142	19
OK83396	11	2654	1	2674	10	6964	1	1632	10	4279	10	3274	30	4245	30
TX81V6180	15	1502	27	2856	4	6038	11	1444	28	4261	11	3684	15	5675	6
OK81322	10	2526	3	2659	11	6141	7	1422	33	4481	8	3334	27	5078	20
NE78488	30	1553	25	2475	18	5708	22	1555	16	4461	9	3901	7	5169	17
TX81V6187	17	1887	13	3013	1	6078	9	1584	13	4101	16	3781	11	6202	1
RH855001	36	1870	15	2686	8	5636	24	1691	4	3750	26	3554	19	5890	3
TX81V6183	16	2233	4	2892	2	5881	14	1811	1	3929	18	3797	9	5889	4
NE77465	29	1883	14	2459	21	5537	28	1404	34	4746	2	3720	12	4052	36
NA-81-171-14	40	2123	6	2800	6	5152	35	1328	42	3572	33	3113	36	5066	21
TX81V5581	22	2578	2	2782	7	5820	19	1567	14	3766	24	2898	40	3671	42
TX84V1227	24	1388	31	2369	26	5838	18	1678	5	3896	20	2540	43	5278	16
TX78V2430-36	21	1482	28	2334	30	6480	3	1703	2	3828	22	2534	44	5532	9
TX80A4135-6	18	2118	7	2645	12	6352	5	1698	3	3565	34	3120	35	5456	14
KS82C2009	9	1137	40	2446	22	5524	29	1624	11	4545	6	3716	13	4738	24
NE851182	28	1589	24	2053	43	5650	23	1525	18	4523	7	3825	8	4588	25
XH216A	44	1139	39	2464	19	5788	20	1388	38	4231	12	3408	24	5402	15
TX80A5901-1	23	1686	19	2298	31	5896	13	1432	31	4104	15	3535	20	4347	29
SDG-1001	41	1417	30	2636	13	5122	36	1521	19	3746	27	3925	6	5487	12
OK83398	12	2107	8	2495	17	6107	8	1331	40	3672	31	2925	39	3646	43
NA-HW81-170	38	1807	16	2369	26	6047	10	1330	41	3746	28	2882	41	5042	22
TX80A5172-4	20	1675	20	2425	23	5540	27	1649	9	3440	39	3049	38	5147	18
KS82H4	4	1977	9	2686	8	5315	33	1508	21	3781	23	3155	33	4553	27
RH845202	35	1172	37	2544	15	5876	15	1557	15	3667	32	3509	21	5498	11
XH551	45	1341	33	2591	14	5232	34	1473	24	4195	13	3423	22	4573	26
TX78A3345-V42	19	1928	10	2816	5	5845	17	1614	12	3421	40	3716	13	5505	10
OK82377	14	2139	5	2506	16	5589	26	1398	36	3469	38	2300	45	4454	28
TX84A7608	25	1524	26	2410	25	5593	25	1535	17	3387	41	4060	2	3907	37
OK83201	13	1914	11	1545	45	5320	32	1494	23	4062	17	3404	25	4209	31
AGC-110	34	1213	35	2262	34	6327	6	1511	20	3720	30	3642	17	5771	5
CI17826	3	1067	41	2412	24	5387	31	1459	27	3756	25	3684	15	5579	8
KS831374	7	1441	29	2280	32	4618	41	1393	37	4130	14	3419	23	3870	39
KS831203	8	1031	42	2168	38	5452	30	1503	22	3740	29	3241	31	4206	32
C0810010	27	986	43	2067	41	5055	37	1434	29	4675	3	4319	1	3568	44
AGC-106	33	825	44	2262	33	5030	38	1355	39	3489	36	3322	28	3426	45
CI13996	2	1141	38	2076	40	4625	40	1466	26	3290	43	3605	18	3870	38
AGC-101	31	1309	34	2056	42	4301	43	1286	44	3507	35	3310	29	4189	34
KS831957	6	1381	32	2237	36	4207	44	1289	43	3247	44	3188	32	3805	40
AGC-102	32	1616	23	2336	29	4434	42	1399	35	3476	37	3360	26	4080	35
KS82H144	5	1177	36	2204	37	5015	39	1432	30	3375	42	2550	42	4200	33
CI1442	1	195	45	1780	44	3033	45	1017	45	2897	45	3079	37	3772	41
MEAN		1609		2425		5563		1496		3910		3414		4798	
LSD(.05)		261		363		520		178		617		644		716	
C.V.		9.9		9.2		5.7		8.5		9.7		11.5		9.1	

Table 3. Continued.

C.I. OR SEL. NO.	ENTRY NO.	FORT COLLINS COLORADO		BURLINGTON COLORADO		AKRON COLORADO		STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA	
BOUNTY-301	43	6595	2	4814	4	2760	10	3336	14	2425	4	4214	4	4610	13
RH855002	37	5956	14	4981	3	3018	2	3631	2	2174	13	3681	23	4847	5
C0820026	26	6083	6	4499	10	3099	1	2865	33	1731	40	4165	6	4247	30
NA-81-362-5	39	5695	20	4503	9	2306	36	3542	8	2269	9	3779	19	4545	16
BOUNTY-205	42	5264	30	4566	8	2937	5	3710	1	2269	9	3829	17	4573	14
OK83396	11	5888	15	3539	40	2551	20	3075	22	2479	1	4622	1	4557	15
TX81V6180	15	6049	8	4208	20	2864	7	3319	15	1941	30	4232	3	4761	7
OK81322	10	5173	31	3588	39	2751	12	3451	10	2421	6	3753	21	4671	10
NE78488	30	5965	13	3813	34	2613	17	3623	4	2215	12	4183	5	4369	26
TX81V6187	17	5637	21	5000	2	2451	30	3532	9	1825	37	4147	7	4871	4
RH855001	36	5790	19	4276	17	2982	4	2929	31	2004	25	3322	34	4953	2
TX81V6183	16	5981	11	4682	5	2545	21	3242	16	1959	29	4008	12	5039	1
NE77465	29	6647	1	3493	41	2305	37	3195	17	2233	11	4066	10	4426	22
NA-81-171-14	40	4186	42	4281	16	2753	11	3184	19	2076	23	4398	2	4353	27
TX81V5581	22	5301	29	4381	14	2330	35	3007	28	2103	22	4008	11	4500	20
TX84V1227	24	5980	12	4234	18	2803	9	2944	30	2443	2	3627	25	4916	3
TX78V2430-36	21	6069	7	3982	29	2300	38	3577	5	2439	3	3923	14	4724	9
TX80A4135-6	18	6132	5	5019	1	2732	13	2824	35	2367	8	3986	13	4757	8
KS82C2009	9	6443	3	3853	33	2608	18	3172	20	2156	16	3452	31	4381	25
NE851182	28	6035	9	4025	27	2701	16	3189	18	2107	21	3524	29	4112	38
XH216A	44	5448	28	3871	32	3008	3	3571	7	2165	15	3640	24	4394	23
TX80A5901-1	23	4741	37	4142	22	2499	27	2977	29	2148	17	2833	43	4847	5
SDG-1001	41	5145	32	4443	13	2899	6	3021	26	2174	13	3515	30	4545	16
OK83398	12	4829	36	3342	44	2241	42	3630	3	2417	7	4138	8	4136	36
NA-HW81-170	38	5866	17	4213	19	2589	19	3012	27	2134	19	3699	22	4337	28
TX80A5172-4	20	5561	23	4588	7	2296	40	3118	21	2134	19	3797	18	4659	11
KS82H4	4	5876	16	3914	30	2268	41	2763	37	2143	18	3120	40	4239	32
RH845202	35	5451	27	4632	6	2501	26	2751	39	1892	34	3259	36	4541	18
XH551	45	4844	35	4059	26	2545	22	3384	12	1923	32	3255	37	4300	29
TX78A3345-V42	19	5837	18	4140	23	2224	43	3023	25	1991	26	3865	16	4639	12
OK82377	14	5004	34	3735	36	2371	33	3046	24	2425	4	3883	15	3879	41
TX84A7608	25	5475	26	4317	15	2723	14	3572	6	1937	31	4120	9	4390	24
OK83201	13	5607	22	4070	25	2862	8	2841	34	1964	27	3394	33	4508	19
AGC-110	34	5988	10	4458	11	2545	23	2800	36	1811	38	3053	42	4247	30
CI17826	3	5501	25	4208	20	2427	31	2753	38	1771	39	3071	41	4500	20
KS831374	7	4073	43	3686	38	2297	39	3357	13	1905	33	3766	20	4202	34
KS831203	8	5098	33	3385	43	2539	24	3415	11	2076	23	3273	35	4161	35
C0810010	27	6204	4	3714	37	2706	15	2402	42	1556	44	2825	44	4030	40
AGC-106	33	3687	45	3875	31	2528	25	2871	32	1708	41	3591	26	4120	37
CI13996	2	5508	24	4072	24	2468	28	2394	43	1964	27	3134	39	4230	33
AGC-101	31	4248	41	4443	12	2392	32	2564	41	1614	43	3587	28	3683	44
KS831957	6	4658	39	3784	35	2348	34	3055	23	1892	34	3591	26	3695	43
AGC-102	32	3801	44	4020	28	2456	29	2662	40	1654	42	3430	32	3728	42
KS82H144	5	4593	40	3394	42	2023	44	1991	44	1861	36	3138	38	4087	39
CI1442	1	4685	38	2415	45	1732	45	1813	45	1228	45	2461	45	3287	45
MEAN		5435		4103		2553		3070		2047		3652		4391	
LSD(.05)		943		829		456		552		238		382		439	
C.V.		10.6		12.4		10.9		11.0		7.1		6.4		6.1	

Table 3. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	HUTCHINSON KANSAS		HAYS KANSAS		MANHATTAN KANSAS		COLBY KANSAS		GARDEN CITY KANSAS		HIGHMORE S. DAKOTA		REGIONAL AVERAGE	
BOUNTY-301	43	4829	14	4318	4	5434	6	2910	7	1627	33	5363	8	3922	1
RH855002	37	5196	1	4244	5	5034	11	2898	8	1949	2	5375	7	3887	2
C0820026	26	4942	11	4085	8	5716	1	2668	15	1926	4	5415	6	3886	3
NA-81-362-5	39	5061	4	3889	16	4695	16	2746	11	1725	21	6293	2	3846	4
BOUNTY-205	42	5008	7	3981	11	5254	8	2253	31	1838	10	5929	4	3843	5
OK83396	11	4727	18	4610	1	5148	9	3208	2	1733	18	3965	30	3791	6
TX81V6180	15	4897	13	4408	2	5298	7	2430	24	1570	36	4311	21	3787	7
OK81322	10	4965	9	.	.	5700	2	2742	12	1786	14	5186	11	3780	8
NE78488	30	5176	2	4376	3	5554	4	2352	27	1890	6	4605	16	3778	9
TX81V6187	17	4597	20	3974	12	4411	22	2616	17	1882	7	3314	40	3745	10
RH855001	36	5029	5	3936	14	4459	20	3026	4	1825	11	5280	10	3744	11
TX81V6183	16	4207	34	3884	17	4422	21	2551	19	1731	20	4033	26	3736	12
NE77465	29	4978	8	4181	6	4823	14	2219	32	1654	27	6154	3	3709	13
NA-81-171-14	40	4757	16	3901	15	5568	3	2410	26	1639	31	6512	1	3659	14
TX81V5581	22	5169	3	3853	19	5063	10	3004	5	1991	1	5309	9	3655	15
TX84V1227	24	4820	15	3724	22	4409	23	2717	14	1644	28	4144	23	3570	16
TX78V2430-36	21	5024	6	3537	36	4403	24	2080	37	1737	17	3533	34	3561	17
TX80A4135-6	18	3960	40	3965	13	2752	44	3407	1	1949	3	1804	45	3530	18
KS82C2009	9	4265	31	3369	39	4722	15	2132	35	1597	35	4640	15	3526	19
NE851182	28	4296	29	3662	28	4402	25	2255	30	1798	13	4593	17	3523	20
XH216A	44	4592	21	3678	26	3980	34	2152	34	1873	8	4123	24	3516	21
TX80A5901-1	23	4328	28	3851	20	4285	28	3183	3	1662	25	5506	5	3515	22
SDG-1001	41	4463	22	3565	33	4169	30	2594	18	1784	15	3409	37	3479	23
OK83398	12	4704	19	4018	9	4965	12	2529	20	1725	21	4453	20	3471	24
NA-HW81-170	38	4953	10	3552	34	4320	27	1973	39	1403	43	3998	29	3463	25
TX80A5172-4	20	4262	32	4112	7	4168	31	2428	25	1641	30	3342	39	3452	26
KS82H4	4	4402	24	3689	23	4010	33	2627	16	1503	39	4906	13	3422	27
RH845202	35	4295	30	3615	32	3446	38	2934	6	1685	24	3494	35	3416	29
XH551	45	4743	17	3154	42	4401	26	2448	22	1890	5	4555	19	3416	28
TX78A3345-V42	19	3742	41	3639	30	3626	37	2851	9	1522	37	2358	43	3415	30
OK82377	14	4904	12	3986	10	5505	5	1529	43	1738	16	4023	27	3394	31
TX84A7608	25	4155	35	3875	18	3816	35	2486	21	1844	9	2712	41	3392	32
OK83201	13	4363	26	3622	31	4839	13	2204	33	1643	29	3484	36	3367	33
AGC-110	34	3682	43	3678	25	2791	43	2721	13	1733	18	2654	42	3330	34
CI17826	3	3601	44	3512	37	3250	41	2786	10	1654	26	3396	38	3289	35
KS831374	7	4013	38	3668	27	4643	17	2345	28	1505	38	4785	14	3270	36
KS831203	8	4114	37	3659	29	3441	39	2443	23	1377	44	4080	25	3220	37
C0810010	27	3966	39	3206	41	3134	42	1374	44	1823	12	4565	18	3180	38
AGC-106	33	4353	27	3549	35	4503	19	1744	42	1601	34	5136	12	3149	39
CI13996	2	4237	33	3781	21	3269	40	1847	41	1716	23	4218	22	3145	40
AGC-101	31	4370	25	3308	40	4269	29	2132	36	1497	40	4007	28	3104	41
KS831957	6	4123	36	3402	38	3747	36	2336	29	1635	32	3657	32	3064	42
AGC-102	32	3730	42	.	.	4571	18	2035	38	1471	41	3804	31	3056	43
KS82H144	5	4402	23	3685	24	4168	32	1921	40	1432	42	3536	33	3009	44
CI1442	1	2668	45	2550	43	1301	45	1188	45	1212	45	2256	44	2228	45
MEAN		4468		3773		4353		2432		1690		4271		3472	
LSD(.05)		581		432		573		496		357		937		286	
C.V.		8.0		7.0		8.1		12.5		12.9		13.4		10.0	

Table 4. Summary of mean yields (kg/ha) and ranks for 20 wheats grown in the Southern Regional Performance Nursery at 29 sites in 1985 and 1986 with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	MEAD* NEBRASKA		CLAY CENTER NEBRASKA		SIDNEY NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN	
AURORA/2*TAM W-101	OK83396	11	2985	2	2603	3	3285	2	3199	9	3029	2
PAYNE//TAM W-101/AMIGO	OK81322	10	3021	1	2932	2	3355	1	3168	10	3152	1
TX71A1039-V1*3/AMIGO	TX81V6180	15	1483	17	1494	18	2988	3	3334	6	2605	12
TX71A1039-V1*3/AMIGO	TX81V6187	17	1514	16	1516	17	2931	4	3592	1	2679	7
PLAINSMAN V/3/2*LARNED/EAGLE//SAGE	KS82H4	4	2844	5	3046	1	2886	6	3151	11	3028	3
TX71A1039-V1*3/AMIGO	TX81V6183	16	1564	15	1418	20	2798	10	3528	3	2581	13
TAM-105/TAM W-101	TX80A4135-6	18	1672	13	2040	9	2867	8	3435	4	2780	4
AURORA/2*TAM W-101	OK83398	12	2851	4	2459	5	2899	5	2919	17	2759	5
OK11252A/HW76-1226	NA-HW81-170	38	2545	6	2250	7	2788	11	3019	13	2685	6
WINTER WHEAT HYBRID	RH845202	35	2103	9	1848	13	2774	12	3395	5	2672	9
SHORT WHEAT/SCOUT (TX69A509-2)//FOX	TX78V2430-36	21	2028	10	1908	11	2811	9	2891	18	2536	15
MV69-12/TAM W-103	TX78A3345-V42	19	1566	14	1531	16	2659	13	3535	2	2575	14
TAM W-101/NEWTON	TX80A5172-4	20	2262	8	1445	19	2524	14	3024	12	2331	20
TAM-105	CI17826	3	1801	11	1839	14	2885	7	3248	8	2657	10
PLAINSMAN V/ODESSKAYA 51	KS831957	6	1798	12	2593	4	2349	19	2995	15	2646	11
EXPERIMENTAL LINE	AGC-101	31	1360	19	1771	15	2465	17	2995	14	2410	18
EXPERIMENTAL LINE	AGC-102	32	1482	18	1992	10	2520	15	2933	16	2482	16
KS73H530//SAGE/ARTHUR	KS82H144	5	2298	7	2224	8	2422	18	2609	20	2418	17
SCOUT 66	CI13996	2	2853	3	2255	6	2478	16	3304	7	2679	8
KHARKOF	CI1442	1	1273	20	1872	12	2266	20	2877	19	2338	19
	MEAN		2065		2052		2747		3158		2652	
	LSD(.05)		736		883		478		N.S.		N.S.	
	C.V.		19.4		17.4		10.7		12.3		13.1	

* not included in state or regional averages.

Table 4 Continued.

C.I. OR SEL. NO.	ENTRY NO.	DALLAS TEXAS		CHILLI-COTHE TEXAS		BUSHLAND (IRR.) TEXAS		BUSHLAND (DRYL.) TEXAS		TEXAS STATE MEAN		CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		FARMINGTON NEW MEXICO		NEW MEXICO STATE MEAN	
OK83396	11	3030	2	3374	3	6830	1	2382	4	3904	1	6076	9	2743	14	5265	9	4695	10
OK81322	10	3398	1	3148	5	5758	7	1886	19	3548	4	5800	12	2500	17	5423	7	4575	12
TX81V6180	15	2456	9	3326	4	5962	4	2140	10	3471	7	6443	1	3238	7	6847	1	5509	1
TX81V6187	17	2478	6	3643	1	5850	6	2373	5	3586	2	6188	7	3186	9	6032	3	5135	5
KS82H4	4	2354	11	2977	11	5388	13	2299	7	3254	11	6100	8	3282	5	5283	8	4888	8
TX81V6183	16	2624	5	3569	2	5672	9	2461	2	3582	3	5955	10	3401	3	6218	2	5192	4
TX80A4135-6	18	2070	15	2876	12	5875	5	2309	6	3283	10	6315	4	3914	1	5856	4	5362	2
OK83398	12	2748	3	3105	8	6117	3	2121	11	3523	6	5334	15	2893	11	5044	12	4423	14
NA-HW81-170	38	2474	7	3081	9	5549	10	2035	15	3285	9	6206	6	2873	12	4498	16	4526	13
RH845202	35	1658	18	2720	17	5424	12	2253	8	3014	14	6360	3	3198	8	5188	11	4915	7
TX78V2430-36	21	2182	14	3130	6	6285	2	2541	1	3535	5	6416	2	3592	2	5749	5	5252	3
TX78A3345-V42	19	2362	10	3117	7	5682	8	2430	3	3398	8	6252	5	3029	10	5579	6	4953	6
TX80A5172-4	20	2303	12	2859	13	5484	11	2244	9	3223	12	5710	13	3251	6	4928	13	4629	11
CI17826	3	1276	19	2300	18	5033	15	2048	14	2664	18	5917	11	3320	4	5232	10	4823	9
KS831957	6	2468	8	2819	16	4629	18	2035	16	2988	15	4895	16	2485	18	4719	14	4033	17
AGC-101	31	2196	13	2857	14	4876	17	2019	17	2987	16	4737	19	2553	16	3910	19	3733	19
AGC-102	32	2740	4	2978	10	4986	16	1995	18	3175	13	4678	20	2285	19	4390	17	3784	18
KS82H144	5	1764	17	2848	15	5132	14	2117	12	2965	17	5663	14	2845	13	3876	20	4128	15
CI13996	2	1829	16	2190	19	4474	19	2076	13	2642	19	4866	17	2742	15	4622	15	4077	16
CI1442	1	299	20	1677	20	2549	20	1515	20	1510	20	4793	18	2272	20	4015	18	3693	20
MEAN		2235		2930		5378		2164		3177		5735		2980		5134		4616	
LSD(.05)		916		827		962		308		723		N.S.		647		1257		732	
C.V.		11.3		7.1		6.3		10.5		8.3		8.3		12.3		14.7		12.6	

Table 4. Continued.

C.I. OR SEL. NO.	ENTRY NO.	STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		OKLAHOMA STATE MEAN		ABERDEEN IDAHO		LIND* WASHINGTON	
OK83396	11	3745	4	3022	2	4634	1	5300	2	4175	1	6694	1	1592	9
OK81322	10	3936	2	3028	1	4342	2	5265	3	4143	2	5119	16	1687	4
TX81V6180	15	3744	5	2437	10	4232	4	5076	6	3872	4	5704	10	1043	20
TX81V6187	17	3896	3	2094	18	3986	11	5155	5	3783	6	5677	11	1337	15
KS82H4	4	2699	16	2499	9	3385	17	4920	11	3376	16	6241	4	1626	7
TX81V6183	16	3542	7	2329	13	4098	7	5172	4	3785	5	5668	12	1678	5
TX80A4135-6	18	2898	15	2374	12	3815	12	4994	10	3520	14	6245	3	1632	6
OK83398	12	4101	1	3011	3	4308	3	5029	7	4112	3	6077	5	1291	16
NA-HW81-170	38	3203	11	2735	4	4131	6	5000	8	3767	7	6030	7	1789	2
RH845202	35	3128	12	2116	17	3497	16	4775	14	3379	15	6276	2	1523	10
TX78V2430-36	21	3259	8	2632	6	3777	14	5321	1	3747	8	5665	13	1273	18
TX78A3345-V42	19	3569	6	2237	15	3997	10	4802	13	3651	9	5901	9	1289	17
TX80A5172-4	20	2946	13	2587	7	3815	13	4812	12	3540	13	4976	17	1435	12
CI17826	3	2681	17	1963	19	3217	19	4434	18	3074	18	6047	6	1987	1
KS831957	6	2937	14	2686	5	4026	9	4522	16	3543	12	5941	8	1511	11
AGC-101	31	3259	8	2578	8	4136	5	4520	17	3623	10	5123	15	1340	14
AGC-102	32	3228	10	2412	11	4062	8	4596	15	3574	11	4857	18	1431	13
KS82H144	5	2428	18	2264	14	3625	15	4996	9	3328	17	5505	14	1264	19
CI13996	2	2367	19	2168	16	3235	18	4251	19	3005	19	4696	19	1743	3
CI1442	1	1590	20	1002	20	2235	20	2948	20	1944	20	4490	20	1620	8
MEAN		3158		2409		3828		4794		3547		5647		1505	
LSD(.05)		943		832		791		N.S.		786		N.S.		398	
C.V.		13.0		8.0		7.0		6.8		8.7		13.3		21.5	

Table 4. Continued.

C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN		FORT COLLINS COLORADO		BURLINGTON COLORADO		AKRON COLORADO		COLORADO STATE MEAN	
OK83396	11	4280	10	2632	9	1758	10	2890	8	6500	4	4010	12	3499	8	4670	7
OK81322	10	5443	1	3299	1	2558	1	3767	1	5821	13	4005	13	3655	4	4494	13
TX81V6180	15	3990	14	2649	8	1956	3	2865	10	6283	8	4491	4	3781	1	4852	3
TX81V6187	17	4205	11	2184	14	1742	11	2710	14	6060	11	4695	2	3565	6	4774	4
KS82H4	4	5035	2	3092	2	1477	16	3201	2	6338	6	4102	9	3482	9	4641	8
TX81V6183	16	3740	16	2880	6	2015	2	2878	9	6294	7	4611	3	3694	2	4867	2
TX80A4135-6	18	3448	19	1967	18	1833	8	2416	19	6604	1	4925	1	3664	3	5065	1
OK83398	12	4460	8	2910	3	1572	14	2981	5	5361	15	3381	19	3081	16	3941	16
NA-HW81-170	38	4534	6	2884	4	1459	17	2959	6	6527	3	4050	11	3543	7	4706	6
RH845202	35	4664	5	2521	10	1836	6	3007	4	6067	10	4364	5	3479	10	4637	9
TX78V2430-36	21	4380	9	1811	20	1440	18	2544	16	6601	2	4096	10	3569	5	4755	5
TX78A3345-V42	19	3613	18	1997	17	1836	7	2482	17	6426	5	3913	14	3357	12	4565	11
TX80A5172-4	20	3714	17	1918	19	1646	12	2426	18	6128	9	4341	6	3351	13	4607	10
CI17826	3	3993	13	2729	7	1955	4	2892	7	5951	12	4125	8	3455	11	4510	12
KS831957	6	4841	3	2378	13	1918	5	3046	3	5016	17	3458	18	3031	18	3835	19
AGC-101	31	4112	12	2496	11	1400	20	2669	15	4932	18	4170	7	3160	15	4087	15
AGC-102	32	4525	7	2462	12	1572	13	2853	11	4574	20	3753	15	3253	14	3860	18
KS82H144	5	4704	4	2060	16	1410	19	2725	13	5071	16	3546	17	3050	17	3889	17
CI13996	2	3767	15	2882	5	1777	9	2809	12	5744	14	3677	16	2877	19	4099	14
CI1442	1	3437	20	2126	15	1545	15	2369	20	4818	19	2392	20	2147	20	3119	20
MEAN		4244		2498		1735		2826		5856		4005		3335		4399	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		496		751		681		588	
C.V.		16.6		18.3		21.7		18.8		6.7		13.2		9.3		9.5	

Table 4. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	HUTCHINSON KANSAS		HAYS KANSAS		MANHATTAN KANSAS		COLBY KANSAS		KANSAS STATE MEAN		COLUMBIA MISSOURI		URBANA ILLINOIS		REGIONAL AVERAGE	
OK83396	11	4272	7	4798	1	3700	3	3946	1	4179	1	2479	4	4859	1	4034	1
OK81322	10	4566	1	.	.	4100	1	3638	3	4101	2	3103	1	4763	3	4000	2
TX81V6180	15	4551	2	4583	2	3607	6	3360	10	4025	3	1702	19	4096	11	3869	3
TX81V6187	17	4437	4	4251	9	3006	14	3623	5	3829	7	2719	2	4265	10	3828	4
KS82H4	4	4225	9	4184	12	3482	8	3457	8	3837	6	2375	6	4629	5	3792	5
TX81V6183	16	4059	11	4275	7	3195	12	3437	9	3742	9	1938	15	3711	14	3789	6
TX80A4135-6	18	3869	16	4234	10	2471	19	3885	2	3615	13	2093	13	4674	4	3761	7
OK83398	12	4434	5	4264	8	3623	5	3351	11	3918	5	2354	7	4563	6	3760	8
NA-HW81-170	38	4533	3	4278	6	3623	4	3242	14	3919	4	1733	17	4432	8	3730	9
RH845202	35	4002	13	4039	14	3034	13	3613	6	3672	11	2257	9	4854	2	3679	10
TX78V2430-36	21	4314	6	4027	15	3247	11	3341	12	3732	10	2150	12	1948	20	3670	11
TX78A3345-V42	19	3698	18	4068	13	2875	16	3627	4	3567	15	2349	8	4521	7	3665	12
TX80A5172-4	20	3992	14	4301	5	3538	7	3245	13	3769	8	2556	3	4359	9	3555	13
CI17826	3	3168	19	3856	17	2560	18	3499	7	3271	19	2203	10	4032	12	3443	14
KS831957	6	4232	8	3779	19	2939	15	3164	15	3528	16	2004	14	3523	17	3422	15
AGC-101	31	4144	10	3925	16	3344	10	2910	16	3581	14	2184	11	3903	13	3358	16
AGC-102	32	3901	15	.	.	3761	2	2894	18	3519	17	1742	16	3624	15	3335	17
KS82H144	5	4054	12	4223	11	3442	9	2754	19	3618	12	1729	18	2864	19	3305	18
CI13996	2	3789	17	3816	18	2674	17	2907	17	3296	18	2471	5	3618	16	3243	19
CI1442	1	2902	20	2733	20	1312	20	1980	20	2232	20	1239	20	3147	18	2451	20
MEAN		4057		4086		3177		3294		3652		2177		4019		3585	
LSD(.05)		688		498		N.S.		542		483		N.S.		N.S.		243	
C.V.		8.8		7.5		10.1		8.5		8.7		22.9		11.2		11.8	

Table 5. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 45 entries in the 1986 Southern Regional Performance Nursery grown at 32 locations.

C.I. OR SEL. NO.	ENTRY NO.	MEAN YIELD OVER 32 LOCATIONS KG/HA	REGRESSION COEFFICIENT (b)	CORRELATION COEFFICIENT (r)	COEFFICIENT OF DETERMINATION (r^2)
NA-81-362-5	39	3856	1.15	0.94	0.88
BOUNTY-205	42	3832	1.06	0.95	0.90
RH855002	37	3791	1.03	0.97	0.93
BOUNTY-301	43	3780	1.10	0.96	0.91
NE78488	30	3719	1.05	0.97	0.94
OK83396	11	3709	1.04	0.93	0.87
NE77465	29	3658	0.96	0.91	0.82
OK81322	10	3648	0.91	0.93	0.86
RH855001	36	3648	0.96	0.96	0.92
NA-81-171-14	40	3606	0.90	0.90	0.81
C0820026	26	3567	1.16	0.95	0.89
NE851182	28	3553	1.08	0.96	0.93
OK83398	12	3457	0.95	0.93	0.87
TX81V5581	22	3455	0.96	0.94	0.88
XH216A	44	3449	1.02	0.97	0.94
TX81V6180	15	3437	1.23	0.96	0.92
TX81V6187	17	3428	1.13	0.96	0.92
RH845202	35	3404	1.04	0.95	0.90
TX81V6183	16	3397	1.14	0.95	0.90
TX80A5901-1	23	3394	0.94	0.96	0.91
KS82H4	4	3382	0.97	0.95	0.90
XH551	45	3381	1.04	0.97	0.94
SDG-1001	41	3367	1.04	0.96	0.91
TX80A4135-6	18	3348	1.02	0.87	0.75
KS82C2009	9	3334	1.20	0.96	0.93
NA-HW81-170	38	3257	1.01	0.96	0.92
TX78A3345-V42	19	3250	1.06	0.93	0.87
CI17826	3	3247	0.97	0.93	0.87
AGC-110	34	3246	1.15	0.91	0.83
TX78V2430-36	21	3234	1.10	0.90	0.82
TX80A5172-4	20	3228	0.93	0.96	0.91
OK83201	13	3173	1.08	0.96	0.92
KS831374	7	3147	0.86	0.96	0.91
TX84A7608	25	3126	0.92	0.93	0.86
OK82377	14	3091	0.94	0.88	0.77
C0810010	27	3065	1.02	0.90	0.82
AGC-106	33	3063	0.92	0.91	0.82
CI13996	2	3034	0.78	0.92	0.84
TX84V1227	24	3026	1.05	0.86	0.74
KS831957	6	3020	0.86	0.96	0.91
KS831203	8	3010	0.97	0.96	0.93
AGC-101	31	2990	0.86	0.95	0.90
AGC-102	32	2966	0.87	0.95	0.90
KS82H144	5	2855	0.88	0.95	0.91
CI1442	1	2213	0.71	0.87	0.75

Table 6. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 20 entries in the 1985 and 1986 Southern Regional Performance Nurseries grown at 27 locations.

C.I. OR SEL. NO.	ENTRY NO.	MEAN YIELD OVER 27 LOCATIONS KG/HA	REGRESSION COEFFICIENT (b)	CORRELATION COEFFICIENT (r)	COEFFICIENT OF DETERMINATION (r^2)
OK83396	11	4034	1.10	0.96	0.92
OK81322	10	4000	0.93	0.91	0.83
TX81V6180	15	3869	1.16	0.95	0.91
TX81V6187	17	3828	1.08	0.96	0.92
KS82H4	4	3792	1.08	0.96	0.93
TX81V6183	16	3789	1.06	0.95	0.91
TX80A4135-6	18	3761	1.08	0.93	0.86
OK83398	12	3760	0.97	0.94	0.89
NA-HWB1-170	38	3730	1.10	0.97	0.94
RH845202	35	3679	1.07	0.97	0.95
TX78V2430-36	21	3670	1.16	0.93	0.87
TX78A3345-V42	19	3665	1.04	0.96	0.93
TX80A5172-4	20	3555	0.99	0.97	0.94
CI17826	3	3443	0.99	0.93	0.87
KS831957	6	3422	0.90	0.94	0.88
AGC-101	31	3358	0.86	0.94	0.87
AGC-102	32	3335	0.85	0.92	0.85
KS82H144	5	3305	1.00	0.95	0.90
CI13996	2	3243	0.83	0.94	0.88
CI1442	1	2451	0.76	0.83	0.69

Table 7. Summary of agronomic and yield data for 45 wheats in the 1986 Southern Regional Performance Nursery.

C.I. OR SEL. NO.	ENTRY NO.	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LEAF RUST SEVERITY %	STEM RUST SEVERITY %	SEPTORIA %	MILDEW %	VOLUME WEIGHT KG/HL	YIELD KG/HA
NUMBER OF TRIALS		33	2	26	5	5	1	1	1	31	32
NA-81-362-5	39	69	7	133	96	12	20	19	72	77.2	3856
BOUNTY-205	42	82	15	133	90	51	0	37	7	74.4	3832
RH855002	37	79	26	130	91	69	50	26	31	75.4	3791
BOUNTY-301	43	84	6	135	82	30	0	17	7	74.6	3780
NE78488	30	85	23	132	94	32	22	16	33	76.5	3719
OK83396	11	72	15	132	85	15	13	16	0	73.7	3709
NE77465	29	83	15	134	91	24	0	17	0	74.8	3658
OK81322	10	77	16	133	85	9	30	16	0	75.2	3648
RH855001	36	77	10	130	93	80	47	30	36	74.5	3648
NA-81-171-14	40	67	11	128	87	6	47	26	75	77	3606
C0820026	26	73	8	130	73	22	47	31	0	75.1	3567
NE851182	28	82	20	135	93	46	2	24	0	72.6	3553
OK83398	12	72	14	131	88	17	1	17	0	74.1	3457
TX81V5581	22	65	15	128	88	50	1	32	72	73.7	3455
XH216A	44	80	21	134	88	43	4	22	9	73.8	3449
TX81V6180	15	67	5	129	65	43	12	17	0	75.2	3437
TX81V6187	17	70	13	130	78	73	67	38	0	75.5	3428
RH845202	35	79	8	132	96	74	50	31	36	74	3404
TX81V6183	16	69	7	129	71	58	50	22	14	75	3397
TX80A5901-1	23	71	16	130	90	72	4	17	70	75.9	3394
KS82H4	4	77	10	133	75	70	0	26	39	75.5	3382
XH551	45	76	7	131	94	71	47	36	48	74.4	3381
SDG-1001	41	76	21	129	88	74	53	29	35	74.7	3367
TX80A4135-6	18	74	3	132	84	54	43	17	14	72	3348
KS82C2009	9	79	7	134	79	62	12	27	16	75.1	3334
NA-HW81-170	38	73	29	133	79	37	10	22	60	75.1	3257
TX78A3345-V42	19	68	2	132	82	72	57	32	17	71.9	3250
CI17826	3	76	3	132	89	80	22	26	22	72.8	3247
AGC-110	34	72	4	133	88	68	87	36	49	70.9	3246
TX78V2430-36	21	74	10	134	34	23	0	17	38	74.8	3234
TX80A5172-4	20	77	12	130	81	61	2	21	38	74.4	3228
OK83201	13	71	10	130	66	63	42	24	37	75	3173
KS831374	7	72	3	129	90	32	50	22	19	75.1	3147
TX84A7608	25	71	7	129	79	35	57	17	42	73	3126
OK82377	14	74	18	131	51	41	2	17	0	75	3091
C0810010	27	81	22	133	83	78	15	30	0	73.8	3065
AGC-106	33	74	23	130	83	71	10	29	28	74.2	3063
CI13996	2	90	35	133	87	74	22	21	14	75.5	3034
TX84V1227	24	78	10	133	35	18	0	19	49	76	3026
KS831957	6	80	7	130	93	46	63	21	11	74.4	3020
KS831203	8	76	9	134	62	50	53	16	37	72.5	3010
AGC-101	31	70	18	128	94	64	50	37	41	74.3	2990
AGC-102	32	70	8	129	95	62	50	30	36	74.4	2966
KS82H144	5	73	11	132	63	44	12	24	42	74.9	2855
CI1442	1	98	39	141	84	72	20	19	0	72	2213

Table 8. Reaction of the 1986 Uniform Southern Regional Hard Red Winter Wheat Nursery to selected isolates of Puccinia graminis f. sp. tritici. (By D. V. McVey, USDA, ARS, U. of MN., St. Paul, MN.)

		Reaction produced by isolates								
		70-44-68A	72-00-1370C	69-21-399	71-21-584B	72-25-639C	72-00-53A	75-32-1622A	72-01-4A	74-21-1409A
		29	151				11-32-113		15B-2	
No.	Entry	HJCS	QFBS	QSHS	RHRS	RKQS	RTQQ	RTQS	TNMH	TNMK
1.	Kharkof	S	S	S	S	S	S	S	S	S
2.	Scout 66	S	S	S	S	S	;1N	S	0;	S
3.	Tam 105	2	2	2	2	2	2	2	S	S
4.	KS82H4	2=	2=	2-	2-	2-	2=	2=	2=	2+
5.	KS82H144	2	2	2	2-	2-	2	S	S	S
6.	KS831957	S	S	S	2,S	S	S	S	S	S
7.	KS831374	2-	2=	2	2=	2-	2-	2=	S	S
8.	KS831203	2=,S	2	2.	2=	2	2	2-	S	S
9.	KS82C2009	2-	2	2	2=	2	;	2+	;	2+
10.	OK81322	2=	1	2-	2=	;1-	0;	;1-	2	2-
11.	OK83396	0	2=	2=	2=	2=	2=	2=	2-	2-
12.	OK83398	0	2=	2=	2=	2=	2=	2=	2-	2-
13.	OK83201	0	1	2=	1	2=	0;	2+	0;	S
14.	OK82377	2=	2=	2=	2=	2=	2=	2=	2-	2-
15.	TX81V6180	0	2=	2=	2=	2=	2=	2=	2-	2=
16.	TX81V6183	0	2=	2=	2	2	S	-	2-,S	2-,S
17.	TX81V6187	0	0	2=	2-	S	2;S	S,2=	2-	2-,S
18.	TX80A4135-6	2	2	2	S	2-,S	S	23	S	S
19.	TX78A3345-V42	2-	S	2-	2	2-	S	DEAD	S	S
20.	TX80A5172-4	2	S	S	S	2	S	S	S	S
21.	TX78V2430-36	2=	2=	2=	2=	2-	2=	2-	2	2
22.	TX81V5581	2=	0;	2=	2=	2=	2=	2-	0;	;
23.	TX80A5901-1	2=	2=	2=	2=	2=	2-	2	2	2
24.	TX84V1227	0	0	2=	2=	2=	2-	2=	0;	0;
25.	TX84A7608	2-	S	2,S	2;S	2=	;1	S	0;	S
26.	C0820026	0	S	S	S	S	S	S	S	S
27.	C0810010	0	0	2	;1-	2=	2CN	2CN	0;	0;
28.	NE851182	0	0	S	S	S	;	S	0;	0;
29.	NE77465	0	0	2	2=	2=	0;	2	0;	0;
30.	NE78488	0	0	2	2=	2-	0;	2	0;	2
31.	AGC 101	S	S	S	S	S	S,2CN	S	S	S
32.	AGC 102	S	0,S	S	S	S	S,;1N	S,2	S	S
33.	AGC 106	0	2	S	2=	S	S	S	2	2-
34.	AGC 110	S	2	S	S	2	S	S,2	S	S
35.	RH845202	0	2	S	S	2	S	S,2	5,0;	S
36.	RH855001	0,2	0	2	2+	1N	1N	2=	0;	;1-
37.	RH855002	0	;	S	S	S	S	S	23CN	23CN
38.	NA-HW81-170	0	2=	2=	2=	2=	;	2-	0;	2
39.	NA-81-362-5	0	1	2-	2=	2=	2-	2-	2	2
40.	NA-81-171-14	2=	2-	2-	2	2-	;	2	0;	2
41.	SDG-1001	0	S	S	S	S	S	23	S	S
42.	BOUNTY-205	0	0;	S	2	S	S	S	;	;
43.	BOUNTY-301	0	2-	2	2-	2-	;1-	2	0;	2
44.	XH216A	S	0;	S	S	S	S	S	0;	;1N
45.	XH551	;1,S	S	S	S	S	S	S	23CN	23CN

Table 9. Field reaction of the 1986 Uniform Southern Regional Hard Red Winter Wheat Performance Nursery to *Puccinia graminis* f. sp. *tritici* and *Puccinia recondita*. (By D. V. McVey, USDA, ARS, U. of MN., St. Paul, MN.)

No.	Entry	Leaf rust 6/20	Leaf rust 7/1	Stem rust 7/3
1.	Kharkof	TS-30S	60S	40S
2.	Scout 66	10-40S	DEAD 60S	5S
3.	Tam 105	60S	DEAD	80S
4.	KS82H4	10-30S	DEAD 60S	TR
5.	KS82H144	TMS-10MS	DEAD 40S	60MS-S
6.	KS831957	TS-10S	DEAD 60S	80S
7.	KS831374	5S	DEAD 60S	80S
8.	KS831203	TMS	40S	80S
9.	KS82C2009	5-30S	DEAD 80S	5MR-MS
10.	OK81322	TMR	10MS-S	10MR-MS
11.	OK83396	TR	30MS-S	20MS
12.	OK83398	TR	40MS-S	10MR-MS
13.	OK83201	5-60S	DEAD 80S	30MS-S
14.	OK82377	TMS	20S	20MR
15.	TX81V6180	TR	DEAD 60S	30MR-MS
16.	TX81V6183	10S,TR	DEAD 60S	40MR-MS
17.	TX81V6187	30S	DEAD 80S	40MR-MS
18.	TX80A4135-6	10MS-S	DEAD 60S	80S
19.	TX78A3345-V42	20S	DEAD 40S	80S
20.	TX80A5172-4	20S	DEAD 60S	10MS-S
21.	TX78V2430-36	TS	30S	20MR-MS
22.	TX81V5581	TMS	30S	10MR-MS
23.	TX80A5901-1	5-10S	DEAD 80S	20MR-MS
24.	TX84V1227	TMS	60S	40MS
25.	TX84A7608	40S	DEAD	80S
26.	C0820026	TR	DEAD	TR
27.	C0810010	60S	80S	5MS-S
28.	NE851182	10-30S	80S	5MS-S
29.	NE77465	TMS	5-30S	TR
30.	NE78488	TMS	30MS-S	5R-MS
31.	AGC 101	5MS-S	60S	80S
32.	AGC 102	20S	60S	80S
33.	AGC 106	40S	80S	90S
34.	AGC 110	60S	90S	90S
35.	RH845202	60S	80S	80S
36.	RH855001	60S	80S	60MS
37.	RH855002	60S	80S	80S
38.	NA-HW81-170	5S	60S	TR-MR
39.	NA-81-362-5	TMS	30MS-S	60MS
40.	NA-81-171-14	TMS	30S	60MS
41.	SDG-1001	60S	60S	60S
42.	BOUNTY-205	30S	60S	60S
43.	BOUNTY-301	TR	30MS-S	5R-MR
44.	XH216A	TS	60S	60S
45.	XH551	60S	60S	60S

Table 10. Hessian fly reaction, Great Plains biotype, 1986 Southern Regional Performance Nursery. (Data provided by J. H. Hatchett, Manhattan, KS.)

Entry no.	Reaction type	No. plants	
		R	S
1	S		
2	S		
3	S		
4	R		
5	S		
6	S		
7	S		
8	S		
9	S		
10	S		
11	S		
12	S		
13	S		
14	S		
15	S		
16	S		
17	S		
18	S		
19	S		
20	S		
21	S		
22	S		
23	S		
24	S		
25	S		
26	S		
27	S		
28	H	11	7
29	S		
30	S		
31	S		
32	S		
33	S		
34	S		
35	S		
36	S		
37	H	6	13
38	S		
39	S		
40	H	8	12
41	S		
42	S		
43	S		
44	S		
45	S		

Table 11.

Aluminum tolerance based on hematoxylin staining of seedling roots of lines tested in the SRPN in 1985-86. (Data provided by B. F. Carver, Stillwater, OK.)

Entry No.	Selection No.	Stainability Scores[a]			Rating[b]	
1	Kharkof	C	C	C	VS	
2	Scout 66	C	C	C	VS	
3	TAM 105	C	C	C	VS	
4	KS82H4	C	C	C	VS	
5	KS82H144	N	P	P	T	
6	KS831957	P	P	P	T	
7	KS831374	C	C	C	VS	
8	KS831203	P	P	P	T	
9	KS82C2009	P	C	C	MS	
10	OK81322	C	C	C	VS	
11	OK83396	P	P	C	I	
12	OK83398	P	P	C	I	
13	OK83201	P	P	C	I	
14	OK82377	C	C	C	VS	
15	TX81V6180	P	P	P	T	
16	TX81V6183	P	P	P	T	
17	TX81V6187	P	P	P	T	
18	TX80A4135-6	C	C	C	VS	
19	TX78A3345-V42	C	C	C	VS	
20	TX80A5172-4	P	P	C	I	
21	TX78V2430-6	C	C	C	VS	
22	TX81V5581	P	P	C	I	
23	TX80A5901-1	P	P	C	I	
24	TX84V1227	C	C	C	VS	
25	TX84A7608	N	P	P	T	
26	C0820026	C	C	C	VS	
27	C0810010	P	P	C	I	
28	NE851182	C	C	C	VS	
29	NE77465	N	P	P	T	
30	NE78488	N/C	P/C	P	VS/T	(seg.)
31	AGC 101	P	C	C	MS	
32	AGC 102	P	P	C	I	
33	AGC 106	C	C	C	VS	
34	AGC 110	C	C	C	VS	
35	RH845202	N/C	P	P	VS/T	(seg.)
36	RH855001	P	C	C	MS	
37	RH855002	P	P	C	I	
38	NA-HW81-170	P	P	C	I	
39	NA-81-362-5	P	C	C	MS	
40	NA-81-171-14	P	C	C	MS	
41	SDG 1001	P	C	C	MS	
42	BH205	N	N	P	T	
43	BH301	P	P	P	T	
44	XH216a	P	P	P/C	I/T	(seg.)
45	XH551	P	C	C	MS	

[a]Stainability: C, P, and N = complete, partial, and no staining of root tips.

[b]VS = very susceptible; MS = moderately susceptible; I = intermediate; and T = tolerant ($\leq$ 0.72 mM Al).

1986
Northern Regional Performance Nursery

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Kharkof	CI1442	Check
2	Warrior	CI13190	"
3	Colt	PI476975	"
4	Amigo/Ctk*2//SD74221	SD82195	So. Dakota
5	NE70545/NE70537//C0672135/C0662079	SD82102	"
6	CI15322//Agate/4*Scout66/3/Ctk 78	SD76598-7	"
7*	CI15322//Agate/4*Scout66/3/Ctk 78 /4/SD74221	SD82144	"
8*	CI15322//3*(Agent/4*Scout66)	SD76463-16	"
9*	SD75375/OK711248-1	SD791117	"
10*	SD74221*2/Lathrop	SD82114	"
11*	CI15322//4*(Agent/4*Scout66)	SD79892	"
12*	Brule//Sentinel/Centurk	NE82651	Nebraska
13*	" "	NE82652	"
14*	Brule/3/Pkr*4/Agent//Beloterkovskaia 198 /Lancer	NE82656	"
15*	" "	NE82658	"
16*	Brule Composite	NE851182	"
17	Ctk//Froid/7759-19	ND8002	No. Dakota
18	Wnk*2/II64-27	ND8061	"
19	Wnk/Rrr	ND8095	"
20**	Winter Wheat Hybrid	RH846835	Rohm & Haas
21*	" "	RH852515	"
22*	" "	RH853514	"
23	Thunderbird (Bulk selection)	NA-HW81-459	NAPB
24*	Winter Wheat Hybrid	XNH1228	HybriTech
25*	" "	XNH1337	"
26*	" "	XNH1342	"
27**	Norwin	MT7877	Montana
28*	TX65A268/Froid//YTO 117-20/Ctk	MT8030	"
29*	Lancota/Froid//NE69559/Wnk	MT8039	"
30*	NE63283/6*Cheyenne	MT80122	"

* New entry in 1986.
** New seed provided.

TEST SITE INFORMATION - NRPN

Clovis, NM -- See information for SRPN.

Nebraska stations -- See information for SRPN.

South Dakota stations -- See information for SRPN.

Casselton, ND -- The nursery was planted on 9/11/85 into good soil moisture. Six weeks before planting flax was sown in strips to provide a snow catch. Winter survival was 100%. Heavy leaf and stem rust infections affected yield and test weight. Harvested 7/23/86.

Carrington, ND -- The nursery was planted on 9/12/85 into spring wheat stubble. Winter survival was 100%. Moisture was limiting in May and June. A heavy tanspot infection occurred.

Williston, ND -- Precipitation in September and October was much above normal improving the soil moisture supply after a dry year. Precipitation during the winter was slightly above normal with snow cover from mid-November through late February. The winter was mild with above normal temperatures. Temperatures warmed rapidly in March and continued warm through April. May was wet and warm creating ideal conditions for plant growth. June precipitation was below normal. A near record amount of precipitation fell in July with over half of the five inches recorded falling during storms on the 16th and 17th. Good harvest weather prevailed in August with below normal precipitation and slightly above normal temperatures. A total of 22.4 inches of precipitation fell during the growing season.

Rosemount, MN -- Virtually no winterkill or injury with excellent snow cover from late November through early March. The year was wetter than normal. The plots had high fertility. Lodging began at heading for the weaker strawed types. Yields followed lodging to a great extent. Leaf spot was serious with septoria most prevalent. Tanspot and mildew also were present. Leaf rust became very severe soon after heading on susceptible materials. Stem rust was present but not severe. Harvested 7/18/86.

Waseca, MN -- A very severe leaf rust infection was present.

Sheridan, WY -- Rainfall was below normal but timely rains in late spring gave above average yields on this double fallowed nursery. Good spring stands and lack of disease and insects also contributed. Lodging was severe in many entries.

Archer, WY -- The nursery had little disease or lodging and a good consistent stand. Dry conditions lowered yield potential.

Moccasin, MT -- Seeded on 9/16/85 with excellent fall moisture. Warm March weather caused the wheat to break dormancy early. A late freeze stressed the crop but snow cover prevented extensive damage. Excellent

moisture was received in April, May, and early June, however the crop was moisture stressed in the last two weeks of June. Excellent moisture was received in July. No disease pressure, lodging, or shattering occurred. The nursery was sprayed twice for grasshoppers. The crop experienced severe wind damage during the first week of April. Harvested 7/31/86.

Sidney, MT -- The late planting date of 10/24/85 reduced stands, but excellent moisture conditions existing during the growing season resulted in above average yields. Grasshoppers defoliated the winter wheat when the crop was ripening. Race TNM C(3) of stem rust was severe on susceptible cultivars. Stem rust infection occurred after heading and reduced test weights of susceptible entries. A total of 17.1 inches of precipitation fell during the growing season.

Bozeman, MT -- No information.

Aberdeen, ID -- No information.

Lind, WA -- See information for SRPN.

Lethbridge, Alberta -- Seeded on 9/16/85, harvested 7/26/86. No winterkill occurred. The grain filling period was very short and there was heavy leaf drop by the middle of June. No shattering occurred.

Table 12. Yield and agronomic data for entries in the 1986 Northern Regional Performance Nursery.

CLOVIS (IRR.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
RH853514	22	4922	72	97	113
XNH1337	25	4516	70.2	103	120
XNH1228	24	4407	67.6	102	120
NA-HW81-459	23	4396	76.2	90	116
RH846835	20	4332	74.5	84	111
CI13190	2	4309	71	98	121
NE82651	12	4297	72.8	93	119
RH852515	21	4242	74.4	95	117
MT80122	30	4240	69.7	95	122
SD76463-16	8	4232	73.2	102	121
NE82656	14	3988	70.5	89	118
NE851182	16	3929	68.2	92	119
SD82195	4	3822	72.2	95	121
SD791117	9	3730	73.1	92	117
NE82658	15	3656	70.5	94	118
SD82114	10	3544	71.6	86	117
SD76598-7	6	3538	70.2	89	121
PI476975	3	3508	71.9	88	118
NE82652	13	3495	67.2	89	120
XNH1342	26	3369	66.7	99	122
SD82144	7	3363	68.3	88	118
SD82102	5	3293	72.2	97	121
CI1442	1	3208	71.9	115	123
MT8039	29	3205	66.1	92	121
ND8095	19	3024	71.7	98	122
ND8061	18	2950	72	86	122
MT8030	28	2929	67.4	88	122
SD79892	11	2805	69	91	121
ND8002	17	2377	65.8	97	123
MT7877	27	2255	64.2	66	123
MEAN		3663			
LSD(.05)		717			
C.V.		12.0			

CLOVIS

(DRYL.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
RH846835	20	3053	75.8	65	118
RH853514	22	2774	75.2	68	118
XNH1228	24	2408	71.1	68	117
NE851182	16	2306	72.2	65	116
XNH1342	26	2284	71.9	67	117
SD82144	7	2273	71.6	64	115
SD76463-16	8	2259	74.3	69	117
NA-HW81-459	23	2213	76.7	64	114
CI13190	2	2151	71.6	66	116
XNH1337	25	2078	72.8	68	117
NE82652	13	2042	70.1	63	117
NE82656	14	2002	71.5	62	116
SD791117	9	1993	72.2	68	115
MT8039	29	1990	70.4	68	116
PI476975	3	1961	73.2	59	114
ND8095	19	1942	72.7	66	119
RH852515	21	1938	74	63	112
SD79892	11	1857	72.3	65	118
MT80122	30	1857	72.1	64	121
NE82651	12	1852	72.4	64	117
SD82102	5	1779	70.5	65	116
NE82658	15	1653	69.7	63	116
CI1442	1	1643	71.2	74	121
MT8030	28	1595	68.9	61	118
ND8061	18	1452	71.8	62	118
SD82114	10	1407	71.2	58	116
ND8002	17	1383	68.9	67	122
SD76598-7	6	1353	70.4	58	117
SD82195	4	1308	69.6	58	120
MT7877	27	1010	71.1	49	119
MEAN		1927			
LSD(.05)		604			
C.V.		19.2			

MEAD

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV. %	LEAF RUST RESP 1-9	STEM RUST SEV. %	STEM RUST RESP 1-9
NE82656	14	3300	72.2	102	152	2		2	
RH852515	21	2836	76.1	98	145	2		7	
NE82651	12	2443	69.7	112	152	7		2	
SD82102	5	2419	72.2	116	152	2		8	
RH853514	22	2408	73.5	99	145	2		3	
NE82658	15	2358	72.2	97	153	2		3	
SD82144	7	2275	73.5	106	151	2		3	
NA-HW81-459	23	2150	72.9	93	152	2		7	
SD76598-7	6	2074	73.5	109	152	2		2	
PI476975	3	2026	69	95	152	7		2	
SD82195	4	1961	72.9	112	154	2		2	
SD76463-16	8	1896	72.9	114	154	2		2	
SD82114	10	1881	73.5	104	152	2		2	
NE82652	13	1737	71	98	154	7		2	
NE851182	16	1690	68.4	102	154	7		2	
ND8002	17	1560	69	114	156	8		2	
RH846835	20	1522	67.1	83	146	8		8	
SD791117	9	1453	68.4	110	151	8		2	
SD79892	11	1370	72.2	106	154	2		2	
XNH1337	25	1365	68.4	107	154	2		8	
MT8030	28	1361	70.3	96	154	8		3	
MT8039	29	1148	67.1	99	154	8		3	
ND8061	18	1060	67.1	107	155	8		7	
XNH1342	26	1060	69.7	107	154	8		8	
ND8095	19	950	68.4	120	158	8		3	
CI1442	1	926	71	129	157	8		8	
CI13190	2	787	.	115	155	8		8	
XNH1228	24	690	60	100	155	2		8	
MT80122	30	464	.	104	156	8		8	
MT7877	27	332	.	71	159	8		.	
MEAN		1650							
LSD(.05)		374							
C.V.		13.9							

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
SD76598-7	6	4316	76.1	102
NE82656	14	4236	77.4	94
NE82652	13	3884	70.3	93
NE82651	12	3831	74.8	99
NE82658	15	3764	72.2	86
RH852515	21	3723	76.8	93
NE851182	16	3640	74.8	91
MT8030	28	3572	77.4	86
SD82195	4	3543	78	100
PI476975	3	3430	76.1	75
MT8039	29	3337	70.3	91
NA-HW81-459	23	3296	76.8	89
RH853514	22	3283	76.8	94
SD82102	5	3281	78	104
XNH1342	26	3224	71	102
SD76463-16	8	3108	76.1	105
ND8095	19	3080	76.8	108
ND8002	17	3068	76.8	107
SD82114	10	2921	76.8	104
ND8061	18	2905	74.8	95
SD82144	7	2893	73.5	108
RH846835	20	2839	73.5	83
XNH1337	25	2747	71	95
XNH1228	24	2724	71	94
SD791117	9	2690	72.2	100
CI13190	2	2660	72.2	107
SD79892	11	2582	77.4	94
CI1442	1	2209	74.8	123
MT80122	30	2034	61.9	94
MT7877	27	1720	72.2	77
MEAN		3151		
LSD(.05)		580		
C.V.		11.3		

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
MT8039	29	4588	78.7	89	157
NE82652	13	4537	78.7	83	156
NE82656	14	4533	79.3	89	156
RH852515	21	4516	80.6	94	154
NE82651	12	4484	78	94	156
NE851182	16	4446	78	91	156
SD82144	7	4416	80.6	94	155
SD76598-7	6	4388	80.6	84	156
RH853514	22	4300	80.6	94	155
MT8030	28	4174	78.7	79	156
XNH1342	26	4129	.	88	156
SD791117	9	4127	79.3	98	155
ND8002	17	4126	75.5	99	160
RH846835	20	4088	78	80	155
NA-HW81-459	23	4085	81.3	88	155
PI476975	3	4074	80.6	76	155
NE82658	15	4057	79.3	89	155
SD82102	5	4044	81.3	90	155
SD82195	4	3966	81.3	95	157
SD76463-16	8	3909	81.3	98	157
SD79892	11	3856	78.7	90	158
ND8061	18	3667	78.7	85	164
CI13190	2	3602	.	95	159
ND8095	19	3531	79.3	97	164
XNH1337	25	3513	78.7	90	157
XNH1228	24	3429	76.8	91	159
CI1442	1	3359	78.7	105	165
SD82114	10	3328	80	93	156
MT7877	27	2969	78	74	164
MT80122	30	2733	77.4	86	167
MEAN		3966			
LSD(.05)		593			
C.V.		9.2			

ALLIANCE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
ND8061	18	4424	.	84	162
XNH1342	26	4212	75.5	86	161
MT8030	28	4149	76.8	79	158
RH852515	21	4099	78.8	88	158
MT8039	29	3978	76.1	80	158
SD76598-7	6	3942	76.5	91	158
NE82651	12	3858	76.4	88	158
NE82656	14	3857	.	83	158
NE82658	15	3851	76	80	158
RH853514	22	3830	77	86	158
RH846835	20	3799	77.9	79	158
XNH1228	24	3786	75.3	88	162
SD791117	9	3777	77.1	93	158
ND8002	17	3757	74.4	90	162
SD82102	5	3737	76	88	158
NE851182	16	3735	74.2	81	158
PI476975	3	3726	75.2	74	158
NA-HW81-459	23	3675	76.9	83	158
SD82195	4	3620	77	89	158
SD76463-16	8	3618	77.3	90	162
CI13190	2	3603	.	95	161
SD82114	10	3572	76.6	88	162
NE82652	13	3513	74.2	79	158
XNH1337	25	3485	75.1	86	161
SD82144	7	3445	75.9	93	158
MT80122	30	3440	75.5	81	161
ND8095	19	3413	78.3	84	162
SD79892	11	3389	77.4	80	161
CI1442	1	3087	78.9	109	162
MT7877	27	3023	76.8	65	161
MEAN		3713			
LSD(.05)		N.S.			
C.V.		12.6			

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
NE82656	14	4726	77.5	92	161	83
RH852515	21	3800	73.9	97	160	83
NE82652	13	3652	75.1	97	162	88
NE82658	15	3650	76.2	90	162	70
SD76463-16	8	3371	75.3	103	161	57
NE82651	12	3339	74.6	101	160	83
SD82102	5	3242	74	100	159	80
NA-HW81-459	23	3223	74	87	160	70
RH853514	22	3182	69.5	95	159	70
SD76598-7	6	3165	74.8	102	162	67
NE851182	16	3010	70.8	94	161	70
ND8002	17	2868	74	103	163	73
XNH1337	25	2776	72.6	101	161	77
RH846835	20	2652	67.7	82	159	77
MT8030	28	2604	73.1	93	164	87
SD82195	4	2504	76.4	99	164	57
SD791117	9	2487	74.4	97	161	50
XNH1342	26	2440	69.7	104	164	83
XNH1228	24	2416	67.2	98	162	63
MT8039	29	2394	64.5	91	163	77
SD82144	7	2381	73.7	104	160	67
SD82114	10	2303	74.2	94	161	57
MT80122	30	2286	68.6	95	163	83
PI476975	3	2274	71.5	82	162	73
CI13190	2	1655	70.3	107	163	70
ND8061	18	1629	72.8	97	163	50
ND8095	19	1496	73	97	168	67
SD79892	11	1468	74	91	163	37
CI1442	1	1463	70.4	108	166	70
MT7877	27	830	65.4	68	166	57
MEAN		2643				
LSD(.05)		769				
C.V.		17.8				

HIGHMORE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	SEPTORIA/ TANSPOT 0-9
NE82656	14	6758	73.7	95	155	0
SD76598-7	6	6536	77.1	110	155	4
NE82658	15	6395	72.4	91	156	2
NE82651	12	6317	76.6	100	154	0
RH852515	21	5945	78.6	101	152	2
SD82114	10	5688	77.3	102	153	2
SD76463-16	8	5517	73.3	100	160	2
SD82195	4	5312	72.6	107	156	2
MT8039	29	5309	71.7	95	154	4
XNH1337	25	5125	71.7	106	155	4
NA-HW81-459	23	5065	77.1	87	153	2
MT8030	28	5031	75.1	93	156	6
SD82102	5	4888	73.3	96	155	4
RH853514	22	4852	76	93	153	4
NE82652	13	4806	68.1	86	158	4
NE851182	16	4779	71.9	91	156	4
ND8002	17	4641	68.6	110	158	2
SD791117	9	4526	73	95	155	2
RH846835	20	4305	73.7	81	153	2
PI476975	3	4104	70.3	89	156	4
SD82144	7	3622	73.7	89	156	6
SD79892	11	3435	74	96	158	2
ND8095	19	3373	78.2	108	158	4
XNH1342	26	3351	66.6	100	158	0
XNH1228	24	3012	67.2	91	157	2
CI1442	1	2959	71.5	113	160	2
ND8061	18	2876	75.3	92	157	4
CI13190	2	2737	69.4	111	156	4
MT80122	30	2707	67	100	156	6
MT7877	27	2191	68.1	62	162	6
MEAN		4539				
LSD(.05)		1654				
C.V.		22.3				

PRESHO

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
NE82651	12	2831	78.9	86	151
ND8002	17	2728	75.5	91	157
XNH1228	24	2599	75.5	81	154
NE82656	14	2598	76.2	76	153
MT8030	28	2519	79.1	77	153
XNH1337	25	2483	76.2	84	152
RH853514	22	2445	77.7	86	151
MT8039	29	2408	75.7	80	154
RH846835	20	2358	76.9	76	151
RH852515	21	2299	78.2	82	152
PI476975	3	2296	76	73	154
NE82652	13	2232	75.1	72	154
XNH1342	26	2224	75.1	74	156
SD82195	4	2199	77.7	84	156
NE82658	15	2179	76.6	71	155
SD82102	5	2169	77.5	81	151
SD76598-7	6	2132	77.3	85	154
NE851182	16	2038	74.8	74	156
CI13190	2	2020	76.2	86	155
ND8095	19	1860	76	86	158
NA-HW81-459	23	1822	77.5	73	152
MT80122	30	1762	72.6	74	157
SD76463-16	8	1759	77.5	85	155
SD82114	10	1657	76.6	77	153
ND8061	18	1612	76.6	75	157
CI1442	1	1600	74.6	91	158
SD79892	11	1576	77.1	75	156
SD791117	9	1360	76.4	77	153
MT7877	27	1326	74	61	157
SD82144	7	1318	78	77	153
MEAN		2080			
LSD(.05)		534			
C.V.		15.7			

CASSELTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-5	DAYS TO HEADING FROM 1/1: %	STEM RUST: SEV.: RESP: 1-9:
NE82656	14	5574	76.3	99	4	158	2
SD82102	5	5521	77.3	114	5	158	2
NA-HW81-459	23	5456	78.1	96	2	156	2
NE851182	16	5256	73.1	104	4	159	8
RH853514	22	5249	77.4	104	2	155	8
NE82658	15	5230	76	101	4	158	8
RH852515	21	5188	76.9	101	2	156	8
SD82195	4	5134	77.6	114	3	159	8
NE82652	13	5103	72.9	102	3	158	8
PI476975	3	5029	74.7	98	3	157	8
NE82651	12	5013	77.1	108	4	159	8
SD82144	7	4989	75.1	110	4	159	7
SD76598-7	6	4986	77.5	106	3	160	3
SD76463-16	8	4799	78.7	115	4	160	8
RH846835	20	4631	72.9	93	3	155	9
SD82114	10	4542	78.1	101	4	159	8
SD791117	9	4483	76.3	107	4	158	8
ND8002	17	4480	76	114	3	162	8
XNH1337	25	4476	74.8	113	4	159	8
MT8039	29	4412	71.4	104	3	159	8
XNH1228	24	4268	71.9	104	4	158	8
XNH1342	26	4208	74.7	113	3	159	8
MT8030	28	4133	73.8	103	3	159	9
SD79892	11	4130	77.1	104	3	160	8
CI13190	2	3922	74.7	134	4	160	8
ND8061	18	3914	76	101	3	160	8
ND8095	19	3808	76.5	114	1	163	8
NORSTAR	31	3723	75.7	132	4	163	8
AGASSIZ	33	3663	78.1	121	4	162	8
CI1442	1	3475	76	119	4	161	8
MT80122	30	3420	69.6	107	5	161	9
ROUGHRIDER	32	3368	76.5	122	3	162	8
MT7877	27	2424	70.6	79	4	163	9
MEAN		4585					
LSD(.05)		447					
C.V.		6.1					

CARRINGTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
ND8002	17	2311	75.6	70	168
NA-HW81-459	23	2190	80.3	58	163
MT8030	28	2175	78.7	64	164
PI476975	3	2172	78.7	55	163
RH853514	22	2093	79.7	61	162
SD82144	7	2006	78	64	163
MT80122	30	1968	74.1	64	166
XNH1337	25	1964	76.6	63	163
SD76598-7	6	1953	77.3	65	165
SD791117	9	1921	78.3	63	163
SD76463-16	8	1910	78.5	65	163
SD82195	4	1894	78.3	61	164
RH852515	21	1887	80.1	57	162
SD82102	5	1882	79.3	59	161
CI13190	2	1880	77.6	66	163
XNH1342	26	1879	77	62	164
NE82658	15	1874	79.5	59	163
NE82651	12	1849	78.9	55	164
MT7877	27	1835	78	50	167
NORSTAR	31	1767	73.4	74	169
ND8061	18	1759	79.3	58	166
CI1442	1	1740	77.4	73	165
XNH1228	24	1699	76.3	63	164
SD82114	10	1690	76.8	57	165
ND8095	19	1686	77.2	62	167
AGASSIZ	33	1672	77.4	64	168
NE82656	14	1634	79.4	55	163
RH846835	20	1626	77.9	50	164
NE851182	16	1605	77.4	55	163
SD79892	11	1594	78.6	57	166
ROUGHRIDER	32	1550	77.7	64	165
NE82652	13	1548	78.4	58	165
MT8039	29	1447	72	57	164
MEAN		1838			
LSD(.05)		433			
C.V.		14.4			

WILLISTON

N. DAKOTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LEAF RUST SEV. %	LEAF RUST RESP 1-9	STEM RUST SEV. %	STEM RUST RESP 1-9	TAN SPOT 0-9	BACTERIAL LEAF DIS. 0-9
NORSTAR	33	2724	80.6	90	162	90	1		60		6	3.5
ND8002	17	2656	78.6	79	160	89	5		0		7	4.5
SIOUXLAND	36	2620	79.9	78	157	68	0		1		7.5	3
MT8030	28	2544	79.6	69	158	88	10		0		7.5	2.5
AGASSIZ	32	2541	80	85	160	91	1		1		7	4
RH852515	21	2533	79.7	73	155	84	1		0		7.5	3.5
ND8095	19	2503	81.1	80	160	84	1		40		7	5
SD82102	5	2502	78.4	80	158	83	0		40		7.5	5
ROUGHRIDER	31	2436	80	81	159	84	5		5		7	4.5
SD76598-7	6	2412	79.3	71	158	78	1		0		8	4
NE82656	14	2394	77.4	72	157	86	0		0		6	1.5
MT8039	29	2355	77.7	75	158	68	20		0		5	1.5
ND8061	18	2353	80.2	71	159	78	5		60		7	3.5
NE82651	12	2330	78.3	72	156	76	5		0		8	4.5
ROSE	35	2318	80.4	73	158	70	0		50		7	3.5
NE82652	13	2301	78.2	72	158	66	0		0		5.5	4.5
SD82195	4	2284	79.5	76	158	69	0		50		6	2.5
XNH1337	25	2283	77.7	77	157	76	10		50		6.5	4.5
NE82658	15	2248	78	69	157	76	0		0		5.5	2
RH853514	22	2247	79.3	74	154	61	0		1		7.5	3
SD79892	11	2200	80	76	158	69	1		30		8	3.5
SD76463-16	8	2182	80.6	82	157	51	1		40		7	5
MT7877	27	2182	78.6	56	160	68	10		40		9	6
CI1442	1	2167	79.7	85	159	74	5		60		7.5	4
MT80122	30	2154	78.3	74	159	70	20		60		6	3.5
CI13190	2	2132	79.5	83	158	69	10		30		6.5	4
XNH1228	24	2128	76.9	75	157	58	5		50		7	4.5
SD82144	7	2113	78.9	76	158	43	5		0		7.5	2.5
SD82114	10	2085	79.6	74	157	53	1		40		8	4
SD791117	9	2074	78.9	77	157	48	5		40		8	4.5
NE851182	16	2074	78.3	68	159	45	5		0		6	3
PI476975	3	2023	80.2	63	157	50	5		0		7.5	4
REDWIN	34	1980	79.2	75	159	81	1		70		6.5	1.5
NA-HW81-459	23	1903	80.9	69	156	44	0		10		6	1.5
XNH1342	26	1796	78	76	159	46	40		60		6	1.5
RH846835	20	1673	77.4	65	154	39	20		0		6.5	2.5
MEAN		2260										
LSD(.05)		275										
C.V.		8.6										

ROSEMOUNT

MINNESOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-9	DAYS TO HEADING FROM 1/1	LEAF RUST: SEV. %	RUST: RESP: 1-9	LEAF SPOT 0-9
RH846835	20	4367	75.5	101	5	149	.	.	9
PI476975	3	4342	76.1	91	2	152	10	8	7
MT8039	29	4170	72.2	110	3	152	50	8	8
RH853514	22	4078	77.4	119	7	149	0	.	7
NE82652	13	3795	74.8	101	3	152	5	8	7
MT80122	30	3580	74.2	113	4	154	50	8	8
NE82651	12	3423	77.4	116	7	151	15	8	9
NA-HW81-459	23	3318	77.4	111	7	149	.	.	9
XNH1228	24	3315	72.9	113	6	152	50	8	8
NE851182	16	3302	72.2	107	8	153	25	8	4
XNH1337	25	3289	73.5	115	6	152	30	8	6
SD82195	4	3277	78	122	7	154	1	8	4
MT8030	28	3232	75.5	104	3	154	40	8	8
RH852515	21	3116	76.8	117	8	149	1	8	8
NE82656	14	3102	72.9	107	8	152	1	3	4
XNH1342	26	3102	72.9	126	7	154	65	8	6
ND8095	19	3004	76.8	120	6	158	40	8	5
ND8002	17	2851	72.9	122	7	157	5	8	3
SD76598-7	6	2800	76.1	124	9	154	1	8	6
ND8061	18	2795	74.2	109	8	155	60	8	7
NE82658	15	2768	72.2	103	8	152	1	8	6
SD79892	11	2755	75.5	115	8	154	30	8	6
SD82102	5	2710	73.5	119	8	152	1	8	9
SD82144	7	2540	69.7	123	9	151	5	8	8
SD76463-16	8	2493	75.5	120	8	153	10	8	8
MT7877	27	2484	73.5	82	1	158	30	8	9
CI13190	2	2405	74.2	121	8	154	70	8	.
SD82114	10	2347	72.2	109	9	151	.	.	9
SD791117	9	2139	72.2	115	9	151	40	8	9
CI1442	1	1836	72.9	114	9	156	50	8	7
MEAN		3091							
LSD(.05)		777							
C.V.		15.4							

WASECA

MINNESOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-9	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LEAF RUST SEV. %	RUST RESP. 1-9
RH853514	22	5463	77	103	3	150	97	40	3
NE82656	14	5334	75.4	93	3	156	97	20	2
RH852515	21	4672	76.5	101	5	152	97	100	8
NE82658	15	4422	74.8	89	3	157	89	10	2
NE851182	16	4242	70.5	97	3	156	82	60	7
NE82651	12	4165	74	102	4	155	99	100	8
NE82652	13	3913	73.3	91	3	157	94	60	7
PI476975	3	3895	73.4	82	2	158	95	60	8
SD76598-7	6	3886	74.9	106	5	156	93	20	7
XNH1337	25	3738	69.5	105	4	156	95	80	8
NA-HW81-459	23	3726	76.8	91	2	153	96	20	7
SD76463-16	8	3723	75	109	6	158	97	60	8
SD82102	5	3698	74.5	108	6	156	93	60	3
SD82114	10	3632	73.8	103	7	156	93	10	3
RH846835	20	3476	72.4	88	2	151	83	100	8
XNH1342	26	3461	72.5	108	3	157	97	80	8
SD82195	4	3441	75.1	104	3	157	87	60	8
SD82144	7	3413	72	102	6	155	96	80	8
MT8039	29	3303	68.9	97	1	156	95	100	8
ND8002	17	3235	72.4	113	4	158	98	80	8
SD791117	9	3200	70.5	104	6	155	94	40	8
SD79892	11	3049	70.5	108	4	158	93	100	8
MT8030	28	3029	72.7	92	3	157	93	80	8
ND8095	19	2959	74.7	114	2	157	95	80	8
XNH1228	24	2936	62.6	99	3	157	94	80	8
ND8061	18	2874	71.2	101	3	157	96	100	8
MT80122	30	2443	66.7	95	3	158	88	100	8
MT7877	27	2138	67.3	73	2	159	89	100	8
CI13190	2	2105	66.3	108	5	157	96	80	8
CI1442	1	1631	65.3	111	6	158	96	60	8
MEAN		3507							
LSD(.05)		776							
C.V.		13.5							

SHERIDAN

WYOMING

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	LODGING %
NA-HW81-459	23	4823	81.4	17
NE82651	12	4688	80.6	17
RH846835	20	4664	80.1	0
NE851182	16	4534	77.8	33
RH853514	22	4501	80.1	0
MT8039	29	4425	75.6	33
NE82658	15	4332	80.1	0
SD76598-7	6	4331	80.5	67
ND8002	17	4214	77.4	0
RH852515	21	4097	81	50
NE82652	13	4067	76.9	67
SD791117	9	3993	81	67
SD79892	11	3933	80.9	0
MT8030	28	3847	79.1	33
SD82144	7	3727	80.1	67
SD82114	10	3621	81.5	67
XNH1337	25	3609	76.8	100
SD82195	4	3594	81.5	0
XNH1228	24	3510	75.2	0
PI476975	3	3494	78.9	33
NE82656	14	3332	78.3	100
SD76463-16	8	3140	79.9	67
ND8095	19	3121	80.9	0
CI13190	2	3117	80.2	67
SD82102	5	2926	77.4	67
ND8061	18	2780	81.4	50
MT80122	30	2746	78	100
MT7877	27	2650	75.7	0
XNH1342	26	2440	73.8	83
CI1442	1	2113	79.1	100
MEAN		3679		
LSD(.05)		1017		
C.V.		16.9		

ARCHER

WYOMING

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL
XNH1228	24	1805	77.9
CI13190	2	1669	79.7
SD76463-16	8	1660	78.6
MT8039	29	1629	77.5
NE82651	12	1616	79.2
MT80122	30	1612	79.7
SD791117	9	1611	78.3
XNH1337	25	1601	78
SD82144	7	1588	77.3
PI476975	3	1579	79.1
SD82102	5	1578	77.4
ND8002	17	1569	75.2
NE851182	16	1526	76.1
NE82652	13	1521	77
SD76598-7	6	1519	79.2
NA-HW81-459	23	1515	79.2
ND8095	19	1487	78.7
XNH1342	26	1470	77.9
CI1442	1	1460	79.1
ND8061	18	1456	81.5
SD79892	11	1406	79.7
RH846835	20	1392	77.4
MT8030	28	1389	80
SD82195	4	1359	79.7
NE82656	14	1357	76.9
RH853514	22	1355	77.4
SD82114	10	1352	78.9
RH852515	21	1307	79.3
MT7877	27	1175	79.9
NE82658	15	1043	78
MEAN		1487	
LSD(.05)		306	
C.V.		12.6	

MOCCASIN

MONTANA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
MT8039	29	4010	80	70	166
NE82652	13	3886	81.5	72	165
XNH1228	24	3713	78.3	73	164
MT80122	30	3692	78.4	68	168
SD79892	11	3624	80.4	76	168
NE82656	14	3571	80.4	69	165
NE82651	12	3559	81.9	74	164
SD82102	5	3522	81.8	73	164
SD76598-7	6	3460	80.5	72	167
SD791117	9	3441	82.6	73	162
SD82114	10	3380	82.6	72	164
MT8030	28	3313	81.9	65	165
XNH1342	26	3310	79.3	66	166
XNH1337	25	3279	80.1	67	165
RH852515	21	3235	82.2	68	161
SD82195	4	3170	81.1	76	164
ND8095	19	3128	77.7	74	169
MT7877	27	3114	80.8	52	169
NE82658	15	3108	81.3	65	165
CI1442	1	3084	80.5	87	167
PI476975	3	3072	81.8	64	164
RH853514	22	3031	80.6	67	160
NE851182	16	3025	79.3	66	165
NA-HW81-459	23	2993	82.4	69	162
CI13190	2	2992	81.8	74	165
ND8061	18	2981	81.5	73	167
SD82144	7	2890	81.9	67	165
SD76463-16	8	2855	81.9	69	165
RH846835	20	2809	79.9	63	161
ND8002	17	2655	80.8	73	168
MEAN		3263			
LSD(.05)		648			
C.V.		12.2			

SIDNEY

MONTANA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	WINTER SURVIVAL %
SD76463-16	8	4311	78	64	38
CI13190	2	4106	71.6	67	23
PI476975	3	3857	78	68	10
ND8061	18	3783	74.8	67	33
NA-HW81-459	23	3721	78	67	32
MT8039	29	3640	75.5	62	62
XNH1228	24	3616	68.4	66	27
ND8002	17	3615	76.8	64	37
MT8030	28	3603	79.3	67	48
MT80122	30	3600	69	67	33
NE82651	12	3579	78	59	52
RH852515	21	3556	79.3	65	37
NE82656	14	3554	78	62	58
CI1442	1	3541	74.8	60	42
NE82658	15	3510	78	61	63
SD76598-7	6	3403	78	65	18
SD82102	5	3299	76.1	67	20
ND8095	19	3258	74.2	64	15
XNH1342	26	3253	69.7	60	7
NE82652	13	3204	77.4	60	52
SD79892	11	3134	76.1	69	27
RH853514	22	3122	76.8	61	25
SD82195	4	3112	77.4	69	13
SD82114	10	3048	76.8	65	33
NE851182	16	2909	76.1	62	33
XNH1337	25	2875	69.7	64	27
RH846835	20	2846	74.8	64	18
SD82144	7	2727	78.7	62	33
MT7877	27	2473	75.5	55	55
SD791117	9	2207	74.2	59	40
MEAN		3349			
LSD(.05)		N.S.			
C.V.		26.8			

BOZEMAN

MONTANA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	HARVEST INDEX %
SD82102	5	5437	81.8	92	164	100	46.3
SD82144	7	5256	82.4	88	164	100	43.1
XNH1337	25	5232	81.5	89	164	100	44.5
MT8039	29	5044	80.9	89	161	100	43.9
NE851182	16	4973	81.5	88	164	100	45.7
MT8030	28	4963	81.5	86	165	100	43
RH853514	22	4899	81.9	90	165	100	42.4
RH846835	20	4882	81	79	153	93	46.6
ND8002	17	4664	81.1	97	166	100	41.6
NE82656	14	4600	81.3	84	165	100	40.4
SD82114	10	4593	83.2	87	164	100	44.4
PI476975	3	4502	81.5	85	164	100	43.3
NE82658	15	4452	81.1	88	156	98	38.2
XNH1342	26	4378	81.1	96	165	100	40.1
NE82651	12	4331	82	87	156	100	40.9
SD76463-16	8	4328	82.3	94	164	100	38.8
MT7877	27	4297	82.4	70	167	100	40.3
MT80122	30	4294	82.6	91	165	100	40.6
NA-HW81-459	23	4264	83.7	81	159	100	38.2
NE82652	13	4170	80.5	86	160	100	37.7
RH852515	21	4153	82.6	83	155	100	37.5
XNH1228	24	4149	81.5	88	149	98	37.5
SD76598-7	6	4089	82.3	91	161	100	36.2
SD82195	4	4065	82.2	91	166	100	34.4
CI13190	2	4062	81.7	95	164	100	39.5
ND8095	19	3995	82.7	99	167	95	35.1
SD79892	11	3958	82.2	95	165	98	35.7
ND8061	18	3860	82.4	90	165	95	37.4
CI1442	1	3527	81.1	101	166	100	32.7
SD791117	9	3510	82.7	89	163	100	33.8
MEAN		4431					
LSD(0.5)		1002					
C.V.		16.0					

ABERDEEN

IDAHO

TWO REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	WINTER *: SURVIVAL %
PI476975	3	7093	91	154	95	25
MT7877	27	6413	89	161	98	17
NE82652	13	5907	104	156	68	17
NE82658	15	5555	104	154	100	9
NA-HW81-459	23	5463	94	152	100	17
ND8002	17	5456	119	160	100	32
MT8039	29	5456	107	156	98	4
MT8030	28	5357	104	157	100	11
NE851182	16	5186	99	154	100	17
ND8061	18	5151	107	157	100	5
RH846835	20	4861	91	151	100	12
XNH1228	24	4848	109	156	93	24
MT80122	30	4772	112	160	95	17
SD82195	4	4759	117	160	96	30
ND8095	19	4737	124	161	93	12
XNH1337	25	4732	109	154	95	7
RH853514	22	4650	104	151	100	19
NE82656	14	4546	107	154	100	17
RH852515	21	4491	104	152	100	4
NE82651	12	4464	109	153	100	5
SD76598-7	6	4449	114	156	95	7
SD82114	10	4352	102	155	98	4
SD82144	7	4231	104	155	80	32
SD76463-16	8	4094	114	154	100	4
XNH1342	26	4075	109	158	93	9
SD791117	9	4055	112	152	98	5
SD79892	11	3670	102	158	95	24
SD82102	5	3318	112	155	95	12
CI1442	1	2487	119	162	88	9
CI13190	2	2056	112	157	80	10
MEAN		4690				
LSD(.05)		1751				
C.V.		18.3				

* Notes from the Tetonia nursery site.

LIND

WASHINGTON

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	STAND %
MT8039	29	1866	77.4	63	150	57
NE82652	13	1849	78.2	65	150	67
XNH1228	24	1802	77.3	69	151	53
XNH1337	25	1749	77.7	64	151	63
ND8002	17	1681	77.7	67	151	53
MT7877	27	1641	79.6	47	152	58
MT80122	30	1596	79.3	58	153	48
CI1442	1	1594	78.7	78	152	57
CI13190	2	1574	78.7	64	152	65
NE82656	14	1565	77	62	149	62
NE82651	12	1560	78.6	62	149	50
NE851182	16	1550	76.9	62	150	47
SD791117	9	1509	79.9	65	148	63
RH852515	21	1503	79.1	62	148	50
SD76463-16	8	1493	79.2	65	150	58
PI476975	3	1453	80.1	58	150	47
ND8061	18	1448	80.1	63	152	58
XNH1342	26	1435	78	58	150	47
SD82102	5	1414	79.1	60	150	70
SD76598-7	6	1412	79.2	57	150	43
MT8030	28	1379	79.1	58	151	40
NA-HW81-459	23	1320	79.7	58	149	65
NE82658	15	1318	78.4	58	150	58
SD82195	4	1300	80.4	55	152	52
SD79892	11	1260	80.1	59	151	73
SD82144	7	1224	80.1	60	150	48
ND8095	19	1222	78.9	62	152	42
RH846835	20	1197	78.9	58	147	55
SD82114	10	1153	79.9	53	150	52
RH853514	22	968	78.6	58	148	48
MEAN		1468				
LSD(.05)		306				
C.V.		12.8				

LETHBRIDGE

ALBERTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	DAYS TO RIPENING FROM 1/1
NE82652	13	3778	80.2	83	158	189
MT80122	30	3766	81.9	85	159	189
NE851182	16	3758	79.5	86	157	188
NE82651	12	3679	80.3	85	158	187
RH852515	21	3621	80	82	157	187
RH853514	22	3591	79	89	156	187
XNH1228	24	3559	78.7	89	158	189
NA-HW81-459	23	3489	82.6	82	158	189
PI476975	3	3463	81.2	78	158	188
NE82656	14	3450	79.3	82	157	190
SD791117	9	3433	79.9	91	157	187
ND8061	18	3369	82	85	159	188
NE82658	15	3291	80.7	79	156	187
ID0180	34	3280	79.4	90	159	190
RH846835	20	3270	77	74	158	187
MT8039	29	3256	78.4	88	158	189
SD76598-7	6	3253	80.6	87	157	188
WT166	35	3219	81.8	89	158	190
MT8030	28	3201	80	84	158	188
REDWIN	33	3185	82.9	91	159	191
SD82144	7	3161	79.6	89	157	187
WINALTA	32	3147	82.7	96	157	188
SD82114	10	3138	80.8	85	158	188
ND8002	17	3129	80.3	96	159	189
SD82195	4	3110	81.5	86	158	188
XNH1342	26	3086	79.3	87	159	189
XNH1337	25	3018	78.7	89	157	188
CI13190	2	2957	80.4	99	156	189
WT176	36	2954	80.3	99	159	192
ND8095	19	2896	82.6	93	159	190
SD76463-16	8	2882	80.9	95	157	188
SD82102	5	2855	77.8	92	157	188
MT7877	27	2783	83.2	61	160	191
CI1442	1	2765	81.3	102	159	190
SD79892	11	2753	81.3	86	159	191
NORSTAR	31	2610	81.7	100	161	192
MEAN		3227				
LSD(.05)		517				
C.V.		11.3				

Table 13. Summary of mean yields (kg/ha) and ranks of 30 wheats grown in the 1986 Northern Regional Performance Nursery at 22 locations, with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	MEAD NEBRASKA		NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN	
BRULE/3/PKR*4/AGENT//BEL198/LANCER	NE82656	14	3300	1	4236	2	4533	3	3857	8	3981	1
BRULE//SENTINEL/CENTURK	NE82651	12	2443	3	3831	4	4484	5	3858	7	3654	4
WINTER WHEAT HYBRID	RH853514	22	2408	5	3283	13	4300	9	3830	10	3455	6
WINTER WHEAT HYBRID	RH852515	21	2836	2	3723	6	4516	4	4099	4	3793	2
BRULE//SENTINEL/CENTURK	NE82652	13	1737	14	3884	3	4537	2	3513	23	3418	7
BRULE/3/PKR*4/AGENT//BEL198/LANCER	NE82658	15	2358	6	3764	5	4057	17	3851	9	3508	5
THUNDERBIRD (BULK SELECTION)	NA-HW81-459	23	2150	8	3296	12	4085	15	3675	18	3302	12
BRULE COMPOSITE	NE851182	16	1690	15	3640	7	4446	6	3735	16	3378	8
CI15322//AGATE/4*SCOUT66/3/CTK78	SD76598-7	6	2074	9	4316	1	4388	8	3942	6	3680	3
COLT	PI476975	3	2026	10	3430	10	4074	16	3726	17	3314	10
LANCOTA/FROID//NE69559/WNK	MT8039	29	1148	22	3337	11	4588	1	3978	5	3262	14
WINTER WHEAT HYBRID	RH846835	20	1522	17	2839	22	4088	14	3799	11	3062	19
TX65A268/FROID//YTO 117-20/CTK	MT8030	28	1361	21	3572	8	4174	10	4149	3	3314	10
WINTER WHEAT HYBRID	XNH1337	25	1365	20	2747	23	3513	25	3485	24	2777	24
CI15322//3*(AGENT/4*SCOUT66)	SD76463-16	8	1896	12	3108	16	3909	20	3618	20	3133	17
NE70545/NE70537//CO672135/CO662079	SD82102	5	2419	4	3281	14	4044	18	3737	15	3370	9
CTK//FROID/7759-19	ND8002	17	1560	16	3068	18	4126	13	3757	14	3128	18
AMIGO/CTK*2//SD74221	SD82195	4	1961	11	3543	9	3966	19	3620	19	3273	13
WINTER WHEAT HYBRID	XNH1228	24	690	28	2724	24	3429	26	3786	12	2657	27
CI15322//AGATE/4*SUT66/3/CTK78/4/SD74221	SD82144	7	2275	7	2893	21	4416	7	3445	25	3257	15
SD74221*2/LATHROP	SD82114	10	1881	13	2921	19	3328	28	3572	22	2925	22
WINTER WHEAT HYBRID	XNH1342	26	1060	23	3224	15	4129	11	4212	2	3156	16
SD75375/OK711248-1	SD791117	9	1453	18	2690	25	4127	12	3777	13	3012	21
NE63283/6*CHEYENNE	MT80122	30	464	29	2034	29	2733	30	3440	26	2168	29
WNK*2/II64-27	ND8061	18	1060	24	2905	20	3667	22	4424	1	3014	20
WNK/RRR	ND8095	19	950	25	3080	17	3531	24	3413	27	2744	25
CI15322//4*(AGENT/4*SCOUT66)	SD79892	11	1370	19	2582	27	3856	21	3389	28	2799	23
WARRIOR	CI13190	2	787	27	2660	26	3602	23	3603	21	2663	26
KHARKOF	CI1442	1	926	26	2209	28	3359	27	3087	29	2395	28
NORWIN	MT7877	27	332	30	1720	30	2969	29	3023	30	2011	30
	MEAN		1650		3151		3966		3713		3120	
	LSD(.05)		374		580		593		N.S.		498	
	C.V.		13.9		11.3		9.2		12.6		11.6	

Table 13. Continued.

C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN		CASSELTON N. DAKOTA		CARRINGTON N. DAKOTA		WILLISTON N. DAKOTA		NORTH DAKOTA STATE MEAN	
NE82656	14	4726	1	6758	1	2598	4	4694	1	5574	1	1634	25	2394	7	3201	3
NE82651	12	3339	6	6317	4	2831	1	4162	2	5013	11	1849	18	2330	10	3064	11
RH853514	22	3182	9	4852	14	2445	7	3493	8	5249	5	2093	5	2247	15	3196	4
RH852515	21	3800	2	5945	5	2299	10	4015	4	5188	7	1887	13	2533	3	3203	2
NE82652	13	3652	3	4806	15	2232	12	3563	6	5103	9	1548	29	2301	11	2984	13
NE82658	15	3650	4	6395	3	2179	15	4075	3	5230	6	1874	17	2248	14	3118	7
NA-HW81-459	23	3223	8	5065	11	1822	21	3370	13	5456	3	2190	2	1903	28	3183	5
NE851182	16	3010	11	4779	16	2038	18	3276	16	5256	4	1605	27	2074	25	2978	14
SD76598-7	6	3165	10	6536	2	2132	17	3944	5	4986	13	1953	9	2412	6	3117	8
PI476975	3	2274	24	4104	20	2296	11	2891	19	5029	10	2172	4	2023	27	3075	10
MT8039	29	2394	20	5309	9	2408	8	3370	14	4412	20	1447	30	2355	8	2738	20
RH846835	20	2652	14	4305	19	2358	9	3105	18	4631	15	1626	26	1673	30	2643	25
MT8030	28	2604	15	5031	12	2519	5	3385	12	4133	23	2175	3	2544	2	2951	16
XNH1337	25	2776	13	5125	10	2483	6	3461	9	4476	19	1964	8	2283	13	2908	17
SD76463-16	8	3371	5	5517	7	1759	23	3549	7	4799	14	1910	11	2182	18	2963	15
SD82102	5	3242	7	4888	13	2169	16	3433	10	5521	2	1882	14	2502	5	3301	1
ND8002	17	2868	12	4641	17	2728	2	3412	11	4480	18	2311	1	2656	1	3149	6
SD82195	4	2504	16	5312	8	2199	14	3338	15	5134	8	1894	12	2284	12	3104	9
XNH1228	24	2416	19	3012	25	2599	3	2676	21	4268	21	1699	22	2128	22	2698	21
SD82144	7	2381	21	3622	21	1318	30	2440	23	4989	12	2006	6	2113	23	3036	12
SD82114	10	2303	22	5688	6	1657	24	3216	17	4542	16	1690	23	2085	24	2772	19
XNH1342	26	2440	18	3351	24	2224	13	2672	22	4208	22	1879	16	1796	29	2628	27
SD791117	9	2487	17	4526	18	1360	28	2791	20	4483	17	1921	10	2074	25	2826	18
MT80122	30	2286	23	2707	29	1762	22	2252	24	3420	29	1968	7	2154	20	2514	28
ND8061	18	1629	26	2876	27	1612	25	2039	28	3914	26	1759	20	2353	9	2675	22
ND8095	19	1496	27	3373	23	1860	20	2243	25	3808	27	1686	24	2503	4	2665	23
SD79892	11	1468	28	3435	22	1576	27	2160	26	4130	24	1594	28	2200	16	2642	26
CI13190	2	1655	25	2737	28	2020	19	2137	27	3922	25	1880	15	2132	21	2645	24
CI1442	1	1463	29	2959	26	1600	26	2007	29	3475	28	1740	21	2167	19	2461	29
MT7877	27	830	30	2191	30	1326	29	1449	30	2424	30	1835	19	2182	17	2147	30
MEAN		2643		4539		2080		3087		4575		1856		2228		2886	
LSD(.05)		769		1654		534		928		447		446		287		N.S.	
C.V.		17.8		22.3		15.7		21.3		6.0		14.7		9.1		8.7	

Table 13. Continued.

C.I. OR SEL. NO.	ENTRY NO.	SHERIDAN WYOMING		ARCHER WYOMING		WYOMING STATE MEAN		SIDNEY MONTANA		MOCCASIN MONTANA		BOZEMAN MONTANA		MONTANA STATE MEAN		LETHBRIDGE ALBERTA		LIND WASHINGTON	
NE82656	14	3332	21	1357	25	2345	23	3554	13	3571	6	4600	10	3908	4	3450	10	1565	10
NE82651	12	4688	2	1616	5	3152	2	3579	11	3559	7	4331	15	3823	8	3679	4	1560	11
RH853514	22	4501	5	1355	26	2928	6	3122	22	3031	22	4899	7	3684	14	3591	6	968	30
RH852515	21	4097	10	1307	28	2702	11	3556	12	3235	15	4153	21	3648	18	3621	5	1503	14
NE82652	13	4067	11	1521	14	2794	10	3204	20	3886	2	4170	20	3753	11	3778	1	1849	2
NE82658	15	4332	7	1043	30	2688	12	3510	15	3108	19	4452	13	3690	13	3291	13	1318	23
NA-HW81-459	23	4823	1	1515	16	3169	1	3721	5	2993	24	4264	19	3659	16	3489	8	1320	22
NE851182	16	4534	4	1526	13	3030	3	2909	25	3025	23	4973	5	3635	21	3758	3	1550	12
SD76598-7	6	4331	8	1519	15	2925	7	3403	16	3460	9	4089	23	3651	17	3253	16	1412	20
PI476975	3	3494	20	1579	10	2537	18	3857	3	3072	21	4502	12	3810	9	3463	9	1453	16
MT8039	29	4425	6	1629	4	3027	5	3640	6	4010	1	5044	4	4231	1	3256	15	1866	1
RH846835	20	4664	3	1392	22	3028	4	2846	27	2809	29	4882	8	3513	25	3270	14	1197	28
MT8030	28	3847	14	1389	23	2618	16	3603	9	3313	12	4963	6	3960	3	3201	17	1379	21
XNH1337	25	3609	17	1601	8	2605	17	2875	26	3279	14	5232	3	3795	10	3018	23	1749	4
SD76463-16	8	3140	22	1660	3	2400	21	4311	1	2855	28	4328	16	3831	6	2882	26	1493	15
SD82102	5	2926	25	1578	11	2252	25	3299	17	3522	8	5437	1	4086	2	2855	27	1414	19
ND8002	17	4214	9	1569	12	2891	8	3615	8	2655	30	4664	9	3645	20	3129	20	1681	5
SD82195	4	3594	18	1359	24	2477	20	3112	23	3170	16	4065	24	3449	27	3110	21	1300	24
XNH1228	24	3510	19	1805	1	2658	14	3616	7	3713	3	4149	22	3826	7	3559	7	1802	3
SD82144	7	3727	15	1588	9	2658	14	2727	28	2890	27	5256	2	3624	22	3161	18	1224	26
SD82114	10	3621	16	1352	27	2487	19	3048	24	3380	11	4593	11	3674	15	3138	19	1153	29
XNH1342	26	2440	29	1470	18	1955	28	3253	19	3310	13	4378	14	3647	19	3086	22	1435	18
SD791117	9	3993	12	1611	7	2802	9	2207	30	3441	10	3510	30	3053	30	3433	11	1509	13
MT80122	30	2746	27	1612	6	2179	26	3600	10	3692	4	4294	18	3862	5	3766	2	1596	7
ND8061	18	2780	26	1456	20	2118	27	3783	4	2981	26	3860	28	3541	24	3369	12	1448	17
ND8095	19	3121	23	1487	17	2304	24	3258	18	3128	17	3995	26	3460	26	2896	25	1222	27
SD79892	11	3933	13	1406	21	2669	13	3134	21	3624	5	3958	27	3572	23	2753	30	1260	25
CI13190	2	3117	24	1669	2	2393	22	4106	2	2992	25	4062	25	3720	12	2957	24	1574	9
CI1442	1	2113	30	1460	19	1786	30	3541	14	3084	20	3527	29	3384	28	2765	29	1594	8
MT7877	27	2650	28	1175	29	1913	29	2473	29	3114	18	4297	17	3295	29	2783	28	1641	6
MEAN		3679		1487		2583		3349		3263		4431		3681		3259		1468	
LSD(.05)		1017		306		N.S.		N.S.		648		1002		N.S.		528		306	
C.V.		16.9		12.6		17.8		26.8		12.2		16.0		19.5		11.5		12.8	

Table 13. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		NEW MEXICO STATE MEAN		WASECA MINNESOTA		ROSEMOUNT MINNESOTA		MINNESOTA STATE MEAN		ABERDEEN IDAHO		REGIONAL AVERAGE	
NE82656	14	3988	11	2002	12	2995	12	5334	2	3102	15	4218	2	4546	18	3637	1
NE82651	12	4297	7	1852	20	3075	10	4165	6	3423	7	3794	7	4464	20	3523	2
RH853514	22	4922	1	2774	2	3848	1	5463	1	4078	4	4770	1	4650	17	3511	3
RH852515	21	4242	8	1938	17	3090	9	4672	3	3116	14	3894	5	4491	19	3489	4
NE82652	13	3495	19	2042	11	2768	16	3913	7	3795	5	3854	6	5907	3	3406	5
NE82658	15	3656	15	1653	22	2654	18	4422	4	2768	21	3595	10	5555	4	3396	6
NA-HW81-459	23	4396	4	2213	8	3305	4	3726	11	3318	8	3522	11	5463	5	3369	7
NE851182	16	3929	12	2306	4	3118	8	4242	5	3302	10	3772	8	5186	9	3342	8
SD76598-7	6	3538	17	1353	28	2445	24	3886	9	2800	19	3343	14	4449	21	3336	9
PI476975	3	3508	18	1961	15	2735	17	3895	8	4342	2	4119	3	7093	1	3335	10
MT8039	29	3205	24	1990	14	2597	19	3303	19	4170	3	3736	9	5456	6	3335	11
RH846835	20	4332	5	3053	1	3692	2	3476	15	4367	1	3922	4	4861	11	3211	12
MT8030	28	2929	27	1595	24	2262	27	3029	23	3232	13	3131	17	5357	8	3186	13
XNH1337	25	4516	2	2078	10	3297	5	3738	10	3289	11	3514	12	4732	16	3179	14
SD76463-16	8	4232	10	2259	7	3246	6	3723	12	2493	25	3108	19	4094	24	3161	15
SD82102	5	3293	22	1779	21	2536	21	3698	13	2710	23	3204	16	3318	28	3160	16
ND8002	17	2377	29	1383	27	1880	29	3235	20	2851	18	3043	20	5456	6	3137	17
SD82195	4	3822	13	1308	29	2565	20	3441	17	3277	12	3359	13	4759	14	3124	18
XNH1228	24	4407	3	2408	3	3407	3	2936	25	3315	9	3126	18	4848	12	3037	19
SD82144	7	3363	21	2273	6	2818	15	3413	18	2540	24	2976	24	4231	23	2993	20
SD82114	10	3544	16	1407	26	2476	23	3632	14	2347	28	2989	22	4352	22	2965	21
XNH1342	26	3369	20	2284	5	2826	14	3461	16	3102	15	3282	15	4075	25	2918	22
SD791117	9	3730	14	1993	13	2861	13	3200	21	2139	29	2669	27	4055	26	2896	23
MT80122	30	4240	9	1857	18	3049	11	2443	27	3580	6	3011	21	4772	13	2780	24
ND8061	18	2950	26	1452	25	2201	28	2874	26	2795	20	2835	26	5151	10	2777	25
ND8095	19	3024	25	1942	16	2483	22	2959	24	3004	17	2981	23	4737	15	2749	26
SD79892	11	2805	28	1857	19	2331	26	3049	22	2755	22	2902	25	3670	27	2718	27
CI13190	2	4309	6	2151	9	3230	7	2105	29	2405	27	2255	29	2056	30	2659	28
CI1442	1	3208	23	1643	23	2426	25	1631	30	1836	30	1733	30	2487	29	2358	29
MT7877	27	2255	30	1010	30	1632	30	2138	28	2484	26	2311	28	6413	2	2330	30
MEAN		3663		1927		2795		3507		3091		3299		4690		3075	
LSD(.05)		717		604		714		776		777		1177		1751		300	
C.V.		12.0		19.2		14.5		13.5		15.4		14.4		18.3		16.2	

Table 14. Summary of mean yields (kg/ha) and ranks of 30 wheats grown in the 1986 Northern Regional Performance Nursery at 13 central and northern locations from which a CV of less than 16 and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	MEAD NEBRASKA		NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		PRESHO S. DAKOTA		CASSELTON N. DAKOTA		CARRINGTON N. DAKOTA		WILLISTON N. DAKOTA	
NE82656	14	3300	1	4236	2	4533	3	2598	4	5574	1	1634	25	2394	7
NE82651	12	2443	3	3831	4	4484	5	2831	1	5013	11	1849	18	2330	10
RH853514	22	2408	5	3283	13	4300	9	2445	7	5249	5	2093	5	2247	15
RH852515	21	2836	2	3723	6	4516	4	2299	10	5188	7	1887	13	2533	3
NE82652	13	1737	14	3884	3	4537	2	2232	12	5103	9	1548	29	2301	11
PI476975	3	2026	10	3430	10	4074	16	2296	11	5029	10	2172	4	2023	27
SD76598-7	6	2074	9	4316	1	4388	8	2132	17	4986	13	1953	9	2412	6
NE851182	16	1690	15	3640	7	4446	6	2038	18	5256	4	1605	27	2074	25
MT8039	29	1148	22	3337	11	4588	1	2408	8	4412	20	1447	30	2355	8
NE82658	15	2358	6	3764	5	4057	17	2179	15	5230	6	1874	17	2248	14
SD82102	5	2419	4	3281	14	4044	18	2169	16	5521	2	1882	14	2502	5
NA-HW81-459	23	2150	8	3296	12	4085	15	1822	21	5456	3	2190	2	1903	28
SD82195	4	1961	11	3543	9	3966	19	2199	14	5134	8	1894	12	2284	12
ND8002	17	1560	16	3068	18	4126	13	2728	2	4480	18	2311	1	2656	1
MT8030	28	1361	21	3572	8	4174	10	2519	5	4133	23	2175	3	2544	2
XNH1337	25	1365	20	2747	23	3513	25	2483	6	4476	19	1964	8	2283	13
RH846835	20	1522	17	2839	22	4088	14	2358	9	4631	15	1626	26	1673	30
SD82144	7	2275	7	2893	21	4416	7	1318	30	4989	12	2006	6	2113	23
SD76463-16	8	1896	12	3108	16	3909	20	1759	23	4799	14	1910	11	2182	18
XNH1228	24	690	28	2724	24	3429	26	2599	3	4268	21	1699	22	2128	22
XNH1342	26	1060	23	3224	15	4129	11	2224	13	4208	22	1879	16	1796	29
SD791117	9	1453	18	2690	25	4127	12	1360	28	4483	17	1921	10	2074	25
SD82114	10	1881	13	2921	19	3328	28	1657	24	4542	16	1690	23	2085	24
ND8061	18	1060	24	2905	20	3667	22	1612	25	3914	26	1759	20	2353	9
SD79892	11	1370	19	2582	27	3856	21	1576	27	4130	24	1594	28	2200	16
ND8095	19	950	25	3080	17	3531	24	1860	20	3808	27	1686	24	2503	4
MT80122	30	464	29	2034	29	2733	30	1762	22	3420	29	1968	7	2154	20
CI13190	2	787	27	2660	26	3602	23	2020	19	3922	25	1880	15	2132	21
CI1442	1	926	26	2209	28	3359	27	1600	26	3475	28	1740	21	2167	19
MT7877	27	332	30	1720	30	2969	29	1326	29	2424	30	1835	19	2182	17
MEAN		1650		3151		3966		2080		4575		1856		2228	
LSD(.05)		374		580		593		534		447		446		287	
C.V.		13.9		11.3		9.2		15.7		6.0		14.7		9.1	

Table 14. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	ARCHER WYOMING		MOCCASIN MONTANA		LETHBRIDGE ALBERTA		LIND WASHINGTON		WASECA MINNESOTA		ROSEMOUNT MINNESOTA		REGIONAL AVERAGE	
NE82656	14	1357	25	3571	6	3450	10	1565	10	5334	2	3102	15	3281	1
NE82651	12	1616	5	3559	7	3679	4	1560	11	4165	6	3423	7	3137	2
RH853514	22	1355	26	3031	22	3591	6	968	30	5463	1	4078	4	3116	3
RH852515	21	1307	28	3235	15	3621	5	1503	14	4672	3	3116	14	3111	4
NE82652	13	1521	14	3886	2	3778	1	1849	2	3913	7	3795	5	3083	5
PI476975	3	1579	10	3072	21	3463	9	1453	16	3895	8	4342	2	2989	6
SD76598-7	6	1519	15	3460	9	3253	16	1412	20	3886	9	2800	19	2968	7
NE851182	16	1526	13	3025	23	3758	3	1550	12	4242	5	3302	10	2935	8
MT8039	29	1629	4	4010	1	3256	15	1866	1	3303	19	4170	3	2918	9
NE82658	15	1043	30	3108	19	3291	13	1318	23	4422	4	2768	21	2897	10
SD82102	5	1578	11	3522	8	2855	27	1414	19	3698	13	2710	23	2892	11
NA-HW81-459	23	1515	16	2993	24	3489	8	1320	22	3726	11	3318	8	2866	12
SD82195	4	1359	24	3170	16	3110	21	1300	24	3441	17	3277	12	2818	13
ND8002	17	1569	12	2655	30	3129	20	1681	5	3235	20	2851	18	2773	14
MT8030	28	1389	23	3313	12	3201	17	1379	21	3029	23	3232	13	2771	15
XNH1337	25	1601	8	3279	14	3018	23	1749	4	3738	10	3289	11	2731	16
RH846835	20	1392	22	2809	29	3270	14	1197	28	3476	15	4367	1	2711	17
SD82144	7	1588	9	2890	27	3161	18	1224	26	3413	18	2540	24	2679	18
SD76463-16	8	1660	3	2855	28	2882	26	1493	15	3723	12	2493	25	2667	19
XNH1228	24	1805	1	3713	3	3559	7	1802	3	2936	25	3315	9	2667	20
XNH1342	26	1470	18	3310	13	3086	22	1435	18	3461	16	3102	15	2645	21
SD791117	9	1611	7	3441	10	3433	11	1509	13	3200	21	2139	29	2572	22
SD82114	10	1352	27	3380	11	3138	19	1153	29	3632	14	2347	28	2547	23
ND8061	18	1456	20	2981	26	3369	12	1448	17	2874	26	2795	20	2476	24
SD79892	11	1406	21	3624	5	2753	30	1260	25	3049	22	2755	22	2473	25
ND8095	19	1487	17	3128	17	2896	25	1222	27	2959	24	3004	17	2470	26
MT80122	30	1612	6	3692	4	3766	2	1596	7	2443	27	3580	6	2402	27
CI13190	2	1669	2	2992	25	2957	24	1574	9	2105	29	2405	27	2362	28
CI1442	1	1460	19	3084	20	2765	29	1594	8	1631	30	1836	30	2142	29
MT7877	27	1175	29	3114	18	2783	28	1641	6	2138	28	2484	26	2009	30
MEAN		1487		3263		3259		1468		3507		3091		2737	
LSD(.05)		306		648		528		306		776		777		321	
C.V.		12.6		12.2		11.5		12.8		13.5		15.4		12.0	

Table 15. Summary of mean yields (kg/ha) and ranks for 12 wheats grown in the Northern Regional Performance Nursery at 16 sites in 1985 and 1986 with state means and ranks.

C.I. OR SEL. NO.	ENTRY NO.	MEAD NEBRASKA		SIDNEY* NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN		BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO* S. DAKOTA		SOUTH DAKOTA STATE MEAN	
SD76598-7	6	2677	2	3239	2	2977	4	2827	1	4105	3	4187	1	2119	3	4146	1
NA-HW81-459	23	2627	3	3065	5	2681	9	2654	4	4190	2	3452	5	1920	7	3821	4
ND8002	17	1844	6	3129	4	2946	5	2395	7	4012	4	3621	3	2474	1	3816	5
SD82102	5	2693	1	3031	6	2876	6	2785	3	4524	1	3509	4	2026	5	4016	2
PI476975	3	2496	4	3234	3	3082	2	2789	2	3558	8	3061	6	2078	4	3309	6
SD82195	4	2363	5	3283	1	2654	10	2508	5	3819	5	3844	2	1974	6	3831	3
RH846835	20	1574	9	2938	8	3006	3	2290	8	3691	6	2892	7	2266	2	3292	7
ND8061	18	1732	7	2913	9	3198	1	2465	6	3157	10	2447	11	1411	11	2802	11
ND8095	19	1338	11	3015	7	2729	8	2034	11	3225	9	2785	8	1782	9	3005	9
CI13190	2	1590	8	2874	10	2786	7	2188	9	3596	7	2512	10	1907	8	3054	8
MT7877	27	685	12	2374	12	2505	12	1595	12	2578	12	2250	12	1380	12	2414	12
CI1442	1	1522	10	2558	11	2626	11	2074	10	2973	11	2634	9	1741	10	2804	10
MEAN		1928		2971		2839		2384		3619		3137		1923		3359	
LSD(.05)		632		N.S.		N.S.		N.S.		1015		N.S.		422		N.S.	
C.V.		17.6		13.7		18.9		18.8		11.9		21.9		15.1		16.5	

* not included in state or regional averages.

Table 15. Continued.

C.I. OR SEL. NO.	ENTRY NO.	SHERIDAN WYOMING		ARCHER WYOMING		WYOMING STATE MEAN		WASECA MINNESOTA		ROSEMOUNT MINNESOTA		MINNESOTA STATE MEAN		WILLISTON N. DAKOTA	
SD76598-7	6	3292	4	1426	10	2359	4	4789	1	2885	8	3837	1	1715	4
NA-HW81-459	23	3551	1	1536	3	2544	1	4121	5	2906	7	3514	5	1421	11
ND8002	17	3348	3	1618	1	2483	2	4554	3	2987	4	3771	4	1908	1
SD82102	5	2606	10	1508	6	2057	9	4781	2	2839	9	3810	2	1785	3
PI476975	3	2807	6	1511	5	2159	6	3667	8	3099	2	3383	8	1488	10
SD82195	4	2833	5	1331	12	2082	8	4546	4	3031	3	3789	3	1701	5
RH846835	20	3469	2	1443	8	2456	3	2887	12	3305	1	3096	9	1154	12
ND8061	18	2632	9	1479	7	2055	10	3831	7	2956	5	3393	7	1681	7
ND8095	19	2682	8	1516	4	2099	7	3896	6	2930	6	3413	6	1882	2
CI13190	2	2776	7	1601	2	2189	5	3265	9	2273	11	2769	11	1650	8
MT7877	27	2574	11	1435	9	2005	11	3028	10	2729	10	2879	10	1683	6
CI1442	1	2086	12	1385	11	1736	12	2933	11	2044	12	2489	12	1623	9
MEAN		2896		1481		2185		3879		2832		3356		1641	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.		300	
C.V.		16.6		10.6		16.3		14.6		14.9		14.8		10.2	

Table 15. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		NEW MEXICO STATE MEAN		MOCCASIN MONTANA		ABERDEEN IDAHO		LIND WASHINGTON		REGIONAL AVERAGE	
SD76598-7	6	5067	5	2764	7	3916	5	2470	2	5499	7	1540	8	3242	1
NA-HW81-459	23	5252	1	3281	2	4267	2	2120	11	5762	4	1566	6	3176	2
ND8002	17	4316	9	2864	5	3590	9	2190	10	6413	2	1636	2	3161	3
SD82102	5	5228	3	2929	3	4078	3	2390	3	4746	10	1630	4	3146	4
PI476975	3	4509	8	2928	4	3718	6	2340	5	6503	1	1541	7	3042	5
SD82195	4	4849	7	2376	10	3612	8	2282	7	5450	8	1464	9	3039	6
RH846835	20	5230	2	3716	1	4473	1	1995	12	4921	9	1429	11	2908	7
ND8061	18	4858	6	2374	11	3616	7	2253	9	5725	5	1458	10	2841	8
ND8095	19	4184	10	2482	8	3333	10	2376	4	5570	6	1290	12	2777	9
CI13190	2	5121	4	2809	6	3965	4	2273	8	3624	12	1766	1	2689	10
MT7877	27	3658	12	2021	12	2840	12	2526	1	6167	3	1606	5	2532	11
CI1442	1	3959	11	2403	9	3181	11	2286	6	3946	11	1631	3	2432	12
MEAN		4686		2746		3716		2292		5360		1546		2915	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.	
C.V.		12.1		11.8		12.4		14.4		13.1		17.0		15.5	

Table 16. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 30 entries in the 1986 Northern Regional Performance Nursery grown at 22 locations.

C.I. OR SEL. NO.	ENTRY NO.	MEAN YIELD OVER 22 LOCATIONS KG/HA	REGRESSION COEFFICIENT (b)	CORRELATION COEFFICIENT (r)	COEFFICIENT OF DETERMINATION (r^2)
NE82656	14	3637	1.10	0.84	0.70
NE82651	12	3523	1.09	0.93	0.87
RH853514	22	3511	1.10	0.90	0.82
RH852515	21	3489	1.07	0.92	0.85
NE82652	13	3406	1.10	0.95	0.89
NE82658	15	3396	1.25	0.94	0.88
NA-HW81-459	23	3369	1.15	0.96	0.91
NE851182	16	3342	1.17	0.97	0.94
SD76598-7	6	3336	1.14	0.92	0.84
PI476975	3	3335	1.14	0.90	0.80
MT8039	29	3335	1.17	0.95	0.90
RH846835	20	3211	1.06	0.91	0.83
MT8030	28	3186	1.08	0.95	0.91
XNH1337	25	3179	1.03	0.95	0.90
SD76463-16	8	3161	0.99	0.91	0.83
SD82102	5	3160	0.95	0.88	0.78
ND8002	17	3137	0.99	0.91	0.84
SD82195	4	3124	1.09	0.97	0.94
XNH1228	24	3037	0.86	0.87	0.75
SD82144	7	2993	0.97	0.91	0.84
SD82114	10	2965	1.11	0.95	0.91
XNH1342	26	2918	0.87	0.91	0.83
SD791117	9	2896	0.93	0.92	0.85
MT80122	30	2780	0.81	0.79	0.62
ND8061	18	2777	0.92	0.88	0.77
ND8095	19	2749	0.88	0.93	0.87
SD79892	11	2718	0.87	0.93	0.86
CI13190	2	2659	0.65	0.71	0.50
CI1442	1	2358	0.60	0.77	0.60
MT7877	27	2330	0.88	0.72	0.52

Table 17. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 12 entries in the 1985 and 1986 Northern Regional Performance Nurseries grown at 14 locations.

C.I. OR SEL. NO.	ENTRY NO.	MEAN YIELD OVER 14 LOCATIONS KG/HA	REGRESSION COEFFICIENT (b)	CORRELATION COEFFICIENT (r)	COEFFICIENT OF DETERMINATION (r^2)
SD76598-7	6	3242	1.16	0.95	0.90
NA-HW81-459	23	3176	1.07	0.96	0.92
ND8002	17	3161	1.15	0.96	0.93
SD82102	5	3146	1.07	0.94	0.88
PI476975	3	3042	0.99	0.91	0.82
SD82195	4	3039	1.08	0.98	0.95
RH846835	20	2908	0.93	0.87	0.76
ND8061	18	2841	1.06	0.96	0.92
ND8095	19	2777	0.97	0.97	0.94
CI13190	2	2689	0.83	0.88	0.77
MT7877	27	2532	0.92	0.87	0.75
CI1442	1	2432	0.75	0.91	0.83

Table 18. Summary of agronomic and yield data for 30 wheats in the 1986 Northern Regional Performance Nursery.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	DAYS TO RIPENING: FROM 1/1:	LODGING 0-9
	NUMBER OF TRIALS		20	18	1	2
BRULE/3/PKR*4/AGENT//BEL198/LANCER	NE82656	14	84	152	190	6
BRULE//SENTINEL/CENTURK	NE82651	12	88	152	187	6
WINTER WHEAT HYBRID	RH853514	22	87	150	187	5
WINTER WHEAT HYBRID	RH852515	21	86	150	187	6
BRULE//SENTINEL/CENTURK	NE82652	13	83	153	189	3
BRULE/3/PKR*4/AGENT//BEL198/LANCER	NE82658	15	82	152	187	6
THUNDERBIRD (BULK SELECTION)	NA-HW81-459	23	82	151	189	5
BRULE COMPOSITE	NE851182	16	84	153	188	6
CI15322//AGATE/4*SCOUT66/3/CTK78	SD76598-7	6	89	153	188	7
COLT	PI476975	3	77	153	188	2
LANCOTA/FROID//NE69559/WNK	MT8039	29	85	153	189	2
WINTER WHEAT HYBRID	RH846835	20	77	150	187	4
TX65A268/FROID//YTO 117-20/CTK	MT8030	28	82	154	188	3
WINTER WHEAT HYBRID	XNH1337	25	90	153	188	5
CI15322//3*(AGENT/4*SCOUT66)	SD76463-16	8	93	154	188	7
NE70545/NE70537//C0672135/C0662079	SD82102	5	91	152	188	7
CTK//FROID/7759-19	ND8002	17	95	156	189	6
AMIGO/CTK*2//SD74221	SD82195	4	90	154	188	5
WINTER WHEAT HYBRID	XNH1228	24	88	153	189	5
CI15322//AGATE/4*SUT66/3/CTK78/4/SD74221	SD82144	7	88	152	187	8
SD74221*2/LATHROP	SD82114	10	86	153	188	8
WINTER WHEAT HYBRID	XNH1342	26	89	154	189	5
SD75375/0K711248-1	SD791117	9	89	152	187	8
NE63283/6*CHEYENNE	MT80122	30	86	156	189	3
WNK*2/II64-27	ND8061	18	85	155	188	6
WNK/RRR	ND8095	19	93	157	190	4
CI15322//4*(AGENT/4*SCOUT66)	SD79892	11	87	155	191	6
WARRIOR	CI13190	2	95	154	189	7
KHARKOF	CI1442	1	101	156	190	8
NORWIN	MT7877	27	65	157	191	2

Table 18. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	WINTER SURVIVAL %	LEAF RUST SEVERITY %	STEM RUST SEVERITY %	TAN SPOT 0-9	LEAF SPOT 0-9	BACTERIAL LEAF DIS. 0-6	HARVEST INDEX %	VOLUME WEIGHT KG/HL	YIELD KG/HA
NUMBER OF TRIALS		7	3	1	1	1	1	1	21	22
NE82656	14	77	7	0	6	4	2	40.4	76.5	3637
NE82651	12	74	40	0	8	9	5	40.9	77.2	3523
RH853514	22	67	13	1	7.5	7	3	42.4	77.3	3511
RH852515	21	72	34	0	7.5	8	4	37.5	78.3	3489
NE82652	13	69	22	0	5.5	7	5	37.7	75.2	3406
NE82658	15	72	4	0	5.5	6	2	38.2	76.4	3396
NA-HW81-459	23	66	10	10	6	9	2	38.2	78.6	3369
NE851182	16	64	30	0	6	4	3	45.7	74.9	3342
SD76598-7	6	65	7	0	8	6	4	36.2	77.2	3336
PI476975	3	64	25	0	7.5	7	4	43.3	76.6	3335
MT8039	29	72	57	0	5	8	2	43.9	73.7	3335
RH846835	20	60	60	0	6.5	9	3	46.6	75.7	3211
MT8030	28	75	43	0	7.5	8	3	43	76.6	3186
XNH1337	25	68	40	50	6.5	6	5	44.5	74.8	3179
SD76463-16	8	64	24	40	7	8	5	38.8	77.6	3161
SD82102	5	69	20	40	7.5	9	5	46.3	76.6	3160
ND8002	17	76	30	0	7	3	5	41.6	74.9	3137
SD82195	4	64	20	50	6	4	3	34.4	77.6	3124
XNH1228	24	65	45	50	7	8	5	37.5	72.8	3037
SD82144	7	64	30	0	7.5	8	3	43.1	76.3	2993
SD82114	10	62	6	40	8	9	4	44.4	77.2	2965
XNH1342	26	62	62	60	6	6	2	40.1	74	2918
SD791117	9	62	28	40	8	9	5	33.8	76.2	2896
MT80122	30	69	57	60	6	8	4	40.6	73.8	2780
ND8061	18	65	55	60	7	7	4	37.4	76.7	2777
ND8095	19	66	40	40	7	5	5	35.1	77	2749
SD79892	11	63	44	30	8	6	4	35.7	76.9	2718
CI13190	2	64	53	30	6.5	.	4	39.5	75.4	2659
CI1442	1	68	38	60	7.5	7	4	32.7	75.7	2358
MT7877	27	69	47	40	9	9	6	40.3	74.7	2330

Table 19. Reaction of the 1986 Uniform Northern Regional Hard Red Winter Wheat Nursery to selected isolates of Puccinia graminis f. sp. tritici. (By D. V. McVey, USDA, ARS, U. of MN., St. Paul, MN.)

		Reaction produced by isolates								
		70-44-68A	72-00-1370C	69-21-399	71-21-584B	72-25-639C	72-00-53A	75-32-1622A	72-01-4A	74-21-1409A
		29	151			11-32-113			15B-2	
No.	Entry	HJCS	QFBS	QSHS	RHRS	RKQS	RTQQ	RTQS	TNMH	TNMK
1.	Kharkof	S	S	S	S	S	S	S	S	S
2.	Warrior	S	S	S	S	S	S	S	S	S
3.	Colt	2=	0;	2	2	2=	;	2=	0;	0;
4.	SD82195	2	2	23	23	2	;	S	S	S
5.	SD82102	2+	2	2	2	S	S	S	S	S
6.	SD76598-7	2=	0;	2-	2=	1	;	2=	0;	0;
7.	SD2144	2+	0	S	2	S	;,S	S	0;	0;
8.	SD76463-16	2=	S	2	2=	23	;	S	0;	S
9.	SD791117	2	S	23	23	2;S	S	S	S	S
10.	SD82114	0,S	S	S	S	S	S	S	0;,S	S
11.	SD79892	0,S	S	S	S	S	S	2	0;,S	S
12.	NE82651	0	0;	S	S	S	;	S	0;	0;
13.	NE82652	0	0;	S	S	S	;	S	0;	0;
14.	NE82656	2-	0	2	2-	2	0	2-	0;	;
15.	NE82658	2	0	23CN	2,S	2	;	2	0;	;
16.	NE851182	0,2	0	S	S	S	;	S	0;	;
17.	ND8002	0	0	S	2	0	S	S	0;	;
18.	ND8061	S	2	S	S	S	S	S	S	S
19.	NE8095	0	2-	0	S	S	S	S	S	S
20.	RH846835 Hybrid	2=	2=	2	2	2=	2=	2=	2	2-
21.	RH852515 Hybrid	;1	0;,2=	2-	2=	2=	;	2-	0;	;1
22.	RH853514 Hybrid	0	2=	2	2=	2=	2=	2=	1	2-
23.	NA-HW81-459	0	2=	2-	2=	2=	1	2=	2-	2+
24.	XNH1228 Hybrid	S	2,S	S	S	S	S	S	S	S
25.	XNH1337 Hybrid	S,2	2	2	S	2-,S	2-,S	2-,S	2,S	2,S
26.	XNH1342 Hybrid	2+	2+	2	2-	2	23	23	2	S
27.	MT7877 Norwin	0	S	S	S	S	S	S	0;	S
28.	MT8030	0	0;	S	S	S	;	S	S	0;
29.	MT8039	0	0	S	S	S	S	S	S	0;
30.	MT80112	0	S	S	S	S	S	S	S	S

Table 20. Field reaction of the 1986 Uniform Northern Regional Hard Red Winter Wheat Performance Nursery to Puccinia graminis f. sp. tritici and Puccinia recondita. (By D. V. McVey, USDA, ARS, U. of MN., St. Paul, MN.)

No.	Entry	Leaf rust 6/20	Leaf rust 7/1	Stem rust 7/3
1.	Kharkof	5-20S	60S	60S
2.	Warrior	30S	80S	60S
3.	Colt	5-20S	60S	TM-TR
4.	SD82195	TMS	TMS,40S	40S
5.	SD82102	TMS	30MS-S	20S
6.	SD76598-7	TMS	60S	TR
7.	SD2144	TS-5S	40MS-S	TR
8.	SD76463-16	TS-5S	40S	30S
9.	SD791117	20-60S	60S	40MS-S
10.	SD82114	TS-40S	60S	40MS-S
11.	SD79892	TS-5S	60S	TMS
12.	NE82651	10S	60S	60S
13.	NE82652	10S	60S	TS
14.	NE82656	5MS	TMS	TMS
15.	NE82658	TMS	40S	5MS
16.	NE851182	20S	60S	40MS-S
17.	ND8002	TS-5S	80S	40S
18.	ND8061	10-40S	80S	20MS-S
19.	ND8095	TS	80S	TMS-S
20.	RH846835 Hybrid	60S	80S	20MR-MS
21.	RH852515 Hybrid	TMS	60S	5R-MR
22.	RH853514 Hybrid	0	10MS-S	5R-MR
23.	NA-HW81-459	TMS	10MS-S	5R-MR
24.	XNH1228 Hybrid	10S	80S	40MS-S
25.	XNH1337 Hybrid	TS	80S	30S
26.	XNH1342 Hybrid	TS-60S	60S	30MS-S
27.	MT7877 Norwin	80S	80S	10MS-S
28.	MT8030	80S	80S	30S
29.	MT8039	10-40S	80S	20S
30.	MT80112	20-60S	60S	60S

Table 21. Hessian fly reaction, Great Plains biotype, 1986 Northern Regional Performance Nursery. (Data provided by J. H. Hatchett, Manhattan, KS.)

Entry no.	Reaction type	No. plants	
		R	S
1	S		
2	S		
3	H	3	17
4	S		
5	S		
6	S		
7	S		
8	S		
9	H	6	14
10	S		
11	S		
12	S		
13	S		
14	S		
15	H	7	14
16	S		
17	S		
18	S		
19	S		
20	S		
21	S		
22	S		
23	S		
24	S		
25	S		
26	S		
27	S		
28	S		
29	S		
30	S		

QUALITY DATA

Composites of 1-lb samples of each SRPN and NRPN entry from each harvested nursery site are evaluated at the Hard Red Winter Wheat Quality Laboratory at Manhattan, Kansas. Results are reported to cooperators by the laboratory and are not included in this report.

UNIFORM WINTERHARDINESS NURSERIES

The nurseries are comprised of Southern and Northern Materials Sections. In 1986 the Southern Section contained 182 entries and the Northern Section 127 entries. Nursery lists and survival data from test sites at which differential winter survival occurred appear in the tabulations that follow.

SOIL-BORNE MOSAIC NURSERY

The nursery contained 123 entries in 1986. Infection data were reported only from Lincoln, NE. The nursery list and reaction data are included herein.

1986
Uniform Winterhardiness Nursery
Southern Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Warrior	CI13190	Check
2	Pm4/3*Cheney/3/OD/2*Eagle//Pn/Durum	KS82H238-1-1	Kansas (Hays)
3	" "	KS82H238-1-2	"
4	" "	KS82H238-1-3	"
5	" "	KS82H238-1-4	"
6	Bsn/Sterling//3*Scout/3/Eagle/4/ Pnn/2*Eagle	KS84HW196	"
7	Sage/Salmon/3/Larned/Eagle//Sage/4/TAM105	KS85H21	"
8	" "	KS85H22	"
9	" "	KS85H43	"
10	Scout 66	CI13996	Check
11	TAM105//Sage/Arthur	KS85H53	Kansas (Hays)
12	" "	KS85H60	"
13	" "	KS85H79	"
14	" "	KS85H95	"
15	" "	KS85H136	"
16	" "	KS85H141	"
17	" "	KS85H247	"
18	" "	KS85H274	"
19	Bounty Experimental 22222	BoX22222	Cargill
20	Vona	CI17441	Check
21	74F878/Wings//Vona	C0820009	Colorado
22	74F943/2*Trapper	C0820014	"
23	" "	C0820016	"
24	74CB52/Vona//Baca	C0830014	"
25	74CB462/Ctk//Vona	C0830019	"
26	74CB462/Tpr//Vona	C0830025	"
27	" "	C0830027	"
28	C05926/7CXTob63//Baca	C0830033	"
29	" "	C0830034	"
30	Warrior	CI13190	Check
31	C05926/7CXTob63//Baca	C0830038	Colorado
32	C0724377/W332//C0533147	C0830094	"
33	Cno'S'/Gallo//Vona/3/Tpr	C0830099	"
34	" "	C0830100	"
35	Pci/Lcr//Vona	C0830120	"
36	" "	C0830121	"
37	74CB378/Tpr//Vona	C0830127	"
38	74CB428/Baca//Vona	C0830142	"
39	Nwt/4/TAM105/3/Pv//Ctk/SD69105	X803-4-2	Kansas (Manhattan)
40	Scout 66	CI13996	Check
41	Nwt/4/TAM105/3/Pv//Ctk/SD69105	X803-4-3	Kansas (Manhattan)
42	Nwt//Pkr76/TAM105	X809-3-2	"
43	" "	X809-3-7	"
44	" "	X809-3-8	"
45	" "	X809-3-9	"

UWHN, So. Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
46	KS79467/NE78668	XGH8010-2-4	Kansas (Manhattan)
47	" "	XGH8010-1-2	"
48	" "	XGH8010-1-4	"
49	KS79468/Nwt	XGH8017-2-1	"
50	Vona	CI17441	Check
51	Nwt/3/Vona//KS73148/Pv	X8028-2-2	Kansas (Manhattan)
52	" "	X8028-4-4	"
53	Vona//KS75210/TAM101	X8034-5-5	"
54	TAM105/3/Pv//KS73199/Pv	X8053-4-2	"
55	TAM105/3/Nwt//Pv/NE76704	X8070-2-3	"
56	TX71A916-3/KS79379	XGH80162-1-14	"
57	TX71A916-3/KS79466	XGH80165-2-1	"
58	Bulk Selection	TB-2	"
59	"	TB-5	"
60	Warrior	CI13190	Check
61	Bulk Selection	TB-32	Kansas (Manhattan)
62	"	TB-94	"
63	"	TB-107	"
64	"	TB-108	"
65	"	TB-111	"
66	"	TB-143	"
67	"	TB-146	"
68	"	TB-148	"
69	"	TB-152	"
70	Scout 66	CI13996	Check
71	Bulk Selection	TB-175	Kansas (Manhattan)
72	"	TB-181	"
73	"	TB-186	"
74	"	TB-187	"
75	"	TB-212	"
76	"	TB-215	"
77	"	TB-217	"
78	Pv/KS75216	KS7811-8	"
79	Pv/TAM105	KS789-28	"
80	Vona	CI17441	Check
81	Pv/TAM101	KS787-12	Kansas (Manhattan)
82	Nwt/NE76696	KS7866-16	"
83	"	KS7866-15	"
84	KS75216//Nwt/Purdue Hi Protein	KS78151-6	"
85	Pkr76/Nwt'S'	KS79238-2	"
86	Nwt/NE76696	KS7866-11	"
87	Experimental line	AGC-107	Agrigenetics
88	"	AGC-108	"
89	"	AGC-109	"
90	Warrior	CI13190	Check
91	Tobari 66/2*(Wrr/Minn III-54-12)// Scout sel./3/Lindon sel./4/Gage/Lancer /Homestead	NE82413	Nebraska
92	" "	NE82414	"

UWHN, So. Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
93	Trapper//Cmn/Ot/3/CIMMYT/ Sut/4/Buckskin Sib/Homestead	NE82419	Nebraska
94	HiPlains/Wings/3/Parker*4/Agent// Beloterkovskaia 198/Lcr	NE82438	"
95	CIMMYT/Scout//Agate/Sage Sib.	NE82533	"
96	391-56-D1-8/Tsc//Homestead/Buckskin sel.	NE82558	"
97	Vogel Sel. 14X53-101/Trapper//391-56-D8 /Kaw/3/Parker*4/Agent//Belot. 198/Lcr	NE82565	"
98	Brule//Sentinel/Centurk	NE82651	"
99	" "	NE82652	"
100	Scout 66	CI13996	Check
101	Brule/3/Parker*4/Agent//Belot. 198/Lcr	NE82656	Nebraska
102	" "	NE82658	"
103	CIMMYT/Scout//Bennett Sib/4/Parker*4/ Agent//Belot. 198/Lcr/3/Bezostaia 1/ Centurk 78	NE83404	"
104	" "	NE83406	"
105	" "	NE83407	"
106	Wrr*5/Agent//Kavkaz/4/Parker*4 /Agent//Belot. 198/Lcr/3/Vona	NE83498	"
107	CIMMYT/Scout/3/Gage/Lancer//Homestead/4/ 391-56-D1-8/Tsc//NE68405/3/Bez.1 /Centurk 78	NE83703	"
108	Lindon Sel./Bennett Sib.	NE83718	"
109	Capitan//391-56-D1-8/Tsc/3/Sentinel/Ctk	NE82599	"
110	Vona	CI17441	Check
111	Favorit/5/Cirpiz/4/Jang Kwang//At166/Cmn /3/Velvet/6/Wrr*5/Agent//Kavkaz	NE84413	Nebraska
112	Bez 1/Centurk 78//Arthur/Centurk/3/Brule	NE84471	"
113	Bez 1/Centurk 78//Arthur/Centurk 78 /3/Yubiley	NE84486	"
114	Tp/3/SS/CI12500//Pn/Cnn/4/Arthur/Centurk 78 /5/Centurk/Kavkaz	NE84501	"
115	Tp/3/SS/CI12500//Pn/Cnn/4/Arthur/Centurk 78 /5/Tascosa/T1//Parker	NE84503	"
116	TP/3/SS/CI12500//Pn/Cnn/4/Arthur/Centurk 78 /5/Brule	NE84504	"
117	TX62A2607-6/MV-B-1/5/Tp/3/SS/CI12500//Pn/ Cnn/4/Arthur/Centurk 78	NE84517	"
118	" "	NE84519	"
119	" "	NE84521	"
120	Warrior	CI13190	Check
121	Jubiley/3/Wrr*5/Agent//Kavkaz	NE84542	Nebraska
122	Wrr/Sut//MoW6811/3/Agate Sib/4/NE68457/ Centurk 78	NE84557	"
123	Bez 1/Centurk 78//Arthur/Centurk78 /3/Bennett	NE84579	"
124	" "	NE84581	"
125	" "	NE84582	"

UWHN, So. Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
126	" "	NE84584	Nebraska
127	" "	NE84591	"
128	Bez 1/Centurk 78//Arthur/Centurk 78 /3/Agate	NE84594	"
129	Bez 1/Centurk 78//Arthur/Centurk/3/Mara/ 2*Sut/Homestead	NE84617	"
130	Scout 66	CI13996	Check
131	Tp/3/SS/CI12500//Pn/Cnn/4/Arthur/Centurk 78 /5/Brule	NE84629	Nebraska
132	Favorit/5/Cirpiz/4/Jang Kwang//Atl66/Cmn /3/Velvet/6/Bez 1/Centurk 78//Arthur /Centurk 78/7/Bez 1/Centurk 78//Arthur /Centurk 78	NE84637	"
133	Kharkof	CI1442	Check
134	Scout 66	CI13996	"
135	TAM-105	CI17826	"
136	Plainsman V/3/2*Larned/Eagle//Sage	KS82H4	Kansas
137	KS73H530//Sage/Arthur	KS82H144	"
138	Plainsman V/Odesskya 51	KS831957	"
139	Plainsman V/3/Kaw/Atl 50//Pkr*5/Ag	KS831374	"
140	Vona	CI17441	Check
141	Nwt/3/Pkr*5/Ag//Atl 50	KS831203	Kansas
142	Winter Wheat Composite	KS82C2009	"
143	Payne//TAM W-101/Amigo	OK81322	Oklahoma
144	Aurora/2*TAM W-101	OK83396	"
145	" "	OK83398	"
146	Vona//Chisholm/Plainsman V	OK83201	"
147	Amigo sib/2*Newton	OK82377	"
148	TX71A1039-V1*3/Amigo	TX81V6180	Texas
149	" "	TX81V6183	"
150	Warrior	CI13190	Check
151	" "	TX81V6187	Texas
152	TAM-105/TAM W-101	TX80A4135-6	"
153	MV69-12/TAM W-103	TX78A3345-V42	"
154	TAM W-101/Newton	TX80A5172-4	"
155	Short Wheat/Scout (TX69A509-2)//Fox	TX78V2430-36	"
156	TX73V203*3/Amigo	TX81V5581	"
157	TAM W-101/Ctk//Amigo	TX80A5901-1	"
158	TX68D5194/Osage	TX84V1227	"
159	MV-69-12/TAM W-103	TX84A7608	"
160	Scout 66	CI13996	Check
161	Mex Dw/Baca//Vona	C0820026	Colorado
162	Anza/Scout//Centurk	C0810010	"
163	Brule Composite	NE851182	Nebraska
164	Wrr*5/Agent//Ctk 78	NE77465	"
165	Wrr*5/Agent//Aurora/3/Centurk 78	NE78488	"
166	Experimental line	AGC-101	Agrigenetics
167	" "	AGC-102	"
168	" "	AGC-106	"
169	" "	AGC-110	"

UWHN, So. Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
170	Vona	CI17441	Check
171	Winter Wheat Hybrid	RH845202	Rohm & Haas
172	" "	RH855001	"
173	" "	RH855002	"
174	OK11252A/HW76-1226	NA-HW81-170	NAPB
175	" "	NA-81-362-5	"
176	" "	NA-81-171-14	"
177	TAM-105/Chisholm Hybrid	SDG-1001	Shell Dev.
178	Bounty Hybrid	Bounty-205	Cargill
179	Bounty Hybrid	Bounty-301	"
180	Winter Wheat Hybrid	XH216a	HybriTech
181	" "	XH551	"
182	Warrior	CI13190	Check

1986 UNIFORM WINTERHARDINESS NURSERY - SOUTHERN SECTION

% Winter Survival

Entry No.	St. Paul, MN			Brookings, SD			Casselton, ND	Mead, NE			Grand
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Mean (2 reps)	Rep 1	Rep 2	Mean	Mean
1	90	95	92	90	10	50	100	100	100	100	86
2	100	90	95	30	10	20	100	100	100	100	79
3	95	100	98	50	30	40	100	100	100	100	84
4	90	95	92	40	30	35	100	90	100	95	80
5	100	100	100	30	20	25	100	95	95	95	80
6	100	100	100	30	70	50	100	100	100	100	88
7	100	95	98	70	20	45	100	100	100	100	86
8	100	100	100	60	80	70	100	100	100	100	92
9	100	95	98	80	20	50	100	100	100	100	87
10	100	100	100	80	60	70	100	100	100	100	92
11	100	100	100	70	60	65	100	100	100	100	91
12	100	100	100	80	60	70	100	100	100	100	92
13	100	100	100	70	80	75	100	100	100	100	94
14	95	100	98	90	80	85	100	100	100	100	96
15	95	100	98	70	60	65	100	100	100	100	91
16	95	100	98	80	80	80	100	100	100	100	94
17	100	100	100	70	80	75	95	100	100	100	92
18	100	100	100	50	70	60	95	100	100	100	89
19	100	100	100	70	70	70	100	100	100	100	92
20	100	100	100	80	60	70	100	70	90	80	88
21	100	100	100	80	70	75	100	100	100	100	94
22	100	100	100	90	0	45	100	100	100	100	86
23	100	100	100	70	10	40	100	100	100	100	85
24	100	100	100	60	20	40	100	80	100	90	82
25	100	100	100	80	10	45	100	70	50	60	76
26	100	100	100	70	50	60	100	80	100	90	88
27	95	100	98	80	60	70	100	90	90	90	90
28	100	100	100	70	60	65	100	90	100	95	90
29	90	100	95	60	50	55	100	95	100	98	87
30	100	100	100	50	70	60	100	95	100	98	90
31	100	100	100	40	70	55	100	100	100	100	89
32	95	100	98	10	10	10	100	100	100	100	77
33	100	100	100	20	80	50	100	100	100	100	88
34	100	100	100	10	60	35	100	80	60	70	76
35	100	100	100	10	60	35	100	90	80	85	80
36	100	100	100	20	70	45	100	90	90	90	84
37	100	100	100	40	--	--	100	100	100	100	85
38	100	100	100	30	--	--	100	100	100	100	82
39	95	100	98	50	--	--	100	100	100	100	87
40	85	100	92	60	--	--	100	100	100	100	88
41	85	100	92	50	--	--	100	90	100	95	84
42	95	100	98	60	--	--	100	85	100	92	88
43	100	100	100	60	--	--	100	100	100	100	90
44	95	100	98	70	--	--	100	90	100	95	91
45	100	100	100	60	40	50	95	90	100	95	85
46	100	100	100	80	40	60	100	100	100	100	90
47	100	100	100	50	40	45	100	100	100	100	86
48	100	100	100	60	40	50	95	100	100	100	86
49	100	100	100	60	50	55	95	95	100	98	87
50	100	100	100	60	50	55	100	90	90	90	86

Entry No.	St. Paul, MN			Brookings, SD			Casselton, ND	Mead, NE			Grand
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Mean (2 reps)	Rep 1	Rep 2	Mean	Mean
51	100	100	100	50	50	50	100	100	100	100	88
52	100	100	100	30	50	40	100	95	95	95	84
53	100	100	100	70	50	60	100	100	95	98	90
54	100	100	100	70	60	65	100	100	100	100	91
55	95	100	98	60	30	45	100	100	100	100	86
56	95	100	98	30	50	40	100	100	100	100	84
57	100	100	100	60	60	60	100	100	100	100	90
58	95	100	98	20	0	10	95	90	95	92	74
59	85	100	92	20	0	10	95	100	100	100	74
60	95	100	98	20	60	40	95	100	100	100	83
61	95	100	98	30	20	25	100	95	90	92	79
62	100	100	100	70	30	50	100	100	100	100	88
63	95	100	98	30	10	20	100	100	100	100	80
64	95	100	98	10	0	5	100	80	90	85	72
65	95	100	98	70	50	60	100	100	100	100	90
66	100	100	100	80	50	65	100	100	100	100	91
67	85	100	92	60	40	50	100	100	100	100	86
68	60	100	80	10	10	10	100	95	100	98	72
69	90	100	95	10	10	10	100	100	100	100	76
70	100	100	100	40	60	50	100	100	100	100	88
71	95	100	98	20	20	20	100	100	100	100	80
72	95	100	98	30	20	25	100	95	100	98	80
73	100	100	100	50	30	40	100	95	100	98	84
74	100	100	100	10	50	30	95	95	95	95	80
75	100	100	100	40	10	25	95	100	100	100	80
76	95	100	98	60	60	60	100	95	95	95	88
77	100	100	100	80	70	75	100	100	95	98	93
78	90	100	95	10	0	5	100	90	95	92	73
79	100	100	100	40	40	40	95	100	95	98	83
80	100	100	100	60	40	50	100	90	90	90	85
81	95	100	98	30	60	45	100	95	95	95	84
82	100	100	100	40	10	25	100	100	100	100	81
83	95	100	98	50	50	50	100	100	100	100	87
84	90	100	95	10	10	10	95	100	100	100	75
85	95	100	98	20	20	20	100	100	100	100	80
86	100	100	100	50	30	40	100	100	100	100	85
87	100	100	100	70	30	50	100	100	100	100	88
88	100	100	100	40	40	40	100	50	50	50	72
89	100	100	100	50	40	45	95	80	95	88	82
90	100	100	100	50	40	45	100	100	95	98	86
91	100	100	100	60	40	50	100	100	100	100	88
92	100	100	100	80	30	55	100	100	100	100	89
93	100	100	100	90	60	75	100	100	100	100	94
94	100	100	100	40	80	60	100	100	100	100	90
95	100	100	100	40	60	50	100	100	100	100	88
96	100	100	100	70	50	60	100	100	100	100	90
97	100	100	100	70	70	70	100	100	100	100	92
98	95	100	98	90	70	80	100	100	100	100	94
99	100	100	100	90	70	80	100	100	100	100	95
100	100	100	100	90	70	80	100	100	100	100	95

Entry No.	St. Paul, MN			Brookings, SD			Casselton, ND	Mead, NE			Grand
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Mean (2 reps)	Rep 1	Rep 2	Mean	Mean
101	100	100	100	70	80	75	100	100	100	100	94
102	100	100	100	80	40	60	95	100	100	100	89
103	100	100	100	70	30	50	100	100	100	100	88
104	100	100	100	70	40	55	100	100	100	100	89
105	100	100	100	80	10	45	95	100	100	100	85
106	100	100	100	50	60	55	100	100	100	100	89
107	100	100	100	70	50	60	100	100	100	100	90
108	100	100	100	90	50	70	100	100	100	100	92
109	100	100	100	90	70	80	100	100	100	100	95
110	100	100	100	60	40	50	100	60	80	70	80
111	90	100	95	40	70	55	100	60	90	75	81
112	100	100	100	80	80	80	100	100	100	100	95
113	100	100	100	60	90	75	95	100	100	100	92
114	100	100	100	30	60	45	100	100	100	100	86
115	90	100	95	60	70	65	100	100	100	100	90
116	95	100	98	80	80	80	100	100	100	100	94
117	100	100	100	80	60	70	100	100	100	100	92
118	100	100	100	80	60	70	95	100	100	100	91
119	100	100	100	90	40	65	100	100	100	100	91
120	100	100	100	80	30	55	100	100	100	100	89
121	100	100	100	70	10	40	100	90	100	95	84
122	100	100	100	80	10	45	100	100	100	100	86
123	100	100	100	90	80	85	100	100	100	100	96
124	100	100	100	90	60	75	100	100	100	100	94
125	100	100	100	70	60	65	100	100	100	100	91
126	100	100	100	80	80	80	95	100	100	100	94
127	100	100	100	70	60	65	100	100	100	100	91
128	100	100	100	60	30	45	100	100	100	100	86
129	100	100	100	80	70	75	100	100	100	100	94
130	100	100	100	70	60	65	100	100	100	100	91
131	100	100	100	70	60	65	95	100	100	100	90
132	100	100	100	90	60	75	95	100	100	100	92
133	100	100	100	90	60	75	100	100	100	100	94
134	100	100	100	90	70	80	100	100	100	100	95
135	80	100	90	90	60	75	100	100	100	100	91
136	80	100	90	10	20	15	100	100	100	100	76
137	100	100	100	0	10	5	100	100	100	100	76
138	95	100	98	80	80	80	100	100	100	100	94
139	100	100	100	80	60	70	100	100	100	100	92
140	95	100	98	80	0	40	100	100	95	98	84
141	100	100	100	10	0	5	90	90	100	95	72
142	100	100	100	90	20	55	95	100	100	100	88
143	100	100	100	80	40	60	100	100	100	100	90
144	100	100	100	50	10	30	100	100	90	95	81
145	100	100	100	70	30	50	100	100	100	100	88
146	100	100	100	70	10	40	100	100	100	100	85
147	100	100	100	60	10	35	100	100	100	100	84
148	100	100	100	60	10	35	100	100	100	100	84
149	100	100	100	40	70	55	100	100	100	100	89
150	100	100	100	70	80	75	100	100	90	95	92

Entry No.	St. Paul, MN			Brookings, SD			Casselton, ND	Mead, NE			Grand
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Mean (2 reps)	Rep 1	Rep 2	Mean	Mean
151	100	100	100	40	40	40	100	100	100	100	85
152	100	100	100	80	40	60	100	100	100	100	90
153	100	100	100	80	60	70	100	100	100	100	92
154	100	100	100	40	50	45	100	100	100	100	86
155	100	100	100	0	0	0	75	80	90	85	65
156	100	100	100	90	70	80	100	100	100	100	95
157	100	100	100	90	--	--	100	100	100	100	98
158	100	100	100	20	--	--	95	90	90	90	76
159	100	100	100	80	--	--	100	100	100	100	95
160	100	100	100	80	--	--	100	100	100	100	95
161	100	100	100	70	--	--	100	100	100	100	92
162	100	100	100	70	--	--	100	100	100	100	92
163	100	100	100	90	--	--	100	100	100	100	98
164	100	100	100	90	--	--	100	100	100	100	98
165	100	100	100	80	70	75	100	100	100	100	94
166	100	100	100	80	40	60	100	100	100	100	90
167	100	100	100	70	20	45	100	100	100	100	86
168	100	100	100	40	50	45	100	100	95	98	86
169	100	100	100	40	10	25	100	100	100	100	81
170	100	100	100	10	10	10	100	100	100	100	78
171	100	100	100	70	70	70	100	100	100	100	92
172	100	100	100	90	70	80	100	100	100	100	95
173	100	100	100	60	60	60	100	100	100	100	90
174	100	100	100	60	30	45	100	100	100	100	86
175	100	100	100	10	40	25	100	100	100	100	81
176	100	100	100	70	20	45	100	100	100	100	86
177	100	100	100	90	60	75	100	100	100	100	94
178	100	100	100	80	10	45	100	100	100	100	86
179	100	100	100	90	60	75	100	100	100	100	94
180	95	100	98	10	70	40	95	100	100	100	83
181	100	100	100	60	80	70	100	100	100	100	92
182	100	100	100	30	40	35	100	100	100	100	84

1986
Uniform Winterhardiness Nursery
Northern Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Norstar	CI17735	Check
2	Amigo/2*Centurk78//SD74221	SD82195	South Dakota
3	SD75375/OK711248-1	SD791109	"
4	Centurk78*2/Hand	SD74221-15	"
5	Minter/PI117807//Centurk78	SD75465-108	"
6	CI15322/T.spelta//Fletcher/3/6*Centurk78	SD76463-4	"
7	CI15322//Agent/4*Scout66/3/SD71311-8	SD76501-28-1	"
8	SD76560/SD75375	SD82143	"
9	CI15322//Agent/4*Scout66/3/Centurk78 /4/SD74221	SD82147	"
10	Warrior	CI13190	Check
11	Centurk78*3/Hand//SD75375	SD79342	South Dakota
12	Amigo/2*Centurk78//Rose	SD82118	"
13	CI15322//Agent/4*Scout66/3/Centurk78 /4/SD74221	SD82153	"
14	" "	SD82146	"
15	" "	SD82150	"
16	CI15322//4*(Agent/4*Scout66)	SD79892	"
17	SD73233-3//Predogorma/Cheney	SD82107	"
18	CI15322//Agent/4*Scout66/3/Centurk78 /4/SD74221	SD82145	"
19	CI82176/T.spelta//Fletcher/3/6*Centurk78	SD82176	"
20	Centurk 78	CI17724	Check
21	Winoka/TX71A30	SD78106-1	South Dakota
22	Payne/SD75269	SD78178-2	"
23	Agate//Roughrider/Era	SD80299-10	"
24	MT8045/MN2313	SD81788-40	"
25	TX73V169/SD75284	SD80292-3	"
26	OK78058/ND7593	SD801073-3	"
27	Buckskin//TX71A30/3*Winoka	SD80262-28	"
28	Rita/ND7597	SD80493-2	"
29	Buckskin/MT7904	SD80275-13	"
30	Norstar	CI17735	Check
31	Rocky/ND7628	SD80225-1	South Dakota
32	Centurk78*5/Hand	SD76709-2	"
33	Amigo/2*Centurk78//Rose	SD82119	"
34	Roughrider/SD74209	SD81134-5	"
35	SD76669*2/KS71591	SD79123-1	"
36	Buckskin/SD74221	SD80259-18	"
37	SD76169/TX71A968-9	SD78215-1	"
38	Buckskin/TX71A30/2*Roughrider	SD80264-18	"
39	SD75125-1/SD74221	SD80989-2	"
40	Warrior	CI13190	Check
41	SD76109/Rose	SD78207-3	South Dakota
42	Roughrider/C0778766	SD80107-7	"
43	ND7747/Rose	SD801047-3	"

UWHN, No. Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
44	Ellar/Bennett//SD75393/Rose	SD79215-3	South Dakota
45	Buckskin/ND7659	SD80261-4	"
46	Buckskin//YTO-117/Alabas.	SD79206-6	"
47	Buckskin/SD74221	SD80259-23	"
48	OK78047/ND7796	SD801090	"
49	OK78058/ND7593	SD81073-1	"
50	Centurk 78	CI17724	Check
51	ND7747/Rose	SD801047-1	South Dakota
52	SD75375/SD76367	SD77202-2	"
53	ND7796/SD74221	SD801109	"
54	Rita/ND7597	SD80493-3	"
55	Centurk78*2/Hand//TX71A911	SD80185-1	"
56	Centurk78*5/Hand	SD76709-2	"
57	Lancer/ND7622	SD80307-3	"
58	Roughrider/C0778766	SD80107-5	"
59	ND7752//Roughrider/SD74221	SD801065-2	"
60	Norstar	CI17735	Check
61	SD74223//Roughrider/SD74221	SD80953-2	South Dakota
62	Denton157-44-200/SD5681	SD81639-54	"
63	PI94501/PI254078	SD811716-36	"
64	Lancer/ND7622	SD80307-1	"
65	NE74649//TX71A30/3*Roughrider	SD80353-1	"
66	Rita/MT77002	SD80502-6	"
67	SD76109/Rose	SD78207-4	"
68	Protor/3/Bennett//SD75269/Rose	SD79213-8	"
69	Rrr/ND74108	ND8212	North Dakota
70	Warrior	CI13190	Check
71	Rrr/ND75119	ND8215	North Dakota
72	Rrr/ND75120	ND8275	"
73	Rrr/ND75132	ND8276	"
74	Rrr*2/MN7125	ND8314	"
75	Rrr*2/MN7170	ND8315	"
76	Rrr/MT7216	ND8359	"
77	Rrr/SD74212	ND8360	"
78	Rrr/ND7507	ND8367	"
79	Rrr/ND75115	ND8370	"
80	Centurk 78	CI17724	Check
81	Rrr/ND75141	ND8372	North Dakota
82	Rrr/ND7615	ND8373	"
83	Rrr/ND7656	ND8374	"
84	Rrr/ND7656	ND8375	"
85	Rrr/ND7677	ND8378	"
86	Wnk/XR77234	ND8382	"
87	Ctk/ND7771	ND83101	"
88	Rrr/ND7601	ND83111	"
89	Rrr/ND7601	ND83113	"
90	Norstar	CI17735	Check
91	Ctk/ND7735//Ctk/ND7723	ND83130	North Dakota
92	Rrr/FO.1527//Ctk/ND7624	ND83135	"
93	Wnk/ND7719//Rrr/ND73644	ND83137	"
94	Kharkof	CI1442	Check

UWHN, No. Section

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
95	Warrior	CI13190	Check
96	Colt	PI476975	"
97	Amigo/Ctk*2//SD74221	SD82195	So. Dakota
98	NE70545/NE70537//C0672135/C0662079	SD82102	"
99	CI15322//Agate/4*Scout66/3/Ctk 78	SD76598-7	"
100	Warrior	CI13190	Check
101	CI15322//Agate/4*Scout66/3/Ctk 78 /4/SD74221	SD82144	So. Dakota
102	CI15322//3*(Agent/4*Scout66)	SD76463-16	"
103	SD75375/OK711248-1	SD791117	"
104	SD74221*2/Lathrop	SD82114	"
105	CI15322//4*(Agent/4*Scout66)	SD79892	"
106	Brule//Sentinel/Centurk	NE82651	Nebraska
107	" "	NE82652	"
108	Brule/3/Pkr*4/Agent//Beloferkovskaia198 /Lancer	NE82656	"
109	" "	NE82658	"
110	Centurk 78	CI17724	Check
111	Brule Composite	NE851182	Nebraska
112	Ctk//Froid/7759-19	ND8002	No. Dakota
113	Wnk*2/II64-27	ND8061	"
114	Wnk/Rrr	ND8095	"
115	Winter Wheat Hybrid	RH846835	Rohm & Haas
116	" "	RH852515	"
117	" "	RH853514	"
118	Thunderbird (Bulk selection)	NA-HW81-459	NAPB
119	Winter Wheat Hybrid	XNH1228	HybriTech
120	Norstar	CI17735	Check
121	" "	XNH1337	HybriTech
122	" "	XNH1342	"
123	Norwin	MT7877	Montana
124	TX65A268/Froid//YTO 117-20/Ctk	MT8030	"
125	Lancota/Froid//NE69559/Wnk	MT8039	"
126	NE63283/6*Cheyenne	MT80122	"
127	Warrior	CI13190	Check

1986 UNIFORM WINTERHARDINESS NURSERY - NORTHERN SECTION

% Winter Survival

Entry No.	St. Paul, MN			Brookings, SD			Williston, ND			Grand Mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
1	100	100	100	70	80	75	95	90	93	89
2	100	100	100	90	80	85	25	90	58	81
3	100	100	100	90	80	85	10	75	42	76
4	100	100	100	90	90	90	5	50	28	73
5	100	100	100	50	30	40	40	75	58	66
6	100	100	100	60	70	65	5	60	32	66
7	100	100	100	50	90	70	10	30	20	63
8	100	100	100	80	90	85	1	0	0	62
9	100	100	100	90	90	90	5	50	28	73
10	100	100	100	70	80	75	20	50	35	70
11	100	100	100	80	90	85	10	60	35	73
12	100	100	100	80	70	75	10	90	50	75
13	100	100	100	90	95	92	10	70	40	77
14	100	100	100	60	80	70	20	85	52	74
15	100	100	100	70	90	80	40	80	60	80
16	100	100	100	70	90	80	15	50	32	71
17	100	100	100	100	80	90	15	25	20	70
18	100	100	100	70	90	80	5	40	22	67
19	100	100	100	70	60	65	10	60	35	67
20	100	100	100	90	80	85	0	20	10	65
21	100	100	100	70	60	65	20	70	45	70
22	100	90	95	80	70	75	5	40	22	64
23	100	100	100	70	80	75	1	20	10	62
24	100	100	100	90	60	75	5	40	22	66
25	100	100	100	50	80	65	15	70	42	69
26	100	100	100	70	80	75	5	40	22	66
27	100	100	100	70	70	70	15	60	38	69
28	100	100	100	30	70	50	15	40	28	59
29	100	100	100	30	70	50	5	50	28	59
30	100	100	100	50	70	60	75	90	82	81
31	100	100	100	50	70	60	10	50	30	63
32	100	100	100	50	90	70	5	50	28	66
33	100	100	100	50	90	70	10	40	25	65
34	100	100	100	50	90	70	75	85	80	83
35	100	95	98	10	70	40	10	60	35	58
36	100	100	100	50	80	65	10	75	42	69
37	100	100	100	20	80	50	25	80	52	67
38	100	100	100	40	90	65	40	85	62	76
39	100	100	100	70	90	80	15	70	42	74
40	100	100	100	60	70	65	20	60	40	68

Entry No.	St. Paul, MN			Brookings, SD			Williston, ND			Grand Mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
41	100	100	100	70	70	70	30	90	60	77
42	100	100	100	80	70	75	85	95	90	88
43	100	100	100	60	50	55	50	80	65	73
44	70	100	85	90	60	75	30	80	55	72
45	100	100	100	100	70	85	25	50	38	74
46	100	95	98	60	50	55	50	80	65	73
47	100	100	100	30	60	45	15	50	32	59
48	100	100	100	80	60	70	60	90	75	82
49	100	100	100	100	90	95	10	10	10	68
50	100	95	98	80	70	75	1	20	10	61
51	100	100	100	80	80	80	30	75	52	77
52	100	100	100	80	80	80	25	85	55	78
53	100	100	100	80	90	85	50	90	70	85
54	100	100	100	80	80	80	85	85	85	88
55	100	100	100	90	80	85	25	75	50	78
56	100	100	100	80	60	70	15	50	32	67
57	100	95	98	80	60	70	25	60	42	70
58	100	95	98	80	50	65	30	50	40	68
59	100	100	100	80	70	75	20	50	35	70
60	95	100	98	90	50	70	90	95	93	87
61	95	100	98	90	90	90	60	50	55	81
62	100	100	100	90	70	80	40	50	45	75
63	100	100	100	90	60	75	20	60	40	72
64	100	100	100	0	90	45	25	50	32	59
65	100	100	100	90	90	90	5	20	12	67
66	100	100	100	80	90	85	1	40	20	68
67	100	95	98	60	70	65	20	75	48	70
68	100	100	100	80	80	80	0	40	20	67
69	100	100	100	70	90	80	70	90	80	87
70	100	90	95	50	90	70	10	40	25	63
71	100	100	100	80	90	85	60	80	70	85
72	100	100	100	80	90	85	50	95	72	86
73	100	100	100	90	90	90	80	100	90	93
74	100	100	100	80	90	85	90	95	92	92
75	100	100	100	80	100	90	75	95	85	92
76	100	100	100	70	80	75	65	95	80	85
77	100	100	100	80	90	85	80	95	88	91
78	100	100	100	60	70	65	75	95	85	83
79	100	100	100	80	100	90	70	85	78	89
80	100	100	100	90	90	90	1	40	20	70

Entry No.	St. Paul, MN			Brookings, SD			Williston, ND			Grand Mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
81	100	100	100	90	90	90	90	80	85	92
82	100	100	100	90	60	75	75	80	78	84
83	100	100	100	60	40	50	85	75	80	77
84	100	100	100	80	90	85	75	95	85	90
85	100	100	100	60	60	60	90	100	95	85
86	100	100	100	60	90	75	80	100	90	88
87	100	100	100	70	90	80	60	70	65	82
88	100	100	100	90	90	90	95	85	90	93
89	100	90	95	90	90	90	70	70	70	85
90	100	100	100	90	90	90	60	60	60	83
91	100	100	100	90	90	90	50	50	50	80
92	100	100	100	90	100	95	20	40	30	75
93	100	100	100	90	90	90	45	50	48	79
94	100	100	100	90	90	90	20	40	30	73
95	100	100	100	80	90	85	40	20	30	72
96	100	100	100	90	80	85	15	25	20	68
97	100	100	100	80	90	85	50	50	50	78
98	100	100	100	90	90	90	20	40	30	73
99	100	90	95	70	60	65	50	60	55	72
100	85	100	92	90	50	70	30	20	25	62
101	95	100	98	70	50	60	30	50	40	66
102	100	95	98	70	50	60	10	20	15	58
103	100	100	100	90	90	90	20	30	25	72
104	100	90	95	80	70	75	50	50	50	73
105	100	95	98	80	90	85	30	40	35	73
106	100	100	100	100	90	95	30	50	40	78
107	100	100	100	90	70	80	20	50	35	72
108	100	100	100	70	70	70	20	60	40	70
109	100	100	100	80	90	85	1	60	30	72
110	100	100	100	70	40	55	1	70	35	63
111	95	100	98	90	90	90	1	40	20	69
112	100	90	95	70	80	75	95	90	92	87
113	100	100	100	70	90	80	50	40	45	75
114	80	100	90	60	40	50	80	100	90	77
115	100	100	100	50	60	55	5	20	12	56
116	100	100	100	80	80	80	1	40	20	67
117	100	100	100	80	60	70	30	50	40	70
118	100	100	100	80	70	75	10	25	18	64
119	100	100	100	90	70	80	10	15	12	64
120	100	100	100	60	80	70	90	85	88	86

Entry No.	St. Paul, MN			Brookings, SD			Williston, ND			Grand Mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
121	70	100	85	70	70	70	25	70	48	68
122	100	100	100	70	80	75	5	30	18	64
123	100	100	100	60	50	55	30	70	50	68
124	100	100	100	60	90	75	10	70	40	72
125	100	100	100	80	80	80	10	60	35	72
126	100	100	100	50	70	60	40	50	45	68
127	100	100	100	80	60	70	15	25	20	63

1986
Soilborne Mosaic Nursery

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Pawnee	CI11669	Check
2	Pm4/3*Cheney/3/OD/2*Eagle//Pn/Durum	KS82H238-1-1	Kansas (Hays)
3	" "	KS82H238-1-2	"
4	" "	KS82H238-1-3	"
5	" "	KS82H238-1-4	"
6	Bsn/Sterling//3*Scout/3/Eagle/4/Pnn /2*Eagle	KS84HW196	"
7	Sage/Salmon/3/Larned/Eagle//Sage/4/TAM105	KS85H21	"
8	" "	KS85H22	"
9	" "	KS85H43	"
10	Concho	CI12517	Check
11	Tam105//Sage/Arthur	KS85H53	Kansas (Hays)
12	" "	KS85H60	"
13	" "	KS85H79	"
14	" "	KS85H95	"
15	" "	KS85H136	"
16	" "	KS85H141	"
17	" "	KS85H247	"
18	" "	KS85H274	"
19	Nwt/4/TAM105/3/Pv//Ctk/SD69105	X803-4-2	Kansas (Manhattan)
20	Bison	CI12518	Check
21	Nwt/4/TAM105/3/Pv//Ctk/SD69105	X803-4-3	Kansas (Manhattan)
22	Nwt//Pkr76/TAM105	X809-3-2	"
23	" "	X809-3-7	"
24	" "	X809-3-8	"
25	" "	X809-3-9	"
26	KS79467/NE78668	XGH8010-2-4	"
27	" "	XGH8010-1-2	"
28	" "	XGH8010-1-4	"
29	KS79468/Nwt	XGH8017-2-1	"
30	Pawnee	CI11669	Check
31	Nwt/3/Vona//KS73148/Pv	X8028-2-2	Kansas (Manhattan)
32	" "	X8028-4-4	"
33	Vona//KS75210/TAM101	X8034-5-5	"
34	TAM105/3/Pv//KS73199/Pv	X8053-4-2	"
35	TAM105/3/Nwt//Pv/NE76704	X8070-2-3	"
36	TX71A916-3/KS79379	XGH80162-1-14	"
37	TX71A916-3/KS79466	XGH80165-2-1	"
38	Bulk Selection	TB-2	"
39	"	TB-5	"
40	Concho	CI12517	Check
41	Bulk Selection	TB-32	Kansas (Manhattan)
42	"	TB-94	"
43	"	TB-107	"
44	"	TB-108	"
45	"	TB-111	"
46	"	TB-143	"
47	"	TB-146	"
48	"	TB-148	"

Soilborne Mosaic Nursery

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
49	"	TB-152	Kansas (Manhattan)
50	Bison	CI12518	Check
51	Bulk Selection	TB-175	Kansas (Manhattan)
52	"	TB-181	"
53	"	TB-186	"
54	"	TB-187	"
55	"	TB-212	"
56	"	TB-215	"
57	"	TB-217	"
58	Trapper//Cmn/Ot/3/CIMMYT/Sut/4/Buckskin Sib /Homestead	NE82419	Nebraska
59	HiPlains/Wings/3/Parker*4/Agent// Beloterkovskaia 198/Lcr	NE82438	"
60	Pawnee	CI11669	Check
61	CIMMYT/Scout//Agate/Sage Sib.	NE82533	Nebraska
62	391-56-D1-8/Tsc//Homestead/Buckskin Sel.	NE82558	"
63	Tp/3/SS/CI12500//Pn/Cnn/4/Arthur/Centurk78 /5/Tascosa/T1//Parker	NE84503	"
64	TX62A2607-6/MV-B-1/5/Tp/3/SS/CI12500 //Pn/Cnn/4/Arthur/Centurk 78	NE84517	"
65	" "	NE84519	"
66	Bez 1/Centurk 78//Arthur/Centurk 78 /3/Bennett	NE84581	"
67	" "	NE84584	"
68	Bez 1/Centurk 78//Arthur/Centurk 78 /3/Agate	NE84594	"
69	Bez 1/Centurk 78//Arthur/Centurk /3/Mara/2*Sut/Homestead	NE84617	"
70	Concho	CI12517	Check
71	Tp/3/SS/CI12500//Pn/Cnn/4/Arthur /Centurk 78/5/Brule	NE84629	Nebraska
72	Experimental line	AGC-108	Agrigenetics
73	"	AGC-109	"
74	Plainsman V/3/Kaw/Atl 50//Pkr*5/Ag	KS831374	Kansas
75	Nwt/3/Pkr*5/Ag//Atl 50	KS831203	"
76	Winter Wheat Composite	KS82C2009	"
77	Vona//Chisholm/Plainsman V	OK83201	Oklahoma
78	Amigo sib/2*Newton	OK82377	"
79	TX73V203*3/Amigo	TX81V5581	Texas
80	Bison	CI12518	Check
81	TAM W-101/Ctk//Amigo	TX80A5901-1	Texas
82	TX68D5194/Osage	TX84V1227	"
83	MV-69-12/TAM W-103	TX84A7608	"
84	Mex Dw/Baca//Vona	C0820026	Colorado
85	Anza/Scout//Centurk	C0810010	"
86	Brule Composite	NE851182	Nebraska
87	Wrr*5/Agent//Ctk 78	NE77465	"
88	Wrr*5/Agent//Aurora/3/Centurk 78	NE78488	"
89	Experimental line	AGC-101	Agrigenetics
90	Pawnee	CI11669	Check

Soilborne Mosaic Nursery

Entry No.	Variety or Pedigree	C.I. or Sel. No.	Source
91	Experimental line	AGC-102	Agrigenetics
92	" "	AGC-106	"
93	" "	AGC-110	"
94	" "	RH855001	Rohm and Haas
95	" "	RH855002	"
96	" "	NA-81-362-5	NAPB
97	" "	NA-81-171-14	"
98	TAM-105/Chisholm Hybrid	SDG-1001	Shell Dev.
99	Bounty Hybrid	Bounty-205	Cargill
100	Concho	CI12517	Check
101	Bounty Hybrid	Bounty-301	Cargill
102	Winter Wheat Hybrid	XH216a	HybriTech
103	" "	XH551	"
104	CI15322//Agate/4*Scout66/3/Ctk 78 /4/SD74221	SD82144	South Dakota
105	CI15322//3*(Agent/4*Scout66)	SD76463-16	"
106	SD75375/OK711248-1	SD791117	"
107	SD74221*2/Lathrop	SD82114	"
108	CI15322//4*(Agent/4*Scout66)	SD79892	"
109	Brule//Sentinel/Centurk	NE82651	Nebraska
110	Bison	CI12518	Check
111	" "	NE82652	Nebraska
112	Brule/3/Pkr*4/Agent//Beloferkovskaia198 /Lancer	NE82656	"
113	" "	NE82658	"
114	Brule Composite	NE851182	"
115	" "	RH852515	Rohm and Haas
116	" "	RH853514	"
117	Winter Wheat Hybrid	XNH1228	HybriTech
118	" "	XNH1337	"
119	" "	XNH1342	"
120	TX65A268/Froid//YTO 117-20/Ctk	MT8030	Montana
121	Lancota/Froid//NE69559/Wnk	MT8039	"
122	NE63283/6*Cheyenne	MT80122	"
123	Pawnee	CI11669	"

1986 SOILBORNE MOSAIC NURSERY

Lincoln, NE

Entry No.	Rep 1	Rep 2	Mean	Entry No.	Rep 1	Rep 2	Mean
1	3	3	3	41	3	3	3
2	2	1	1.5	42	2	3	2.5
3	2	0	1	43	3	3	3
4	2	1	1.5	44	3	3	3
5	1	0	0.5	45	2	2	2
6	3	3	3	46	2	2	2
7	4	4	4	47	2	2	2
8	4	3	3.5	48	2	3	2.5
9	3	3	3	49	0	1	0.5
10	2	2	2	50	4	4	4
11	2	0	1	51	3	2	2.5
12	3	0	1.5	52	3	2	2.5
13	1	1	1	53	2	2	2
14	3	3	3	54	3	3	3
15	4	4	4	55	2	2	2
16	1	0	0.5	56	2	2	2
17	2	2	2	57	3	3	3
18	2	1	1.5	58	4	3	3.5
19	1	0	0.5	59	4	4	4
20	3	3	3	60	4	3	3.5
21	1	1	1	61	3	1	2
22	1	1	1	62	3	3	3
23	2	1	1.5	63	3	3	3
24	2	0	1	64	4	4	4
25	2	0	1	65	3	3	3
26	3	1	2	66	4	3	3.5
27	3	2	2.5	67	3	2	2.5
28	3	1	2	68	3	1	2
29	2	0	1	69	3	2	2.5
30	4	3	3.5	70	3	2	2.5
31	2	0	1	71	3	2	2.5
32	2	0	1	72	4	3	3.5
33	2	1	1.5	73	4	4	4
34	3	1	2	74	2	1	1.5
35	2	1	1.5	75	3	1	2
36	2	1	1.5	76	4	3	3.5
37	3	3	3	77	3	2	2.5
38	2	2	2	78	2	1	1.5
39	3	2	2.5	79	4	4	4
40	3	2	2.5	80	4	3	3.5

Entry No.	Rep 1	Rep 2	Mean	Entry No.	Rep 1	Rep 2	Mean
81	4	3	3.5	101	3	3	3
82	4	4	4	102	3	2	2.5
83	4	4	4	103	3	3	3
84	4	3	3.5	104	3	2	2.5
85	2	2	2	105	4	3	3.5
86	4	4	4	106	4	3	3.5
87	4	3	3.5	107	4	4	4
88	4	4	4	108	4	4	4
89	2	2	2	109	4	3	3.5
90	4	4	4	110	4	4	4
91	3	2	2.5	111	4	4	4
92	4	4	4	112	4	3	3.5
93	2	1	1.5	113	3	3	3
94	3	3	3	114	4	4	4
95	3	3	3	115	3	3	3
96	2	2	2	116	4	4	4
97	2	1	1.5	117	4	3	3.5
98	4	4	4	118	4	4	4
99	4	3	3.5	119	3	3	3
100	3	3	3	120	4	4	4
				121	3	3	3
				122	4	4	4
				123	4	4	4

1/ Scale is 0 - 5; 0 = no infection, 5 = severe.

2/ Notes taken on 4/8/86.