

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
NORTHERN PLAINS AREA

COMPARISON OF WINTER WHEAT VARIETIES GROWN IN
COOPERATIVE NURSERY EXPERIMENTS IN THE HARD
WINTER WHEAT REGION IN 1997

By

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CONTENTS

	<u>Page</u>
Cooperating agencies, stations, and personnel -----	2
New varieties and germplasm -----	6
Regional notes -----	8
Southern Regional Performance Nursery -----	10
Test site information -----	11
Individual test site results -----	15
Summary of SRPN yields -----	52
Summary of agronomic data -----	67
Northern Regional Performance Nursery -----	79
Test site information -----	80
Individual test site results -----	81
Summary of NRPN yields -----	97
Summary of agronomic data -----	106
Western Plains Regional Performance Nursery -----	113
Test site information -----	114
Individual test site result -----	115
Summary of WPRPN yields -----	124
Summary of agronomic data -----	127
Regional Germplasm Observation Nursery -----	131
Test information -----	131
Summary of data -----	134

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Germplasm in the Hard Winter Wheat Regional Nursery Program is distributed and evaluated under guidelines of the 'Wheat Worker's Code of Ethics' (National Wheat Improvement Committee, Nov. 5, 1994).

COOPERATING AGENCIES, STATIONS, AND PERSONNEL
(The asterisk denotes USDA employees)

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TAMU Research and Extension Center

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HYBRITECH SEED INTERNATIONAL, INC.

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New Varieties and Germplasms

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

South Dakota Agricultural Experiment Station announced the release of two hard red winter wheats in 1997: 'Tandem' (PI601817) and 'Crimson' (PI601818).

Tandem is an F₂ derived line from the cross 'Brule/Agate' and was tested in the NRPN from 1993 through 1995 as SD89119. Tandem is a standard height wheat with a long coleoptile and medium straw strength. It has excellent end-use quality characteristics with large kernels, high kernel weight, and high flour extraction. Baking tests indicate high water absorption with average mixing time and good tolerance ratings. Tandem is of medium maturity, 2 days earlier than Roughrider and similar to Arapahoe. It is moderately resistant to prevalent races of stem rust and susceptible to leaf rust, tan spot, septoria tritici, and WSMV. Tandem is heterogeneous for resistance to the Great Plains biotype of Hessian fly.

Crimson is an F₅ derived line from the cross 'TAM-105/Winoka' and was tested in the NRPN from 1994 through 1996 as SD89153. Crimson is a standard height wheat with a long coleoptile. It has exhibited very high and stable test weight characteristics over test locations. It has good end-use quality characteristics with average kernel weight and flour extraction. Baking tests indicate high water absorption with average mixing time and tolerance ratings. Crimson is of medium-late maturity, 1 day earlier than Roughrider and 1 day later than Arapahoe. Crimson is moderately resistant to prevalent races of stem rust and susceptible to leaf rust and Hessian fly. It is resistant to South Dakota isolates of septoria tritici. Greenhouse seedling tests suggest it has a moderate level of resistance to WSMV.

Agripro Seeds, Inc., recently announced the release of 'Hondo' hard red winter wheat. Hondo was derived from the cross 'W84-179/W81-171/3/Sturdy/Hawk//W81-133-3' and was tested in the 1997 WPRPN as W95-210. It is also entered in the 1998 SRPN. Hondo is resistant to WSBMV and WSSVM and has very good tolerance to WSMV. It has shown good resistance to prevalent races of leaf rust and good tolerance to tan spot and Septoria tritici. Hondo is a medium- height semidwarf of medium maturity with a medium-long coleoptile and good tolerance to acid soils. It has shown good field tolerance to head scab. Hondo is best adapted to production areas of Kansas, Nebraska, and north-east Colorado.

The Colorado Agricultural Experiment Station announced the release of two hard red winter wheats in 1997: 'Prowers' and 'Yumar'.

Prowers was derived from the cross 'CO850060/PI372129 //5*Lamar' and was tested in the 1997 Western Plains Regional Performance Nursery as CO940750. It also was tested under the designation Lamar-R32. Prowers is a medium-tall wheat, similar to Lamar in all aspects except that it is resistant to the Russian wheat aphid. Prowers currently contains about 80% RWA-resistant plants. Further purification for RWA-resistance is underway.

Yumar was derived from the cross 'Yuma/PI372129,F1//CO850034/3/4*Yuma' and was tested in the 1997 SRPN as CO940700. Is also was tested under the designation Yuma-R21. Yumar is a semidwarf wheat, similar to Yuma in all aspects except that it is resistant to the Russian wheat aphid and slightly taller. Yumar contains essentially 100% RWA resistant plants.

Regional Notes

ACTIVITIES

The 1997 Hard Red Winter Wheat Breeders Field Day was held in May at Vernon, TX, hosted by wheat researchers from Texas A&M. The 1998 Breeders Field Day is scheduled for June 30 at Sidney, NE, hosted by researchers from the University of Nebraska and USDA-ARS.

The 21st Hard Winter Wheat Workers Workshop was held in Denver, Colorado on January 28-30, 1998. The 2½ day Workshop, hosted by Colorado State University, was attended by over 140 wheat researchers.

PERSONNEL

Dr. Blaine Johnson joined HybriTech Seed International as Co-Senior Project Leader for hard winter wheat breeding, stationed at Berthoud, CO. Dr. Johnson was formerly with the University of Nebraska as Corn Breeder and Quantitative Geneticist.

Dr. Jim Hatchett, USDA-ARS Research Entomologist, formally retired after over 37 years of federal service. Dr. Hatchett has been with the Plant Science Research Unit at Manhattan, Kansas, since 1976 conducting research on the Hessian fly. He has contributed to the release of numerous wheat varieties and germplasms in the region. Jim has been an valuable asset to the regional programs and has provided Hessian fly evaluations on thousands of germplasm lines. Jim will continue his Hessian fly research and germplasm screening on a part-time appointment while efforts to refill his position are underway.

Dr. John Schmidt, Emeritus Professor, University of Nebraska, passed away on July 15, 1997. Dr. Schmidt retired in 1985 after more than 30 years of service as Small Grains Breeder for UN-L. Dr. Schmidt developed 28 wheat varieties during his career, which were noted for their stem-rust resistance, high productivity, and broad adaptation. These varieties included Scout and Scout 66, which were grown on up to 8 million acres annually in the Great Plains. Dr. Schmidt received numerous awards for his wheat research contributions, including the USDA Superior Service Award, an honorary Doctorate from Kansas State University, and he was inducted into the Nebraska Hall of Agricultural Achievement.

Reporting Notes

The year 1997 was the 67th year of field trials in the Hard Winter Wheat Regional Performance Nursery program. The program is conducted in collaboration with scientists from USDA-ARS, State Agricultural Experiment Stations, and private breeding programs. Forty five wheats were evaluated in the Southern Regional Performance Nursery over 36 locations in 11 states. Thirty five wheats were evaluated in the Northern Regional Performance Nursery over 16 locations in eight states. Twenty eight wheats were evaluated in the Western Plains Regional Performance Nursery at nine locations over eight states. Grain yield, yield stability, agronomic characteristics, reaction to major disease and insect pests, and tolerance to environmental stresses were reported for entries in each of the Performance Nurseries. Three hundred and ninety wheats were evaluated for disease and insect reactions and tolerance to environmental stresses in the Regional Germplasm Observation Nursery. Wheat germplasm and hybrids from 22 public and private programs involved in breeding and germplasm development were evaluated in the 1997 nurseries. Five new hard red winter wheat varieties were released to producers in 1997 that previously had been evaluated in the Regional Nursery program.

A web page for the Hard Winter Wheat Regional Nursery program has been developed. The site has nursery lists, preliminary data, past reports, and other information posted for viewing or downloading. The internet address is:

[HTTP://ianrwww.unl.edu/ianr/agronomy/region/](http://ianrwww.unl.edu/ianr/agronomy/region/)

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 reaction type as follows: 1=VR; 1=R; 3=MR; 4=M; 5=M; 6=M; 7=MS; 8=S; and 9=VS.

1997
Southern Regional Performance Nursery

Entry No.	Variety or Pedigree	Sel. No.	Source
1**	Kharkof	CI1442	Check
2**	Scout 66	CI13996	"
3**	TAM-107	PI495594	"
4*	Cimarron sib/Fundulea 133	OK93617	Oklahoma
5*	HBV756A/Sxl//2180	OK94P549	"
6*	T200/HBB313E//2158	OK94P461	"
7*	TXGH12588/TX86D1317	TX91D6825	TX, Dallas
8*	Kavkaz/TX86D1308//Sturdy/TAM-300	TX91D6856	"
9*	W13445*KW161/VW162)x244	HBG0358	Texas
10*	NE83407/3/FLN/ACC//ANA	TX94V2327	"
11*	Composite Cross	TX94V3329	"
12*	Rio Blanco/Bai Quan #3039	TX95V4926	"
13*	NE83407/TX88V4834	TX95V4933	"
14*	TX88V4914/NE83407	TX95V5332	"
15*	TX85V1326/Karl	TX94V2130	"
16	Mesa/Carson	CO910424	Colorado
17*	Yuma/TAM-107	CO920696	"
18*	Yuma-R21	CO940700	"
19*	KS87H22/Mesa	KS94H147	KS, Hays
20	Karl/HBY385D//2163	KS941064-6	KS, Manh.
21	2180/Karl//2163	KS940935-125-5-2	"
22	KS82W422/SWM754308//KS831182/KS82W422	KS85W663-11-6-MB	"
23	KS82W418/Stephens	KS84W063-9-39-3-MB	"
24*	KS831936-3//Colt/Cody	N95L158	NE, ARS
25	NE85707/Thunderbird	NE93405	Nebraska
26	Bez1/Ctk78//Arthur/Ctk78/3/Bennett/4/Norkan	NE93427	"
27*	NE85707/Thunderbird	NE93496	"
28*	Abilene/Norkan//Rawhide	NE94632	"
29*	Colt/Victory//Sturdy/Amigo	W94-042	Agripro
30*	Sierra/6/Era/Tobari 66//Lovrin 11/3/ Oligoculm/4/Archer/5/W81-171	W94-137	"
31*	HBK0689	W94-320	"
32*	TAM-200/Abilene/6/Era/Tobari 66//Lovrin 11/3/ Oligoculm/4/Archer/5/W81-171	W94-245	"
33*	Bulk Selection	W94-435	"
34*	Quantum Hybrid Wheat	WX94-3504	HybriTech
35*	" "	WX94-1604	"
36*	" "	XH1877	"
37*	" "	XH1881	"
38*	" "	WX95-2401	"
39**	T68/KS90WGRC10	T89	Trio
40*	TAM-107/Caldwell	T86	"
41*	Karl/T67	T93	"
42*	T67/T81	T94	"
43*	BCD1828/83	G1594	Goertzen
44*	G2148//Bezostaya/Plainsman 5	G1720	"
45*	1992 Nebraska Bulk Selection	G12017	"

* New Entry ; ** New Seed Provided

Test Site Information - SRPN

Clovis, NM -- The irrigated nursery was planted on 9/24/96 into fallow. Plots were irrigated on 9/26/96, 1/29/97, 3/17/97, and 4/2/97. Fertilizer rates consisted of 200 lbs/a of 11-52-0. Seeding rate was 90 lbs/a. Harvested on July 10, 1997. The dryland nursery was planted on 9/25/96 at a rate of 40 lbs/a. Fertilizer rates consisted of 200 lbs/a of 11-52-0. The dryland nursery was irrigated on 9/26/96 to ensure germination. Harvested on July 8, 1997.

Farmington, NM -- Planted on 9/20/96 at seeding rate of 100 lbs/a. Fertilization was 80 lbs/a N and 104 lbs/a of P2O5. Irrigation was supplied by center pivot, as needed. The nursery was badly lodged.

Bushland, TX -- No additional information.

Chillicothe, TX -- No additional information. A severe freeze on April 12 caused significant damage to early maturing lines.

Prosper, TX -- No additional information.

Stillwater, OK -- Planted on 10/11/96 and harvested on 6/19/97. Good stands were obtained. A mid-April freeze caused some damage in early maturing lines, but good growing conditions in May permitted good recovery from the freeze. Leaf rust and SBMV were factors in production.

Altus, OK -- Planted on 10/25/96 and harvested 6/25/97. Some lines suffered freeze damage, but good yields were obtained on average. Leaf rust was a factor.

Lahoma, OK -- Planted on 10/15/96 and harvested on 6/27/97. There was little damage noted from the April freeze. Very favorable growing conditions in May resulted in good production levels. Leaf rust was a factor.

Goodwell, OK (irrigated) -- Planted on 10/2/96 and harvested on 7/9/97. Some freeze damage occurred in mid-April, but recovery was good due to favorable conditions in May and early June. Leaf rust was present late in the season, but was not a significant factor in yield differences.

Kansas Sites (KSU) -- Fall plantings and stand establishments were generally good. The winter was fairly dry, but subsoil moisture was good. A severe freeze occurred on April 11-12. Temperatures in SW and SC Kansas were as low as 12 to 15 degrees F for 8 to 24 hours with the wheat in Feekes stage 5-6 in many crop districts. Significant damage in south-central Kansas initially was expected due to stem damage

caused by ice. In southwest Kansas, many fields suffered as much as 15-50% tiller death in addition to stem damage. However, weather conditions following the freeze and throughout the growing season were excellent. Timely precipitation and cool weather were predominant and temperatures below 85 degrees F for virtually the entire grain filling period. Diseases were present on lower leaves throughout the growing season, but weather was unfavorable for development of most pathogens. Leaf rust was the only disease that caused significant yield losses. Losses were primarily localized to the south-central production areas of Kansas.

Wichita-I, KS -- The Trio SRPN site was planted on 10/3/96 and harvested 7/3/97.

Winfield, KS -- The Winfield SRPN site was managed by Cargill-Goertzen Seed Research.

Wichita-II, KS -- The HybriTech SRPN site was moved to Wichita in 1997.

Salina, KS -- The Agripro SRPN site was located at Salina, KS in 1997. Relative maturity was scored on a 1 (early) to 9 (late) scale. Leaf rust severity was scored as 1, clean to trace; 2, 0 to 10%; 3, 11 to 20%; 4, 21 to 30%; 5, 31 to 40%; 6, 41 to 50%; 7, 51 to 70%; 8, 71 to 85%; and 9, 86 to 100%. Leaf rust reaction was scored as 1, immune; 2, R; 3, RMR; 4, MR; 5, MRMS; 6, MS; 7, SMS; 8, S; and 9, VS. Percentage of grain sample that falls through a 6.5/64 x 3/4 inch screen during a 20 second shake was recorded.

Colorado Sites -- The Burlington nursery had poor stands due to very dry winter conditions and was severely impacted by WSMV, RWA, and moisture stress. The Fort Collins nursery was irrigated. The nurseries at Julesburg, Akron, and Walsh had normal production conditions.

Lincoln, NE -- The previous crop was spring oats. The nursery was planted on time in good moisture. Winter survival was good, but soil borne mosaic virus was present. The nursery had some period of drought stress during grainfill, but in general finished well.

Clay Center, NE -- Previously fallow. The nursery was planted in adequate moisture, but suffered severe winterkilling and some blowing. The recovery of surviving plants was excellent after late spring/early summer rains.

North Platte, NE -- Planted into ecofallow following corn. The nursery was planted on time and in adequate moisture, but just before a rain which may have slowed emergence. Winter was not severe, but the plots never looked vigorous. This may have been due to little residual soil

moisture. The nursery received late rains--good for the weeds, but not much help for the wheat.

Sidney, NE -- The nursery was planted on time, but just before a rain which partially flooded the field. The field survived the winter, but suffered from WSMV infection. Lines with seed treatments seemed to do better which may indicate an interaction between WSMV and additional diseases. Yields were better than appearances.

Alliance, NE -- The nursery was planted on time into good moisture. It survived the winter well. The crop had excellent potential, but was drought stressed in the late tillering and grainfilling periods.

Brookings, SD -- (Brookings County, Aurora Farm)
Nurseries were planted no-till (on 9/24/96) into weedy flax stubble with soil moisture somewhat greater than optimum. Based on a soil test, supplemental nitrogen (105 lbs/acre) was applied as a foliar on 4/27/97. The flax stubble, coupled with above average snowfall amounts that remained until spring, contributed toward excellent survival and plant health coming out of winter. Very little rain was received from the time the snow melted up until two weeks after heading. While visual drought stress symptoms were not evident (other than a compressed heading date window), spring wheat in adjacent fields was heading at about one foot tall. Genotypes that performed poorly may have had a poorly developed root system and did not respond well or recover from the early-season drought stress. Nurseries were harvested on 8/1/97.

Watertown, SD -- (Codington County, NE Research Station)
The RGON was planted no-till (on 10/7/98) into standing oat stubble with very good soil moisture. As at some other locations, late planting, poor fall growth, and severe winter weather contributed to a near-complete loss throughout the entire field. Average survival estimates for a winter rye trial in the same field were 20% (Roughrider was estimated at 5-10% survival in the state variety trial).

Pierre, SD -- (Hughes County, Dakota Lakes No-Till Research Farm)
Nurseries were planted no-till (on 10/2/96) into pea residue with very good soil moisture. As at Winner, late planting, poor fall growth, and severe winter weather resulted in some winterkill in the nurseries (though not nearly as severe as at Winner). Based on a soil test, supplemental nitrogen (45 lbs/acre) was applied as a foliar on 5/15/97. The most predominant factor in the nursery was an early- to mid-February Canadian goose infestation that caused significant, non-uniform stand damage throughout the nurseries. Leaf rust became significant at this site, somewhat earlier than normal (beginning at milk stage). Nurseries were harvested on 8/5/97.

Winner, SD -- (Tripp County, Farmer-Cooperator)

Nurseries were planted no-till (on 10/1/96) into standing spring wheat stubble (cut with a stripper head, about 2-3 feet tall) with very good soil moisture. Soil fertility was managed by the farmer-cooperator, based on a fall soil test and late fall granular applications for a 70 bushel yield goal. Late planting (due to excessive rains in mid-September), coupled with insufficient fall growth in response to cool fall temperatures, resulted in significant winterkill in the nurseries (particularly the SRPN) following a series of blizzards in early- to mid-January. Significant leaf spotting disease pressure (mostly Tan spot) was observed. Temperatures from heading through grain filling were normal throughout the state. Nurseries were harvested on 8/8/97.

Columbia, MO -- Planted on 10/2/96 and harvested 7/9/97. Planting was timely and winter conditions were mild. There was a long, cool spring and grain-fill period. High aphid populations contributed to significant BYDV infections. Septoria tritici also was significant. Environmental yield potential was high, with better soft wheats yielding 75-85 bu/a in the same field. Fertilizer rate was 40 lb/a N fall applied and 66 lb/a N spring applied.

Lind, WA -- The plots received about 2 inches of irrigation prior to seeding. A total of 15 inches of rain were received during the crop year, compared with long-term average of 9.5 inches. No diseases affected yield.

Crawfordsville, Iowa -- Harvest index is reported as the ratio of seed weight to above ground biomass.

Table 1. Yield and agronomic data for 45 wheats grown in the Southern Regional Performance Nursery in 1997.

CLOVIS (IRR.), NEW MEXICO
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING %
KS940935-1255	21	5544	74.2	80	125	7
OK94P461	6	5460	75	71	125	5
OK93617	4	5422	75	65	126	14
XH1881	37	5360	72.9	80	125	22
WX94-3504	34	5161	74.8	74	126	7
HBG0358	9	5154	74.5	77	125	9
CO910424	16	5119	73.6	76	126	42
OK94P549	5	5004	73.9	78	129	13
XH1877	36	4966	74.3	72	131	26
TX91D6856	8	4951	71	76	129	33
TX94V2130	15	4920	74.2	70	128	23
W94-137	30	4847	77	75	126	1
NE93405	25	4751	74.3	80	125	17
WX95-2401	38	4706	75.9	71	125	17
WX94-1604	35	4702	74.5	75	121	6
W94-435	33	4610	75.5	75	125	8
TX91D6825	7	4598	73.7	77	128	23
G1594	43	4572	74.3	78	129	15
W94-245	32	4549	74.5	73	124	10
TX95V4926	12	4514	73.1	72	128	14
KS84W063-9393	23	4468	74.6	81	128	25
NE93496	27	4461	73.8	87	127	2
N95L158	24	4438	73.7	70	127	13
T89	39	4327	72.3	72	125	11
KS941064-6	20	4304	72.7	74	125	18
CO940700	18	4296	73.9	75	128	15
TAM-107	3	4215	74.1	75	122	10
CO920696	17	4208	72.1	69	124	11
W94-320	31	4204	72.2	75	129	34
KS85W663-11-6	22	4108	73.3	77	128	14
NE93427	26	4070	73.3	76	126	33
G1720	44	4039	72.8	71	130	38
NE94632	28	4024	73	77	124	18
G12017	45	4005	72	73	129	62
T94	42	3944	75.6	79	126	25
TX95V4933	13	3921	71	72	130	33
W94-042	29	3879	74.9	71	126	21
KS94H147	19	3790	76	76	127	19
T93	41	3656	73.9	75	127	32
TX94V3329	11	3419	72.9	67	124	57
TX95V5332	14	3373	73.5	75	130	8
TX94V2327	10	3274	71.5	69	130	87
T86	40	3216	74.6	75	123	9
KHARKOF	1	2929	73	89	129	58
SCOUT66	2	2780	73.6	77	128	70
MEAN		4361				
LSD(.05)		781				
C.V.		11.0				

CLOVIS, (DRYL.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: PLANT : CM :	: DAYS TO : HEADING : : FROM 1/1:
OK94P549	5	4154	72.5	65	122
XH1881	37	3936	72.8	69	126
XH1877	36	3653	72.3	63	126
WX95-2401	38	3526	75.2	64	127
T94	42	3507	75	71	121
HBG0358	9	3446	71.6	67	127
W94-042	29	3446	73.7	62	125
G12017	45	3446	69.1	68	125
KS940935-1255	21	3431	72.9	67	121
W94-245	32	3415	72.8	62	120
KHARKOF	1	3400	73.1	79	128
OK94P461	6	3392	73.4	63	121
TX94V3329	11	3385	72.8	59	120
TX95V4933	13	3369	70.3	63	126
CO910424	16	3320	73.1	66	122
CO940700	18	3320	73.4	65	122
TX95V4926	12	3277	71.8	64	121
CO920696	17	3266	72.4	64	121
W94-435	33	3262	72.1	60	122
TX91D6825	7	3251	73.1	65	125
W94-320	31	3239	71.4	69	123
KS85W663-11-6	22	3209	73.2	64	123
WX94-1604	35	3182	69	66	118
KS94H147	19	3178	75.3	64	127
KS84W063-9393	23	3174	73.7	66	121
G1720	44	3170	73.1	65	123
OK93617	4	3155	72.8	61	128
W94-137	30	3132	74	61	121
NE93496	27	3086	71.8	72	124
TX94V2130	15	3006	74.4	62	121
NE94632	28	3006	72	67	120
NE93427	26	3002	73.9	65	123
KS941064-6	20	2986	71.3	65	121
TX91D6856	8	2948	70	58	125
TX95V5332	14	2937	71.6	64	126
TAM-107	3	2856	72.7	60	121
NE93405	25	2841	72.7	70	122
T86	40	2818	72.4	71	121
SCOUT66	2	2806	73.2	69	120
N95L158	24	2791	70.1	57	121
G1594	43	2734	72.7	72	127
T93	41	2726	71.6	61	126
T89	39	2650	71	60	117
WX94-3504	34	2611	71.9	61	121
TX94V2327	10	2561	68.9	65	126
MEAN		3178			
LSD (.05)		N.S.			
C.V.		17.7			

FARMINGTON

NEW MEXICO

FOUR REPLICATIONS

C.I. OR	:	:	YIELD	:	PLANT	:	DAYS TO	:	LODGING	:
ENTRY:	:	:	:	:	HEIGHT	:	HEADING	:	:	:
SEL. NO.	:	NO.	:	KG/HA	:	CM	:	FROM 1/1:	%	:
W94-245		32		8200		91		139		7
W94-137		30		8151		94		136		43
XH1881		37		7655		97		138		81
OK94P461		6		7608		93		136		12
XH1877		36		7409		95		140		55
T89		39		7303		99		135		79
G1594		43		7203		107		138		39
KS941064-6		20		7182		95		137		35
WX95-2401		38		7017		92		136		70
WX94-3504		34		6978		93		136		57
KS940935-1255		21		6957		95		138		30
OK94P549		5		6915		102		135		44
N95L158		24		6816		88		138		81
NE93496		27		6622		102		135		27
TAM-107		3		6618		91		135		75
W94-320		31		6615		97		140		81
TX91D6856		8		6438		87		140		84
WX94-1604		35		6405		90		135		73
KS94H147		19		6335		93		135		94
W94-435		33		6316		91		136		61
KS85W663-11-6		22		6283		93		140		63
TX94V3329		11		6253		84		136		82
G12017		45		6248		91		137		92
HBG0358		9		6145		101		137		73
CO920696		17		6139		93		136		96
TX91D6825		7		6033		104		139		62
TX94V2130		15		6027		86		135		75
CO910424		16		5990		100		137		78
G1720		44		5977		97		142		75
T93		41		5846		99		137		88
TX95V4926		12		5804		91		138		72
TX95V4933		13		5743		88		139		78
T94		42		5517		95		136		58
W94-042		29		5505		83		137		96
OK93617		4		5494		88		139		68
T86		40		5476		101		135		93
NE94632		28		5408		89		136		90
CO940700		18		5388		93		139		91
NE93405		25		5330		98		136		74
KS84W063-9393		23		5215		99		141		79
SCOUT66		2		4972		104		135		95
TX95V5332		14		4643		104		139		80
NE93427		26		4496		95		137		91
KHARKOF		1		4292		113		138		85
TX94V2327		10		4219		90		140		74
MEAN				6204						
LSD (.05)				1861						
C.V.				21.4						

BUSHLAND (IRR.)

TEXAS

THREE REPLICATIONS

	:	:	YIELD	:	VOLUME	:	PLANT	:	LODGING	:	WINTER	:	
C.I. OR	:	ENTRY:	:	WEIGHT	:	HEIGHT	:	:	:	:	INJURY	:	
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	%	:	0-5	:
TX91D6856	:	8	:	5279	:	74.2	:	82	:	0	:	0.5	:
KS84W063-9393	:	23	:	5147	:	76.4	:	90	:	0	:	0.5	:
KS941064-6	:	20	:	4929	:	73.3	:	81	:	0	:	1	:
HBG0358	:	9	:	4907	:	77.3	:	90	:	7	:	1	:
KS940935-1255	:	21	:	4896	:	75.5	:	88	:	0	:	0.5	:
WX94-1604	:	35	:	4775	:	72.8	:	87	:	10	:	1	:
XH1881	:	37	:	4690	:	73.5	:	88	:	3	:	0.5	:
OK94P549	:	5	:	4654	:	76.2	:	89	:	3	:	1	:
OK94P461	:	6	:	4577	:	72.9	:	79	:	7	:	0.5	:
KS85W663-11-6	:	22	:	4577	:	76.6	:	84	:	7	:	1	:
TX94V2327	:	10	:	4483	:	72.8	:	88	:	10	:	0.5	:
G12017	:	45	:	4439	:	71.7	:	91	:	13	:	1	:
TX91D6825	:	7	:	4436	:	74.8	:	86	:	3	:	0.5	:
W94-042	:	29	:	4412	:	74.9	:	77	:	0	:	0.5	:
TX95V4926	:	12	:	4405	:	72.4	:	86	:	0	:	1	:
W94-435	:	33	:	4400	:	75.5	:	81	:	0	:	1	:
T89	:	39	:	4369	:	73.1	:	85	:	3	:	0.5	:
NE94632	:	28	:	4326	:	73.3	:	88	:	13	:	0.5	:
WX95-2401	:	38	:	4174	:	74.8	:	82	:	3	:	1	:
WX94-3504	:	34	:	4147	:	75.5	:	77	:	0	:	1	:
TX95V4933	:	13	:	4100	:	70.2	:	84	:	7	:	1	:
T93	:	41	:	4035	:	75.7	:	88	:	10	:	1	:
OK93617	:	4	:	4028	:	75.3	:	79	:	0	:	1	:
KS94H147	:	19	:	4026	:	75.3	:	88	:	20	:	1	:
W94-320	:	31	:	4017	:	70.2	:	86	:	0	:	0.5	:
T86	:	40	:	3977	:	73.4	:	93	:	20	:	1	:
NE93427	:	26	:	3959	:	75.7	:	88	:	0	:	1	:
G1720	:	44	:	3943	:	73.8	:	86	:	3	:	0.5	:
TX95V5332	:	14	:	3932	:	74.6	:	93	:	7	:	1	:
T94	:	42	:	3901	:	76.2	:	95	:	17	:	0.5	:
W94-245	:	32	:	3791	:	71.5	:	76	:	0	:	1	:
TX94V3329	:	11	:	3786	:	76.4	:	82	:	40	:	0.5	:
XH1877	:	36	:	3764	:	71.3	:	78	:	3	:	0.5	:
N95L158	:	24	:	3744	:	70.2	:	84	:	0	:	1	:
NE93405	:	25	:	3737	:	74.8	:	99	:	7	:	1	:
G1594	:	43	:	3728	:	75.5	:	93	:	0	:	1	:
W94-137	:	30	:	3705	:	73.7	:	79	:	0	:	0.5	:
CO910424	:	16	:	3609	:	73.1	:	89	:	10	:	1	:
CO920696	:	17	:	3448	:	72.6	:	86	:	7	:	1	:
TX94V2130	:	15	:	3358	:	71.9	:	77	:	10	:	1	:
CO940700	:	18	:	3338	:	76	:	84	:	3	:	1	:
NE93496	:	27	:	3338	:	74	:	93	:	0	:	0.5	:
TAM-107	:	3	:	3297	:	72.6	:	79	:	7	:	1	:
SCOUT66	:	2	:	2928	:	76.2	:	97	:	57	:	0.5	:
KHARKOF	:	1	:	1845	:	73.8	:	114	:	47	:	0.5	:
MEAN	:		:	4075	:		:		:		:		:
LSD(.05)	:		:	488	:		:		:		:		:
C.V.	:		:	7.3	:		:		:		:		:

BUSHLAND (DRYL.)

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: WINTER INJURY 0-5
OK94P549	5	2943	1
CO910424	16	2833	1.5
OK93617	4	2825	1
KS940935-1255	21	2780	1.5
XH1877	36	2766	1
G12017	45	2735	1
TX94V2327	10	2609	0.5
XH1881	37	2603	1
CO920696	17	2587	1
TX95V4926	12	2585	1
TX94V2130	15	2582	1
TX95V4933	13	2511	1
KS94H147	19	2504	1
HBG0358	9	2490	1.5
OK94P461	6	2482	1
G1594	43	2468	1
TX91D6856	8	2457	1
KS84W063-9393	23	2432	1
KS941064-6	20	2423	1.5
T86	40	2410	1
WX94-3504	34	2387	1
NE94632	28	2376	1
W94-042	29	2298	1
G1720	44	2293	1
TX94V3329	11	2282	1
T93	41	2282	1
T94	42	2271	1
CO940700	18	2242	1.5
TX91D6825	7	2237	1
W94-245	32	2235	1
TAM-107	3	2195	1
WX95-2401	38	2179	1
NE93405	25	2165	1
NE93427	26	2089	1
WX94-1604	35	2085	1
TX95V5332	14	2083	1
KS85W663-11-6	22	2049	1.5
T89	39	2044	1
W94-137	30	2018	1
N95L158	24	1964	1
W94-435	33	1941	0.5
W94-320	31	1937	1
NE93496	27	1879	1
SCOUT66	2	1717	1
KHARKOF	1	1098	1
MEAN		2319	
LSD (.05)		393	
C.V.		10.4	

CHILLICOTHE

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: PLANT : HEIGHT : CM :	: DAYS TO : HEADING : FROM 1/1 :	: LEAF RUST : SEV. : % :	: RESP : 0-9 :
W94-042	29	3773	75.1	82	115	10	2
KS94H147	19	3620	78.5	101	113	30	7
KS84W063-9393	23	3540	78.6	93	111	10	5
W94-320	31	3495	77.8	96	110	20	3
XH1881	37	3327	76.8	99	110	10	3
TX94V2327	10	3143	76.8	92	110	10	3
TX91D6856	8	3062	77.1	86	110	5	2
CO910424	16	3046	77.7	97	109	80	8
KS85W663-11-6	22	3008	78.1	91	110	0	2
NE94632	28	2941	76.9	92	109	20	3
N95L158	24	2795	71.6	89	118	20	3
T86	40	2737	76.8	101	108	40	8
TX95V4933	13	2674	70.9	83	117	60	8
W94-137	30	2661	78	89	110	60	8
NE93496	27	2596	76.2	98	118	60	8
TX95V5332	14	2571	76.9	87	113	30	7
KS940935-1255	21	2553	76.6	93	111	30	8
TX91D6825	7	2497	76.9	97	111	5	2
XH1877	36	2470	77	90	109	20	8
G12017	45	2457	77.7	94	110	40	7
G1594	43	2408	77.8	90	113	40	8
NE93427	26	2401	79.7	99	110	60	8
TX95V4926	12	2387	70.2	88	119	40	7
TX94V3329	11	2123	81.8	85	106	40	8
OK94P549	5	2105	78.6	93	110	5	3
W94-435	33	2009	78.1	90	111	40	8
G1720	44	1995	77.1	92	111	60	8
CO920696	17	1970	74.2	85	111	80	8
T94	42	1959	78.8	100	107	60	8
KHARKOF	1	1952	76.7	101	125	40	7
T93	41	1935	79.1	94	107	70	8
W94-245	32	1928	79.9	83	106	60	8
SCOUT66	2	1852	76.9	97	116	60	8
KS941064-6	20	1840	77	81	110	5	3
OK93617	4	1798	77.7	86	108	40	8
NE93405	25	1755	78.8	94	109	60	8
WX94-3504	34	1686	79.9	91	110	20	3
HBG0358	9	1592	79.7	101	108	5	3
OK94P461	6	1477	78.2	84	109	10	3
CO940700	18	1462	76	84	111	60	8
T89	39	1233	75.4	96	102	60	8
TX94V2130	15	1152	76.9	82	107	80	8
TAM-107	3	778	74.9	85	103	99	8
WX94-1604	35	722	73.2	82	100	10	3
WX95-2401	38	388	74.4	76	100	40	8
MEAN		2264					
LSD (.05)		721					
C.V.		19.5					

PROSPER

TEXAS

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO	
:ENTRY:	:	:	:	:	WEIGHT	:	HEIGHT	:	HEADING	
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:
OK94P461		6		4997		75.7		94		107
OK94P549		5		4979		76.2		97		109
XH1881		37		4887		68.5		103		111
TX94V2327		10		4714		73.9		96		109
KS941064-6		20		4714		71.5		91		108
TX91D6825		7		4699		73		102		114
OK93617		4		4604		75.2		89		107
TX91D6856		8		4553		68.9		97		113
NE93427		26		4382		73.9		104		110
W94-042		29		4371		69.8		94		121
W94-320		31		4353		72.9		98		108
KS84W063-9393		23		4344		72.5		96		115
NE94632		28		4248		69.5		98		116
XH1877		36		4194		72.1		93		108
KS85W663-11-6		22		4178		71		98		112
G12017		45		4129		71.6		97		108
NE93405		25		4075		74.9		110		107
WX94-1604		35		4008		75.6		95		104
T86		40		3948		72		103		114
HBG0358		9		3912		74.3		102		111
KS94H147		19		3898		71		105		123
KS940935-1255		21		3853		71		94		119
T94		42		3820		74.3		102		106
T93		41		3768		73		96		107
W94-245		32		3737		71.2		89		108
W94-435		33		3663		70.6		93		115
CO910424		16		3627		69.9		102		112
G1720		44		3593		71.1		91		110
WX95-2401		38		3580		77.4		86		102
T89		39		3558		73.1		97		105
G1594		43		3528		70.6		98		112
TX95V5332		14		3501		72		96		121
WX94-3504		34		3493		72.8		97		109
TX94V3329		11		3477		74.7		86		110
W94-137		30		3185		69.8		91		110
TX94V2130		15		3141		72.8		92		107
N95L158		24		3134		67.6		97		123
TAM-107		3		3123		70.7		94		107
CO940700		18		3028		69.3		99		109
TX95V4926		12		2993		70.4		88		121
TX95V4933		13		2914		68.1		95		122
NE93496		27		2784		74.3		109		124
SCOUT66		2		2204		72.9		107		123
CO920696		17		2132		63.6		95		118
KHARKOF		1		1065		72.2		107		127
MEAN				3758						
LSD (.05)				677						
C.V.				11.0						

STILLWATER

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO.	: YIELD : KG/HA	: VOLUME : KG/HL	: PLANT : HEIGHT	: DAYS TO : HEADING	: LEAF RUST: : SEVERITY : : FROM 1/1: 0-9 :
KS84W063-9393	23	4577	78.6	93	115	1
TX91D6825	7	4354	75.7	92	116	1
XH1881	37	4272	76.6	95	113	2
KS940935-1255	21	3987	79.1	88	115	2
XH1877	36	3949	76.5	87	114	4
N95L158	24	3888	71.5	82	119	3
KS94H147	19	3875	79.2	80	116	6
TX91D6856	8	3829	72.8	82	116	1
TX94V2327	10	3822	74.3	85	117	2
W94-042	29	3764	74.4	80	118	2
GI2017	45	3753	77.5	88	113	5
T86	40	3730	75.9	87	113	4
KS85W663-11-6	22	3712	76.8	92	114	2
HBG0358	9	3700	80	90	116	1
W94-137	30	3685	78	90	115	4
W94-320	31	3673	77.1	92	118	3
CO910424	16	3621	78.2	87	115	6
NE94632	28	3578	72.1	92	116	5
NE93427	26	3479	80.9	103	119	4
WX94-1604	35	3391	76.5	87	113	3
GI594	43	3363	78.8	78	119	4
OK94P549	5	3361	78	88	118	2
GI720	44	3341	77.1	82	116	4
OK93617	4	3318	74.4	83	118	6
T94	42	3305	78.9	83	118	6
W94-435	33	3275	77.5	90	116	4
TX95V4933	13	3185	71.9	73	119	6
TX95V4926	12	3162	72.6	88	119	5
WX95-2401	38	3133	78.8	85	114	3
NE93405	25	3126	77.7	85	114	4
NE93496	27	2972	77.1	85	122	4
KS941064-6	20	2937	77	83	118	2
T93	41	2880	77.7	82	113	6
W94-245	32	2868	75.1	85	114	7
OK94P461	6	2819	77.7	88	115	2
TX94V3329	11	2597	75.5	85	118	6
WX94-3504	34	2568	77.9	97	116	3
T89	39	2450	75.3	83	114	7
TX94V2130	15	2432	78	83	116	8
TX95V5332	14	2333	74.7	78	117	7
CO920696	17	2278	70	82	116	7
SCOUT66	2	2170	75.5	93	116	6
TAM-107	3	2071	73.1	88	114	9
CO940700	18	1854	73.4	88	115	7
KHARKOF	1	1684	78.4	90	117	5
MEAN		3247				
LSD(.05)		700				
C.V.		13.2				

ALTUS

OKLAHOMA

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	PLANT	:	LEAF RUST:
ENTRY:	:	:	:	:	WEIGHT	:	HEIGHT	:	SEVERITY :
SEL. NO.	:	NO. :	KG/HA	:	KG/HL	:	CM	:	0-9 :
TX91D6856	:	8	4856	:	73.5	:	93	:	1
TX94V2327	:	10	4489	:	73.7	:	93	:	1
KS84W063-9393	:	23	4473	:	73.4	:	91	:	1
XH1881	:	37	4434	:	72	:	93	:	1
NE94632	:	28	4268	:	71.2	:	94	:	3
T86	:	40	4253	:	72.9	:	93	:	5
W94-042	:	29	4204	:	72.8	:	82	:	2
KS940935-1255	:	21	4166	:	75.2	:	87	:	2
GI2017	:	45	4135	:	73.9	:	94	:	3
W94-320	:	31	4111	:	73	:	93	:	3
N95L158	:	24	4048	:	67.7	:	88	:	2
TX94V3329	:	11	3974	:	77.1	:	92	:	6
TX95V4933	:	13	3950	:	70	:	89	:	5
TX91D6825	:	7	3876	:	73.8	:	89	:	2
NE93427	:	26	3819	:	76.5	:	98	:	3
KS94H147	:	19	3790	:	72.5	:	92	:	6
XH1877	:	36	3565	:	72.1	:	86	:	3
GI1720	:	44	3560	:	72.2	:	84	:	3
W94-435	:	33	3529	:	73.9	:	83	:	5
WX94-3504	:	34	3486	:	75.1	:	81	:	3
KS85W663-11-6	:	22	3468	:	72.4	:	86	:	1
GI594	:	43	3360	:	73.8	:	91	:	2
OK94P549	:	5	3317	:	74.8	:	90	:	2
TX95V4926	:	12	3291	:	70.6	:	84	:	6
TX95V5332	:	14	3247	:	73.3	:	89	:	4
W94-137	:	30	3111	:	72.6	:	86	:	6
OK93617	:	4	3104	:	76.1	:	94	:	5
HBG0358	:	9	3038	:	76.5	:	96	:	2
WX95-2401	:	38	3022	:	77.4	:	88	:	3
CO910424	:	16	2911	:	73.4	:	87	:	8
W94-245	:	32	2911	:	75.1	:	86	:	6
T94	:	42	2911	:	76	:	92	:	4
NE93405	:	25	2903	:	74.8	:	91	:	4
T93	:	41	2859	:	75.2	:	93	:	6
T89	:	39	2842	:	74.4	:	89	:	6
NE93496	:	27	2820	:	75.1	:	98	:	4
KS941064-6	:	20	2620	:	74.9	:	91	:	2
WX94-1604	:	35	2478	:	75.6	:	88	:	1
CO920696	:	17	2359	:	69.4	:	87	:	8
TAM-107	:	3	2268	:	74	:	91	:	9
OK94P461	:	6	2172	:	73.7	:	84	:	2
SCOUT66	:	2	2159	:	74.2	:	93	:	5
CO940700	:	18	2064	:	73.8	:	88	:	7
TX94V2130	:	15	1953	:	76.4	:	85	:	9
KHARKOF	:	1	1115	:	72.1	:	91	:	4
MEAN	:		3318	:		:		:	
LSD (.05)	:		657	:		:		:	
C.V.	:		12.1	:		:		:	

LAHOMA

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : KG/HL	: PLANT : HEIGHT : CM
OK94P549	5	5360	75.2	81
TX91D6856	8	5326	72.9	92
KS940935-1255	21	5188	76.4	90
TX91D6825	7	5177	75.5	87
KS85W663-11-6	22	4950	73.3	82
XH1881	37	4917	71.9	88
OK93617	4	4890	73.9	81
NE93427	26	4833	71.3	87
OK94P461	6	4788	71.9	78
KS941064-6	20	4690	68.8	80
WX94-3504	34	4666	74.3	81
W94-042	29	4650	73.4	88
NE94632	28	4620	70.8	86
HBG0358	9	4523	75.5	88
KS84W063-9393	23	4326	72.9	89
KS94H147	19	4180	72.8	87
T89	39	4119	70	89
T86	40	4117	72.4	94
TX94V2327	10	4085	72.2	88
TX95V4926	12	4022	73	87
TX95V4933	13	4006	70.6	89
W94-435	33	3985	72	84
XH1877	36	3970	71	90
G1594	43	3969	73.3	89
N95L158	24	3965	65.8	83
G1720	44	3908	71.2	98
G12017	45	3859	67.1	86
NE93405	25	3822	74.2	91
WX94-1604	35	3791	69.1	90
T94	42	3755	74.6	87
W94-245	32	3694	71.5	77
TX95V5332	14	3551	73.8	90
NE93496	27	3361	72.5	87
W94-320	31	3244	68.4	90
WX95-2401	38	3230	68.9	87
T93	41	3214	72.4	93
CO910424	16	3208	70.3	87
CO940700	18	3156	66.4	83
W94-137	30	3013	70.7	86
CO920696	17	2932	65.9	83
TX94V3329	11	2923	71.9	87
TAM-107	3	2744	66	84
SCOUT66	2	2622	73.7	91
TX94V2130	15	2606	67.1	87
KHARKOF	1	1582	72.8	99
MEAN		3945		
LSD (.05)		520		
C.V.		8.1		

GOODWELL

OKLAHOMA

THREE REPLICATIONS

	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO	
C.I. OR	:	ENTRY:	:	WEIGHT	:	HEIGHT	:	HEADING	:	
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:
OK94P549		5		5555		75.7		79		134
TX91D6856		8		5374		72		78		132
KS84W063-9393		23		5143		74.8		82		134
KS85W663-11-6		22		4813		75.7		82		133
XH1881		37		4807		73.9		79		132
TX95V4926		12		4776		74.6		89		135
W94-245		32		4700		73.7		82		133
KS941064-6		20		4617		71.6		81		133
WX94-3504		34		4544		74.7		84		132
XH1877		36		4543		72.1		76		131
OK93617		4		4500		74.6		76		133
HBG0358		9		4460		74.6		82		132
G1594		43		4445		73.3		90		134
TX95V4933		13		4386		72.2		75		134
TX94V2327		10		4354		73		79		133
OK94P461		6		4329		74.6		84		135
W94-042		29		4307		75.3		77		133
WX94-1604		35		4203		71.3		83		133
KS940935-1255		21		4196		75.3		82		132
KS94H147		19		4110		74.7		80		133
T89		39		4088		74.6		86		132
WX95-2401		38		4003		75.1		80		134
NE93427		26		3974		75.6		78		133
G12017		45		3973		71.1		94		137
W94-320		31		3947		70		84		133
G1720		44		3941		72.6		82		134
TX95V5332		14		3895		76.1		84		134
TX91D6825		7		3873		74.3		76		133
CO910424		16		3845		75.3		80		133
NE94632		28		3736		69.5		88		134
W94-435		33		3688		74.3		82		132
CO920696		17		3676		71.9		77		131
NE93405		25		3553		74.7		75		133
W94-137		30		3546		72.9		85		133
NE93496		27		3519		74.7		81		133
TX94V2130		15		3389		72.9		78		133
T94		42		3388		73.9		85		132
N95L158		24		3382		67.5		80		133
T93		41		3300		72.9		84		133
TX94V3329		11		3212		77.8		76		132
CO940700		18		3139		73.9		83		134
T86		40		3034		73.4		81		132
TAM-107		3		2773		71.6		75		133
SCOUT66		2		2359		76.4		80		134
KHARKOF		1		2197		75.1		85		136
MEAN				3991						
LSD (.05)				578						
C.V.				8.9						

HUTCHINSON, KANSAS; THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING %	LEAF RUST: SEV.	GRN LEAF: RESP: 0-9	LEAF DURATION: 0-9	GRAIN PROTEIN	GRAIN HARDNESS
KS941064-6	20	4109	73	75	134	0	10	3	9	14	85
KS84W063-9393	23	4084	75.3	85	137	15	1	8	9	16	81
KS85W663-11-6	22	4062	76.1	77	136	0	0	2	8.5	16.1	59
T86	40	3927	76	85	129	7	80	8	9	13.7	91
WX95-2401	38	3925	78	72	134	0	20	7	8.5	15.7	76
NE94632	28	3923	74.6	80	131	7	20	8	7	15.2	77
XH1881	37	3892	69.4	85	134	3	0	2	9	15.5	73
KS940935-1255	21	3824	72.4	83	134	23	10	7	8.5	14.6	82
NE93496	27	3726	77.1	87	139	0	20	8	9	16.3	79
TX91D6825	7	3712	72.5	83	136	0	10	7	8.5	14.5	87
T94	42	3703	77	85	131	0	20	8	9	14.6	79
WX94-3504	34	3672	74.6	75	131	3	5	3	9	15.5	105
WX94-1604	35	3663	74.4	80	132	40	10	8	8.5	16.1	80
OK94P461	6	3593	70.8	77	131	0	10	3	9	15.1	70
OK93617	4	3571	76.1	77	132	0	20	8	8	15.2	85
NE93405	25	3551	78.3	95	135	3	20	7	9	16.1	83
XH1877	36	3528	72.2	80	133	0	20	8	9	15.2	66
TX91D6856	8	3526	68.4	75	135	0	0	2	8.5	14.7	49
CO910424	16	3508	75.5	80	133	0	80	8	9	14.2	77
T93	41	3488	73.8	85	132	30	10	8	9	14.9	72
OK94P549	5	3477	73.5	83	133	0	10	7	8	14.9	74
T89	39	3463	72.9	80	129	0	.	5	9	14.8	82
NE93427	26	3454	74.3	83	135	0	20	8	9	15.3	73
W94-245	32	3454	75.5	70	134	3	30	7	9	15.7	95
G1594	43	3416	74.9	92	139	13	20	8	9	14.9	75
G1720	44	3401	72.9	80	136	0	30	8	9	16.7	82
G12017	45	3356	73	85	133	70	60	8	9	14.8	83
W94-042	29	3351	73.8	72	138	73	20	8	9	16.1	83
KS94H147	19	3329	74.8	70	140	0	50	8	9	15.3	82
TX94V2327	10	3295	72	80	135	18	20	8	9	15.5	89
TX95V5332	14	3291	73	83	137	0	80	8	9	15.7	31
CO940700	18	3257	69.5	72	131	0	30	8	9	15.1	74
TX94V2130	15	3253	73	77	129	45	100	8	9	13.1	73
W94-320	31	3127	73.1	83	134	33	40	8	9	15.3	84
TX95V4926	12	3100	70.3	77	137	0	100	8	9	14.9	74
W94-137	30	3020	70.8	75	136	0	60	8	8.5	15.6	73
W94-435	33	2981	75.6	75	135	0	5	8	9	14.2	83
TAM-107	3	2955	72.2	80	128	10	100	8	9	13.2	80
TX95V4933	13	2876	70.2	75	137	0	100	8	9	14.8	80
N95L158	24	2863	72.4	75	137	0	20	8	6.5	15.6	76
CO920696	17	2647	72.1	77	130	13	80	8	9	13.9	65
TX94V3329	11	2641	60.2	72	134	57	20	8	9	15	31
SCOUT66	2	2517	74.3	95	139	93	80	8	9	14.9	81
HBG0358	9	2287	70.4	80	135	0	5	3	9	14.8	79
KHARKOP	1	2260	73.5	95	144	90	20	8	8	16.1	55
MEAN		3379									
LSD (.05)		391									
C.V.		7.1									

HAYS

KANSAS

TWO REPLICATIONS

	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO
C.I. OR	:	ENTRY:	:	:	WEIGHT	:	HEIGHT	:	HEADING :
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	: FROM 1/1:
XH1881		37		4408		80.6		72	135
GI2017		45		3998		79.8		79	135
NE93427		26		3981		84		74	135
W94-137		30		3958		82.4		66	136
TX94V2130		15		3951		82.8		70	133
N95L158		24		3911		79.5		67	137
NE94632		28		3907		80.4		74	132
W94-042		29		3870		82.2		66	137
KS94H147		19		3857		82.8		67	138
TX91D6856		8		3843		79.3		66	136
W94-320		31		3810		79.5		70	137
WX94-1604		35		3803		81.9		74	133
T94		42		3803		81.5		75	134
CO910424		16		3786		82.7		75	136
XH1877		36		3769		81.9		72	135
OK94P549		5		3732		82.4		74	129
CO920696		17		3716		81.5		69	133
TX95V4933		13		3584		79.2		69	135
OK94P461		6		3578		80.3		69	135
TX95V5332		14		3564		79.8		72	138
KS940935-1255		21		3537		81.1		74	136
TAM-107		3		3527		80.6		67	132
NE93405		25		3527		82		75	134
KS941064-6		20		3524		79.9		69	136
CO940700		18		3504		82.6		64	134
TX94V2327		10		3477		78.1		74	136
TX91D6825		7		3457		79.3		70	137
T89		39		3453		80.9		67	133
W94-245		32		3440		83.6		65	133
HBG0358		9		3410		80		74	135
WX95-2401		38		3410		82.8		65	134
NE93496		27		3403		80.8		74	136
KS84W063-9393		23		3386		80.8		74	138
W94-435		33		3336		81.9		65	135
T86		40		3315		81.3		74	132
T93		41		3302		81.7		74	134
SCOUT66		2		3278		82.1		79	135
G1594		43		3278		82.6		75	137
OK93617		4		3215		80.8		64	135
G1720		44		3201		81.8		72	137
KS85W663-11-6		22		3104		82		69	137
WX94-3504		34		3070		82.5		65	134
TX95V4926		12		2949		80		69	136
TX94V3329		11		2794		83.7		62	135
KHARKOF		1		2350		76.8		90	141
MEAN				3535					
LSD (.05)				692					
C.V.				9.7					

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	LODGING %	LEAF RUST SEV. %	GRN LEAF RESP 0-9	GRAIN DURATION 0-9	GRAIN PROTEIN %	GRAIN HARDNESS
XH1881	37	5947	78.8	100	137	0	0	3	6	10.5	99
KS940935-1255	21	5683	78.8	100	136	0	0	2	5	11.2	107
KS94H147	19	5676	81.8	95	139	0	10	8	6	12	113
GI2017	45	5564	78.2	103	137	0	5	8	8	10.5	107
NE93427	26	5553	80.9	100	135	0	30	8	8	11.6	100
OK94P461	6	5358	79.9	87	135	0	0	2	5	12.2	89
KS941064-6	20	5344	75.9	85	136	0	0	2	4	10.9	103
TX91D6825	7	5286	77.8	105	137	0	0	2	4	10.8	116
WX95-2401	38	5268	81.3	90	136	0	5	8	8	12.1	99
WX94-1604	35	5252	79.1	95	133	0	0	2	7	11.7	102
W94-320	31	5174	79.5	100	136	0	1	8	6	11.2	109
TX94V2327	10	5109	78.3	95	136	0	1	8	5	11.6	111
KS85W663-11-6	22	5093	79.6	95	137	0	0	2	4	12.3	75
TX91D6856	8	4938	77.1	85	137	0	0	2	6	10.6	81
XH1877	36	4923	78.9	90	135	0	1	8	9	11.3	89
T86	40	4918	79.3	103	134	0	20	8	9	11.5	113
N95L158	24	4905	78.2	92	138	0	10	8	8	11.1	105
GI594	43	4903	79.5	110	137	0	50	8	8	11.8	91
GI720	44	4885	79.1	98	137	0	10	8	8	13	103
WX94-3504	34	4849	79.7	87	135	0	0	3	6	12.3	122
NE94632	28	4844	78.6	92	135	0	0	3	6	11	101
W94-435	33	4829	79.7	87	138	0	1	7	5	12.3	104
T94	42	4770	79.9	103	135	0	40	8	9	12.3	104
KS84W063-9393	23	4752	79.7	103	138	0	0	2	5	13.4	111
W94-042	29	4634	79.7	87	139	0	0	3	6	12.2	112
CO910424	16	4577	79.2	100	136	0	80	8	9	10.2	98
T93	41	4557	79.1	103	134	0	60	8	9	13	96
W94-137	30	4510	80.4	87	139	0	20	8	8	11.8	106
NE93405	25	4501	79.9	105	135	0	20	8	7	12.4	101
TX94V3329	11	4441	80.9	90	137	0	20	8	8	12.3	41
T89	39	4423	78.2	92	135	0	80	8	8	12.5	98
TX94V2130	15	4376	79.1	90	133	0	100	8	9	10.3	92
OK94P549	5	4373	79.6	90	135	0	0	2	4	11.4	102
CO940700	18	4246	78.8	95	136	0	60	8	9	11.3	100
NE93496	27	4241	79.5	113	138	0	5	8	7	13.6	102
TX95V4926	12	4208	76.8	90	137	0	100	8	9	11.6	98
HBG0358	9	4201	80.4	105	136	0	0	3	3	11.3	109
W94-245	32	4170	79.2	80	136	0	30	8	8	12.1	117
CO920696	17	4113	77.1	90	136	0	80	8	9	10.4	88
OK93617	4	4078	79.2	85	136	0	20	8	7	12.4	98
TX95V4933	13	4055	77.1	92	136	0	100	8	9	10.8	112
TAM-107	3	3983	78.7	90	133	0	80	8	9	10.9	111
TX95V5332	14	3977	77.7	107	138	0	20	8	8	12.5	47
SCOUT66	2	3531	79.2	122	138	47	60	8	9	12.4	98
KHARKOF	1	2414	77.7	137	142	73	30	8	8	14.2	76
MEAN		4698									
LSD(.05)		799									
C.V.		10.4									

COLBY

KANSAS

THREE REPLICATIONS

	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO	
C.I. OR	:	ENTRY:	:	:	WEIGHT	:	HEIGHT	:	HEADING :	
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:
XH1881		37		4518		77.8		76		139
TX94V3329		11		4024		79.5		66		142
WX94-1604		35		4003		77.7		71		138
XH1877		36		3988		75.6		66		141
TX94V2327		10		3957		73.5		76		143
TX91D6856		8		3940		72.6		66		144
WX95-2401		38		3930		79.3		71		141
TX95V4933		13		3917		75.5		66		143
KS94H147		19		3882		79.6		71		143
W94-137		30		3847		78.6		66		142
HBG0358		9		3784		76.9		76		143
GI2017		45		3782		73.8		71		139
CO940700		18		3749		78.8		71		140
NE93427		26		3729		79.5		66		140
TX94V2130		15		3714		78.9		66		139
CO910424		16		3698		78.3		71		141
W94-042		29		3685		79.5		61		142
OK94P549		5		3656		78.7		66		141
W94-245		32		3630		78.7		61		143
TAM-107		3		3580		77.7		71		138
SCOUT66		2		3564		79.7		91		143
NE93405		25		3546		78.3		81		141
KS85W663-11-6		22		3540		78.4		71		141
TX95V4926		12		3539		75.3		66		142
W94-320		31		3519		78.4		71		142
NE94632		28		3518		74.8		76		139
CO920696		17		3502		76		66		140
TX91D6825		7		3480		76.4		76		143
T94		42		3452		79.1		76		139
KHARKOF		1		3423		77.9		102		148
TX95V5332		14		3395		74.8		71		144
GI594		43		3383		76.9		76		144
N95L158		24		3365		76.4		66		142
T86		40		3350		78.8		71		139
T89		39		3333		75.6		66		140
W94-435		33		3297		77.8		66		143
KS941064-6		20		3283		72.6		66		141
KS84W063-9393		23		3280		74.9		76		144
WX94-3504		34		3252		77.9		61		140
OK94P461		6		3223		78.8		66		141
NE93496		27		3191		76.9		81		144
GI720		44		3118		77.3		71		141
KS940935-1255		21		3080		77.9		66		142
T93		41		3039		76		71		138
OK93617		4		2781		76		61		143
MEAN				3566						
LSD (.05)				484						
C.V.				8.3						

GARDEN CITY

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: PLANT : CM :	: DAYS TO : FROM 1/1:
	: ENTRY:	: WEIGHT	: HEIGHT	: HEADING	
TX91D6856	8	3306	76.7	73	140
HBG0358	9	3271	78.6	81	140
TX95V4933	13	3181	74.6	75	140
TX94V2130	15	3087	77.8	74	136
G1594	43	3082	78.4	83	142
TX95V5332	14	3040	76.2	80	143
CO910424	16	3033	78.2	80	137
W94-245	32	3031	77.2	74	139
W94-042	29	2972	78.8	74	140
G12017	45	2972	76.2	81	137
TX94V3329	11	2966	80.8	72	140
WX95-2401	38	2946	78.9	74	139
KS94H147	19	2928	80.3	83	141
W94-320	31	2921	77.3	82	139
CO940700	18	2907	79.5	78	138
N95L158	24	2903	73.1	75	140
CO920696	17	2890	77.5	75	135
SCOUT66	2	2854	78.6	90	139
TX94V2327	10	2842	75.7	80	141
NE93427	26	2842	79.4	77	139
T94	42	2820	78.3	84	138
W94-435	33	2813	77.9	74	140
OK94P549	5	2802	78.7	76	139
TX95V4926	12	2791	74.1	75	140
NE93496	27	2789	77.3	93	142
TX91D6825	7	2777	77.3	79	142
XH1881	37	2748	75.8	75	139
W94-137	30	2746	78.5	75	140
T86	40	2724	77	77	135
TAM-107	3	2717	76	73	136
T89	39	2645	76.1	77	135
NE94632	28	2621	75.4	80	136
NE93405	25	2616	77.7	84	139
T93	41	2616	77.3	83	137
G1720	44	2547	76.5	81	139
KS85W663-11-6	22	2535	76.5	76	139
XH1877	36	2531	75.7	73	136
KS940935-1255	21	2477	78.1	70	139
KHARKOF	1	2475	77.4	116	146
OK94P461	6	2405	77.8	72	139
KS941064-6	20	2396	75.4	69	140
WX94-1604	35	2392	77	74	136
WX94-3504	34	2374	78.2	70	137
OK93617	4	2338	77.2	68	138
KS84W063-9393	23	2074	74.9	80	142
MEAN		2772			
LSD (.05)		474			
C.V.		10.5			

WICHITA-I

KANSAS

TWO REPLICATIONS

C.I. OR	ENTRY:	YIELD	VOLUME	PLANT	DAYS TO	LODGING	LEAF RUST:	SEM
SEL. NO.	NO.	KG/HA	KG/HL	CM	FROM 1/1:	0-9	0-9	0-9
TX91D6825	7	5408	74.8	94	128	5	1	1
CO910424	16	5292	74.6	91	126	5	8	1
HBG0358	9	5260	74.6	91	125	4	2	1
KS94H147	19	5128	76.7	86	129	4	5	1
WX94-3504	34	5078	73.5	81	124	4	3	1
G1594	43	4979	73.7	91	128	4	5	1
XH1881	37	4977	72.7	86	125	3	3	1
W94-320	31	4974	72.4	89	127	5	3	1
XH1877	36	4953	72.4	89	127	3	4	2
OK94P461	6	4943	73.5	86	126	3	2	1
G12017	45	4816	73.8	91	126	4	4	1
T93	41	4617	74.9	86	125	4	7	1
T94	42	4597	75.1	86	124	5	5	2
W94-137	30	4536	72.4	76	127	2	4	1
OK94P549	5	4533	73.6	71	125	4	2	6
KS84W063-9393	23	4524	73.3	91	128	4	3	2
N95L158	24	4522	69.7	81	129	3	7	1
TX91D6856	8	4509	70	91	128	2	2	2
TX94V2130	15	4378	72.6	86	125	8	9	2
KS940935-1255	21	4359	71.7	91	128	6	2	1
NE93427	26	4218	75.5	84	126	5	4	1
WX95-2401	38	4123	73.6	91	125	5	3	2
KS85W663-11-6	22	4053	71.4	76	127	4	2	1
KS941064-6	20	3998	72.2	76	125	3	2	2
G1720	44	3962	73	91	129	3	3	1
TX95V4933	13	3830	68.6	76	129	5	8	7
NE94632	28	3768	70.8	84	125	5	3	5
NE93496	27	3712	72.7	97	129	2	4	4
T86	40	3690	71.7	81	124	5	6	4
TX94V2327	10	3425	69	86	129	8	3	8
W94-435	33	3413	71.4	86	126	3	2	5
T89	39	3382	70.1	86	125	4	4	1
TX95V4926	12	3374	70.4	76	129	5	5	6
W94-245	32	3355	72.6	71	126	7	7	6
OK93617	4	3316	72.4	66	126	4	2	8
WX94-1604	35	3296	72.6	81	124	8	2	1
NE93405	25	3180	72.3	81	125	4	4	7
TX94V3329	11	3076	71.9	81	127	8	8	7
TX95V5332	14	2971	68.8	91	129	8	7	6
W94-042	29	2863	70.8	76	130	9	2	7
CO920696	17	2847	70.8	91	127	8	9	4
TAM-107	3	2651	70.4	76	124	5	9	5
CO940700	18	2609	72.8	76	127	5	4	8
KHARKOF	1	2528	73.8	102	133	8	6	6
SCOUT66	2	2235	70.8	102	129	9	9	9

MEAN 4006
 LSD(.05) 954
 C.V. 11.8

WINFIELD

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: DAYS TO : HEADING FROM 1/1:	: SBM : 0-5 :	: LEAF RUST: : SEVERITY : : 0-5 :
GI2017	45	4726	75.9	128	1	3
W94-137	30	4699	77.4	131	1	2
XH1881	37	4689	74.2	127	1	1
OK94P461	6	4633	76.1	126	1	2
KS84W063-9393	23	4586	76.1	130	1	1
CO910424	16	4582	77.4	127	1	5
KS94H147	19	4548	78.7	131	1	4
G1594	43	4521	76.8	130	1	3
WX95-2401	38	4485	77.4	125	1	3
WX94-1604	35	4480	75.5	125	1	2
KS940935-1255	21	4310	76.1	128	1	2
XH1877	36	4247	75.5	127	1	3
KS85W663-11-6	22	4233	76.1	128	1	1
N95L158	24	4219	74.2	131	1	2
OK94P549	5	4123	76.8	126	3	2
TX91D6856	8	4074	73.5	130	3	2
G1720	44	4059	76.1	129	1	3
T93	41	3984	77.4	126	1	4
T89	39	3898	75.5	124	1	2
TX94V2130	15	3891	77.4	125	1	5
OK93617	4	3862	75.5	128	4	4
TX91D6825	7	3851	75.5	130	1	1
T94	42	3777	76.8	126	1	2
NE93427	26	3744	77.4	127	1	2
HBG0358	9	3739	76.1	127	1	1
KS941064-6	20	3730	74.8	127	1	2
W94-320	31	3676	76.8	129	1	3
T86	40	3620	77.4	124	1	3
TX94V3329	11	3600	78	127	4	5
WX94-3504	34	3551	76.1	126	1	3
NE93496	27	3520	77.4	131	1	4
TX95V4926	12	3397	72.9	131	3	5
W94-042	29	3366	77.4	130	3	2
W94-435	33	3338	76.1	129	1	3
CO940700	18	3267	74.8	127	3	4
TX94V2327	10	3208	75.5	129	3	4
TAM-107	3	3148	73.5	125	4	5
NE94632	28	3145	75.5	126	1	2
SCOUT66	2	3086	77.4	131	4	5
TX95V4933	13	3040	72.2	130	1	5
W94-245	32	2912	75.5	130	4	3
TX95V5332	14	2760	73.5	131	4	5
CO920696	17	2747	71	127	3	5
NE93405	25	2648	76.1	125	4	3
KHARKOF	1	2526	74.8	133	4	5
MEAN		3783				
LSD(.05)		805				
C.V.		13.0				

WICHITA-II, KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING 0-9	: LEAF RUST: SEVERITY 0-9	: SBM VIRUS 0-9	:
HBG0358	9	4988	88	131	3	2	1	
K884W063-9393	23	4901	91	134	4	4	1	
WX95-2401	38	4782	80	130	4	4	1	
TX91D6825	7	4663	91	134	6	2	1	
XH1881	37	4652	89	131	3	2	1	
NE93427	26	4584	86	130	4	5	1	
WX94-1604	35	4576	87	128	4	3	1	
K885W663-11-6	22	4466	83	133	3	1	1	
WX94-3504	34	4464	80	128	4	5	1	
K8940935-1255	21	4290	82	130	4	4	1	
2137	47	4203	81	132	4	5	1.3	
JAGGER	48	4190	80	128	5	3	1	
K8941064-6	20	4133	77	130	3	2	1	
G12017	45	4067	82	130	4	8	1	
OK94P461	6	4054	73	130	2	3	1	
K894H147	19	4036	83	135	3	3	1	
CO910424	16	3934	83	130	5	7	1	
TX94V2130	15	3892	76	126	7	9	1	
G1720	44	3741	80	133	3	6	1	
TX91D6856	8	3687	74	134	4	1	5.7	
W94-137	30	3679	74	134	3	7	1	
T94	42	3675	86	129	5	7	1.3	
T93	41	3663	83	129	4	7	1	
XH1877	36	3579	78	131	3	7	2	
W94-320	31	3567	85	132	6	5	1	
G1594	43	3445	97	134	5	8	1	
N95L158	24	3429	80	134	3	7	1	
OK94P549	5	3328	75	132	3	2	7	
T86	40	3208	87	129	6	7	3	
T89	39	3108	80	128	4	8	2	
HAWK	46	2935	85	133	6	8	1	
NE94632	28	2882	77	133	4	1	4.7	
W94-435	33	2803	75	134	3	3	3.3	
TX94V2327	10	2668	73	133	5	6	6.3	
NE93496	27	2491	90	135	3	1	6.3	
TX95V5332	14	2349	87	135	5	7	4	
W94-042	29	2344	66	136	4	3	6.7	
OK93617	4	2340	67	133	5	4	6.3	
SCOUT66	2	2098	91	136	7	5	6.3	
TX95V4926	12	1964	69	135	6	7	5.7	
NE93405	25	1827	87	131	4	3	7.7	
TX95V4933	13	1766	69	135	4	8	6.3	
W94-245	32	1736	62	134	3	4	6.7	
TAM-107	3	1719	71	128	5	6	6.3	
TX94V3329	11	1569	68	135	8	4	7.3	
KHARKOF	1	1453	95	140	7	3	6.7	
CO920696	17	1308	70	133	5	8	7	
CO940700	18	1249	61	135	4	5	7.7	
MEAN		3302						
LSD (.05)		722						
C.V.		13.4						

SALINA, KANSAS

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	% OVER	:	MATURITY	:	LEAF RUST:	
SEL. NO.	:	ENTRY:	:	WEIGHT	:	6.5/64	:	:	SEV.:	:	RESP:	
	:	NO.	:	KG/HA	:	KG/HL	:	SCREEN	:	0-9	:	0-9: 0-9:
NE94632		28		6918		80.5		53		3		2 2
WX94-1604		35		6783		81.5		74		3		1 6
W94-042		29		6671		82.3		47		4		3 3
XH1881		37		6644		80.8		52		4		2 2
W95-188		47		6593		83.1		73		3		1 1
TX94V2327		10		6591		80.8		62		3		2 7
TX91D6856		8		6566		80		51		4		2 2
KS941064-6		20		6566		78.2		61		3		2 2
NE93427		26		6537		82.4		69		3		2 7
W94-320		31		6537		80.8		66		4		6 8
TX91D6825		7		6510		80		40		3		1 2
WX94-3504		34		6483		81.5		72		4		3 8
G12017		45		6429		81.3		34		5		4 7
KS94H147		19		6158		83.1		71		4		3 5
W95-221		48		6158		81.5		65		6		1 1
W95-210		46		6104		82.8		63		4		3 3
KS85W663-11-6		22		6077		81.5		72		4		1 1
WX95-2401		38		6077		82.4		31		4		3 4
HBG0358		9		6023		82		51		5		1 2
N95L158		24		5994		79.3		58		4		9 8
KS940935-1255		21		5981		79.7		43		4		3 5
CO910424		16		5940		81.9		68		6		9 9
TX95V5332		14		5914		80.5		51		4		9 9
T86		40		5804		81.7		51		4		9 9
CO940700		18		5750		81.9		60		5		9 9
NE93405		25		5750		82.4		79		4		3 7
G1720		44		5723		80.9		61		4		5 3
TX95V4933		13		5696		79.2		51		4		9 9
W94-245		32		5696		81.5		26		5		6 3
XH1877		36		5696		79.7		59		4		6 7
KS84W063-9393		23		5669		81.3		42		5		3 8
T94		42		5642		82.4		68		4		8 9
OK94P549		5		5615		82.8		62		4		1 1
TX95V4926		12		5615		79.6		44		5		9 9
TX94V2130		15		5615		81.1		40		3		9 9
W94-435		33		5615		81.9		34		5		3 5
OK94P461		6		5588		81.9		63		5		1 1
NE93496		27		5588		82		63		5		5 7
G1594		43		5588		82.3		79		5		8 9
T93		41		5344		81.3		54		4		9 9
OK93617		4		5317		81.3		76		5		1 1
TAM-107		3		5154		79.3		47		3		9 9
W94-137		30		5154		82.7		48		3		6 6
T89		39		4721		80.1		64		3		9 9
CO920696		17		4530		80.1		46		5		9 9
SCOUT66		2		4396		81.3		64		6		8 8
TX94V3329		11		4230		83.6		38		5		6 9
KHARKOF		1		3472		80.4		19		7		7 8
MEAN				5817								
LSD (.05)				588								
C.V.				6.2								

FORT COLLINS, COLORADO

TWO REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL :
TX91D6856	8	8051	72.4
W94-137	30	7794	75.8
XH1881	37	7211	72.3
CO910424	16	7135	75.2
W94-320	31	7085	74
OK94P549	5	7043	74.6
XH1877	36	6915	75.4
CO940700	18	6911	74.6
HBG0358	9	6814	75.1
KS940935-1255	21	6760	72.3
KS85W663-11-6	22	6687	74
W94-435	33	6554	74.3
N95L158	24	6536	72.3
G1594	43	6516	74.7
T86	40	6514	73.3
AKRON	47	6452	74.7
CO920696	17	6450	73.2
ARLIN	49	6421	74.3
KS94H147	19	6384	76.3
NE94632	28	6346	72.9
NE93427	26	6296	75.5
W94-245	32	6292	74.7
T94	42	6255	76.6
TAM-107	3	6245	73.8
WX94-3504	34	6242	73
NE93405	25	6195	75.5
WX95-2401	38	6138	75.8
TX94V2327	10	6059	72
TX95V4926	12	6003	71.6
TX91D6825	7	5975	72.7
T93	41	5889	74.4
HALT	48	5852	74.3
WX94-1604	35	5851	74
NE93496	27	5786	75.5
OK93617	4	5652	76.4
G1720	44	5634	73.7
W94-042	29	5621	74
T89	39	5579	74.3
TX95V5332	14	5555	73.2
KS84W063-9393	23	5553	74.7
OK94P461	6	5544	72.7
G12017	45	5428	73.3
KS941064-6	20	5427	71.6
TX94V2130	15	5248	73.8
NE84557	50	5174	76.4
TX95V4933	13	5090	72.3
TX94V3329	11	4757	74.6
PROWERS	46	4527	75.7
SCOUT66	2	3552	74.4
KHARKOF	1	2593	75.2
MEAN		6052	
LSD (.05)		1330	
C.V.		10.9	

AKRON, COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
XH1881	37	3333	75.1
CO910424	16	3294	77.2
TX94V3329	11	3235	78.7
CO940700	18	2990	76.8
AKRON	47	2925	75.3
CO920696	17	2865	75.7
HALT	48	2831	75.8
KS94H147	19	2796	77.1
SCOUT66	2	2769	76.7
HBG0358	9	2692	72.3
T94	42	2675	75.5
TX91D6825	7	2669	72.8
W94-137	30	2666	75.6
PROWERS	46	2660	75.6
TAM-107	3	2645	74.4
WX95-2401	38	2603	75.6
NE93427	26	2589	77.5
WX94-1604	35	2540	76.2
TX94V2327	10	2527	69.4
G12017	45	2515	71.1
NE93405	25	2441	74.5
W94-320	31	2438	70.9
W94-245	32	2389	75.3
OK94P549	5	2387	74.5
TX95V5332	14	2387	70.9
KS85W663-11-6	22	2377	75.9
ARLIN	49	2377	77
KHARKOF	1	2368	74
T89	39	2361	75
TX91D6856	8	2339	71.2
W94-042	29	2333	77.3
WX94-3504	34	2323	76.6
TX94V2130	15	2305	76.1
XH1877	36	2260	72.2
NE93496	27	2237	71.8
TX95V4933	13	2236	69
KS940935-1255	21	2226	72.3
KS84W063-9393	23	2138	73.7
N95L158	24	2118	75.2
NE84557	50	2064	77.2
T93	41	2000	74.1
OK94P461	6	1929	75
NE94632	28	1865	71.1
KS941064-6	20	1853	72.8
G1594	43	1830	73.7
W94-435	33	1785	71
T86	40	1777	75.2
TX95V4926	12	1767	69.7
OK93617	4	1758	74.6
G1720	44	1517	70.9
MEAN		2400	
LSD (.05)		593	
C.V.		15.2	

JULESBURG, COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
CO910424	16	3601	78.7
XH1881	37	3576	77.5
WX95-2401	38	3492	78
W94-435	33	3303	78.8
AKRON	47	3303	77.8
WX94-1604	35	3220	76.6
HBG0358	9	3206	75.9
NE93405	25	3188	79.5
SCOUT66	2	3167	78.3
TX94V2327	10	3146	76.8
TX91D6825	7	3123	76.3
TX95V5332	14	3070	76.3
TX91D6856	8	3068	75.7
PROWERS	46	3068	79
KS94H147	19	3055	79.2
W94-320	31	3043	76.9
KS85W663-11-6	22	3018	76.8
KS84W063-9393	23	3014	77.3
NE93496	27	3009	77.1
CO940700	18	2975	78.1
NE93427	26	2957	78.8
TX95V4933	13	2944	74.8
W94-137	30	2911	78.6
WX94-3504	34	2886	78.6
T94	42	2885	76.3
G12017	45	2855	76.1
W94-042	29	2797	78
KHARKOF	1	2793	77.6
TAM-107	3	2763	76.1
W94-245	32	2752	78.3
OK94P549	5	2750	77.7
TX95V4926	12	2699	75.8
N95L158	24	2663	77.9
CO920696	17	2654	77.1
NE94632	28	2651	74.5
XH1877	36	2636	76.3
NE84557	50	2619	77.1
OK94P461	6	2610	75.9
KS940935-1255	21	2568	76.9
TX94V2130	15	2557	77.1
T89	39	2547	77.2
TX94V3329	11	2527	81
T86	40	2524	75.4
HALT	48	2462	75.9
KS941064-6	20	2446	74.6
G1594	43	2377	77.2
T93	41	2342	76.9
G1720	44	2267	75.9
ARLIN	49	2167	78.3
OK93617	4	1970	77.2
MEAN		2844	
LSD (.05)		540	
C.V.		11.7	

WALSH, COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL :
OK94P549	5	4355	77.3
GI594	43	4225	77.4
CO940700	18	4214	78.2
TX91D6856	8	4207	78.4
T94	42	4177	78.2
GI720	44	4172	78.3
SCOUT66	2	4159	79.3
KS940935-1255	21	4137	77.8
KS941064-6	20	4071	77.8
TX94V3329	11	4070	77.4
XH1877	36	4059	78.7
HALT	48	4059	78.4
NE93405	25	4045	78.5
TX94V2130	15	4015	78.6
T86	40	3984	76.8
KS94H147	19	3961	76.9
W94-435	33	3938	77.1
HBG0358	9	3933	76.7
GI2017	45	3929	76.2
TX95V5332	14	3928	79.1
WX94-1604	35	3916	78
NE93427	26	3895	78.5
KS85W663-11-6	22	3885	77.9
WX94-3504	34	3873	77.9
TX95V4926	12	3839	78.6
TX95V4933	13	3809	76.9
TAM-107	3	3756	78.2
W94-042	29	3713	77.6
CO910424	16	3677	78.5
OK94P461	6	3672	81.3
NE93496	27	3666	78
N95L158	24	3665	77.3
NE94632	28	3663	78.7
W94-137	30	3661	77.3
W94-245	32	3646	78.6
KHARKOF	1	3639	78.5
W94-320	31	3636	76.6
TX94V2327	10	3633	77.5
T89	39	3596	78.6
PROWERS	46	3595	77.3
AKRON	47	3578	77.3
NE84557	50	3556	76.9
T93	41	3497	77.8
ARLIN	49	3466	75
TX91D6825	7	3443	77.4
XH1881	37	3339	75.9
CO920696	17	3281	78.2
OK93617	4	3252	77.8
WX95-2401	38	3213	76.3
KS84W063-9393	23	3043	76.4
MEAN		3795	
LSD (.05)		N.S.	
C.V.		13.6	

BURLINGTON, COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL :
TX94V3329	11	1649	73
HALT	48	1620	71.2
CO940700	18	1310	67.8
TAM-107	3	1014	70.3
XH1881	37	890	62.8
CO920696	17	878	68.4
T89	39	874	67.8
T86	40	859	72.7
CO910424	16	830	67.5
W94-245	32	741	65.9
GI2017	45	701	60.6
W94-320	31	662	61.6
PROMERS	46	658	63.7
AKRON	47	657	61.9
KS94H147	19	609	67.8
TX94V2130	15	602	65.6
WX94-1604	35	570	63.7
NE93427	26	556	68.7
ARLIN	49	520	67.5
SCOUT66	2	455	65.9
NE94632	28	449	61.6
T93	41	444	66.2
W94-042	29	429	67.8
T94	42	402	61.9
NE84557	50	400	62.5
XH1877	36	368	58.5
N95L158	24	366	61.6
WX95-2401	38	355	62.2
WX94-3504	34	324	54.1
TX95V4933	13	317	57.9
OK94P461	6	314	63.4
KS940935-1255	21	314	53.2
HBG0358	9	299	65
KS941064-6	20	295	63.4
NE93405	25	283	61
KHARKOF	1	271	43.3
OK94P549	5	222	50.4
TX94V2327	10	210	63.4
W94-137	30	209	.
KS84W063-9393	23	208	62.5
TX95V5332	14	177	42.7
KS85W663-11-6	22	175	42.4
OK93617	4	162	61.9
TX95V4926	12	126	54.4
TX91D6856	8	115	.
GI594	43	67	.
TX91D6825	7	55	.
W94-435	33	55	.
GI720	44	49	.
NE93496	27	43	.
MEAN		483	
LSD (.05)		329	
C.V.		41.9	

LINCOLN

NEBRASKA

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO	:	LODGING	:
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:	:	0-9
ENTRY:	:	:	:	:	:	:	:	:	:	:	:	:
HEADING :	:	:	:	:	:	:	:	:	:	:	:	:
NE93427		26		3463		77.3		88		152		2
CO940700		18		3390		76.6		86		154		0
N95L158		24		3324		72.8		80		153		1
WX95-2401		38		3290		76.6		81		152		2
XH1881		37		3261		72.5		93		151		1
XH1877		36		3248		73		78		152		1
TX91D6856		8		3238		73.5		78		153		1
NE93405		25		3217		77.9		96		151		1
KS941064-6		20		3203		73.8		77		152		1
KS84W063-9393		23		3196		77.1		88		155		1
WX94-3504		34		3170		74.3		83		152		1
NE93496		27		3147		78		91		153		1
T94		42		3146		76.4		89		150		1
G12017		45		3131		73.8		82		151		1
W94-042		29		3124		76.1		81		155		0
CO910424		16		3067		76.8		91		153		1
G1720		44		3059		77		82		153		2
WX94-1604		35		3018		73.3		88		151		2
W94-320		31		2990		72		86		154		1
KS85W663-11-6		22		2988		75.5		81		155		1
TX91D6825		7		2987		.		86		153		0
NE94632		28		2967		74.8		86		152		2
KS940935-1255		21		2854		76.8		81		152		0
CO920696		17		2851		73.5		78		150		1
W94-137		30		2846		74.2		76		154		0
HBG0358		9		2800		73.1		85		154		0
TX95V4933		13		2752		.		80		152		0
TX95V5332		14		2749		.		94		155		1
OK94P461		6		2740		.		76		153		0
T93		41		2723		75.6		86		151		1
OK94P549		5		2697		75.7		81		154		1
T86		40		2677		74.8		91		149		3
OK93617		4		2606		76.1		73		155		1
TX94V2130		15		2586		78		81		149		1
T89		39		2575		73.1		85		149		1
G1594		43		2556		74.8		91		154		1
TX94V3329		11		2504		80		79		155		2
TX94V2327		10		2438		.		80		153		1
TX95V4926		12		2417		76.1		81		154		2
W94-435		33		2409		74.3		81		152		1
W94-245		32		2392		74.4		74		155		1
KS94H147		19		2321		74.4		79		153		1
TAM-107		3		2289		71.3		76		150		1
SCOUT66		2		2263		76		107		154		7
KHARKOF		1		1654		76.1		111		160		6
MEAN				2852								
LSD (.05)				611								
C.V.				13.1								

CLAY CENTER

NEBRASKA

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	PLANT	:	WINTER	:
SEL. NO.	:	ENTRY:	:	WEIGHT	:	HEIGHT	:	SURVIVAL	:	:
	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	0-9
NE93496	:	27	:	3508	:	78.7	:	89	:	8
NE94632	:	28	:	3041	:	74.8	:	80	:	7
SCOUT66	:	2	:	2997	:	78.7	:	104	:	9
OK94P549	:	5	:	2931	:	77.4	:	75	:	6
CO940700	:	18	:	2776	:	80	:	77	:	8
TX95V5332	:	14	:	2773	:	77.4	:	79	:	8
N95L158	:	24	:	2673	:	78	:	75	:	9
TX91D6856	:	8	:	2659	:	76.1	:	66	:	7
NE93405	:	25	:	2643	:	79.3	:	84	:	9
TX95V4926	:	12	:	2478	:	78.7	:	72	:	9
XH1881	:	37	:	2476	:	78	:	79	:	7
WX94-1604	:	35	:	2367	:	79.3	:	75	:	7
KHARKOF	:	1	:	2343	:	78	:	119	:	7
G1720	:	44	:	2269	:	78.7	:	76	:	8
KS940935-1255	:	21	:	2177	:	80	:	72	:	6
W94-435	:	33	:	2155	:	80	:	68	:	9
TX91D6825	:	7	:	2154	:	75.5	:	79	:	5
KS941064-6	:	20	:	2134	:	77.4	:	68	:	7
XH1877	:	36	:	2100	:	78.7	:	71	:	8
T86	:	40	:	1986	:	77.4	:	75	:	6
W94-042	:	29	:	1935	:	77.4	:	67	:	5
NE93427	:	26	:	1909	:	80	:	76	:	5
T94	:	42	:	1879	:	80	:	74	:	6
WX94-3504	:	34	:	1820	:	78.7	:	66	:	5
OK93617	:	4	:	1790	:	78	:	64	:	6
W94-320	:	31	:	1571	:	.	:	75	:	6
T89	:	39	:	1512	:	78.7	:	72	:	6
HBG0358	:	9	:	1463	:	76.8	:	72	:	4
CO910424	:	16	:	1462	:	78	:	76	:	6
G12017	:	45	:	1425	:	76.8	:	69	:	5
TX95V4933	:	13	:	1383	:	75.5	:	70	:	7
TX94V3329	:	11	:	1239	:	80	:	63	:	5
CO920696	:	17	:	1237	:	75.5	:	70	:	8
T93	:	41	:	1228	:	77.4	:	72	:	6
TAM-107	:	3	:	1119	:	.	:	67	:	5
TX94V2327	:	10	:	1115	:	78	:	69	:	3
WX95-2401	:	38	:	1006	:	.	:	66	:	4
G1594	:	43	:	989	:	78.7	:	80	:	5
TX94V2130	:	15	:	978	:	77.4	:	66	:	6
OK94P461	:	6	:	961	:	.	:	63	:	3
W94-137	:	30	:	789	:	.	:	65	:	4
KS94H147	:	19	:	735	:	78.7	:	69	:	4
W94-245	:	32	:	415	:	.	:	60	:	3
KS85W663-11-6	:	22	:	122	:	.	:	.	:	1
KS84W063-9393	:	23	:	104	:	.	:	.	:	1
MEAN	:		:	1796	:		:		:	
LSD (.05)	:		:	923	:		:		:	
C.V.	:		:	31.5	:		:		:	

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
XH1881	37	4419	79.7
WX94-1604	35	4359	79.2
W94-042	29	4351	81
G1594	43	4220	79.9
HBG0358	9	4193	81.3
CO940700	18	4183	81.9
XH1877	36	4158	78.6
NE93496	27	4153	80
TX91D6856	8	4080	.
NE93405	25	4056	79.7
NE93427	26	4034	81.4
TX91D6825	7	3992	78.4
KS84W063-9393	23	3966	78.8
KS94H147	19	3960	80.6
T94	42	3926	80.5
OK94P549	5	3879	80.1
NE94632	28	3841	78
TX95V5332	14	3833	77.5
N95L158	24	3814	78.2
TX95V4933	13	3803	77
CO920696	17	3792	78.9
CO910424	16	3756	80.1
KS941064-6	20	3754	77.5
TAM-107	3	3711	78.4
TX94V2327	10	3708	78.6
SCOUT66	2	3677	79.6
G1720	44	3647	78.4
WX94-3504	34	3642	80
W94-245	32	3639	81.5
T86	40	3617	79.6
W94-137	30	3611	81
W94-320	31	3586	79.2
TX94V3329	11	3552	81.8
TX94V2130	15	3527	79.6
G12017	45	3510	.
TX95V4926	12	3500	80.8
WX95-2401	38	3480	80.6
KS940935-1255	21	3478	79.7
OK94P461	6	3454	78.8
W94-435	33	3432	80.1
T89	39	3345	78.7
T93	41	3334	79.2
KS85W663-11-6	22	3324	79.6
KHARKOF	1	3074	80.4
OK93617	4	2762	79.5
MEAN		3759	
LSD (.05)		599	
C.V.		9.8	

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
XH1881	37	3646	75.3
TX95V4926	12	2854	73.5
CO940700	18	2848	78.7
TX91D6856	8	2814	75.5
TX95V4933	13	2780	73.5
TX94V2130	15	2698	78
CO920696	17	2677	78.7
WX95-2401	38	2567	77.4
SCOUT66	2	2525	78
T94	42	2495	76.8
W94-320	31	2484	74.8
TX94V3329	11	2450	81.3
TX94V2327	10	2420	72.2
TX95V5332	14	2420	72.9
OK94P461	6	2419	74.8
W94-245	32	2412	77.4
TAM-107	3	2383	77.4
KS84W063-9393	23	2302	74.8
NE93405	25	2302	75.5
W94-042	29	2289	77.4
N95L158	24	2279	74.8
CO910424	16	2256	77.4
KS94H147	19	2209	76.8
XH1877	36	2206	74.8
KHARKOF	1	2199	.
G12017	45	2192	71.6
OK94P549	5	2183	77.4
W94-137	30	2174	77.4
TX91D6825	7	2173	75.5
T86	40	2152	77.4
KS85W663-11-6	22	2150	75.5
HBG0358	9	2145	76.1
G1594	43	2111	.
T93	41	2098	74.8
NE93496	27	2068	74.8
WX94-1604	35	2031	74.8
W94-435	33	1991	75.5
T89	39	1892	75.5
WX94-3504	34	1877	78.7
NE94632	28	1868	71.6
NE93427	26	1858	78.7
KS941064-6	20	1827	72.2
G1720	44	1612	72.9
OK93617	4	1592	73.5
KS940935-1255	21	1516	77.4
MEAN		2277	
LSD (.05)		545	
C.V.		14.7	

HEMINGFORD

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: NO.	: YIELD KG/HA	: VOLUME KG/HL
XH1881	37	3290	78.7
WX95-2401	38	3265	73.5
T94	42	3099	77.4
CO940700	18	3087	80
G1594	43	3079	74.8
TX94V2130	15	3068	78.7
KS85W663-11-6	22	3021	78.7
WX94-1604	35	3003	75.5
TX95V4926	12	2979	74.8
CO920696	17	2907	77.4
KS94H147	19	2876	78.7
T86	40	2876	75.5
T93	41	2838	.
TX94V2327	10	2828	74.8
KS84W063-9393	23	2821	74.8
TX95V5332	14	2803	74.8
T89	39	2761	77.4
N95L158	24	2737	77.4
NE93427	26	2716	78.7
G12017	45	2707	76.1
WX94-3504	34	2673	76.1
W94-320	31	2666	71
OK94P549	5	2657	77.4
W94-245	32	2632	74.8
NE93496	27	2621	78.7
NE94632	28	2610	74.2
HBG0358	9	2582	74.8
KS941064-6	20	2582	76.1
TAM-107	3	2572	77.4
NE93405	25	2569	76.1
W94-435	33	2540	74.8
SCOUT66	2	2535	78.7
TX95V4933	13	2533	73.5
CO910424	16	2531	78
KHARKOF	1	2461	76.8
OK94P461	6	2446	74.8
TX91D6856	8	2432	74.2
XH1877	36	2401	73.5
W94-042	29	2337	76.1
W94-137	30	2287	74.8
OK93617	4	2156	77.4
G1720	44	2149	74.8
TX91D6825	7	2062	73.5
KS940935-1255	21	1998	77.4
TX94V3329	11	1970	78.7
MEAN		2661	
LSD (.05)		N.S.	
C.V.		18.4	

PIERRE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
XH1881	37	3992	72.5
TX91D6825	7	3986	73.4
NE94632	28	3753	74.5
KS940935-1255	21	3582	75.3
NE93496	27	3513	75.8
W94-042	29	3499	74.9
KS941064-6	20	3394	72.2
TX95V5332	14	3208	72
NE93405	25	3165	74.3
TX95V4926	12	3080	69.3
KHARKOF	1	3033	76.8
TX91D6856	8	3020	70.7
KS84W063-9393	23	2847	74.2
T94	42	2809	67.6
OK93617	4	2663	74
HBG0358	9	2650	72.3
SCOUT66	2	2616	74.6
KS85W663-11-6	22	2594	74.7
G1594	43	2504	71.9
G12017	45	2477	70
NE93427	26	2448	74.9
KS94H147	19	2421	74.1
T89	39	2338	69.8
W94-435	33	2295	72.8
G1720	44	2275	71.6
TX95V4933	13	2253	69
W94-245	32	2244	71
W94-137	30	2233	71.9
OK94P549	5	2228	71.3
WX94-1604	35	2228	71.7
T93	41	2208	72.4
CO940700	18	2192	72.8
T86	40	2179	69.1
TAM-107	3	2141	67.2
WX94-3504	34	2139	71.3
WX95-2401	38	2087	73.3
N95L158	24	2020	70.3
TX94V3329	11	1793	73.4
XH1877	36	1778	70
CO910424	16	1769	72.2
TX94V2327	10	1614	71
CO920696	17	1580	68.8
TX94V2130	15	1363	69.4
OK94P461	6	1305	69.2
W94-320	31	993	67.9
MEAN		2500	
LSD (.05)		1372	
C.V.		33.6	

WINNER

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: WINTER : SURVIVAL % :
N95L158	24	2009	72.7	43
NE93496	27	1814	75.7	40
KS940935-1255	21	1641	74.7	23
XH1881	37	1623	73.5	30
T94	42	1569	74.7	33
TX91D6856	8	1475	71.7	13
KHARKOF	1	1444	74.9	30
TX94V2130	15	1428	71.6	27
CO910424	16	1394	74.1	17
TAM-107	3	1365	70.8	23
WX94-3504	34	1345	67.2	30
TX95V5332	14	1341	69.9	27
W94-435	33	1293	74	27
W94-042	29	1264	73.7	20
KS94H147	19	1262	74.9	23
TX91D6825	7	1255	73.7	33
SCOUT66	2	1237	73	23
NE94632	28	1224	71.9	30
W94-245	32	1208	76.7	30
G1720	44	1204	71.4	20
XH1877	36	1163	73.6	37
KS84W063-9393	23	1143	72.4	23
NE93405	25	1101	70.8	27
T89	39	1089	71.7	23
NE93427	26	1054	77	13
T86	40	1011	71.6	27
HBG0358	9	946	71.8	17
WX94-1604	35	926	73.1	30
G1594	43	917	72.9	20
WX95-2401	38	912	75.3	20
KS941064-6	20	894	72.8	30
TX95V4926	12	892	72.6	23
TX95V4933	13	818	72.2	13
CO940700	18	760	73.1	13
TX94V3329	11	742	75.7	23
KS85W663-11-6	22	729	72.9	17
T93	41	711	73.4	13
W94-137	30	679	72.6	17
OK94P549	5	670	73.1	17
CO920696	17	661	73.7	10
W94-320	31	612	73.1	10
OK94P461	6	556	73.7	17
G12017	45	527	73.1	20
OK93617	4	448	72.4	20
TX94V2327	10	85	.	10
MEAN		1077		
LSD (.05)		787		
C.V.		44.8		

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
XH1881	37	6203	77.6
NE93405	25	5902	78.7
HBG0358	9	5819	77.9
WX94-1604	35	5786	77.3
CO920696	17	5721	76.4
W94-042	29	5597	77.7
NE93496	27	5575	79.3
NE93427	26	5546	80.2
TX91D6856	8	5541	77.6
WX94-3504	34	5427	77.5
T86	40	5414	76.3
W94-320	31	5358	76.6
KS941064-6	20	5351	76.5
CO910424	16	5295	77.4
WX95-2401	38	5268	79.2
T89	39	5268	75.9
TX94V3329	11	5187	79.9
W94-137	30	5172	78.3
TX91D6825	7	5167	77.7
KS94H147	19	5154	79.8
T93	41	5138	78
OK94P549	5	5107	79.1
TAM-107	3	5098	76.4
G1720	44	5068	77.9
G1594	43	5066	78.3
W94-245	32	5062	77.6
KS940935-1255	21	5010	78.7
W94-435	33	4977	78.3
TX94V2130	15	4961	76.8
XH1877	36	4961	76.2
TX95V4926	12	4959	73.9
TX95V5332	14	4880	76
N95L158	24	4876	76.2
SCOUT66	2	4824	78.6
TX94V2327	10	4811	76.6
NE94632	28	4692	77.5
OK93617	4	4642	77
TX95V4933	13	4589	74.6
T94	42	4571	78.3
G12017	45	4539	77.3
CO940700	18	4528	78.4
KHARKOF	1	4414	79.6
KS85W663-11-6	22	4409	77.4
KS84W063-9393	23	4039	75.6
OK94P461	6	3932	77.4
MEAN		5087	
LSD (.05)		721	
C.V.		8.7	

COLUMBIA

MISSOURI

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING 0-9	: SEPTORIA: TRITICI %	: BYD VIRUS %
XH1881	37	4369	75.5	97	138	1	31	9
G1594	43	4255	78.4	102	141	1	25	9
NE93427	26	4018	79.7	93	139	3	36	12
WX95-2401	38	3941	78.6	90	138	3	28	7
T93	41	3852	77.4	94	137	1	24	17
KS84W063-9393	23	3833	78.2	102	141	2	19	7
WX94-3504	34	3828	76.9	94	138	0	35	9
WX94-1604	35	3805	76.5	91	135	1	25	8
NE94632	28	3802	75.4	97	138	0	37	11
XH1877	36	3740	75	86	138	0	27	7
G12017	45	3622	73.3	94	139	6	35	8
TX94V2327	10	3549	75.6	96	140	2	26	5
KS94H147	19	3450	78.5	97	143	0	25	8
CO910424	16	3386	75.9	94	140	2	38	13
KS85W663-11-6	22	3365	75.6	92	140	1	24	14
OK94P549	5	3342	78.1	91	140	0	34	7
TX91D6856	8	3337	75.3	92	142	1	26	6
TX94V2130	15	3319	77.1	85	138	6	39	10
T86	40	3225	74	94	137	6	43	7
TX95V4933	13	3135	76.1	96	141	0	23	2
T94	42	3115	76.8	95	138	0	32	24
KS941064-6	20	3114	70.2	85	138	0	50	8
OK93617	4	3104	77.7	83	139	2	32	5
TX95V5332	14	3035	77.1	104	142	2	28	19
W94-042	29	3006	74.3	86	142	2	37	14
W94-245	32	2994	73.2	87	139	0	38	12
TX94V3329	11	2962	76.7	88	138	5	32	13
OK94P461	6	2909	72.9	86	139	0	37	18
TAM-107	3	2891	73.1	89	136	3	37	5
W94-137	30	2888	75	89	140	0	36	16
T89	39	2860	74	94	136	3	35	14
G1720	44	2843	75.1	93	141	2	39	13
W94-320	31	2795	71.4	96	141	4	44	10
HBG0358	9	2782	74.5	99	138	2	27	8
TX95V4926	12	2735	76.1	94	141	0	23	7
N95L158	24	2712	72.6	91	144	0	32	20
TX91D6825	7	2705	72.1	94	142	7	40	10
CO940700	18	2600	73.2	97	139	4	39	20
NE93405	25	2513	74.8	100	137	2	42	21
NE93496	27	2467	75.6	106	143	0	41	21
KS940935-1255	21	2465	75	98	141	0	43	12
CO920696	17	2182	74.3	83	138	2	34	15
W94-435	33	1773	72.3	80	142	5	38	45
SCOUT66	2	1701	74.4	105	142	8	37	36
KHARKOF	1	1298	72	117	146	9	34	48

MEAN 3103
LSD(.05) 593
C.V. 11.7

LIND, WASHINGTON
FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : KG/HL	: PLANT : HEIGHT CM	: DAYS TO : HEADING FROM 1/1:	: GRAIN : PROTEIN %
W94-320	31	6346	80.5	91	140	12.1
ELTAN	50	5804	75.4	84	150	9.3
BUCHANAN	48	5361	79.5	102	148	11.4
TX94V2327	10	5310	81.1	80	139	12.1
FINLEY	49	5230	81.9	104	144	12
CO940700	18	5218	82.1	78	139	10.9
TX91D6856	8	4983	82.4	73	140	10.7
G12017	45	4929	80.9	84	139	10.7
HBG0358	9	4909	82.8	85	139	12.1
OK94P461	6	4822	82.3	75	139	11.2
WX95-2401	38	4806	83	76	139	11.3
G1594	43	4799	82.7	83	140	12.9
TAM-107	3	4782	81	77	139	11.1
WX94-1604	35	4732	81.8	81	140	13.4
HATTON	46	4723	82.9	98	148	12.8
XH1881	37	4529	81.9	84	140	11.2
W94-245	32	4511	82.9	70	140	12.4
CO910424	16	4466	82.3	79	139	11.1
WESTON	47	4449	82.7	103	141	11.8
TX94V3329	11	4397	83.4	72	140	12.6
NE93427	26	4376	83	76	140	11.6
KHARKOF	1	4287	79.8	121	144	12.4
TX91D6825	7	4285	80.8	84	140	12.5
XH1877	36	4197	81.3	73	139	10.6
T93	41	4183	80.7	79	138	13
T94	42	4143	81.6	82	139	11.2
W94-042	29	4095	83	68	139	10.8
KS94H147	19	3971	82.1	72	138	12.3
T89	39	3920	81.3	76	140	13.4
TX94V2130	15	3907	82.5	73	139	11.9
W94-137	30	3875	82.4	69	139	12.2
N95L158	24	3852	82.3	73	139	12.9
TX95V5332	14	3821	80.1	81	140	13.2
KS85W663-11-6	22	3819	81.6	76	140	13
W94-435	33	3797	82.4	70	139	12.1
OK94P549	5	3755	82.9	74	139	12.5
NE94632	28	3738	80.5	74	138	11.9
TX95V4926	12	3733	80.6	72	139	12.9
SCOUT66	2	3708	81.4	98	138	12.8
G1720	44	3689	80.7	79	140	12.8
TX95V4933	13	3630	80.6	69	138	12.1
WX94-3504	34	3617	82.8	76	139	13.4
T86	40	3550	79.1	77	138	11.7
OK93617	4	3469	81.2	65	140	12.7
NE93496	27	3437	81.9	84	139	11.6
KS84W063-9393	23	3362	80.9	77	142	14.2
KS941064-6	20	3322	80.3	72	138	12.7
NE93405	25	3270	81.5	83	138	12.1
KS940935-1255	21	3216	80	79	139	14.1
CO920696	17	3110	81.6	75	139	11.6
MEAN		4245				
LSD(.05)		773				
C.V.		13.0				

BOZEMAN

MONTANA

ONE REPLICATION

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: PLANT : CM :	: DAYS TO : FROM 1/1:	: LODGING : 0-9 :	: STRIPE : RUST SEV. : : 0-5 :
XH1881	37	8830	80.2	90	164	0	3
G12017	45	7451	78.4	86	163	1	3
HBG0358	9	7391	80.6	87	164	0	3
WX95-2401	38	7317	81.5	77	165	0	2
TX95V5332	14	7129	76.8	85	166	0	3
G1594	43	7081	81	88	166	0	2
XH1877	36	6927	78.2	67	163	0	2
TX91D6825	7	6786	78.9	95	165	1	4
T94	42	6745	80	90	162	1	3
TX94V2327	10	6718	77.5	88	164	0	4
G1720	44	6698	78	88	164	0	3
OK94P549	5	6443	80.2	82	163	0	4
KS941064-6	20	6443	76.2	76	165	0	3
CO940700	18	6369	79.3	83	164	0	3
KS84W063-9393	23	6308	78.7	74	168	0	1
TX91D6856	8	6281	79.3	74	166	0	3
T93	41	6281	78.8	88	163	0	3
NE93496	27	6234	79.7	91	163	0	3
W94-320	31	6207	79.2	85	164	0	3
KS85W663-11-6	22	6126	79.1	78	164	0	1
WX94-1604	35	5992	79.7	80	163	0	2
NE93405	25	5952	79.6	96	163	0	2
W94-137	30	5844	80.2	72	163	0	4
WX94-3504	34	5797	79.7	79	163	0	3
KS940935-1255	21	5790	79.2	76	164	0	3
T89	39	5636	77.9	87	162	0	4
TX95V4933	13	5541	75.6	76	163	0	4
T86	40	5441	77.8	86	162	0	5
TAM-107	3	5333	77.3	80	162	0	5
TX95V4926	12	5252	75.7	79	163	0	4
OK93617	4	5239	78.3	77	165	0	4
NE93427	26	5205	77.8	85	164	0	3
TX94V3329	11	5172	80.5	75	164	0	3
W94-435	33	4997	79.7	76	163	0	5
CO910424	16	4842	78.4	82	163	0	4
NE94632	28	4802	78.3	77	163	0	3
OK94P461	6	4728	77.5	68	164	0	4
KS94H147	19	4640	77.1	78	166	0	5
SCOUT66	2	4533	78	105	164	3	4
KHARKOF	1	4512	78.3	118	169	4	3
W94-245	32	4512	77	75	164	0	5
CO920696	17	4371	77.7	74	163	0	4
N95L158	24	4331	75.9	76	164	0	4
TX94V2130	15	4237	77.9	71	163	0	5
W94-042	29	3289	79.6	69	163	0	2
MEAN		5817					
LSD(.05)							
C.V.							

CRAWFORDSVILLE

IOWA

TWO REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	LODGING	:	HARVEST	:
ENTRY:	:	:	:	:	WEIGHT	:	:	:	INDEX	:
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	%	:	%
TX91D6856	:	8	:	4157	:	70	:	0	:	41
G12017	:	45	:	4081	:	74.8	:	5	:	45
KS94H147	:	19	:	3975	:	76.3	:	0	:	41
NE94632	:	28	:	3770	:	74.9	:	0	:	33
T86	:	40	:	3753	:	74.8	:	0	:	45
W94-042	:	29	:	3730	:	77.1	:	0	:	40
XH1881	:	37	:	3701	:	71.6	:	0	:	42
NE93427	:	26	:	3690	:	76.2	:	0	:	42
NE93496	:	27	:	3634	:	76.4	:	0	:	34
TX95V4926	:	12	:	3617	:	71	:	0	:	40
TX91D6825	:	7	:	3614	:	71.7	:	0	:	39
OK94P549	:	5	:	3593	:	72.6	:	0	:	41
XH1877	:	36	:	3578	:	73.6	:	0	:	43
WX95-2401	:	38	:	3554	:	75.6	:	0	:	36
WX94-1604	:	35	:	3550	:	72.6	:	0	:	39
T94	:	42	:	3512	:	73.4	:	0	:	43
KS941064-6	:	20	:	3497	:	72.4	:	0	:	42
W94-320	:	31	:	3482	:	71.2	:	0	:	43
NE93405	:	25	:	3480	:	75.1	:	0	:	36
KS84W063-9393	:	23	:	3465	:	76.6	:	0	:	41
WX94-3504	:	34	:	3395	:	74	:	0	:	44
T93	:	41	:	3363	:	74.4	:	0	:	38
TX94V2327	:	10	:	3355	:	73.3	:	0	:	35
TX95V4933	:	13	:	3341	:	69.5	:	0	:	42
TAM-107	:	3	:	3312	:	72.6	:	0	:	49
HBG0358	:	9	:	3283	:	74.4	:	0	:	45
TX95V5332	:	14	:	3282	:	72.4	:	0	:	43
W94-245	:	32	:	3277	:	74.2	:	0	:	40
W94-435	:	33	:	3255	:	72.7	:	0	:	40
KS85W663-11-6	:	22	:	3238	:	77.4	:	0	:	39
N95L158	:	24	:	3233	:	73.1	:	0	:	40
G1594	:	43	:	3231	:	72.4	:	5	:	39
OK94P461	:	6	:	3194	:	71.7	:	0	:	43
OK93617	:	4	:	3159	:	75.9	:	0	:	38
KS940935-1255	:	21	:	3158	:	75.9	:	0	:	35
G1720	:	44	:	3122	:	74.4	:	0	:	39
CO910424	:	16	:	3075	:	73.4	:	0	:	39
TX94V2130	:	15	:	3062	:	72	:	0	:	44
CO940700	:	18	:	2957	:	72.5	:	0	:	37
W94-137	:	30	:	2942	:	74.1	:	0	:	37
SCOUT66	:	2	:	2923	:	73	:	5	:	29
T89	:	39	:	2878	:	71.5	:	0	:	38
CO920696	:	17	:	2848	:	69.9	:	0	:	37
TX94V3329	:	11	:	2740	:	73.4	:	0	:	43
KHARKOF	:	1	:	2542	:	75.2	:	15	:	29
MEAN	:		:	3369	:		:		:	
LSD (.05)	:		:	516	:		:		:	
C.V.	:		:	7.6	:		:		:	

Table 2. Summary of mean yields (kg/ha) for 45 wheats grown in the 1997 Southern Regional Performance Nursery at 36 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	PROSPER TEXAS	CHILLI- COTHE TEXAS	BUSHLAND (IRR.) TEXAS	BUSHLAND (DRYL.) TEXAS	TEXAS STATE MEAN
Quantum Hybrid Wheat	XH1881	37	4887 3	3327 5	4690 7	2603 8	3876 1
Kavkaz/TX86D1308//Sturdy/TAM-300	TX91D6856	8	4553 8	3062 7	5279 1	2457 17	3838 3
HBV756A/Sx1//2180	OK94P549	5	4979 2	2105 25	4654 8	2943 1	3670 6
Quantum Hybrid Wheat	XH1877	36	4194 14	2470 19	3764 33	2766 5	3299 17
TXGH12588/TX86D1317	TX91D6825	7	4699 6	2497 18	4436 13	2237 29	3467 11
1992 Nebraska Bulk Selection	G12017	45	4129 16	2457 20	4439 12	2735 6	3440 14
KS87H22/Mesa	KS94H147	19	3898 21	3620 2	4026 24	2504 13	3512 8
HBK0689	W94-320	31	4353 11	3495 4	4017 25	1937 42	3450 13
W13445*WV161/VW162)x244	HBG0358	9	3912 20	1592 38	4907 4	2490 14	3225 20
2180/Karl//2163	KS940935-1255	21	3853 22	2553 17	4896 5	2780 4	3521 7
Mesa/Carson	CO910424	16	3627 27	3046 8	3609 38	2833 2	3279 18
Bez1/Ctk78//Arthur/Ctk78/3/Bnt/4/Nkn	NE93427	26	4382 9	2401 22	3959 27	2089 34	3208 21
Quantum Hybrid Wheat	WX94-1604	35	4008 18	722 44	4775 6	2085 35	2897 35
KS82W418/Stephens	KS84W063-9393	23	4344 12	3540 3	5147 2	2432 18	3866 2
Quantum Hybrid Wheat	WX95-2401	38	3580 29	388 45	4174 19	2179 32	2580 39
KS82W422/SWN754308//KS831182/KS82W422	KS85W663-11-6	22	4178 15	3008 9	4577 9	2049 37	3453 12
BCD1828/83	G1594	43	3528 31	2408 21	3728 36	2468 16	3033 24
Colt/Victory//Sturdy/Amigo	W94-042	29	4371 10	3773 1	4412 14	2298 23	3713 5
Quantum Hybrid Wheat	WX94-3504	34	3493 33	1686 37	4147 20	2387 21	2928 31
Abilene/Morkan//Rawhide	NE94632	28	4248 13	2941 10	4326 18	2376 22	3473 10
Karl/HBV385D//2163	KS941064-6	20	4714 4	1840 34	4929 3	2423 19	3477 9
T200/HBB313E//2158	OK94P461	6	4997 1	1477 39	4577 9	2482 15	3383 15
KS831936-3//Colt/Cody	N95L158	24	3134 37	2795 11	3744 34	1964 40	2909 34
NE83407/3//FLN/ACC//ANA	TX94V2327	10	4714 4	3143 6	4483 11	2609 7	3737 4
Complex Pedigree	W94-137	30	3185 35	2661 14	3705 37	2018 39	2892 36
T67/T81	T94	42	3820 23	1959 29	3901 30	2271 27	2988 28
TAM-107/Caldwell	T86	40	3948 19	2737 12	3977 26	2410 20	3268 19
Complex Pedigree	W94-245	32	3737 25	1928 32	3791 31	2235 30	2923 32
Rio Blanco/Bai Quan #3039	TX95V4926	12	2993 40	2387 23	4405 15	2585 10	3092 22
G2148//Bezostaya/Plainsman 5	G1720	44	3593 28	1995 27	3943 28	2293 24	2956 29
NE85707/Thunderbird	NE93496	27	2784 42	2596 15	3338 41	1879 43	2649 38
NE85707/Thunderbird	NE93405	25	4075 17	1755 36	3737 35	2165 33	2933 30
Bulk Selection	W94-435	33	3663 26	2009 26	4400 16	1941 41	3003 27
NE83407/TX88V4834	TX95V4933	13	2914 41	2674 13	4100 21	2511 12	3050 23
Karl/T67	T93	41	3768 24	1935 31	4035 22	2282 25	3005 26
TX85V1326/Karl	TX94V2130	15	3141 36	1152 42	3358 40	2582 11	2558 40
Yuma-R21	CO940700	18	3028 39	1462 40	3338 41	2242 28	2517 42
T68/KS90WGRC10	T89	39	3558 30	1233 41	4369 17	2044 38	2801 37
Cimarron sib/Fundulea 133	OK93617	4	4604 7	1798 35	4028 23	2825 3	3314 16
TX88V4914/NE83407	TX95V5332	14	3501 32	2571 16	3932 29	2083 36	3022 25
Composite Cross	TX94V3329	11	3477 34	2123 24	3786 32	2282 25	2917 33
TAM-107 (PI495594)	TAM-107	3	3123 38	778 43	3297 43	2195 31	2348 43
Yuma/TAM-107	CO920696	17	2132 44	1970 28	3448 39	2587 9	2534 41
Scout 66 (CI13996)	SCOUT66	2	2204 43	1852 33	2928 44	1717 44	2175 44
Kharkof (CI1442)	KHARKOF	1	1065 45	1952 30	1845 45	1098 45	1490 45
MEAN			3758	2264	4075	2319	3104
LSD(.05)			677	721	488	393	737
C.V.			11.0	19.5	7.3	10.4	11.6

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	STILLWATER OKLAHOMA	ALTUS OKLAHOMA	LAHOMA OKLAHOMA	GOODWELL OKLAHOMA	OKLAHOMA STATE MEAN
XH1881	37	5360 4	3936 2	7655 3	5650 1	4272 3	4434 4	4917 6	4807 5	4608 3
TX91D6856	8	4951 10	2948 34	6438 17	4779 14	3829 8	4856 1	5326 2	5374 2	4846 1
OK94P549	5	5004 8	4154 1	6915 12	5358 5	3361 22	3317 23	5360 1	5555 1	4398 4
XH1877	36	4966 9	3653 3	7409 5	5343 6	3949 5	3565 17	3970 23	4543 10	4007 12
TX91D6825	7	4598 17	3251 20	6033 26	4627 23	4354 2	3876 14	5177 4	3873 28	4320 6
Q12017	45	4005 34	3446 6	6248 23	4566 24	3753 11	4135 9	3859 27	3973 24	3930 15
KS94H147	19	3790 38	3178 24	6335 19	4434 29	3875 7	3790 16	4180 16	4110 20	3989 13
W94-320	31	4204 29	3239 21	6615 16	4686 20	3673 16	4111 10	3244 34	3947 25	3744 23
HBG0358	9	5154 6	3446 7	6145 24	4915 10	3700 14	3038 28	4523 14	4460 12	3930 16
KS940935-1255	21	5544 1	3431 9	6957 11	5311 7	3987 4	4166 8	5188 3	4196 19	4384 5
CO910424	16	5119 7	3320 15	5990 28	4810 13	3621 17	2911 31	3208 37	3845 29	3396 30
NE93427	26	4070 31	3002 32	4496 43	3856 40	3479 19	3819 15	4833 8	3974 23	4026 11
WX94-1604	35	4702 15	3182 23	6405 18	4763 15	3391 20	2478 38	3791 29	4203 18	3466 29
KS84W063-9393	23	4468 21	3174 25	5215 40	4286 36	4577 1	4473 3	4326 15	5143 3	4630 2
WX95-2401	38	4706 14	3526 4	7017 9	5083 8	3133 29	3022 29	3230 35	4003 22	3347 33
KS85W663-11-6	22	4108 30	3209 22	6283 21	4533 27	3712 13	3468 21	4950 5	4813 4	4236 7
Q1594	43	4572 18	2734 41	7203 7	4836 11	3363 21	3360 22	3969 24	4445 13	3784 21
W94-042	29	3879 37	3446 7	5505 34	4277 37	3764 10	4204 7	4650 12	4307 17	4231 8
WX94-3504	34	5161 5	2611 44	6978 10	4917 9	2568 37	3486 20	4666 11	4544 9	3816 19
NE94632	28	4024 33	3006 31	5408 37	4146 38	3578 18	4268 5	4620 13	3736 30	4050 10
KS941064-6	20	4304 25	2986 33	7182 8	4824 12	2937 32	2620 37	4690 10	4617 8	3716 24
OK94P461	6	5460 2	3392 12	7608 4	5487 2	2819 35	2172 41	4788 9	4329 16	3527 28
N95L158	24	4438 23	2791 40	6816 13	4682 21	3888 6	4048 11	3965 25	3382 38	3821 18
TX94V2327	10	3274 42	2561 45	4219 45	3351 45	3822 9	4489 2	4085 19	4354 15	4187 9
W94-137	30	4847 12	3132 28	8151 2	5377 4	3685 15	3111 26	3013 39	3546 34	3339 35
T94	42	3944 35	3507 5	5517 33	4323 34	3305 25	2911 30	3755 30	3388 37	3340 34
T86	40	3216 43	2818 38	5476 36	3837 41	3730 12	4253 6	4117 18	3034 42	3784 22
W94-245	32	4549 19	3415 10	8200 1	5388 3	2868 34	2911 31	3694 31	4700 7	3543 27
TX95V4926	12	4514 20	3277 17	5804 31	4532 28	3162 28	3291 24	4022 20	4776 6	3813 20
Q1720	44	4039 32	3170 26	5977 29	4396 30	3341 23	3560 18	3908 26	3941 26	3687 25
NE93496	27	4461 22	3086 29	6622 14	4723 18	2972 31	2820 36	3361 33	3519 35	3168 38
NE93405	25	4751 13	2841 37	5330 39	4308 35	3126 30	2903 33	3822 28	3553 33	3351 32
W94-435	33	4610 16	3262 19	6316 20	4729 17	3275 26	3529 19	3985 22	3688 31	3619 26
TX95V4933	13	3921 36	3369 14	5743 32	4344 32	3185 27	3950 13	4006 21	4386 14	3882 17
T93	41	3656 39	2726 42	5846 30	4076 39	2880 33	2859 34	3214 36	3300 39	3063 39
TX94V2130	15	4920 11	3006 30	6027 27	4651 22	2432 39	1953 44	2606 44	3389 36	2595 41
CO940700	18	4296 26	3320 15	5388 38	4334 33	1854 44	2064 43	3156 38	3139 41	2553 42
T89	39	4327 24	2650 43	7303 6	4760 16	2450 38	2842 35	4119 17	4088 21	3375 31
OK93617	4	5422 3	3155 27	5494 35	4690 19	3318 24	3104 27	4890 7	4500 11	3953 14
TX95V5332	14	3373 41	2937 35	4643 42	3651 42	2333 40	3247 25	3551 32	3895 27	3256 36
TX94V3329	11	3419 40	3385 13	6253 22	4352 31	2597 36	3974 12	2923 41	3212 40	3176 37
TAM-107	3	4215 27	2856 36	6618 15	4563 25	2071 43	2268 40	2744 42	2773 43	2464 43
CO920696	17	4208 28	3266 18	6139 25	4538 26	2278 41	2359 39	2932 40	3676 32	2811 40
SCOUT66	2	2780 45	2806 39	4972 41	3519 44	2170 42	2159 42	2622 43	2359 44	2328 44
KHARKOF	1	2929 44	3400 11	4292 44	3540 43	1684 45	1115 45	1582 45	2197 45	1644 45
MEAN		4361	3178	6204	4581	3247	3318	3945	3991	3625
LSD (.05)		781	N.S.	1861	917	700	657	520	578	650
C.V.		11.0	17.7	21.4	20.1	13.2	12.1	8.1	8.9	10.4

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	FORT COLLINS COLORADO	AKRON COLORADO	JULESBURG COLORADO	WALSH COLORADO	BURLINGTON COLORADO *	COLORADO STATE MEAN	GARDEN CITY KANSAS	WICHITA-II KANSAS
XH1881	37	7211 3	3333 1	3576 2	3339 41	890 4	4365 3	2748 27	4652 5
TX91D6856	8	8051 1	2339 26	3068 12	4207 4	115 40	4416 2	3306 1	3687 18
OK94P549	5	7043 6	2387 21	2750 29	4355 1	222 32	4134 7	2802 23	3328 26
XH1877	36	6915 7	2260 30	2636 34	4059 11	368 21	3967 12	2531 37	3579 22
TX91D6825	7	5975 28	2669 10	3123 10	3443 40	55 42	3802 23	2777 26	4663 4
GI2017	45	5428 39	2515 17	2855 24	3929 18	701 10	3682 29	2972 9	4067 12
K894H147	19	6384 17	2796 6	3055 13	3961 15	609 12	4049 9	2928 13	4036 14
W94-320	31	7085 5	2438 19	3043 14	3636 36	662 11	4050 8	2921 14	3567 23
HBG0358	9	6814 9	2692 8	3206 6	3933 17	299 28	4161 6	3271 2	4988 1
K8940935-1255	21	6760 10	2226 33	2568 36	4137 8	314 26	3923 15	2477 38	4290 10
CO910424	16	7135 4	3294 2	3601 1	3677 28	830 8	4427 1	3033 7	3934 15
NE93427	26	6296 19	2589 14	2957 19	3895 21	556 15	3934 14	2842 19	4584 6
WX94-1604	35	5851 30	2540 15	3220 5	3916 20	570 14	3881 17	2392 42	4576 7
K884W063-9393	23	5553 37	2138 34	3014 16	3043 45	208 35	3437 40	2074 45	4901 2
WX95-2401	38	6138 25	2603 13	3492 3	3213 44	355 23	3862 18	2946 12	4782 3
K885W663-11-6	22	6687 11	2377 23	3018 15	3885 22	175 37	3992 11	2535 36	4466 8
GI594	43	6516 14	1830 40	2377 42	4225 2	67 41	3737 26	3082 5	3445 24
W94-042	29	5621 34	2333 27	2797 25	3713 27	429 19	3616 33	2972 9	2344 34
WX94-3504	34	6242 23	2323 28	2886 22	3873 23	324 24	3831 21	2374 43	4464 9
NE94632	28	6346 18	1865 38	2651 33	3663 32	449 17	3631 32	2621 32	2882 29
K8941064-6	20	5427 40	1853 39	2446 41	4071 9	295 29	3449 38	2396 41	4133 11
OK94P461	6	5544 38	1929 37	2610 35	3672 29	314 26	3439 39	2405 40	4054 13
N95L158	24	6536 13	2118 35	2663 31	3665 31	366 22	3745 25	2903 16	3429 25
TX94V2327	10	6059 26	2527 16	3146 9	3633 37	210 33	3841 20	2842 20	2668 31
W94-137	30	7794 2	2666 11	2911 21	3661 33	209 34	4258 5	2746 28	3679 19
T94	42	6255 21	2675 9	2885 23	4177 5	402 20	3998 10	2820 21	3675 20
T86	40	6514 15	1777 42	2524 40	3984 14	859 7	3700 28	2724 29	3208 27
W94-245	32	6292 20	2389 20	2752 28	3646 34	741 9	3770 24	3031 8	1736 40
TX95V4926	12	6003 27	1767 43	2699 30	3839 24	126 39	3577 34	2791 24	1964 37
GI1720	44	5634 33	1517 45	2267 44	4172 6	49 44	3398 43	2547 35	3741 17
NE93496	27	5786 31	2237 31	3009 17	3666 30	43 45	3675 30	2789 25	2491 32
NE93405	25	6195 24	2441 18	3188 7	4045 12	283 30	3967 13	2616 33	1827 38
W94-435	33	6554 12	1785 41	3303 4	3938 16	55 43	3895 16	2813 22	2803 30
TX95V4933	13	5090 42	2236 32	2944 20	3809 25	317 25	3519 37	3181 3	1766 39
T93	41	5889 29	2000 36	2342 43	3497 39	444 18	3432 41	2616 34	3663 21
TX94V2130	15	5248 41	2305 29	2557 37	4015 13	602 13	3531 35	3087 4	3892 16
CO940700	18	6911 8	2990 4	2975 18	4214 3	1310 2	4273 4	2907 15	1249 45
T89	39	5579 35	2361 25	2547 38	3596 38	874 6	3521 36	2645 31	3108 28
OK93617	4	5652 32	1758 44	1970 45	3252 43	162 38	3158 44	2338 44	2340 35
TX95V5332	14	5555 36	2387 22	3070 11	3928 19	177 36	3735 27	3040 6	2349 33
TX94V3329	11	4757 43	3235 3	2527 39	4070 10	1649 1	3647 31	2966 11	1569 42
TAM-107	3	6245 22	2645 12	2763 27	3756 26	1014 3	3852 19	2717 30	1719 41
CO920696	17	6450 16	2865 5	2654 32	3281 42	878 5	3812 22	2890 17	1308 44
SCOUT66	2	3552 44	2769 7	3167 8	4159 7	455 16	3412 42	2854 18	2098 36
KHARKOF	1	2593 45	2368 24	2793 26	3639 35	271 31	2848 45	2475 39	1453 43
MEAN		6093	2381	2858	3811	451	3786	2772	3270
LSD(.05)		1284	592	490	N.S.	331	N.S.	474	732
C.V.		10.4	15.2	10.5	13.4	45.0	12.4	10.5	13.7

* Not included in state or regional means.

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	HUTCHINSON KANSAS	WICHITA-I KANSAS	WINFIELD KANSAS	SALINA KANSAS	HAYS KANSAS	MANHATTAN KANSAS	COLBY KANSAS	KANSAS STATE MEAN
XH1881	37	3892 7	4977 7	4689 3	6644 4	4408 1	5947 1	4518 1	4719 1
TX91D6856	8	3526 18	4509 18	4074 16	6566 6	3843 10	4938 14	3940 6	4266 7
OK94P549	5	3477 21	4533 15	4123 15	5615 31	3732 16	4373 33	3656 18	3960 24
XH1877	36	3528 17	4953 9	4247 12	5696 25	3769 15	4923 15	3988 4	4135 14
TX91D6825	7	3712 10	5408 1	3851 22	6510 10	3457 27	5286 8	3480 28	4349 4
G12017	45	3356 27	4816 11	4726 1	6429 12	3998 2	5564 4	3782 12	4412 2
KS94H147	19	3329 29	5128 4	4548 7	6158 13	3857 9	5676 3	3882 9	4393 3
W94-320	31	3127 34	4974 8	3676 27	6537 8	3810 11	5174 11	3519 25	4145 12
HBG0358	9	2287 44	5260 3	3739 25	6023 16	3410 30	4201 37	3784 11	4107 17
KS940935-1255	21	3824 8	4359 20	4310 11	5981 18	3537 21	5683 2	3080 43	4171 10
CO910424	16	3508 19	5292 2	4582 6	5940 19	3786 14	4577 26	3698 16	4261 8
NE93427	26	3454 23	4218 21	3744 24	6537 8	3981 3	5553 5	3729 14	4294 6
WX94-1604	35	3663 13	3296 36	4480 10	6783 2	3803 12	5252 10	4003 3	4250 9
KS84W063-9393	23	4084 2	4524 16	4586 5	5669 28	3386 33	4752 24	3280 38	4140 13
WX95-2401	38	3925 5	4123 22	4485 9	6077 14	3410 30	5268 9	3930 7	4327 5
KS85W663-11-6	22	4062 3	4053 23	4233 13	6077 14	3104 41	5093 13	3540 23	4129 15
G1594	43	3416 25	4979 6	4521 8	5588 34	3278 37	4903 18	3383 32	4066 19
W94-042	29	3351 28	2863 40	3366 33	6671 3	3870 8	4634 25	3685 17	3751 30
WX94-3504	34	3672 12	5078 5	3551 30	6483 11	3070 42	4849 20	3252 39	4088 18
NE94632	28	3923 6	3768 27	3145 38	6918 1	3907 7	4844 21	3518 26	3947 25
KS941064-6	20	4109 1	3998 24	3730 26	6566 6	3524 24	5344 7	3283 37	4120 16
OK94P461	6	3593 14	4943 10	4633 4	5588 34	3578 19	5358 6	3223 40	4153 11
N95L158	24	2863 40	4522 17	4219 14	5994 17	3911 6	4905 17	3365 33	4012 23
TX94V2327	10	3295 30	3425 30	3208 36	6591 5	3477 26	5109 12	3957 5	3841 28
W94-137	30	3020 36	4536 14	4699 2	5154 39	3958 4	4510 28	3847 10	4017 22
T94	42	3703 11	4597 13	3777 23	5642 29	3803 12	4770 23	3452 29	4027 20
T86	40	3927 4	3690 29	3620 28	5804 21	3315 35	4918 16	3350 34	3840 29
W94-245	32	3454 23	3355 34	2912 41	5696 27	3440 29	4170 38	3630 19	3491 35
TX95V4926	12	3100 35	3374 33	3397 32	5615 30	2949 43	4208 36	3539 24	3437 38
G1720	44	3401 26	3962 25	4059 17	5723 24	3201 40	4885 19	3118 42	3848 26
NE93496	27	3726 9	3712 28	3520 31	5588 34	3403 32	4241 35	3191 41	3629 31
NE93405	25	3551 16	3180 37	2648 44	5750 22	3527 22	4501 29	3546 22	3461 37
W94-435	33	2981 37	3413 31	3338 34	5615 31	3336 34	4829 22	3297 36	3603 33
TX95V4933	13	2876 39	3830 26	3040 40	5696 25	3584 18	4055 41	3917 8	3549 34
T93	41	3488 20	4617 12	3984 18	5344 37	3302 36	4557 27	3039 44	3846 27
TX94V2130	15	3253 33	4378 19	3891 20	5615 31	3951 5	4376 32	3714 15	4017 21
CO940700	18	3257 32	2609 43	3267 35	5750 22	3504 25	4246 34	3749 13	3393 40
T89	39	3463 22	3382 32	3898 19	4721 41	3453 28	4423 31	3333 35	3603 32
OK93617	4	3571 15	3316 35	3862 21	5317 38	3215 39	4078 40	2781 45	3424 39
TX95V5332	14	3291 31	2971 39	2760 42	5914 20	3564 20	3977 43	3395 31	3473 36
TX94V3329	11	2641 42	3076 38	3600 29	4230 44	2794 44	4441 30	4024 2	3260 42
TAM-107	3	2955 38	2651 42	3148 37	5154 39	3527 22	3983 42	3580 20	3270 41
CO920696	17	2647 41	2847 41	2747 43	4530 42	3716 17	4113 39	3502 27	3144 43
SCOUT66	2	2517 43	2235 45	3086 39	4396 43	3278 38	3531 44	3564 21	3062 44
KHARKOF	1	2260 45	2528 44	2526 45	3472 45	2350 45	2414 45	3423 30	2545 45
MEAN		3379	4006	3783	5786	3535	4698	3566	3866
LSD (.05)		391	954	805	596	692	799	484	481
C.V.		7.1	11.8	13.0	6.3	9.7	10.4	8.3	10.1

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	LINCOLN NEBRASKA	CLAY CENTER NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	HEMING- FORD NEBRASKA	NEBRASKA STATE MEAN	COLUMBIA MISSOURI
XH1881	37	3261 5	2476 11	4419 1	3646 1	3290 1	3418 1	4369 1
TX91D6856	8	3238 7	2659 8	4080 9	2814 4	2432 37	3045 4	3337 17
OK94P549	5	2697 31	2931 4	3879 16	2183 27	2657 23	2870 10	3342 16
XH1877	36	3248 6	2100 19	4158 7	2206 24	2401 38	2823 13	3740 10
TX91D6825	7	2987 21	2154 17	3992 12	2173 29	2062 43	2674 20	2705 37
GI2017	45	3131 14	1425 30	3510 35	2192 26	2707 20	2593 27	3622 11
KS94H147	19	2321 42	735 42	3960 14	2209 23	2876 12	2420 35	3450 13
W94-320	31	2990 19	1571 26	3586 32	2484 11	2666 22	2659 22	2795 33
HBO0358	9	2800 26	1463 28	4193 5	2145 32	2582 27	2637 24	2782 34
KS940935-1255	21	2854 23	2177 15	3478 38	1516 45	1998 44	2405 38	2465 41
CO910424	16	3067 16	1462 29	3756 22	2256 22	2531 34	2614 26	3386 14
NE93427	26	3463 1	1909 22	4034 11	1858 41	2716 19	2796 16	4018 3
WX94-1604	35	3018 18	2367 12	4359 2	2031 36	3003 8	2956 7	3805 8
KS84W063-9393	23	3196 10	104 45	3966 13	2302 18	2821 15	2478 33	3833 6
WX95-2401	38	3290 4	1006 37	3480 37	2567 8	3265 2	2722 17	3941 4
KS85W663-11-6	22	2988 20	122 44	3324 43	2150 31	3021 7	2321 43	3365 15
GI594	43	2556 36	989 38	4220 4	2111 33	3079 5	2591 28	4255 2
W94-042	29	3124 15	1935 21	4351 3	2289 20	2337 39	2807 14	3006 25
WX94-3504	34	3170 11	1820 24	3642 28	1877 39	2673 21	2637 25	3828 7
NE94632	28	2967 22	3041 2	3841 17	1868 40	2610 26	2866 11	3802 9
KS941064-6	20	3203 9	2134 18	3754 23	1827 42	2582 27	2700 18	3114 22
OK94P461	6	2740 29	961 40	3454 39	2419 15	2446 36	2404 39	2909 28
N95L158	24	3324 3	2673 7	3814 19	2279 21	2737 18	2965 5	2712 36
TX94V2327	10	2438 38	1115 36	3708 25	2420 14	2828 14	2502 32	3549 12
W94-137	30	2846 25	789 41	3611 31	2174 28	2287 40	2341 42	2888 30
T94	42	3146 13	1879 23	3926 15	2495 10	3099 3	2909 9	3115 21
T86	40	2677 32	1986 20	3617 30	2152 30	2876 11	2662 21	3225 19
W94-245	32	2392 41	415 43	3639 29	2412 16	2632 24	2298 44	2994 26
TX95V4926	12	2417 39	2478 10	3500 36	2854 2	2979 9	2846 12	2735 35
GI720	44	3059 17	2269 14	3647 27	1612 43	2149 42	2547 30	2843 32
NE93496	27	3147 12	3508 1	4153 8	2068 35	2621 25	3099 3	2467 40
NE93405	25	3217 8	2643 9	4056 10	2302 18	2569 30	2957 6	2513 39
W94-435	33	2409 40	2155 16	3432 40	1991 37	2540 31	2505 31	1773 43
TX95V4933	13	2752 27	1383 31	3803 20	2780 5	2533 33	2650 23	3135 20
T93	41	2723 30	1228 34	3334 42	2098 34	2838 13	2444 34	3852 5
TX94V2130	15	2586 34	978 39	3527 34	2698 6	3068 6	2571 29	3319 18
CO940700	18	3390 2	2776 5	4183 6	2848 3	3087 4	3257 2	2600 38
T89	39	2575 35	1512 27	3345 41	1892 38	2761 17	2417 36	2860 31
OK93617	4	2606 33	1790 25	2762 45	1592 44	2156 41	2181 45	3104 23
TX95V5332	14	2749 28	2773 6	3833 18	2420 13	2803 16	2916 8	3035 24
TX94V3329	11	2504 37	1239 32	3552 33	2450 12	1970 45	2343 41	2962 27
TAM-107	3	2289 43	1119 35	3711 24	2383 17	2572 29	2415 37	2891 29
CO920696	17	2851 24	1237 33	3792 21	2677 7	2907 10	2693 19	2182 42
SCOUT66	2	2263 44	2997 3	3677 26	2525 9	2535 32	2800 15	1701 44
KHARKOF	1	1654 45	2343 13	3074 44	2199 25	2461 35	2346 40	1298 45
MEAN		2852	1796	3759	2277	2661	2669	3103
LSD (.05)		611	923	599	545	N.S.	562	593
C.V.		13.1	31.5	9.8	14.7	18.4	16.3	11.7

Table 2. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	PIERRE * S. DAKOTA	WINNER * S. DAKOTA	BROOKINGS S. DAKOTA	SOUTH DAKOTA STATE MEAN	CRAWFORD- SVILLE IOWA	LIND WASHINGTON	REGIONAL AVERAGE
XH1881	37	3992 1	1623 4	6203 1	3939 1	3701 7	4529 12	4446 1
TX91D6856	8	3020 12	1475 6	5541 9	3345 7	4157 1	4983 4	4193 2
OK94P549	5	2228 29	670 39	5107 22	2668 33	3593 12	3755 31	3960 3
XH1877	36	1778 39	1163 21	4961 29	2634 35	3578 13	4197 19	3907 4
TX91D6825	7	3986 2	1255 16	5167 19	3469 3	3614 11	4285 18	3895 5
GI2017	45	2477 20	527 43	4539 40	2514 41	4081 2	4929 5	3871 6
KS94H147	19	2421 22	1262 15	5154 20	2946 19	3975 3	3971 23	3870 7
W94-320	31	993 45	612 41	5358 12	2321 43	3482 18	6346 1	3867 8
HBG0358	9	2650 16	946 27	5819 3	3138 11	3283 26	4909 6	3847 9
KS940935-1255	21	3582 4	1641 3	5010 27	3411 5	3158 35	3216 44	3838 10
CO910424	16	1769 40	1394 9	5295 14	2819 28	3075 37	4466 14	3833 12
NE93427	26	2448 21	1054 25	5546 8	3016 12	3690 8	4376 16	3833 11
WX94-1604	35	2228 29	926 28	5786 4	2980 14	3550 15	4732 11	3823 13
KS84W063-9393	23	2847 13	1143 22	4039 44	2677 32	3465 20	3362 41	3786 14
WX95-2401	38	2087 36	912 30	5268 15	2756 29	3554 14	4806 8	3773 15
KS85W663-11-6	22	2594 18	729 36	4409 43	2577 38	3238 30	3819 29	3755 16
GI594	43	2504 19	917 29	5066 25	2829 27	3231 32	4799 9	3746 17
W94-042	29	3499 6	1264 14	5597 6	3454 4	3730 6	4095 22	3736 19
WX94-3504	34	2139 35	1345 11	5427 10	2970 16	3395 21	3617 37	3736 18
NE94632	28	3753 3	1224 18	4692 36	3223 8	3770 4	3738 32	3725 20
KS941064-6	20	3394 7	894 31	5351 13	3213 9	3497 17	3322 42	3724 21
OK94P461	6	1305 44	556 42	3932 45	1931 45	3194 33	4822 7	3700 22
W95L158	24	2020 37	2009 1	4876 33	2968 17	3233 31	3852 27	3684 23
TX94V2327	10	1614 41	85 45	4811 35	2170 44	3355 23	5310 2	3673 24
W94-137	30	2233 28	679 38	5172 18	2694 30	2942 40	3875 26	3661 25
T94	42	2809 14	1569 5	4571 39	2983 13	3512 16	4143 21	3648 26
T86	40	2179 33	1011 26	5414 11	2868 22	3753 5	3550 38	3585 27
W94-245	32	2244 27	1208 19	5062 26	2838 26	3277 28	4511 13	3511 28
TX95V4926	12	3080 10	892 32	4959 31	2977 15	3617 10	3733 33	3507 29
GI720	44	2275 25	1204 20	5068 24	2849 25	3122 36	3689 35	3498 30
NE93496	27	3513 5	1814 2	5575 7	3634 2	3634 9	3437 40	3497 31
NE93405	25	3165 9	1101 23	5902 2	3389 6	3480 19	3270 43	3486 32
W94-435	33	2295 24	1293 13	4977 28	2855 24	3255 29	3797 30	3485 33
TX95V4933	13	2253 26	818 33	4589 38	2553 40	3341 24	3630 36	3477 34
T93	41	2208 31	711 37	5138 21	2686 31	3363 22	4183 20	3442 35
TX94V2130	15	1363 43	1428 8	4961 29	2584 37	3062 38	3907 25	3423 36
CO940700	18	2192 32	760 34	4528 41	2493 42	2957 39	5218 3	3409 37
T89	39	2338 23	1089 24	5268 15	2898 20	2878 42	3920 24	3409 38
OK93617	4	2663 15	448 44	4642 37	2585 36	3159 34	3469 39	3390 39
TX95V5332	14	3208 8	1341 12	4880 32	3143 10	3282 27	3821 28	3390 40
TX94V3329	11	1793 38	742 35	5187 17	2574 39	2740 44	4397 15	3284 41
TAM-107	3	2141 34	1365 10	5098 23	2868 22	3312 25	4782 10	3210 42
CO920696	17	1580 42	661 40	5721 5	2654 34	2848 43	3110 45	3208 43
SCOUT66	2	2616 17	1237 17	4824 34	2892 21	2923 41	3708 34	2937 44
KHARKOF	1	3033 11	1444 7	4414 42	2963 18	2542 45	4287 17	2477 45
MEAN		2500	1077	5087	2888	3369	4148	3626
LSD (.05)		1372	787	721	764	516	736	270
C.V.		33.6	44.8	8.7	21.3	7.6	12.7	13.7

* Not included in regional means.

Table 3. Summary of mean yields (kg/ha) and ranks for 45 wheats grown in the 1997 Southern Regional Performance Nursery at 26 locations from which a CV of 15.0 or less and a significant F test for entries were obtained.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	PROSPER TEXAS	BUSHLAND (IRR.) TEXAS	BUSHLAND (DRYL.) TEXAS	CLOVIS (IRR.) NEW MEXICO	ALTUS OKLAHOMA
Quantum Hybrid Wheat	XH1881	37	4887 3	4690 7	2603 8	5360 4	4434 4
Kavkaz/TX86D1308//Sturdy/TAM-300	TX91D6856	8	4553 8	5279 1	2457 17	4951 10	4856 1
TXGH12588/TX86D1317	TX91D6825	7	4699 6	4436 13	2237 29	4598 17	3876 14
Bez1/Ctk78//Arthur/Ctk78/3/Bnt/4/Nkn	NE93427	26	4382 9	3959 27	2089 34	4070 31	3819 15
HBV756A/Sxl//2180	OK94P549	5	4979 2	4654 8	2943 1	5004 8	3317 23
W13445*WV161/VW162)x244	HBG0358	9	3912 20	4907 4	2490 14	5154 6	3038 28
1992 Nebraska Bulk Selection	GI2017	45	4129 16	4439 12	2735 6	4005 34	4135 9
KS82W418/Stephens	KS84W063-9393	23	4344 12	5147 2	2432 18	4468 21	4473 3
Quantum Hybrid Wheat	XH1877	36	4194 14	3764 33	2766 5	4966 9	3565 17
KS87H22/Mesa	KS94H147	19	3898 21	4026 24	2504 13	3790 38	3790 16
Quantum Hybrid Wheat	WX94-1604	35	4008 18	4775 6	2085 35	4702 15	2478 38
HBK0689	W94-320	31	4353 11	4017 25	1937 42	4204 29	4111 10
Quantum Hybrid Wheat	WX95-2401	38	3580 29	4174 19	2179 32	4706 14	3022 29
Mesa/Carson	CO910424	16	3627 27	3609 38	2833 2	5119 7	2911 31
2180/Karl//2163	KS940935-1255	21	3853 22	4896 5	2780 4	5544 1	4166 8
KS82W422/SWM754308//KS831182/KS82W422	KS85W663-11-6	22	4178 15	4577 9	2049 37	4108 30	3468 21
Quantum Hybrid Wheat	WX94-3504	34	3493 33	4147 20	2387 21	5161 5	3486 20
NE83407/3/FLN/ACC//ANA	TX94V2327	10	4714 4	4483 11	2609 7	3274 42	4489 2
BCD1828/83	GI594	43	3528 31	3728 36	2468 16	4572 18	3360 22
T200/HBB313E//2158	OK94P461	6	4997 1	4577 9	2482 15	5460 2	2172 41
Abilene/Norkan//Rawhide	NE94632	28	4248 13	4326 18	2376 22	4024 33	4268 5
Karl/HBY385D//2163	KS941064-6	20	4714 4	4929 3	2423 19	4304 25	2620 37
Colt/Victory//Sturdy/Amigo	W94-042	29	4371 10	4412 14	2298 23	3879 37	4204 7
KS831936-3//Colt/Cody	N95L158	24	3134 37	3744 34	1964 40	4438 23	4048 11
T67/T81	T94	42	3820 23	3901 30	2271 27	3944 35	2911 30
Complex Pedigree	W94-137	30	3185 35	3705 37	2018 39	4847 12	3111 26
TAM-107/Caldwell	T86	40	3948 19	3977 26	2410 20	3216 43	4253 6
G2148//Bezostaya/Plainsman 5	GI1720	44	3593 28	3943 28	2293 24	4039 32	3560 18
Karl/T67	T93	41	3768 24	4035 22	2282 25	3656 39	2859 34
NE85707/Thunderbird	NE93405	25	4075 17	3737 35	2165 33	4751 13	2903 33
Complex Pedigree	W94-245	32	3737 25	3791 31	2235 30	4549 19	2911 31
Rio Blanco/Bai Quan #3039	TX95V4926	12	2993 40	4405 15	2585 10	4514 20	3291 24
Bulk Selection	W94-435	33	3663 26	4400 16	1941 41	4610 16	3529 19
NE83407/TX88V4834	TX95V4933	13	2914 41	4100 21	2511 12	3921 36	3950 13
Cimarron sib/Fundulea 133	OK93617	4	4604 7	4028 23	2825 3	5422 3	3104 27
TX85V1326/Karl	TX94V2130	15	3141 36	3358 40	2582 11	4920 11	1953 44
NE85707/Thunderbird	NE93496	27	2784 42	3338 41	1879 43	4461 22	2820 36
T68/KS90WGRC10	T89	39	3558 30	4369 17	2044 38	4327 24	2842 35
TX88V4914/NE83407	TX95V5332	14	3501 32	3932 29	2083 36	3373 41	3247 25
Yuma-R21	CO940700	18	3028 39	3338 41	2242 28	4296 26	2064 43
Composite Cross	TX94V3329	11	3477 34	3786 32	2282 25	3419 40	3974 12
TAM-107 (PI495594)	TAM-107	3	3123 38	3297 43	2195 31	4215 27	2268 40
Yuma/TAM-107	CO920696	17	2132 44	3448 39	2587 9	4208 28	2359 39
Scout 66 (CI13996)	SCOUT66	2	2204 43	2928 44	1717 44	2780 45	2159 42
Kharkof (CI1442)	KHARKOF	1	1065 45	1845 45	1098 45	2929 44	1115 45
MEAN			3758	4075	2319	4361	3318
LSD (.05)			677	488	393	781	657
C.V.			11.0	7.3	10.4	11.0	12.1

Table 3. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	STILLWATER OKLAHOMA	LAHOMA OKLAHOMA	GOODWELL OKLAHOMA	WINFIELD KANSAS	WICHITA-I KANSAS	HUTCHINSON KANSAS	WICHITA-II KANSAS	HAYS KANSAS
XH1881	37	4272 3	4917 6	4807 5	4689 3	4977 7	3892 7	4652 5	4408 1
TX91D6856	8	3829 8	5326 2	5374 2	4074 16	4509 18	3526 18	3687 18	3843 10
TX91D6825	7	4354 2	5177 4	3873 28	3851 22	5408 1	3712 10	4663 4	3457 27
NE93427	26	3479 19	4833 8	3974 23	3744 24	4218 21	3454 23	4584 6	3981 3
OK94P549	5	3361 22	5360 1	5555 1	4123 15	4533 15	3477 21	3328 26	3732 16
HBG0358	9	3700 14	4523 14	4460 12	3739 25	5260 3	2287 44	4988 1	3410 30
G12017	45	3753 11	3859 27	3973 24	4726 1	4816 11	3356 27	4067 12	3998 2
KS84W063-9393	23	4577 1	4326 15	5143 3	4586 5	4524 16	4084 2	4901 2	3386 33
XH1877	36	3949 5	3970 23	4543 10	4247 12	4953 9	3528 17	3579 22	3769 15
KS94H147	19	3875 7	4180 16	4110 20	4548 7	5128 4	3329 29	4036 14	3857 9
WX94-1604	35	3391 20	3791 29	4203 18	4480 10	3296 36	3663 13	4576 7	3803 12
W94-320	31	3673 16	3244 34	3947 25	3676 27	4974 8	3127 34	3567 23	3810 11
WX95-2401	38	3133 29	3230 35	4003 22	4485 9	4123 22	3925 5	4782 3	3410 30
CO910424	16	3621 17	3208 37	3845 29	4582 6	5292 2	3508 19	3934 15	3786 14
KS940935-1255	21	3987 4	5188 3	4196 19	4310 11	4359 20	3824 8	4290 10	3537 21
KS85W663-11-6	22	3712 13	4950 5	4813 4	4233 13	4053 23	4062 3	4466 8	3104 41
WX94-3504	34	2568 37	4666 11	4544 9	3551 30	5078 5	3672 12	4464 9	3070 42
TX94V2327	10	3822 9	4085 19	4354 15	3208 36	3425 30	3295 30	2668 31	3477 26
G1594	43	3363 21	3969 24	4445 13	4521 8	4979 6	3416 25	3445 24	3278 37
OK94P461	6	2819 35	4788 9	4329 16	4633 4	4943 10	3593 14	4054 13	3578 19
NE94632	28	3578 18	4620 13	3736 30	3145 38	3768 27	3923 6	2882 29	3907 7
KS941064-6	20	2937 32	4690 10	4617 8	3730 26	3998 24	4109 1	4133 11	3524 24
W94-042	29	3764 10	4650 12	4307 17	3366 33	2863 40	3351 28	2344 34	3870 8
N95L158	24	3888 6	3965 25	3382 38	4219 14	4522 17	2863 40	3429 25	3911 6
T94	42	3305 25	3755 30	3388 37	3777 23	4597 13	3703 11	3675 20	3803 12
W94-137	30	3685 15	3013 39	3546 34	4699 2	4536 14	3020 36	3679 19	3958 4
T86	40	3730 12	4117 18	3034 42	3620 28	3690 29	3927 4	3208 27	3315 35
G1720	44	3341 23	3908 26	3941 26	4059 17	3962 25	3401 26	3741 17	3201 40
T93	41	2880 33	3214 36	3300 39	3984 18	4617 12	3488 20	3663 21	3302 36
NE93405	25	3126 30	3822 28	3553 33	2648 44	3180 37	3551 16	1827 38	3527 22
W94-245	32	2868 34	3694 31	4700 7	2912 41	3355 34	3454 23	1736 40	3440 29
TX95V4926	12	3162 28	4022 20	4776 6	3397 32	3374 33	3100 35	1964 37	2949 43
W94-435	33	3275 26	3985 22	3688 31	3338 34	3413 31	2981 37	2803 30	3336 34
TX95V4933	13	3185 27	4006 21	4386 14	3040 40	3830 26	2876 39	1766 39	3584 18
OK93617	4	3318 24	4890 7	4500 11	3862 21	3316 35	3571 15	2340 35	3215 39
TX94V2130	15	2432 39	2606 44	3389 36	3891 20	4378 19	3253 33	3892 16	3951 5
NE93496	27	2972 31	3361 33	3519 35	3520 31	3712 28	3726 9	2491 32	3403 32
T89	39	2450 38	4119 17	4088 21	3898 19	3382 32	3463 22	3108 28	3453 28
TX95V5332	14	2333 40	3551 32	3895 27	2760 42	2971 39	3291 31	2349 33	3564 20
CO940700	18	1854 44	3156 38	3139 41	3267 35	2609 43	3257 32	1249 45	3504 25
TX94V3329	11	2597 36	2923 41	3212 40	3600 29	3076 38	2641 42	1569 42	2794 44
TAM-107	3	2071 43	2744 42	2773 43	3148 37	2651 42	2955 38	1719 41	3527 22
CO920696	17	2278 41	2932 40	3676 32	2747 43	2847 41	2647 41	1308 44	3716 17
SCOUT66	2	2170 42	2622 43	2359 44	3086 39	2235 45	2517 43	2098 36	3278 38
KHARKOF	1	1684 45	1582 45	2197 45	2526 45	2528 44	2260 45	1453 43	2350 45
MEAN		3247	3945	3991	3783	4006	3379	3270	3535
LSD (.05)		700	520	578	805	954	391	732	692
C.V.		13.2	8.1	8.9	13.0	11.8	7.1	13.7	9.7

Table 3. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	GARDEN CITY KANSAS	COLBY KANSAS	SALINA KANSAS	MANHATTAN KANSAS	LINCOLN NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	BROOKINGS S. DAKOTA
XH1881	37	2748 27	4518 1	6644 4	5947 1	3261 5	4419 1	3646 1	6203 1
TX91D6856	8	3306 1	3940 6	6566 6	4938 14	3238 7	4080 9	2814 4	5541 9
TX91D6825	7	2777 26	3480 28	6510 10	5286 8	2987 21	3992 12	2173 29	5167 19
NE93427	26	2842 19	3729 14	6537 8	5553 5	3463 1	4034 11	1858 41	5546 8
OK94P549	5	2802 23	3656 18	5615 31	4373 33	2697 31	3879 16	2183 27	5107 22
HBG0358	9	3271 2	3784 11	6023 16	4201 37	2800 26	4193 5	2145 32	5819 3
GI2017	45	2972 9	3782 12	6429 12	5564 4	3131 14	3510 35	2192 26	4539 40
KS84W063-9393	23	2074 45	3280 38	5669 28	4752 24	3196 10	3966 13	2302 18	4039 44
XH1877	36	2531 37	3988 4	5696 25	4923 15	3248 6	4158 7	2206 24	4961 29
KS94H147	19	2928 13	3882 9	6158 13	5676 3	2321 42	3960 14	2209 23	5154 20
WX94-1604	35	2392 42	4003 3	6783 2	5252 10	3018 18	4359 2	2031 36	5786 4
W94-320	31	2921 14	3519 25	6537 8	5174 11	2990 19	3586 32	2484 11	5358 12
WX95-2401	38	2946 12	3930 7	6077 14	5268 9	3290 4	3480 37	2567 8	5268 15
CO910424	16	3033 7	3698 16	5940 19	4577 26	3067 16	3756 22	2256 22	5295 14
KS940935-1255	21	2477 38	3080 43	5981 18	5683 2	2854 23	3478 38	1516 45	5010 27
KS85W663-11-6	22	2535 36	3540 23	6077 14	5093 13	2988 20	3324 43	2150 31	4409 43
WX94-3504	34	2374 43	3252 39	6483 11	4849 20	3170 11	3642 28	1877 39	5427 10
TX94V2327	10	2842 20	3957 5	6591 5	5109 12	2438 38	3708 25	2420 14	4811 35
GI594	43	3082 5	3383 32	5588 34	4903 18	2556 36	4220 4	2111 33	5066 25
OK94P461	6	2405 40	3223 40	5588 34	5358 6	2740 29	3454 39	2419 15	3932 45
NE94632	28	2621 32	3518 26	6918 1	4844 21	2967 22	3841 17	1868 40	4692 36
KS941064-6	20	2396 41	3283 37	6566 6	5344 7	3203 9	3754 23	1827 42	5351 13
W94-042	29	2972 9	3685 17	6671 3	4634 25	3124 15	4351 3	2289 20	5597 6
N95L158	24	2903 16	3365 33	5994 17	4905 17	3324 3	3814 19	2279 21	4876 33
T94	42	2820 21	3452 29	5642 29	4770 23	3146 13	3926 15	2495 10	4571 39
W94-137	30	2746 28	3847 10	5154 39	4510 28	2846 25	3611 31	2174 28	5172 18
T86	40	2724 29	3350 34	5804 21	4918 16	2677 32	3617 30	2152 30	5414 11
GI720	44	2547 35	3118 42	5723 24	4885 19	3059 17	3647 27	1612 43	5068 24
T93	41	2616 34	3039 44	5344 37	4557 27	2723 30	3334 42	2098 34	5138 21
NE93405	25	2616 33	3546 22	5750 22	4501 29	3217 8	4056 10	2302 18	5902 2
W94-245	32	3031 8	3630 19	5696 27	4170 38	2392 41	3639 29	2412 16	5062 26
TX95V4926	12	2791 24	3539 24	5615 30	4208 36	2417 39	3500 36	2854 2	4959 31
W94-435	33	2813 22	3297 36	5615 31	4829 22	2409 40	3432 40	1991 37	4977 28
TX95V4933	13	3181 3	3917 8	5696 25	4055 41	2752 27	3803 20	2780 5	4589 38
OK93617	4	2338 44	2781 45	5317 38	4078 40	2606 33	2762 45	1592 44	4642 37
TX94V2130	15	3087 4	3714 15	5615 31	4376 32	2586 34	3527 34	2698 6	4961 29
NE93496	27	2789 25	3191 41	5588 34	4241 35	3147 12	4153 8	2068 35	5575 7
T89	39	2645 31	3333 35	4721 41	4423 31	2575 35	3345 41	1892 38	5268 15
TX95V5332	14	3040 6	3395 31	5914 20	3977 43	2749 28	3833 18	2420 13	4880 32
CO940700	18	2907 15	3749 13	5750 22	4246 34	3390 2	4183 6	2848 3	4528 41
TX94V3329	11	2966 11	4024 2	4230 44	4441 30	2504 37	3552 33	2450 12	5187 17
TAM-107	3	2717 30	3580 20	5154 39	3983 42	2289 43	3711 24	2383 17	5098 23
CO920696	17	2890 17	3502 27	4530 42	4113 39	2851 24	3792 21	2677 7	5721 5
SCOUT66	2	2854 18	3564 21	4396 43	3531 44	2263 44	3677 26	2525 9	4824 34
KHARKOF	1	2475 39	3423 30	3472 45	2414 45	1654 45	3074 44	2199 25	4414 42
MEAN		2772	3566	5786	4698	2852	3759	2277	5087
LSD (.05)		474	484	596	799	611	599	545	721
C.V.		10.5	8.3	6.3	10.4	13.1	9.8	14.7	8.7

Table 3. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	FORT COLLINS COLORADO	JULESBURG COLORADO	COLUMBIA MISSOURI	CRAWFORD- SVILLE IOWA	LIND WASHINGTON	REGIONAL AVERAGE
XH1881	37	7211 3	3576 2	4369 1	3701 7	4529 12	4591 1
TX91D6856	8	8051 1	3068 12	3337 17	4157 1	4983 4	4395 2
TX91D6825	7	5975 28	3123 10	2705 37	3614 11	4285 18	4093 3
NE93427	26	6296 19	2957 19	4018 3	3690 8	4376 16	4057 4
OK94P549	5	7043 6	2750 29	3342 16	3593 12	3755 31	4045 5
HBG0358	9	6814 9	3206 6	2782 34	3283 26	4909 6	4042 6
G12017	45	5428 39	2855 24	3622 11	4081 2	4929 5	4039 7
K884W063-9393	23	5553 37	3014 16	3833 6	3465 20	3362 41	4034 8
XH1877	36	6915 7	2636 34	3740 10	3578 13	4197 19	4022 9
K894H147	19	6384 17	3055 13	3450 13	3975 3	3971 23	4007 10
WX94-1604	35	5851 30	3220 5	3805 8	3550 15	4732 11	4001 11
W94-320	31	7085 5	3043 14	2795 33	3482 18	6346 1	3998 12
WX95-2401	38	6138 25	3492 3	3941 4	3554 14	4806 8	3981 13
CO910424	16	7135 4	3601 1	3386 14	3075 37	4466 14	3968 15
K8940935-1255	21	6760 10	2568 36	2465 41	3158 35	3216 44	3968 14
K885W663-11-6	22	6687 11	3018 15	3365 15	3238 30	3819 29	3924 16
WX94-3504	34	6242 23	2886 22	3828 7	3395 21	3617 37	3897 17
TX94V2327	10	6059 26	3146 9	3549 12	3355 23	5310 2	3892 18
G1594	43	6516 14	2377 42	4255 2	3231 32	4799 9	3891 19
OK94P461	6	5544 38	2610 35	2909 28	3194 33	4822 7	3870 20
NE94632	28	6346 18	2651 33	3802 9	3770 4	3738 32	3861 21
K8941064-6	20	5427 40	2446 41	3114 22	3497 17	3322 42	3856 22
W94-042	29	5621 34	2797 25	3006 25	3730 6	4095 22	3856 23
N95L158	24	6536 13	2663 31	2712 36	3233 31	3852 27	3768 24
T94	42	6255 21	2885 23	3115 21	3512 16	4143 21	3753 25
W94-137	30	7794 2	2911 21	2888 30	2942 40	3875 26	3749 26
T86	40	6514 15	2524 40	3225 19	3753 5	3550 38	3718 27
G1720	44	5634 33	2267 44	2843 32	3122 36	3689 35	3623 28
T93	41	5889 29	2342 43	3852 5	3363 22	4183 20	3597 29
NE93405	25	6195 24	3188 7	2513 39	3480 19	3270 43	3592 30
W94-245	32	6292 20	2752 28	2994 26	3277 28	4511 13	3586 31
TX95V4926	12	6003 27	2699 30	2735 35	3617 10	3733 33	3585 32
W94-435	33	6554 12	3303 4	1773 43	3255 29	3797 30	3577 33
TX95V4933	13	5090 42	2944 20	3135 20	3341 24	3630 36	3576 34
OK93617	4	5652 32	1970 45	3104 23	3159 34	3469 39	3556 35
TX94V2130	15	5248 41	2557 37	3319 18	3062 38	3907 25	3554 36
NE93496	27	5786 31	3009 17	2467 40	3634 9	3437 40	3503 38
T89	39	5579 35	2547 38	2860 31	2878 42	3920 24	3503 37
TX95V5332	14	5555 36	3070 11	3035 24	3282 27	3821 28	3455 39
CO940700	18	6911 8	2975 18	2600 38	2957 39	5218 3	3433 40
TX94V3329	11	4757 43	2527 39	2962 27	2740 44	4397 15	3311 41
TAM-107	3	6245 22	2763 27	2891 29	3312 25	4782 10	3292 42
CO920696	17	6450 16	2654 32	2182 42	2848 43	3110 45	3239 43
SCOUT66	2	3552 44	3167 8	1701 44	2923 41	3708 34	2878 44
KHARKOF	1	2593 45	2793 26	1298 45	2542 45	4287 17	2357 45
MEAN		6093	2858	3103	3369	4148	3744
LSD (.05)		1284	490	593	516	736	285
C.V.		10.4	10.5	11.7	7.6	12.7	10.6

Table 4. Summary of mean yields (kg/ha) and ranks of 45 wheats grown in the 1997 Southern Regional Performance Nursery for 6 intr-regional production zones (after Peterson, 1992).

C.I. OR SEL. NO.	ENTRY: NO.	SOUTHERN PLAINS	CENTRAL PLAINS	NORTH- CENTRAL PLAINS	NORTHERN HIGH PLAINS	INTER- MOUNTAIN WEST	SOUTHERN HIGH PLAINS	REGIONAL AVERAGE
NUMBER OF LOCATIONS	6	7	5	5	4	5	33	
XH1881	37	4421 2	4867 1	4317 1	3898 1	5671 2	3597 4	4446 1
TX91D6856	8	4484 1	4511 3	4107 2	3248 4	5476 4	3574 7	4193 2
OK94P549	5	3963 10	4338 16	3740 16	2971 24	5093 12	3852 1	3960 3
XH1877	36	3652 16	4331 17	3762 13	3050 18	5231 8	3595 6	3907 4
TX91D6825	7	4173 5	4496 4	3842 9	3087 16	4589 32	3261 25	3895 5
GI2017	45	3795 14	4481 5	3748 15	2971 25	4828 21	3417 10	3871 6
KS94H147	19	3898 11	4452 6	3572 23	3181 8	4891 18	3272 23	3870 7
W94-320	31	3816 12	4234 20	3715 18	3014 23	5678 1	3187 31	3867 8
HBG0358	9	3612 19	4310 18	3513 27	3204 7	5113 10	3659 3	3847 9
KS940935-1255	21	4107 7	4357 14	3776 12	2574 42	4733 24	3674 2	3838 10
CO910424	16	3337 28	4413 7	3495 28	3321 3	5031 14	3596 5	3833 12
NE93427	26	3812 13	4356 15	4032 3	3033 20	4471 35	3180 32	3833 11
WX94-1604	35	3194 32	4401 10	3995 5	3230 5	4997 15	3255 26	3823 13
KS84W063-9393	23	4401 3	4613 2	3112 43	2940 28	4238 41	3038 40	3786 14
WX95-2401	38	2921 39	4401 11	3677 20	3214 6	5306 7	3314 18	3773 15
KS85W663-11-6	22	3982 9	4401 9	3170 41	2882 30	4952 17	3157 34	3755 16
GI594	43	3392 24	4239 19	3349 32	2784 34	5399 6	3416 11	3746 17
W94-042	29	4196 4	3825 29	3804 10	3091 15	4389 36	3262 24	3736 19
WX94-3504	34	3341 27	4409 8	3732 17	2796 33	4877 20	3281 21	3736 18
NE94632	28	3997 8	4040 25	3863 8	2749 37	4526 34	3138 37	3725 20
KS941064-6	20	3622 18	4382 13	3906 7	2632 41	4628 28	3236 29	3724 21
OK94P461	6	3472 22	4388 12	3237 37	2727 38	5105 11	3482 9	3700 22
N95L158	24	3596 20	4046 24	3802 11	2848 32	4985 16	3152 35	3684 23
TX94V2327	10	4123 6	3860 28	3365 30	3152 10	4604 30	2984 42	3673 24
W94-137	30	3227 31	4085 21	3252 36	3042 19	5527 3	3281 22	3661 25
T94	42	3275 29	4084 22	3575 22	3087 17	4754 23	3344 17	3648 26
T86	40	3794 15	3800 30	3750 14	2684 40	4604 31	3030 41	3585 27
W94-245	32	3155 34	3613 34	3063 44	2965 26	5409 5	3375 15	3511 28
TX95V4926	12	3377 26	3596 37	3536 24	2872 31	4630 27	3401 12	3507 29
GI720	44	3390 25	4004 26	3681 19	2432 44	4362 37	3244 28	3498 30
NE93496	27	2978 38	3709 33	4021 4	2931 29	4616 29	3176 33	3497 31
NE93405	25	3236 30	3434 39	3949 6	3107 13	4341 39	3284 20	3486 32
W94-435	33	3477 21	3596 36	3525 26	2761 36	4802 22	3313 19	3485 33
TX95V4933	13	3472 23	3597 35	3224 38	3136 12	4249 40	3358 16	3477 34
T93	41	3115 36	3957 27	3402 29	2562 43	4689 25	2956 43	3442 35
TX94V2130	15	2440 42	4053 23	3193 40	2960 27	4562 33	3522 8	3423 36
CO940700	18	2484 41	3253 40	3580 21	3349 2	5151 9	3396 14	3409 37
T89	39	3095 37	3731 32	3331 33	2696 39	4891 19	3052 39	3409 38
OK93617	4	3624 17	3732 31	3255 35	2173 45	4193 43	3398 13	3390 39
TX95V5332	14	3189 33	3535 38	3532 25	3021 21	4206 42	3072 38	3390 40
TX94V3329	11	3147 35	3017 43	3222 39	3157 9	4344 38	3224 30	3284 41
TAM-107	3	2380 43	3132 41	3160 42	3016 22	5054 13	3148 36	3210 42
CO920696	17	2520 40	3067 42	3354 31	3098 14	4652 26	3246 27	3208 43
SCOUT66	2	2322 44	2853 44	3308 34	3141 11	3692 44	2863 44	2937 44
KHARKOF	1	1541 45	2398 45	2673 45	2772 35	3409 45	2708 45	2477 45
MEAN		3434	3964	3560	2968	4777	3288	3626
LSD (.05)		554	573	640	323	965	477	270
C.V.		11.3	9.9	12.7	11.2	18.6	13.2	13.7

Table 5. Summary of mean yields (kg/ha) and ranks for 11 wheats grown in the Southern Regional Performance Nursery at 23 sites in 1996 and 1997 with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	CLOVIS (IRR.) NEW MEXICO	CLOVIS (DRYL.) NEW MEXICO	FARMINGTON NEW MEXICO	NEW MEXICO STATE MEAN
2180/Karl//2163	KS940935-1255	21	4011 1	2406 3	6722 1	4380 1
Mesa/Carson	CO910424	16	3628 3	2634 1	6461 3	4241 2
KS82W418/Stephens	KS84W063-9393	23	3015 8	2102 11	5346 9	3488 9
Bez1/Ctk78//Arthur/Ctk78/3/Bnt/4/Wkn	NE93427	26	3260 6	2203 8	5467 8	3643 7
Karl/HBY385D//2163	KS941064-6	20	3145 7	2194 9	6020 5	3787 6
KS82W422/SWM754308//KS831182/KS82W422	KS85W663-11-6	22	2979 9	2177 10	5696 6	3617 8
T68/KS90WGRC10	T89	39	3323 5	2278 7	6427 4	4009 4
NE85707/Thunderbird	NE93405	25	3718 2	2351 4	5615 7	3894 5
TAM-107 (PI495594)	TAM-107	3	3471 4	2318 5	6561 2	4117 3
Scout 66 (CI13996)	SCOUT66	2	2489 10	2473 2	5089 10	3350 10
Kharkof (CI1442)	KHARKOF	1	2081 11	2303 6	4003 11	2796 11
MEAN			3193	2313	5764	3757
LSD(.05)			N.S.	N.S.	N.S.	N.S.
C.V.			13.5	19.8	15.7	17.2

Table 5. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	STILLWATER OKLAHOMA	LAHOMA OKLAHOMA	GOODWELL OKLAHOMA	OKLAHOMA STATE MEAN	COLUMBIA* MISSOURI	FORT COLLINS * COLORADO	AKRON COLORADO	BURLINGTON COLORADO *
KS940935-1255	21	3318 2	4216 1	5166 4	4233 1	2268 1	5129 3	3328 8	1087 8
CO910424	16	2998 3	3041 9	5248 2	3762 6	2046 3	5803 1	4022 1	1584 3
KS84W063-9393	23	3557 1	3541 6	5411 1	4170 2	2041 4	4827 7	3235 9	1115 7
NE93427	26	2980 4	4152 2	4811 7	3981 3	2086 2	5021 5	3469 7	1360 5
KS941064-6	20	2716 7	3763 5	5177 3	3885 5	1570 9	3880 9	3126 10	1049 9
KS85W663-11-6	22	2884 5	3882 3	5070 5	3945 4	1689 7	4966 6	3670 3	927 11
T89	39	2418 8	3850 4	4872 6	3714 7	1685 8	4588 8	3518 5	1754 2
NE93405	25	2842 6	3343 7	4483 8	3556 8	2033 5	5080 4	3504 6	1194 6
TAM-107	3	2350 9	3067 8	4338 9	3252 9	1778 6	5524 2	3814 2	1788 1
SCOUT66	2	2098 10	2816 10	3588 10	2834 10	1388 10	3278 10	3559 4	1491 4
KHARKOF	1	1584 11	2078 11	2852 11	2171 11	1157 11	2771 11	3060 11	982 10
MEAN		2704	3432	4638	3591	1795	4624	3482	1303
LSD(.05)		N.S.	N.S.	1336	N.S.	N.S.	N.S.	N.S.	308
C.V.		9.0	9.2	6.2	7.9	13.0	12.4	14.4	21.0

* Not included in state or regional means.

Table 5. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	SIDNEY * NEBRASKA	HEMING- FORD NEBRASKA	PIERRE * S. DAKOTA	PROSPER TEXAS	CHILLI- COTHE TEXAS	BUSHLAND (IRR.) TEXAS	BUSHLAND (DRYL.) TEXAS	TEXAS STATE MEAN
KS940935-1255	21	2239 10	3171 10	2661 6	4325 3	2950 1	5073 2	1760 1	3527 1
CO910424	16	3373 2	3367 5	2243 8	3843 8	2767 4	4583 5	1757 2	3238 5
KS84W063-9393	23	3301 3	3450 3	2098 9	4295 5	2768 3	4873 3	1441 5	3345 3
NE93427	26	2836 7	3583 1	2849 3	4301 4	2790 2	4439 7	1355 7	3221 6
KS941064-6	20	2080 11	3203 9	3357 2	4942 1	2460 8	5144 1	1462 4	3502 2
KS85W663-11-6	22	2383 9	3537 2	1355 11	4366 2	2752 5	4558 6	1348 8	3256 4
T89	39	3079 5	3310 6	1927 10	4091 7	2585 6	4641 4	1336 9	3163 7
NE93405	25	2992 6	3440 4	3602 1	4264 6	2357 9	3974 9	1407 6	3000 9
TAM-107	3	3620 1	3213 8	2749 5	3839 9	2566 7	4201 8	1631 3	3059 8
SCOUT66	2	3171 4	3302 7	2612 7	3380 10	2029 10	3719 10	1251 10	2595 10
KHARKOF	1	2728 8	2812 11	2774 4	2091 11	1960 11	2627 11	819 11	1875 11
MEAN		2891	3308	2566	3976	2544	4348	1415	3071
LSD(.05)		N.S.	N.S.	N.S.	1300	N.S.	1277	N.S.	N.S.
C.V.		13.1	14.1	28.2	8.1	22.5	6.0	16.1	12.1

* Not included in state or regional means.

Table 5. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	HUTCHINSON KANSAS	HAYS KANSAS	MANHATTAN KANSAS	COLBY KANSAS	WICHITA KANSAS	WINFIELD KANSAS	KANSAS STATE MEAN	REGIONAL AVERAGE
KS940935-1255	21	3843 2	3041 8	5596 1	2973 8	4392 2	3504 4	3892 3	3878 1
CO910424	16	3702 5	3402 1	4619 7	3507 1	4958 1	3809 2	4000 1	3797 2
KS84W063-9393	23	4118 1	3353 2	4868 4	3053 6	4235 3	3937 1	3927 2	3700 3
NE93427	26	3673 6	3197 6	5490 2	3035 7	4163 4	3354 5	3818 4	3651 4
KS941064-6	20	3838 3	2923 10	5066 3	2948 9	4048 5	3296 6	3686 5	3637 5
KS85W663-11-6	22	3830 4	2959 9	4842 5	2843 11	3686 6	3591 3	3625 6	3593 6
T89	39	3345 9	3093 7	4415 8	2883 10	3672 7	3202 7	3435 8	3514 7
NE93405	25	3622 7	3200 5	4690 6	3095 5	3465 8	2708 11	3463 7	3449 8
TAM-107	3	3362 8	3283 3	4339 9	3114 3	3308 9	3190 8	3433 9	3442 9
SCOUT66	2	2984 10	3274 4	3121 10	3294 2	2766 10	3033 9	3079 10	3015 10
KHARKOF	1	2689 11	2768 11	1660 11	3106 4	2498 11	2796 10	2586 11	2433 11
MEAN		3546	3136	4428	3077	3745	3311	3540	3464
LSD(.05)		N.S.	N.S.	969	N.S.	1075	N.S.	N.S.	669
C.V.		6.0	10.4	9.1	7.5	13.1	13.7	10.0	12.8

Table 6. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from linear regression of entry mean yield on location mean yield for the 45 entries in the 1997 Southern Regional Performance Nursery grown at 33 locations.

C.I. OR SEL. NO.	: ENTRY: NO.	: REGIONAL AVERAGE KG/HA	: REGRESSION COEFFICIENT (b)	: COEFFICIENT OF DETERMINATION: (r ²)	: DEVIATIONS FROM REGRESSION (mean square)
XH1881	37	4446	1.10	0.90	164841
TX91D6856	8	4193	1.15	0.87	223982
OK94P549	5	3960	1.07	0.84	262123
XH1877	36	3907	1.11	0.92	118867
TX91D6825	7	3895	1.03	0.83	252834
G12017	45	3871	0.97	0.86	183047
KS94H147	19	3870	1.04	0.85	225650
W94-320	31	3867	1.15	0.84	290823
HBG0358	9	3847	1.14	0.84	291692
KS940935-1255	21	3838	1.18	0.84	305059
CO910424	16	3833	0.99	0.83	229670
NE93427	26	3833	0.94	0.80	268185
WX94-1604	35	3823	1.13	0.84	288889
KS84W063-9393	23	3786	0.86	0.60	583610
WX95-2401	38	3773	1.13	0.81	346736
KS85W663-11-6	22	3755	1.10	0.83	287450
G1594	43	3746	1.16	0.89	188008
W94-042	29	3736	0.91	0.77	290529
WX94-3504	34	3736	1.18	0.88	213333
NE94632	28	3725	0.93	0.80	260360
KS941064-6	20	3724	1.15	0.86	253840
OK94P461	6	3700	1.19	0.80	410615
N95L158	24	3684	1.02	0.88	170595
TX94V2327	10	3673	0.87	0.68	422344
W94-137	30	3661	1.26	0.85	327589
T94	42	3648	0.89	0.92	83984
T86	40	3585	0.94	0.84	198409
W94-245	32	3511	1.24	0.86	287775
TX95V4926	12	3507	0.91	0.84	184815
G1720	44	3498	1.01	0.92	105390
NE93496	27	3497	0.91	0.79	255835
NE93405	25	3486	0.95	0.80	265599
W94-435	33	3485	1.08	0.92	127303
TX95V4933	13	3477	0.82	0.81	189843
T93	41	3442	0.98	0.90	129929
TX94V2130	15	3423	0.96	0.79	290717
CO940700	18	3409	0.90	0.63	547529
T89	39	3409	1.09	0.90	155329
OK93617	4	3390	0.98	0.79	297658
TX95V5332	14	3390	0.74	0.78	178363
TX94V3329	11	3284	0.82	0.70	336281
TAM-107	3	3210	1.08	0.81	325589
CO920696	17	3208	0.94	0.71	416825
SCOUT66	2	2937	0.53	0.46	388381
KHARKOF	1	2477	0.42	0.25	632945

Table 7. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from linear regression of entry mean yield on location mean yield for the 11 entries in the 1996 and 1997 Southern Regional Performance Nursery grown at 18 locations.

C.I. OR SEL. NO.	: ENTRY: NO.	: REGIONAL AVERAGE KG/HA	: REGRESSION COEFFICIENT (b)	: COEFFICIENT OF DETERMINATION: (r ²)	: DEVIATIONS FROM REGRESSION (mean square):
KS940935-1255	21	3878	1.23	0.92	177319
CO910424	16	3797	1.09	0.86	243591
KS84W063-9393	23	3700	1.01	0.79	349990
NE93427	26	3651	1.02	0.86	217277
KS941064-6	20	3637	1.18	0.89	215387
KS85W663-11-6	22	3593	1.06	0.87	204638
T89	39	3514	1.12	0.91	163570
NE93405	25	3449	0.96	0.92	108680
TAM-107	3	3442	1.05	0.79	369227
SCOUT66	2	3015	0.76	0.72	290605
KHARKOF	1	2433	0.54	0.43	493550

Table 8. Summary of agronomic and yield data for 45 wheats grown in the 1997 Southern Regional Performance Nursery.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING %	WINTER SURVIVAL %	WINTER INJURY 0-5	GRN LEAF DURATION 0-9	SEPTORIA TRITICI %
	Number of Locations	22	19	4	1	2	2	1	
Quantum Hybrid Wheat	XH1881	37	87	132	27.4	30	0.8	7.5	31
Kavkaz/TX86D1308//Sturdy/TAM-300	TX91D6856	8	79	134	29.3	13	0.8	7.3	26
HBV756A/Sxl//2180	OK94P549	5	82	132	15.2	17	1	6	34
Quantum Hybrid Wheat	XH1877	36	80	132	21	37	0.8	9	27
TXGH12588/TX86D1317	TX91D6825	7	87	134	22.2	33	0.8	6.3	40
1992 Nebraska Bulk Selection	GI2017	45	86	132	59.3	20	1	8.5	35
KS87H22/Mesa	KS94H147	19	83	135	33.2	23	1	7.5	25
HBK0689	W94-320	31	86	133	37.2	10	0.8	7.5	44
W13445*W161/VW162)x244	HBG0358	9	87	133	22.2	17	1.3	6	27
2180/Karl//2163	KS940935-1255	21	83	133	15	23	1	6.8	43
Mesa/Carson	CO910424	16	85	132	32.5	17	1.3	9	38
Bex1/Ctk78//Arthur/Ctk78/3/Bnt/4/Nkn	NE93427	26	85	132	31	13	1	8.5	36
Quantum Hybrid Wheat	WX94-1604	35	83	130	32.2	30	1	7.8	25
KS82W418/Stephens	KS84W063-9393	23	87	135	29.8	23	0.8	7	19
Quantum Hybrid Wheat	WX95-2401	38	79	131	22.5	20	1	8.3	28
KS82W422/SWM754308//KS831182/KS82W422	KS85W663-11-6	22	82	134	21	17	1.3	6.3	24
BCD1828/83	GI594	43	89	135	16.7	20	1	8.5	25
Colt/Victory//Sturdy/Amigo	W94-042	29	76	135	47.4	20	0.8	7.5	37
Quantum Hybrid Wheat	WX94-3504	34	80	131	16.7	30	1	7.5	35
Abilene/Morkan//Rawhide	NE94632	28	84	132	32	30	0.8	6.5	37
Karl/HBY385D//2163	KS941064-6	20	78	132	13.4	30	1.3	6.5	50
T200/HBB313E//2158	OK94P461	6	78	132	5.8	17	0.8	7	37
KS831936-3//Colt/Cody	W95L158	24	79	135	23.5	43	1	7.3	32
NE83407/3/FLM/ACC//ANA	TX94V2327	10	83	134	47.2	10	0.5	7	26
Complex Pedigree	W94-137	30	78	133	10.9	17	0.8	8.3	36
T67/T81	T94	42	87	131	24.9	33	0.8	9	32
TAM-107/Caldwell	T86	40	86	130	32.1	27	1	9	43
Complex Pedigree	W94-245	32	75	132	4.9	30	1	8.5	38
Rio Blanco/Bai Quan #3039	TX95V4926	12	80	135	21.6	23	1	9	23
G2148//Bexostaya/Plainsman 5	GI720	44	84	134	29	20	0.8	8.5	39
NE85707/Thunderbird	NE93496	27	91	136	7.1	40	0.8	8	41
NE85707/Thunderbird	NE93405	25	89	132	25.2	27	1	8	42
Bulk Selection	W94-435	33	79	133	17.3	27	0.8	7	38
NE83407/TX88V4834	TX95V4933	13	78	135	29.5	13	1	9	23
Karl/T67	T93	41	85	131	39.9	13	1	9	24
TX85V1326/Karl	TX94V2130	15	78	131	38.2	27	1	9	39
Yuma-R21	CO940700	18	81	133	27.3	13	1.3	9	39
T68/KS90WGRC10	T89	39	83	130	23.2	23	0.8	8.5	35
Cimarron sib/Fundulea 133	OK93617	4	75	133	20.5	20	1	7.5	32
TX88V4914/NE83407	TX95V5332	14	86	136	23.6	27	1	8.5	28
Composite Cross	TX94V3329	11	77	133	58.8	23	0.8	8.5	32
TAM-107 (PI495594)	TAM-107	3	79	130	25.4	23	1	9	37
Yuma/TAM-107	CO920696	17	79	132	31.7	10	1	9	34
Scout 66 (CI13996)	SCOUT66	2	95	135	78.7	23	0.8	9	37
Kharkof (CI1442)	KHARKOF	1	104	139	70.1	30	0.8	8	34

Table 8. Concluded.

C.I. OR SEL. NO.	: ENTRY NO.	: SEV. %	: RESP: 0-9	: SEVERITY: 0-9	: RUST SEV. 0-5	: VIRUS 0-9	: BYD VIRUS %	: HARVEST INDEX %	: GRAIN PROTEIN %	: GRAIN HARDNESS	: % OVER 6.5/64 SCREEN	: VOLUME WEIGHT KG/HL	: YIELD KG/HA
Number of Locations	3	4	5	1	2	1	1	3	2	1	31	33	
XH1881	37	3	3	2.1	3	1	9	42	12.4	86	52	75.4	4446
TX91D6856	8	2	2	1.5	3	3.8	6	41	12	65	51	74.1	4193
OK94P549	5	5	3	1.8	4	6.5	7	41	12.9	88	62	76.9	3960
XH1877	36	14	8	4.9	2	2	7	43	12.4	77	59	75.1	3907
TX91D6825	7	5	3	1.4	4	1	10	39	12.6	101	40	75.5	3895
GI2017	45	35	8	4.9	3	1	8	45	12	95	34	74.5	3871
KS94H147	19	30	7	4.5	5	1	8	41	13.2	98	71	77.5	3870
W94-320	31	20	7	4	3	1	10	43	12.9	97	66	74.6	3867
HBG0358	9	3	3	1.7	3	1	8	45	12.7	94	51	76.4	3847
KS940935-1255	21	13	6	2.5	3	1	12	35	13.3	94	43	76.3	3838
CO910424	16	80	8	7.6	4	1	13	39	11.8	87	68	76.5	3833
NE93427	26	37	8	3.7	3	1	12	42	12.8	86	69	77.8	3833
WX94-1604	35	7	5	2	2	1	8	39	13.7	91	74	75.6	3823
KS84W063-9393	23	4	6	2.5	1	1.5	7	41	14.5	96	42	76.1	3786
WX95-2401	38	22	7	3.2	2	1.5	7	36	13	87	31	77.3	3773
KS85W663-11-6	22	0	2	1.4	1	1	14	39	13.8	67	72	76.4	3755
GI594	43	37	8	5.5	2	1	9	39	13.2	83	79	76.3	3746
W94-042	29	10	4	2.5	2	6.8	14	40	13.1	98	47	76.5	3736
WX94-3504	34	8	4	3.3	3	1	9	44	13.8	113	72	76.5	3736
NE94632	28	13	4	2.7	3	4.8	11	33	12.7	89	53	74.6	3725
KS941064-6	20	5	3	2.1	3	1.5	8	42	12.5	94	61	74.3	3724
OK94P461	6	7	2	1.9	4	1	18	43	12.8	80	63	75.8	3700
N95L158	24	17	7	5.5	4	1	20	40	13.2	91	58	73.7	3684
TX94V2327	10	10	7	2.8	4	7.2	5	35	13	100	62	74.5	3673
W94-137	30	47	8	5.4	4	1	16	37	13.2	90	48	76.3	3661
T94	42	40	8	6	3	1.7	24	43	12.7	91	68	77	3648
T86	40	47	8	6.3	5	3.5	7	45	12.3	102	51	75.6	3585
W94-245	32	40	7	6.1	5	6.3	12	40	13.4	106	26	76.2	3511
TX95V4926	12	80	8	6.4	4	5.8	7	40	13.1	86	44	73.9	3507
GI720	44	33	7	4.2	3	1	13	39	14.2	92	61	75.2	3498
NE93496	27	28	8	3.7	3	5.2	21	34	13.8	91	63	76.6	3497
NE93405	25	33	8	3.6	2	7.3	21	36	13.5	92	79	76.7	3486
W94-435	33	15	7	3.4	5	4.2	45	40	12.9	93	34	76	3485
TX95V4933	13	87	8	7.1	4	6.7	2	42	12.5	96	51	73.1	3477
T93	41	47	8	6.9	3	1	17	38	13.6	84	54	76.2	3442
TX94V2130	15	93	8	8.8	5	1.5	10	44	11.8	82	40	76	3423
CO940700	18	50	8	6.4	3	7.8	20	37	12.4	87	60	76	3409
T89	39	70	8	6.8	4	1.5	14	38	13.6	90	64	75.1	3409
OK93617	4	27	6	3.5	4	7.2	5	38	13.4	92	76	76.3	3390
TX95V5332	14	43	8	6.9	3	5	19	43	13.8	39	51	74.8	3390
TX94V3329	11	27	8	6	3	7.2	13	43	13.3	36	38	77.3	3284
TAM-107	3	93	8	8.3	5	5.7	5	49	11.7	95	47	74.6	3210
CO920696	17	80	8	8.3	4	5.5	15	37	12	76	46	74.2	3208
SCOUT66	2	67	8	6.6	4	7.7	36	29	13.4	89	64	76.6	2937
KHARKOV	1	30	8	5.1	3	6.3	48	29	14.2	66	19	75.9	2477

Table 9. Seedling infection type of entries in the 1997 Southern Regional Performance Nursery to selected isolates of stem rust. D.V. McVey, USDA-ARS Cereal Rust Laboratory, University of Minnesota, St. Paul, MN. 55108.

NO	LINE	QFCQ	QTHJ	RKRQ	RTQQ	TPMK	RTQS	Postulated
1	CI1442	S	S	S	S	S	S	none
2	CI13996	S	S	S	;1-N	S	,	17
3	PI495594	2=	2-	0	,	2=	,	10, 17, Amigo
4	OK93617	2	2=	0	0	2-	0	10, 17, 24
5	OK94P549	,	2=	;1	0	2=	1	10, 17, 24 or 26
6	OK94P461	;1N	S	0	1N	S	;1N	10, 17
7	TX91D6825	0	S	0	S	0	S	6
8	TX91D6856	0	2=	0	;1	0	,	6, 10, 17, Amigo
9	HBG0358	,	2	2	S	0	S	6, +
10	TX94V2327	,	2=	2=	2=	0	2=	6, +
11	TX94V3329	;1	2=	;1	2=	2=	;1	+
12	TX95V4926	,	2=	0	,	0	;1	6, 10, 17, +
13	TX95V4933	,	2=	0-	,	0	2-	6, 10, +
14	TX95V5332	,,2-	2=	;1N	2=	0	2-	seg 6, +
15	TX94V2130	;1	2=,S	;1	,,S	S,0	S	10, seg 6
16	CO910424	;1	2=	,	;1N	0	,	6, 10, 17, +
17	CO920696	,	2-	;1	2,S	0,S	S	seg 6, +
18	CO940700	,	22+	;1	23	0	23	6, +
19	KS94H147	2=	2=	;1	2	0	2=	?
20	KS941064-6	2=	2=	,	2-	2=	2=	?
21	KS940935--	2=	2=	2	2=	0	2	?
22	KS85W663--	,	;1	,	;1-N	0	;1N	6, 10, 17, +
23	KS84W063--	2=	2=	,	2=	2=	,	?
24	N95L158	,	2=	S	,	0	2=	6, 17, ?
25	NE93405	2=	2=	;1	;1	2=	2=	10, 24
26	NE93427	0	S	0	2=	0	S	6, +
27	NE93496	2=	2=	2=	2=	2=	2=	24 or 26
28	NE94632	2,S	2=,S	2	S,2-	S	S	?
29	W94-042	2=	2,S	2-	,	1	S,2=	seg Amigo
30	W94-137	2=	2=	,	1	2=,S	2-,S	seg Amigo
31	W94-320	S	S	S	S	S	S	none
32	W94-245	2=	2=	2=	2=	2=	2=	26
33	W94-435	,	2=	2=	;1	23	;1,2-	+
34	WX94-3504	S	S	S	2=?	S	S	?
35	WX94-1604	XN	S	X-N	XN	S	S	10
36	XH1877	;1	S	;1N	;1	2=	,	10, 17, +
37	XH1881	2=	S,2=	2=	2=,S	2=	2=	Seg 26?
38	WX95-2401	0	2=	2=	2	0	S	6,+
39	T89	;1N	2	;1N	,	2=	,,2=	10, +
40	T86	2=	2=	2=	2=	2=	2=	Amigo
41	T93	2=	2-	2-,S	2-,S	S	S	?
42	T94	;1-	2-,S	;1,S	2	2-2	,,S	?
43	G1594	S	S	S	,	S	S	?
44	G1720	S	S	S	S	S	S	none
45	G12017	2	2-	2	2	S	2,2+	?

Table 10. Seedling infection type for entries in the 1997 Southern Regional Performance Nursery to selected isolates of leaf rust. D. V. McVey, USDA-ARS Cereal Rust Laboratory, University of Minnesota, St. Paul, MN 55108.

NO	LINE	SCDG	MDLQ	KFBM	MBLM	MFPM	SBBM
1	CI1442	,	S	S	S	S	,
2	CI13996	,	S	S	S	23	,
3	PI495594	,	,	S	,	23	,
4	OK93617	,	,	S	,	,1	,
5	OK94P549	,	,1-C,2	1C	,	,1C	,
6	OK94P461	,	,1-	,	,	,	,
7	TX91D6825	,	,	,2C	,	,1C	,1-C
8	TX91D6856	,	,	23C	,	,	,
9	HBG0358	,	,1	,	23	,	,2
10	TX94V2327	,	,1	,	,1-C	,1-C	,
11	TX94V3329	,	21	23	23	,	,
12	TX95V4926	,	X	,	23	2	,
13	TX95V4933	,	23	,	S	S	,
14	TX95V5332	,	23	S	S	,1C	,
15	TX94V2130	23,,	,	,	S	S	S
16	CO910424	,	23	S	23	S	,1-C
17	CO920696	23	S	S	S	,	S
18	CO940700	2	2	S	S	,	S
19	KS94H147	,	21	,	,	,	,
20	KS941064-6	,	S	,	S	,1-C	,
21	KS940935--	,	2	12C	23	,	,12C
22	KS85W663--	,1C	,	,	23	,	,12C
23	KS84W063--	,	,	,	,	,	,
24	N95L158	-	-	-	-	-	-
25	NE93405	,C	,	S	,C	-	,C
26	NE93427	,,2	,	S	S	-	,
27	NE93496	-	,	S	,C	23	,
28	NE94632	,	,	-	S	S	,
29	W94-042	-	,	S	S	2	2
30	W94-137	,	,,23	,	S	S	,
31	W94-320	,	23,,	S	S	S	,1-C
32	W94-245	,	23	,	S	S	,
33	W94-435	,	S	S	S	S	2
34	WX94-3504	S	2	S	S	2,1C	2
35	WX94-1604	,	23,C	,1C,,	,1C	,	,2
36	XH1877	,,2C	S	,	S,,C	S	S
37	XH1881	-	-	-	S	S	2
38	WX95-2401	,12C	23	S	S,,	,	S
39	T89	2	,C	,,S	S	,1-C	S
40	T86	S	S	S	S	,	S
41	T93	23	,,S	,,S	,	,	S
42	T94	,1C,23	S	S	S	,	S
43	GI594	S	S	S	S	,	,
44	GI720	21	,,,1C	S	S	,	,
45	GI2017	,1	S	S	-	,	S

	Lr	Lr	Lr	Lr
Set I	1	2a	2c	3
Set II	9	16	24	26
Set III	3ka	11	17	30
Set IV	10	18	21	23

Table 11. Entries in the 1997 Southern Regional Performance Nursery that possess a 1RS wheat-rye translocation. Analytical methods were reported in the 1993 Regional Report. Data provided by Bob Graybosch, USDA-ARS, Lincoln, NE

C.I. OR SEL. NO.	: : ENTRY: TRANSLOCATION : : NO. : :	:
KHARKOF	1	NON.1RS
SCOUT66	2	NON.1RS
TAM-107	3	1AL.1RS
OK93617	4	NON.1RS
OK94P549	5	1BL.1RS (+/-)
OK94P461	6	NON.1RS
TX91D6825	7	NON.1RS
TX91D6856	8	1BL.1RS
HBG0358	9	NON.1RS
TX94V2327	10	NON.1RS
TX94V3329	11	1AL.1RS
TX95V4926	12	NON.1RS
TX95V4933	13	NON.1RS
TX95V5332	14	NON.1RS
TX94V2130	15	NON.1RS
CO910424	16	NON.1RS
CO920696	17	NON.1RS
CO940700	18	NON.1RS
KS94H147	19	NON.1RS
KS941064-6	20	NON.1RS
KS940935-1255	21	NON.1RS
KS85W663-11-6	22	NON.1RS
KS84W063-9393	23	1BL.1RS
N95L158	24	NON.1RS
NE93405	25	1BL.1RS
NE93427	26	NON.1RS
NE93496	27	1BL.1RS
NE94632	28	NON.1RS
W94-042	29	1AL.1RS
W94-137	30	1BL.1RS
W94-320	31	NON.1RS
W94-245	32	1AL.1RS
W94-435	33	NON.1RS
WX94-3504	34	NON.1RS
WX94-1604	35	NON.1RS
XH1877	36	1BL.1RS
XH1881	37	1BL.1RS
WX95-2401	38	NON.1RS
T89	39	1AL.1RS
T86	40	1AL.1RS
T93	41	NON.1RS
T94	42	1AL.1RS
G1594	43	NON.1RS
G1720	44	NON.1RS
G12017	45	NON.1RS

Table 12. Mean coleoptile length and mean seed weight of the 45 entries in the 1997 Southern Regional Performance Nursery grown in the irrigated nursery at Bushland, TX, with mean plant height of entries over all locations. Coleoptile length and seed weight data provided K. B. Porter.

Entry no.	CI or Sel. No.	Coleoptile Length		1997 Mean Wt. 16 seed	Regional Mean Plant Height
		1997 Bushland Irrigated	3-Site 1996-97 Mean		
		----- mm -----	-----	mg	cm
2	CI13996	122	118	409	95
14	TX95V5332	121		433	86
25	NE93405	119	116	406	89
27	NE93496	116		392	91
43	GI594	112		476	89
1	CI1442	106	107	351	104
45	GI2017	95		329	86
9	HBG0358	94		473	87
40	T86	93		436	86
36	XH1887*	91		385	80
6	OK94P461	90		426	78
28	NE94632	89		467	84
41	T93	89		446	85
3	PI495594	87	90	340	79
32	W94-245	87		336	75
35	WX94-1604*	87		349	83
39	T89	86	86	397	83
19	KS94H147	85		354	83
5	OK94P549	85		444	82
13	TX95V4933	84		401	78
26	NE93427	84	79	364	85
31	W94-320	83		468	86
42	T94	83		345	87
24	N95L158	82		442	79
29	W94-042	82		358	76
12	TX95V4926	81		403	80
33	W94-435	81		374	79
16	CO910424	80	87	324	85
22	KS85W663-11-6	80		461	82
17	CO920696	79		444	79
21	KS940935-125-5	79	75	473	83
7	TXD6825	79	80	437	87
20	KS941064-6	78	75	507	78
4	OK93617	78		401	75
44	GI720	78		333	84
10	TX94V2327	77		369	83
11	TX94V3329	77		363	77
23	KS84W063-9-39	77	73	452	87
37	XH1881*	77		466	87
8	TX91D6856	76		389	79
30	W94-137	75		323	78
15	TX94V2130	74		336	78
38	WX95-2401*	74		430	79
34	WX94-3504*	73		524	80
18	CO940700	69		452	81
Mean		86	90	406	
LSD (0.05)			7		
C.V. %			5		

* Hybrids were evaluated using F2 seed.

Table 12a. Correlation of coleoptile length of 1997 SRPN entries from one seed source with mean seed weight and mean plant height over locations.

	Coleoptile length Bushland Irrigated
r value - coleoptile length and weight of seed	0.02
Probability > r	0.99
r value - coleoptile length and mean plant height	0.63
Probability > r	0.0001

Table 13. Reaction of entries in the 1997 Southern Regional Performance Nursery to Soilborne Wheat Mosaic Virus. Data provided by Bob Hunger and John Sherwood, Entomology and Plant Pathology Dept., Oklahoma State University, Stillwater.

Entry	C.I. or SEL. NO.	SOILBORNE MOSAIC			GRAIN	1000-KERNEL
		VISUAL	ELISA		YIELD	WEIGHT
		1-4	O.D.	Sdev	GM	GM
01	CI1442 ('Kharkof')	4.0	1.38	(0.11)	12.1	22.7
02	CI13996 ('Scout 66')	4.0	1.30	(0.13)	24.0	24.0
03	PI495594 ('TAM-107')	4.0	1.35	(0.23)	8.8	23.7
04	OK93617	4.0	1.38	(0.17)	18.5	25.3
05	OK94P549	3.7	1.31	(0.13)	51.0	29.0
06	OK94P461	1.0	0.06	(0.00)	63.5	31.0
07	TX91D6825	1.0	0.92	(0.76)	137.4	32.3
08	TX91D6856	4.0	1.41	(0.16)	23.6	25.5
09	HBG0358	1.0	0.06	(0.06)	154.3	39.6
10	TX94V2327	4.0	1.42	(0.03)	69.9	24.9
11	TX94V3329	4.0	1.36	(0.14)	40.0	18.0
12	TX95V4926	3.3	1.42	(0.12)	43.3	22.5
13	TX95V4933	4.0	1.36	(0.18)	54.4	20.8
14	TX95V5332	4.0	1.37	(0.13)	27.7	19.9
15	TX94V2130	1.3	1.02	(0.81)	67.1	26.7
16	CO910424	1.3	0.48	(0.76)	109.6	30.1
17	CO920696	4.0	1.42	(0.11)	13.0	19.3
18	CO9940700	4.0	1.33	(0.26)	12.7	18.4
19	KS94H147	1.7	0.17	(0.09)	119.4	30.6
20	KS941064-6	1.3	0.87	(0.72)	77.4	29.5
21	KS940935-125-5-2	1.3	0.48	(0.74)	76.9	31.5
22	KS5W663-11-6-MB	1.3	0.05	(0.03)	109.3	28.7
23	KS84W063-9-39-3-MB	1.0	0.11	(0.10)	154.4	28.4
24	N95L158	1.7	0.08	(0.12)	78.3	26.1
25	NE93405	4.0	1.40	(0.13)	13.2	27.0
26	NE93427	1.0	0.12	(0.06)	72.9	29.3
27	NE93496	4.0	1.38	(0.11)	11.0	26.3
28	NE94632	3.3	1.37	(0.14)	72.5	22.2
29	W94-042	4.0	1.39	(0.09)	27.7	21.3
30	W94-137	1.0	0.43	(0.71)	84.2	23.8
31	W94-320	1.0	0.53	(0.63)	95.7	30.3
32	W94-245	4.0	1.37	(0.09)	33.4	20.0
33	W94-435	2.3	0.04	(0.04)	76.5	26.6
34	WX94-3504	1.0	0.42	(0.58)	108.1	35.6
35	WX94-1604	1.0	0.98	(0.84)	108.9	31.8
36	XH1877	2.0	0.09	(0.08)	107.9	28.3
37	XH1881	1.0	0.91	(0.78)	134.1	31.8
38	WX95-2401	1.3	0.26	(0.39)	55.1	29.5
39	T89	2.0	1.03	(0.84)	41.6	31.0
40	T86	4.0	1.42	(0.12)	27.9	25.5
41	T93	1.0	0.09	(0.07)	87.0	30.1
42	T94	1.7	0.95	(0.73)	68.0	31.4
43	G1594	1.0	0.10	(0.09)	113.3	29.9
44	G1720	1.3	0.50	(0.80)	65.2	26.6
45	G12017	1.0	0.82	(0.65)	98.3	28.7
LSD (P=0.05)		0.5			39.5	2.8

Table 13. SBMV ratings and experimental methodology.

Reaction to WSBMV was determined for wheat entries in the 1997 Southern and Northern Regional Performance Nurseries. The trial was conducted near Stillwater, OK, in a Norge loam soil. Soil tests were used to insure adequate fertilization (N-P-K) and pH for a production goal of 40 bu wheat/A. The experimental design was a randomized complete block with three replications (three, 2-ft rows per entry). Seeds were planted about 1.0 in. deep at a rate of 24 seeds/2-ft row on 09 Oct 96. Rows of 'Vona' [WSBM-susceptible, wheat spindle streak mosaic (WSSM)-susceptible], 'Sierra' (WSBM-resistant, WSSM-susceptible) and 'Hawk' (WSBM-resistant, WSSM-resistant) were planted between reps to monitor the presence and distribution of WSBM and WSSM. Glean (chlorsulfuron, 0.33 oz/A in 24 gal) was applied on 14 Nov 96 to control weeds, and Tilt (propiconazole, 4 oz/A in 22 gal) was applied on 14 Apr and 10 May 97 to control foliar diseases. Entries were assessed for symptoms on 03 Mar 97 using a visual assessment index of 1-4, where 1=no stunting, no mosaic, 2=slight stunting and/or slight mosaic, 3=moderate stunting and/or slight mosaic, and 4=severe stunting and/or severe mosaic. Young foliage was collected from each row of each entry on 05 Mar 97 for evaluation by ELISA (Hunger, et al. 1991. Crop Sci. 31:900-905). The trials were harvested on 07 Jun (SRPN) and 11 Jun (NRPN).

WSBM was uniformly distributed as indicated by the susceptible checks. WSSMV was detected by ELISA (absorbance values >0.30) in 11 of 39 Vona, Hawk, and Sierra samples. Vona samples (n=32) had Visual indices of 4 and values from ELISA for WSBMV from 1.12 to 1.63 (mean=1.34). Sierra and Hawk samples (n=18) had Visual indices of 1 or 2, and values from ELISA for WSBMV from 0.01 to 0.09 (mean=0.04) with four exceptions (0.13, 0.24, 0.80, and 1.17). Twenty-five RPN entries and seven NRPN entries were resistant to WSBM (Visual ≤ 2.0 and values from ELISA consistent with no detectable virus or virus concentrations less than those of the susceptible check cultivar Vona).

The 25 SRPN entries identified as WSBMV-resistant had an average yield of 95.5 gm (sd=30.0) and an average TKW of 30.1 gm (sd=3.1) compared to an average yield of 33.1 gm (sd=21.7) and a TKW of 23.1 gm (sd=3.1) for the 20 WSBMV-susceptible entries. The seven NRPN entries identified as WSBMV-resistant had an average yield of 92.5 gm (sd=20.5) and an average TKW of 26.8 gm (sd=2.8) compared to an average yield of 26.1 gm (sd=11.5) and an average TKW of 19.8 gm (sd=2.4) from the 28 WSBMV-susceptible entries. These results indicate a significant affect of WSBMV on yield and seed quality, and also demonstrate the effectiveness of this nursery to screen for reaction to WSBMV.

Table 14. Seedling reaction of entries in the 1997 Southern Regional Performance Nursery to a composite of leaf rust races collected in Oklahoma. Data provided by R.M. Hunger and W.C. Siegerist, Entomology and Plant Pathology Dept., Oklahoma State University, Stillwater.

ENTRY	C.I. OR SEL. NO.	SEEDLING LEAF RUST REACTION		
		REP 1	REP 2	REP 3
01	KHARKOF	3+	3+	3+
02	SCOUT66	3	3+	3+
03	TAM-107	3+c	X,3-	3+
04	OK93617	3	3+c	3+
05	OK94P549	3c	3+	X,3-
06	OK94P461	3+	3+	3+
07	TX91D6825	3+	3+	3+
08	TX91D6856	X,3-	3+	3+
09	HBG0358	3c	3c	3+
10	TX94V2327	,	X,3-	3c
11	TX94V3329	3+	3+	3-c
12	TX95V4926	3+	3+	3+
13	TX95V4933	3c	3+	3+
14	TX95V5332	3c	3+	3c
15	TX94V2130	3+	3+	3+
16	CO910424	3+	X,3-c	X,3
17	CO920696	3c	3-c	3+
18	CO940700	3+	X,3-	3+c
19	KS94H147	X,3-	3+	3-c
20	KS941064-6	3+	4	X,3-
21	KS940935-125-5+	3c	3+	3+c
22	KS85W663-11-6+	3+c	3+	4
23	KS84W063-9-39+	X,3-	3+c	4
24	N95L158	3+	3+	3+c
25	NE93405	X,3-	3+	X,3-c
26	NE93427	3c	3+	X,3-c
27	NE93496	3	X,3-	X,3-
28	NE94632	3+	3+	3+
29	W94-042	3+	3+	X,3c
30	W94-137	3+	X,3-	3+
31	W94-320	4	3+	3+
32	W94-245	3+	3+	3+
33	W94-435	3+c	3+c	3+c
34	WX94-3504	3+	3+	3+
35	WX94-1604	3+	3+	3+
36	XH1877	3+	3c	3+
37	XH1881	X3+c,	3+	3+
38	WX95-2401	3+	3+c	3+
39	T89	3+	3+	3+
40	T86	3+	3+c	X,3-
41	T93	3+	4	3+
42	T94	3+	3+	3+
43	G1594	4	X,3-c	3+
44	G1720	3+	3+	3c
45	G12017	3+	3+	3+

Reactions were determined using Stakeman's rating scale.
 Avirulence/virulence formula was determined as:
 17 19 26 / 1 2a 2c 3 3ka 9 11 16 24 30.

Table 15. Hessian fly reaction, Great Plains biotype, for entries in the 1997 Southern Regional Performance Nursery. Data provided by J. H. Hatchett, USDA-ARS, Manhattan, KS.

C.I. OR SEL. NO.	: ENTRY: : : NO. : : : R-S :
KHARKOF	1 S
SCOUT66	2 S
TAM-107	3 S
OK93617	4 S
OK94P549	5 H
OK94P461	6 R
TX91D6825	7 H
TX91D6856	8 H
HBG0358	9 S
TX94V2327	10 S
TX94V3329	11 S
TX95V4926	12 S
TX95V4933	13 S
TX95V5332	14 S
TX94V2130	15 S
CO910424	16 R
CO920696	17 S
CO940700	18 S
KS94H147	19 S
KS941064-6	20 H
KS940935-1255	21 R
KS85W663-11-6	22 S
KS84W063-9393	23 S
N95L158	24 S
NE93405	25 S
NE93427	26 S
NE93496	27 S
NE94632	28 H
W94-042	29 H
W94-137	30 H
W94-320	31 S
W94-245	32 H
W94-435	33 S
WX94-3504	34 S
WX94-1604	35 S
XH1877	36 S
XH1881	37 H
WX95-2401	38 H
T89	39 H
T86	40 S
T93	41 H
T94	42 H
G1594	43 S
G1720	44 S
G12017	45 S

Table 16. Acid soil tolerance of entries in the 1997 Southern Regional Performance Nursery. Ratings were collected on four dates in the field at Enid, OK (pH=4.5; Al saturation=32%). Data provided by Brett Carver, Oklahoma State University, Stillwater.

C.I. OR SEL. NO.	:	ENTRY:	Acid Soil Tolerance Rating				:
			10/30/96	12/11/96	3/17/97	5/16/97	
		NO. :	1-5	1-5	1-5	1-5	:
KHARKOF	1	3	4	4	4	4	
SCOUT66	2	3	4	4	4	4	
TAM-107	3	3	4	4	4	4	
OK93617	4	3	3	3	3	3	
OK94P549	5	2	2	2	2	1	
OK94P461	6	4	5	5	5	4	
TX91D6825	7	1	1	1	1	1	
TX91D6856	8	4	4	4	4	3	
HBG0358	9	1	1	2	2	1	
TX94V2327	10	4	5	4	4	4	
TX94V3329	11	2	2	2	2	1	
TX95V4926	12	4	5	5	5	4	
TX95V4933	13	3	4	5	5	4	
TX95V5332	14	4	4	5	5	4	
TX94V2130	15	3	3	3	3	3	
CO910424	16	4	4	4	4	3	
CO920696	17	4	4	4	4	4	
CO940700	18	2	2	2	2	2	
KS94H147	19	4	4	4	4	3	
KS941064-6	20	1	1	1	1	1	
KS940935-1255	21	1	1	2	2	1	
KS85W663-11-6	22	1	1	2	2	2	
KS84W063-9393	23	2	2	3	3	2	
N95L158	24	2	2	2	2	2	
NE93405	25	3	4	5	5	4	
NE93427	26	3	4	5	5	5	
NE93496	27	4	4	5	5	4	
NE94632	28	3	3	3	3	2	
W94-042	29	4	3	3	3	2	
W94-137	30	4	4	4	4	3	
W94-320	31	3	3	3	3	3	
W94-245	32	4	3	3	3	3	
W94-435	33	5	4	4	4	3	
WX94-3504	34	1	1	2	2	2	
WX94-1604	35	1	1	1	1	2	
XH1877	36	4	5	5	5	4	
XH1881	37	2	1	1	1	1	
WX95-2401	38	3	3	3	3	3	
T89	39	4	4	4	4	4	
T86	40	3	3	3	3	3	
T93	41	2	2	3	3	3	
T94	42	2	2	3	3	3	
G1594	43	2	4	4	4	4	
G1720	44	3	3	4	4	4	
G12017	45	3	3	3	3	3	

Ratings from 1 (very tolerant) to 5 (very susceptible) with ratings of 2 or less showing desirable levels of tolerance based on plant vigor and tiller production.

1997

Northern Regional Performance Nursery

<u>Entry</u> <u>No.</u>	<u>Variety or Pedigree</u>	<u>Sel. No.</u>	<u>Source</u>
1**	Kharkof	CI1442	Check
2**	Roughrider	CI17439	"
3**	Abilene	PI511307	"
4**	Brule//BNT/CSM/3/Arap	SD92107	So. Dakota
5**	OK81306//SD82102/NWN	SD92191	"
6**	SD76463-16//SD82195/SD82144	SD92227	"
7*	SD8026/Roughrider//SD76598-7/Agassiz	SD93267	"
8*	MT8030/TX81V6180	SD93336	"
9*	Brule/TAM-105//NE82651	SD93364	"
10*	TX80A5901-1/NE78488	SD93380	"
11*	Judith/Redwin	SD93500	"
12	NE82413/3/Newton sib/Agate//Sage sib	NE92652	Nebraska
13	NE82419/Arapahoe	NE93554	"
14	NE82419/Arapahoe	NE93613	"
15*	NE82419/Arapahoe	NE93669	"
16*	Arapahoe/Abilene//NE86488	NE94479	"
17*	" "	NE94481	"
18*	" "	NE94482	"
19*	Arapahoe/OK81322//NE82438	NE94489	"
20*	KS86H187/Cody	NE94567	"
21*	Araphoe/Abilene//Arapahoe	NE94653	"
22*	" "	NE94655	"
23*	KS831936-3//Colt/Cody	N95L164	NE,ARS
24*	Quantum Hybrid Wheat	XH1920	HybriTech
25*	" "	XNH1824	"
26*	" "	XH1881	"
27	Rampart (Lew/Tiber//Redwin)	MT892042	Montana
28*	WWP4394/Nuwest//MT7431/MT7978	MT91192	"
29*	Nuwest/MT7869//Norwin/MT7840	MT9222	"
30	Rri/ND7571//Arapahoe	ND9257	No. Dakota
31	Rri/ND7656//Arapahoe	ND9272	"
32	A76327W-2-3T/A7457W-13-1-1T-2P	IDO467	Idaho
33	Rust resistant bulk (1B/1R)	AMP3JP4A7A	Alberta
34	" "	AMQ3NQ4A7D	"
35	" "	AMQ3KF4B7A	"

* New Entry

** New Seed Provided

Test Site Information - NRPN

Nebraska Stations -- See information for SRPN.

South Dakota Stations -- See information for SRPN.

Hettinger, ND -- Planted on 9/25/96 and harvested 8/1/97. No winterkilling was observed and the nursery had good conditions with adequate moisture and cool temperatures. Fertilizer applied was 100 lb/a of 18-46-0.

Williston, ND -- Planted on 9/11/96 into fallow ground at seeding rate of 1 million PLS/a. Fertilizer applied was 60 lbs/a N and 20 lbs/a P205. Fall establishment was excellent. Leaf diseases were present on lower leaves but not rated. There were no insect pressures. Approximately 40 inches of snow was received during the winter with October through March precipitation totaled 3.83 inches. The months of April, May and June were very dry, followed by 5.5 inches of rain in early July. Harvested 7/16/97.

Minnesota Stations -- The NRPN nurseries at Rosemount and Waseca were both lost to winterkilling.

Archer, WY -- No additional information.

Moccasin, MT -- Planted on 9/24/96 on fallow ground. June through August precipitation was 10.73 inches compared with long-term average of 6.5 inches. Fertilizer was 45 units/a N as urea broadcast and incorporated preplant. Nitrogen levels for the shallow soils were insufficient for the yield levels obtained.

Bozeman, MT -- No additional information.

Loma, MT -- There was little winter injury. A heavy sawfly infestation was scored, but sawfly and lodging scores were somewhat confound with each other.

Lind, WA -- See information for the SRPN.

Lethbridge, Alberta -- No additional information.

Ames, IA -- The nursery had severe winterkilling and no yield data were obtained.

Table 18. Yield and agronomic data for 35 wheats grown in the 1997 Northern Regional Performance Nursery.

LINCOLN, NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : KG/HL	: PLANT : HEIGHT CM	: DAYS TO : HEADING FROM 1/1:	: LODGING : 0-9	: WINTER : SURVIVAL : 0-9
XNH1824	25	3300	76.8	84	154	0	9
NE92652	12	3214	81	91	155	0	9
XH1881	26	3147	74.6	83	151	0	9
N95L164	23	3139	76.5	81	155	0	9
ABILENE	3	3057	77.5	78	154	0	9
NE93554	13	3024	75.1	86	154	1	9
SD93380	10	2982	74.6	89	155	1.5	9
NE94479	16	2738	77.3	87	156	1	9
XH1920	24	2687	76.1	91	154	1	9
AMP3JP4A7A	33	2680	77.4	92	157	1.5	9
SD92227	6	2634	78.6	104	158	0.5	9
NE94653	21	2616	71.2	85	155	1	9
NE94489	19	2614	75.9	89	155	0.5	9
NE93669	15	2599	75.6	81	155	0	9
SD92107	4	2567	77.4	91	156	0.5	9
ND9257	30	2460	75.1	92	158	0.5	9
NE94481	17	2406	76.1	83	154	0.5	9
ROUGH RIDER	2	2373	78.7	103	156	1.5	9
NE94655	22	2327	76.4	80	156	0.5	9
SD93500	11	2309	73.5	95	157	1	9
SD93336	8	2250	77.7	91	157	0.5	9
NE94567	20	2219	76.8	82	155	0.5	9
NE94482	18	2212	76.1	86	158	0	9
SD93364	9	2181	77.4	91	155	1.5	9
NE93613	14	2157	74.8	89	158	0.5	9
ND9272	31	2065	73.3	87	157	0.5	9
SD92191	5	2044	77.4	96	159	1.5	9
AMQ3KF4B7A	35	2035	.	92	160	0.5	9
MT91192	28	1966	71.6	78	160	0	9
KHARKOF	1	1945	78.3	108	157	4.5	9
SD93267	7	1890	76.1	102	157	1	8
MT9222	29	1631	72.9	90	158	0.5	9
AMQ3NQ4A7D	34	1618	72.2	86	160	0.5	9
IDO467	32	1542	70	78	159	0	9
MTS92042	27	849	73.5	75	157	0	3

MEAN	2385
LSD (.05)	681
C.V.	17.5

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL
AMP3JP4A7A	33	4573	80.5
XNH1824	25	4020	80.2
NE93554	13	4018	80
XH1920	24	4015	80.8
SD93500	11	3982	77.4
SD92227	6	3964	82.6
N95L164	23	3963	79.6
XH1881	26	3949	80.4
AMQ3NQ4A7D	34	3927	80
NE92652	12	3914	82.6
MT91192	28	3892	76.1
NE94481	17	3874	79.5
NE94567	20	3813	76.2
NE94653	21	3813	78.7
ND9257	30	3802	79.1
NE94482	18	3777	79.7
NE93669	15	3759	78.4
SD93364	9	3751	.
ROUGH RIDER	2	3668	80.6
NE94479	16	3666	79.6
SD93380	10	3653	78.7
AMQ3KF4B7A	35	3653	78.3
NE94489	19	3636	78.3
NE94655	22	3378	78.2
NE93613	14	3324	79.1
KHARKOF	1	3319	81.3
MT9222	29	3261	78.9
SD93336	8	3257	.
SD92107	4	3238	76.1
SD93267	7	3206	79.3
SD92191	5	3134	81.3
ABILENE	3	3025	82.6
ND9272	31	2859	79.3
IDO467	32	2536	74.2
MTS92042	27	2413	78.7

MEAN	3601
LSD (.05)	744
C.V.	12.7

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL :
XH1920	24	3862	75.1
XH1881	26	3799	75.2
SD93500	11	3406	74.7
NE94481	17	3250	74.2
SD92107	4	3243	72.9
NE94482	18	3198	75.1
XNH1824	25	3190	75.5
ND9257	30	3179	74.8
NE94653	21	3027	73.8
SD93336	8	3018	77.4
N95L164	23	3005	73.9
NE93613	14	2961	75.5
NE94655	22	2932	73.7
NE93554	13	2890	77.4
SD93380	10	2870	72.8
NE94479	16	2849	74.8
ABILENE	3	2840	73.7
NE93669	15	2742	74.2
NE94567	20	2719	72.2
SD92227	6	2606	78.7
MT91192	28	2590	78.7
NE92652	12	2573	80
MT9222	29	2447	75.5
AMP3JP4A7A	33	2396	77.4
AMQ3NQ4A7D	34	2282	73.5
ND9272	31	2264	74.2
SD93364	9	2165	74.8
SD92191	5	2159	76.1
KHARKOF	1	2040	76.8
ROUGH RIDER	2	1801	73.5
SD93267	7	1800	75.1
NE94489	19	1467	.
AMQ3KF4B7A	35	1232	72.2
IDO467	32	1051	71.6
MTS92042	27	753	73.2

MEAN	2589
LSD (.05)	764
C.V.	18.1

HEMINGFORD

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL :
XH1881	26	3155	74.4
NE94482	18	3109	78.9
NE94479	16	3028	78.6
NE93613	14	2970	77.5
N95L164	23	2951	77
NE94655	22	2943	76.2
NE94653	21	2932	77.3
NE93669	15	2930	76.1
XNH1824	25	2922	76.1
ABILENE	3	2822	79.3
SD93267	7	2809	76.5
SD92227	6	2802	76.4
NE94481	17	2802	78.7
NE92652	12	2782	81.3
ROUGH RIDER	2	2764	76.6
MT9222	29	2698	75.6
SD93500	11	2679	72.2
SD92107	4	2677	76.9
MT91192	28	2657	72.2
NE93554	13	2655	77.7
ND9272	31	2638	76.1
SD93364	9	2589	78.9
NE94489	19	2585	76.1
XH1920	24	2575	77.3
KHARKOF	1	2542	75.7
NE94567	20	2532	68.6
SD93336	8	2478	78.8
SD93380	10	2445	77.4
SD92191	5	2436	76.1
AMP3JP4A7A	33	2381	74.2
MTS92042	27	2244	75.9
ND9257	30	2182	76.1
AMQ3KF4B7A	35	2069	76.1
AMQ3NQ4A7D	34	1935	75.5
IDO467	32	1847	72.1

MEAN	2645
LSD (.05)	638
C.V.	14.8

BROOKINGS

S. DAKOTA

TWO REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	: YIELD : KG/HA :	: VOLUME : KG/HL :	: PLANT : HEIGHT : CM :	: DAYS TO : HEADING : FROM 1/1:	: LODGING : % :
XH1881	26	5952	77.9	86	165	3
NE94479	16	5797	78.6	88	164	2.5
XH1920	24	5588	79.3	85	164	3.5
SD92107	4	5521	78.8	90	167	4
NE94567	20	5474	76.8	76	166	2.5
NE93554	13	5420	78.8	81	165	3
NE93613	14	5393	78.8	86	168	3.5
SD92191	5	5205	82.2	91	167	3.5
XNH1824	25	5161	78	77	166	2.5
AMP3JP4A7A	33	5135	79.5	95	171	4.5
NE94481	17	5104	78	85	167	2
AMQ3KF4B7A	35	5084	78.8	90	173	3
NE92652	12	5057	79.5	85	166	2.5
SD93500	11	4997	76.9	97	167	3
SD93267	7	4987	78	94	165	4
NE94655	22	4977	77.1	81	166	2
NE94482	18	4906	78.2	88	167	2.5
ND9272	31	4892	78.4	86	168	2.5
MT91192	28	4711	76	83	172	2
SD92227	6	4704	81.5	94	167	3.5
SD93336	8	4681	80.4	95	169	3
SD93380	10	4681	77.9	88	167	3.5
N95L164	23	4677	79.7	79	169	2
IDO467	32	4674	77.7	77	171	2
ND9257	30	4560	77.8	91	170	2
ABILENE	3	4556	79.9	66	164	1.5
AMQ3NQ4A7D	34	4539	78.6	93	173	1.5
SD93364	9	4506	77.7	89	166	3
MT9222	29	4412	78.2	88	167	4
NE93669	15	4338	77.7	83	165	2
NE94653	21	4227	76.8	83	164	2.5
MTS92042	27	4183	78.9	95	168	4.5
KHARKOF	1	4075	79.5	103	169	6
ROUGH RIDER	2	3941	78.4	99	169	5
NE94489	19	3904	76.6	77	165	1.5

MEAN	4858
LSD (.05)	935
C.V.	9.5

PIERRE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
XH1881	26	3378	71.3
XH1920	24	3271	74
SD93380	10	2890	72.9
NE93554	13	2650	71.3
SD93500	11	2634	70.7
SD93336	8	2531	75.8
SD92191	5	2457	75.9
ND9272	31	2381	73.1
NE94655	22	2316	71.1
KHARKOF	1	2293	75.3
ND9257	30	2278	68.9
SD93267	7	2237	74.1
SD92227	6	2224	74.6
SD93364	9	2224	74.3
NE94479	16	2125	72.4
AMP3JP4A7A	33	2085	71.9
NE94489	19	2060	69.5
NE93613	14	2035	70.2
NE94482	18	1995	72.2
AMQ3KF4B7A	35	1986	71.9
AMQ3NQ4A7D	34	1923	71.2
N95L164	23	1912	71.8
MT9222	29	1858	72.7
SD92107	4	1852	74.6
NE94567	20	1831	68.3
NE93669	15	1827	70.1
ROUGH RIDER	2	1675	72.4
XNH1824	25	1529	71.7
NE92652	12	1513	75.3
MTS92042	27	1502	74.9
MT91192	28	1437	70.8
NE94653	21	1399	71.9
NE94481	17	1143	68.8
IDO467	32	942	67.1
ABILENE	3	769	72

MEAN	2033
LSD(.05)	1067
C.V.	32.1

WINNER

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: WINTER SURVIVAL %	: GRN LEAF DURATION 0-5
SD92191	5	2367	77.1	83	167	70	2
SD92107	4	2311	75.2	82	168	57	2.7
N95L164	23	2217	73.9	72	167	40	2.7
XH1920	24	2089	74.9	76	164	63	3.7
NE93554	13	2051	73.8	73	165	63	5
SD93364	9	2015	74.9	76	168	63	2.7
MT9222	29	1988	74.2	81	169	63	3
SD93380	10	1968	73.9	75	166	63	4.3
XH1881	26	1955	72.5	71	164	50	3.3
SD92227	6	1941	76	81	166	63	2
NE93613	14	1941	72.3	75	169	57	4.3
NE93669	15	1885	71.9	69	168	57	4.3
ND9272	31	1872	72	74	169	63	4
AMQ3KF4B7A	35	1863	71	71	170	63	3.7
NE94567	20	1856	70.6	65	165	43	3.3
NE94655	22	1827	72.6	69	168	50	4.7
SD93267	7	1814	75	81	167	57	2
SD93500	11	1807	71.8	72	168	67	5
NE94481	17	1805	74.1	74	169	47	4
KHARKOF	1	1780	75.9	83	170	50	2.7
XNH1824	25	1751	73	66	169	43	5
NE94482	18	1731	74.3	63	167	63	5
NE94479	16	1715	73.6	72	168	50	5
AMP3JP4A7A	33	1708	73.6	79	170	67	4
ND9257	30	1672	72.4	73	169	60	4.7
SD93336	8	1618	75.4	79	171	60	3.3
ROUGH RIDER	2	1571	73.6	86	168	70	3
ABILENE	3	1571	75	62	168	37	5
NE94653	21	1520	73.7	73	168	53	5
AMQ3NQ4A7D	34	1457	71.6	70	170	53	3.3
NE94489	19	1421	71.1	71	167	60	4
MT91192	28	1376	69.8	69	171	60	5
MTS92042	27	1190	73.8	74	171	33	4.7
NE92652	12	1116	74.3	65	168	37	5
IDO467	32	1058	68.2	66	169	50	5

MEAN 1767
LSD (.05) 348
C.V. 12.0

HETTINGER

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
XH1920	24	4952	79.2	76	153
AMQ3NQ4A7D	34	4873	79.2	80	160
AMQ3KF4B7A	35	4649	78.3	79	157
NE94653	21	4606	78.4	76	153
SD93267	7	4533	78.9	86	152
AMP3JP4A7A	33	4510	80	76	158
NE94481	17	4425	78	74	154
NE94567	20	4419	77.4	65	152
MT91192	28	4412	76.7	73	158
XNH1824	25	4365	78.3	66	154
XH1881	26	4284	78.7	70	153
ROUGH RIDER	2	4225	79.2	87	157
MT9222	29	4211	78.3	78	154
SD92227	6	4178	80.5	78	155
MTS92042	27	4142	78.6	77	155
ND9257	30	4076	78.3	76	157
SD93500	11	4045	78.8	81	155
NE94479	16	3966	78.3	74	153
NE93613	14	3953	78.6	70	155
NE93554	13	3924	77.7	71	155
NE93669	15	3914	77.4	70	153
IDO467	32	3895	77	64	159
ABILENE	3	3880	80.6	61	154
SD93336	8	3864	79.8	82	156
SD93364	9	3854	79.3	72	155
SD92107	4	3845	78.5	73	155
SD92191	5	3837	80.7	76	155
NE94482	18	3796	77.9	75	154
N95L164	23	3785	79.9	68	155
ND9272	31	3777	78.1	72	154
NE92652	12	3698	81	74	154
NE94655	22	3677	78.9	70	154
KHARKOF	1	3669	79	91	155
NE94489	19	3630	77.3	71	154
SD93380	10	3515	78.1	71	154

MEAN	4097
LSD (.05)	805
C.V.	12.0

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 %
AMQ3NQ4A7D	34	1945	73.9	55	160	90
ND9257	30	1859	76.4	52	158	83
SD93380	10	1792	76.9	54	155	81
XH1920	24	1782	77.7	55	155	90
AMP3JP4A7A	33	1749	76.5	51	159	84
SD93364	9	1721	76.5	53	156	91
SD92227	6	1666	78.9	51	156	80
XH1881	26	1639	75.5	47	155	88
N95L164	23	1636	78.7	49	156	93
NE94482	18	1617	79.1	49	156	74
SD92107	4	1615	76.6	53	156	85
NE94479	16	1609	78.7	56	156	80
ELKHORN	36	1603	74.8	54	159	84
NE94655	22	1602	78.8	48	156	76
SD93500	11	1600	76	51	158	74
SD93267	7	1586	77.5	59	155	73
NE94489	19	1566	76.2	47	155	81
SD92191	5	1561	79.3	51	157	55
NE94481	17	1551	79.2	47	156	80
ABILENE	3	1542	78.4	40	155	91
XNH1824	25	1540	77.8	51	155	81
SD93336	8	1530	78.3	52	158	86
KHARKOF	1	1516	77.9	57	157	84
NE94653	21	1516	78.2	51	155	76
MTS92042	27	1509	78.3	50	157	79
AMQ3KF4B7A	35	1492	73.1	46	160	81
NE93613	14	1457	76.4	53	157	56
NE94567	20	1437	74.4	45	155	71
NE92652	12	1423	81.5	49	156	56
ROUGH RIDER	2	1404	76.2	51	159	88
MT9222	29	1377	74.2	44	159	81
IDO467	32	1374	74.3	47	160	50
ND9272	31	1356	74.9	51	157	64
NE93554	13	1349	78.9	51	155	60
NE93669	15	1348	78	49	156	59
MT91192	28	1327	77	49	159	58
MEAN		1561				
LSD(.05)		194				
C.V.		8.8				

ARCHER

WYOMING

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
AMP3JP4A7A	33	3676	75.5	59	164
AMQ3NQ4A7D	34	3033	73.1	54	163
XH1881	26	3015	77.9	52	157
PRONGHORN	36	2885	78.8	55	156
N95L164	23	2820	76.6	51	160
MTS92042	27	2786	77.4	49	160
MT9222	29	2775	78.5	53	158
ND9257	30	2764	77.7	52	160
XH1920	24	2690	77.4	51	155
MT91192	28	2668	74.2	53	164
SD93500	11	2645	75.9	51	160
IDO467	32	2638	76	52	161
ND9272	31	2598	77.2	53	159
NE94567	20	2564	74.7	50	158
SD92227	6	2549	78.5	55	160
NE94481	17	2540	77.1	50	159
SD92191	5	2533	78	52	160
AMQ3KF4B7A	35	2515	76.3	58	166
NE93554	13	2464	78	44	155
XNH1824	25	2448	77.7	47	157
SD93364	9	2421	78.5	47	158
NE94482	18	2372	77.1	49	158
NE93613	14	2365	76	52	160
SD93336	8	2334	79.4	53	160
SD92107	4	2329	78	50	159
BUCKSKIN	37	2293	78.9	57	156
NE92652	12	2246	81.3	47	157
SD93267	7	2199	78.3	55	155
SD93380	10	2179	75.8	47	157
KHARKOF	1	2152	78.2	62	160
NE94479	16	2148	76.8	48	157
NE94655	22	2125	76.5	47	159
NE93669	15	2069	74.6	45	157
ROUGH RIDER	2	2067	78.1	58	160
NE94653	21	1973	76.9	48	157
ABILENE	3	1681	79.5	39	156
NE94489	19	1634	75.9	46	157

MEAN	2465
LSD (.05)	645
C.V.	16.0

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:	: GRAIN PROTEIN %
XNH1824	25	5936	78.6	85	168	10
ND9272	31	5580	78.3	89	170	9.5
SD93380	10	5523	76	90	166	9.5
XH1881	26	5485	78.3	86	166	9.2
NE94567	20	5456	75.4	83	167	9.6
XH1920	24	5389	78.4	91	165	9.2
NE94655	22	5319	78.1	87	168	9.5
AMP3JP4A7A	33	5290	81.1	102	175	9.2
SD92227	6	5203	82.4	97	168	10.3
NE94489	19	5172	75.2	87	167	9.9
SD93500	11	5147	76.5	96	169	8.5
ND9257	30	5147	77.4	97	172	9.3
NE94479	16	5127	79.5	88	169	10.3
NE92652	12	5030	81.5	89	168	10
N95L164	23	5012	76.5	85	170	9
NE94482	18	5008	77.8	91	168	9.6
MT91192	28	5001	78.2	87	174	8.9
NE94653	21	4927	76	88	167	9.4
AMQ3KF4B7A	35	4923	81.2	101	177	9.9
AMQ3NQ4A7D	34	4896	81.3	104	177	9.4
NE93554	13	4873	77.9	88	166	9.8
MT9222	29	4833	78.8	97	168	9
NE94481	17	4808	78.2	89	168	8.9
SD92191	5	4784	82.5	96	169	9.4
ABILENE	3	4716	79.8	72	166	9.9
SD93336	8	4530	80.2	94	170	9.6
SD92107	4	4499	77.7	99	169	10.6
NE93613	14	4329	77.1	91	170	9.3
ROUGH RIDER	2	4293	79.4	108	171	10.4
SD93267	7	4248	79.4	100	164	10.3
NE93669	15	4212	76.5	88	167	9.5
SD93364	9	4174	79.5	91	167	9.8
KHARKOF	1	3961	78.8	109	170	12.2
MTS92042	27	3959	79	97	173	10.4
IDO467	32	3786	76.6	80	178	10.3

MEAN	4874
LSD(.05)	1029
C.V.	12.9

BOZEMAN

MONTANA

THREE REPLICATIONS

	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO	:	STRIPE	:	GRAIN	:	
C.I. OR	:	ENTRY:	:	WEIGHT	:	HEIGHT	:	HEADING	:	RUST SEV.	:	PROTEIN	:		
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:	:	0-5	:	%	:
XH1881	:	26	:	6844	:	79.1	:	85	:	164	:	3	:	11.7	:
XNH1824	:	25	:	6351	:	78.6	:	82	:	166	:	2.7	:	12.6	:
N95L164	:	23	:	6299	:	78.6	:	80	:	170	:	2	:	12.6	:
NE93613	:	14	:	5976	:	77.1	:	93	:	167	:	3	:	12.8	:
SD93500	:	11	:	5902	:	77.9	:	93	:	170	:	3.3	:	12.2	:
MT91192	:	28	:	5862	:	77.1	:	87	:	169	:	2.3	:	12.5	:
ND9272	:	31	:	5862	:	77.1	:	90	:	167	:	3.3	:	12.1	:
IDO467	:	32	:	5817	:	75.6	:	79	:	169	:	2.3	:	11.6	:
NE94655	:	22	:	5763	:	77.3	:	86	:	168	:	3	:	12.5	:
SD92107	:	4	:	5757	:	77.8	:	93	:	167	:	3	:	13.3	:
ND9257	:	30	:	5649	:	77.4	:	92	:	168	:	3	:	12.4	:
SD92191	:	5	:	5512	:	81.5	:	98	:	167	:	3	:	13.2	:
NE94481	:	17	:	5423	:	78.3	:	88	:	166	:	3	:	12.5	:
MT892042	:	27	:	5393	:	79.3	:	95	:	168	:	3.7	:	13	:
NE93554	:	13	:	5378	:	76.6	:	85	:	164	:	3	:	13.1	:
SD92227	:	6	:	5335	:	80.8	:	92	:	166	:	2.3	:	13.5	:
NE94482	:	18	:	5328	:	78.4	:	82	:	166	:	3	:	12.5	:
NE94479	:	16	:	5254	:	78.7	:	88	:	166	:	3.3	:	12.6	:
NE94653	:	21	:	5228	:	77	:	84	:	166	:	3.7	:	12.5	:
NE94567	:	20	:	5221	:	74.6	:	81	:	167	:	3.3	:	11.4	:
ROUGH RIDER	:	2	:	5201	:	79.6	:	105	:	169	:	3.3	:	13.2	:
NE92652	:	12	:	5194	:	80.5	:	88	:	166	:	3	:	13.1	:
SD93267	:	7	:	5172	:	79.6	:	97	:	168	:	2.7	:	14.1	:
SD93380	:	10	:	5160	:	73.9	:	90	:	165	:	5	:	12.7	:
XH1920	:	24	:	5145	:	78.4	:	89	:	164	:	4	:	13.4	:
SD93364	:	9	:	5080	:	78.8	:	86	:	166	:	2.7	:	14.1	:
SD93336	:	8	:	5015	:	79.3	:	95	:	169	:	3	:	13.1	:
KHARKOF	:	1	:	4965	:	78.6	:	118	:	169	:	3	:	15.5	:
AMQ3NQ4A7D	:	34	:	4755	:	77.8	:	98	:	172	:	1.7	:	11.6	:
NE93669	:	15	:	4678	:	76.4	:	84	:	166	:	3.7	:	12.6	:
MT9222	:	29	:	4674	:	79.6	:	87	:	167	:	2.7	:	13.2	:
AMP3JP4A7A	:	33	:	4589	:	77.5	:	98	:	171	:	1.3	:	11.8	:
ABILENE	:	3	:	4562	:	79.3	:	66	:	165	:	4	:	12.9	:
NE94489	:	19	:	4519	:	75.2	:	85	:	166	:	4	:	12.8	:
AMQ3KF4B7A	:	35	:	4436	:	76.5	:	98	:	172	:	1.7	:	12.2	:

MEAN	5351
LSD(.05)	944
C.V.	10.8

LOMA

MONTANA

FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: LODGING : 0-9	: SAWFLY : 0-9
XH1881	26	3928	2.5	3.8
NE94479	16	3832	5.5	4.8
NE94482	18	3734	5	5
NE93669	15	3636	5.8	4
NE94481	17	3587	4.3	4
NE94567	20	3490	2.5	3.5
SD93364	9	3465	2.8	3
NE94489	19	3393	3.5	5.8
ND9272	31	3393	5.8	4
SD93267	7	3344	5.5	5
SD92107	4	3318	4.8	3.3
NE94653	21	3294	4.3	6
N95L164	23	3270	3.8	5.8
NE93554	13	3246	6.5	5.3
SD93500	11	3222	7.3	4.3
IDO467	32	3173	3.3	5
NE94655	22	3148	2.8	4.8
NE93613	14	3124	5.8	6
MTS92042	27	3124	1.5	2
XNH1824	25	3100	4.5	5.5
SD93336	8	3075	6.3	5
AMQ3NQ4A7D	34	3051	1.3	1.8
MT9222	29	3050	3.5	4.3
ROUGH RIDER	2	2978	5.3	2.5
SD93380	10	2905	6.3	4.3
ABILENE	3	2904	2	4
ND9257	30	2904	6.3	4.5
AMP3JP4A7A	33	2879	2.8	4.5
SD92191	5	2855	6	5.5
NE92652	12	2855	6.3	4.3
SD92227	6	2807	6.8	4.3
AMQ3KF4B7A	35	2734	3	4
XH1920	24	2709	7.5	7
MT91192	28	2562	6.8	5.5
KHARKOF	1	2416	8	3.3

MEAN	3157
LSD (.05)	543
C.V.	12.2

LETHBRIDGE

ALBERTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING 0-9
AMQ3NQ4A7D	34	4344	75	178	2
SD93267	7	4331	73	168	2.3
SD93500	11	4263	73	173	4
SD93364	9	4256	63	172	1.8
SD93380	10	4126	63	171	3
N95L164	23	4115	58	173	2.8
NE94482	18	4093	61	172	3
XH1881	26	4055	57	171	2.8
NE94479	16	4052	61	172	3
ND9272	31	4033	67	173	2.8
NE93554	13	4026	62	170	2.8
NE92652	12	4008	58	170	3
SD92227	6	4001	70	172	2
SD93336	8	3981	71	173	3.5
SD92107	4	3977	68	172	2
NE94489	19	3842	59	173	2.8
NE94653	21	3808	64	172	2.8
NE94481	17	3790	61	172	2.8
NE93613	14	3764	68	175	2.3
CLAIR	38	3730	72	174	3
READYMADE	37	3706	75	175	2
NE93669	15	3700	58	172	2.5
XNH1824	25	3700	57	173	3
NE94655	22	3692	62	172	2.8
SD92191	5	3664	64	173	2
XH1920	24	3658	60	171	3
AMQ3KF4B7A	35	3640	73	179	2.8
ABILENE	3	3619	51	172	2.3
ND9257	30	3609	73	175	3
NE94567	20	3554	57	168	2
MTS92042	27	3536	68	173	2
IDO467	32	3512	56	179	2
ROUGH RIDER	2	3382	77	173	2.8
AMP3JP4A7A	33	3352	69	176	2
OSPREY	36	3224	75	175	3
KHARKOF	1	3092	87	173	4.3
MEAN		3812			
LSD (.05)		584			
C.V.		10.9			

AMES

IOWA

TWO REPLICATIONS

	:	:	WINTER	:
C.I. OR	:	ENTRY:	SURVIVAL	:
SEL. NO.	:	NO.	%	:
KHARKOF	1		17	
ROUGH RIDER	2		49	
ABILENE	3		4	
SD92107	4		24	
SD92191	5		43	
SD92227	6		8	
SD93267	7		18	
SD93336	8		15	
SD93364	9		41	
SD93380	10		30	
SD93500	11		46	
NE92652	12		2	
NE93554	13		8	
NE93613	14		1	
NE93669	15		6	
NE94479	16		4	
NE94481	17		6	
NE94482	18		9	
NE94489	19		9	
NE94567	20		2	
NE94653	21		11	
NE94655	22		4	
N95L164	23		9	
XH1920	24		33	
XNH1824	25		20	
XH1881	26		5	
MTS92042	27		1	
MT91192	28		18	
MT9222	29		14	
ND9257	30		54	
ND9272	31		48	
IDO467	32		4	
AMP3JP4A7A	33		40	
AMQ3NQ4A7D	34		25	
AMQ3KF4B7A	35		46	

MEAN

LSD(.05)

C.V.

LIND, WASHINGTON

FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: GRAIN PROTEIN %
IDO467	32	6053	79.7	86	144	12.3
N95L164	23	5706	82.3	85	144	11.9
AMQ3NQ4A7D	34	5674	79.9	97	147	11.8
BUCHANAN	38	5511	78.1	108	148	9.5
XH1920	24	5464	81.7	90	141	12.3
NE94567	20	5395	78.8	81	141	10.8
ELTAN	40	5390	77.9	90	149	9.6
FINLEY	39	4993	82	101	144	11.1
HATTON	36	4941	82.4	98	147	12.4
NE93613	14	4903	80.9	88	143	12.1
NE94482	18	4776	80.8	86	142	12.2
SD93380	10	4768	80.7	81	141	12.3
ND9257	30	4689	80.9	97	144	11.9
ABILENE	3	4662	82.7	73	140	13.1
SD92107	4	4649	79.5	88	143	12.6
NE94653	21	4566	80.7	85	141	12.3
MT91192	28	4551	81	90	146	11.5
SD92191	5	4543	81.8	89	145	13.2
XNH1824	25	4529	80.8	79	140	11.3
NE92652	12	4506	82.5	81	143	11.9
NE93554	13	4489	81.1	83	140	11.8
AMQ3KF4B7A	35	4444	81.2	98	146	11.7
WESTON	37	4427	81.7	103	140	10.9
NE94481	17	4375	80.9	84	140	12.4
KHARKOF	1	4366	80.3	123	144	13.3
XH1881	26	4331	81.3	80	140	11.4
SD93364	9	4309	81.4	80	142	12.7
AMP3JP4A7A	33	4309	81.6	85	146	11.2
NE94655	22	4237	80.1	83	143	11.7
SD93500	11	4121	80.4	86	144	13
NE94479	16	4121	80.9	81	140	12.4
NE94489	19	4069	80.5	84	140	12.2
SD93267	7	4013	81.7	95	140	11.8
MT9222	29	4011	81.3	86	140	12.1
ND9272	31	3929	80.7	83	143	12.2
SD92227	6	3806	81.9	87	143	12.8
NE93669	15	3709	80.9	81	140	12.3
SD93336	8	3704	81.4	87	144	12.7
MT892042	27	3600	81.5	87	143	12
ROUGH RIDER	2	3598	81.5	91	144	12.3

MEAN	4556
LSD (.05)	978
C.V.	15.3

Table 19. Summary of mean yields (kg/ha) of 35 wheats grown in the 1997 Northern Regional Performance Nursery at 15 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	PIERRE * S. DAKOTA	WINNER S. DAKOTA	BROOKINGS S. DAKOTA	SOUTH DAKOTA STATE MEAN
Quantum Hybrid Wheat	XH1881	26	3378 1	1955 9	5952 1	3953 1
Quantum Hybrid Wheat	XH1920	24	3271 2	2089 4	5588 3	3839 3
Quantum Hybrid Wheat	XNH1824	25	1529 28	1751 21	5161 9	3456 10
KS831936-3//Colt/Cody	N95L164	23	1912 22	2217 3	4677 23	3447 12
KS86H187/Cody	NE94567	20	1831 25	1856 15	5474 5	3665 8
Arapahoe/Abilene//NE86488	NE94481	17	1143 33	1805 19	5104 11	3454 11
Rust resistant bulk (1B/1R)	AMP3JP4A7A	33	2085 16	1708 24	5135 10	3421 13
Judith/Redwin	SD93500	11	2634 5	1807 18	4997 14	3402 14
Arapahoe/Abilene//NE86488	NE94479	16	2125 15	1715 23	5797 2	3756 5
NE82419/Arapahoe	NE93554	13	2650 4	2051 5	5420 6	3736 6
Brule//BNT/CSM/3/Arap	SD92107	4	1852 24	2311 2	5521 4	3916 2
Arapahoe/Abilene//NE86488	NE94482	18	1995 19	1731 22	4906 17	3318 20
Rri/ND7571//Arapahoe	ND9257	30	2278 11	1672 25	4560 25	3116 24
NE82419/Arapahoe	NE93613	14	2035 18	1941 10	5393 7	3667 7
TX80A5901-1/NE78488	SD93380	10	2890 3	1968 8	4681 21	3324 18
Araphoe/Abilene//Arapahoe	NE94655	22	2316 9	1827 16	4977 16	3402 14
Araphoe/Abilene//Arapahoe	NE94653	21	1399 32	1520 29	4227 31	2873 31
SD76463-16//SD82195/SD82144	SD92227	6	2224 13	1941 10	4704 20	3323 19
Rust resistant bulk (1B/1R)	AMQ3WQ4A7D	34	1923 21	1457 30	4539 27	2998 29
NE82413/3/Newton sib/Agate//Sage sib	NE92652	12	1513 29	1116 34	5057 13	3087 26
WNP4394/Nuwest//MT7431/MT7978	MT91192	28	1437 31	1376 32	4711 19	3044 28
Rri/ND7656//Arapahoe	ND9272	31	2381 8	1872 13	4892 18	3382 17
OK81306//SD82102/NWN	SD92191	5	2457 7	2367 1	5205 8	3786 4
Brule/TAM-105//NE82651	SD93364	9	2224 14	2015 6	4506 28	3261 21
Abilene (PI511307)	ABILENE	3	769 35	1571 27	4556 26	3064 27
NE82419/Arapahoe	NE93669	15	1827 26	1885 12	4338 30	3111 25
SD8026/Roughrider//SD76598-7/Agassiz	SD93267	7	2237 12	1814 17	4987 15	3400 16
Nuwest/MT7869//Norwin/MT7840	MT9222	29	1858 23	1988 7	4412 29	3200 22
MT8030/TX81V6180	SD93336	8	2531 6	1618 26	4681 21	3150 23
Rust resistant bulk (1B/1R)	AMQ3KF4B7A	35	1986 20	1863 14	5084 12	3473 9
Roughrider (CI17439)	ROUGH RIDER	2	1675 27	1571 27	3941 34	2756 33
Arapahoe/OK81322//NE82438	NE94489	19	2060 17	1421 31	3904 35	2663 35
A76327W-2-3T/A7457W-13-1-1T-2P	IDO467	32	942 34	1058 35	4674 24	2866 32
Kharkof (CI1442)	KHARKOF	1	2293 10	1780 20	4075 33	2928 30
Rampart (Lew/Tiber//Redwin)	MTS92042	27	1502 30	1190 33	4183 32	2687 34
MEAN			2033	1767	4858	3313
LSD (.05)			1067	348	935	664
C.V.			32.1	12.0	9.5	10.6

* Not included in state or regional means.

Table 19. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	LINCOLN NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	HEMING- FORD NEBRASKA	NEBRASKA STATE MEAN	ARCHER WYOMING	LIND WASHINGTON	LETHBRIDGE ALBERTA *
XH1881	26	3147 3	3949 8	3799 2	3155 1	3512 1	3015 3	4331 21	4055 8
XH1920	24	2687 9	4015 4	3862 1	2575 24	3285 3	2690 8	5464 4	3658 24
XNH1824	25	3300 1	4020 2	3190 7	2922 9	3358 2	2448 19	4529 15	3700 20
N95L164	23	3139 4	3963 7	3005 11	2951 5	3265 4	2820 4	5706 2	4115 6
NE94567	20	2219 22	3813 14	2719 19	2532 26	2821 21	2564 13	5395 5	3554 28
NE94481	17	2406 17	3874 12	3250 4	2802 13	3083 9	2540 15	4375 19	3790 18
AMP3JP4A7A	33	2680 10	4573 1	2396 24	2381 30	3008 12	3676 1	4309 22	3352 32
SD93500	11	2309 20	3982 5	3406 3	2679 17	3094 8	2645 10	4121 25	4263 3
NE94479	16	2738 8	3666 20	2849 16	3028 3	3070 11	2148 29	4121 25	4052 9
NE93554	13	3024 6	4018 3	2890 14	2655 20	3147 5	2464 18	4489 17	4026 11
SD92107	4	2567 15	3238 29	3243 5	2677 18	2931 17	2329 24	4649 11	3977 15
NE94482	18	2212 23	3777 16	3198 6	3109 2	3074 10	2372 21	4776 7	4093 7
ND9257	30	2460 16	3802 15	3179 8	2182 32	2906 18	2764 7	4689 9	3609 27
NE93613	14	2157 25	3324 25	2961 12	2970 4	2853 20	2365 22	4903 6	3764 19
SD93380	10	2982 7	3653 22	2870 15	2445 28	2987 15	2179 27	4768 8	4126 5
NE94655	22	2327 19	3378 24	2932 13	2943 6	2895 19	2125 30	4237 24	3692 22
NE94653	21	2616 12	3813 13	3027 9	2932 7	3097 7	1973 33	4566 12	3808 17
SD92227	6	2634 11	3964 6	2606 20	2802 12	3002 14	2549 14	3806 31	4001 13
AMQ3NQ4A7D	34	1618 33	3927 9	2282 25	1935 34	2441 31	3033 2	5674 3	4344 1
NE92652	12	3214 2	3914 10	2573 22	2782 14	3121 6	2246 25	4506 16	4008 12
MT91192	28	1966 29	3892 11	2590 21	2657 19	2776 22	2668 9	4551 13	.
ND9272	31	2065 26	2859 33	2264 26	2638 21	2457 29	2598 12	3929 30	4033 10
SD92191	5	2044 27	3134 31	2159 28	2436 29	2443 30	2533 16	4543 14	3664 23
SD93364	9	2181 24	3751 18	2165 27	2589 22	2672 24	2421 20	4309 22	4256 4
ABILENE	3	3057 5	3025 32	2840 17	2822 10	2936 16	1681 34	4662 10	3619 26
NE93669	15	2599 14	3759 17	2742 18	2930 8	3007 13	2069 31	3709 32	3700 20
SD93267	7	1890 31	3206 30	1800 31	2809 11	2426 32	2199 26	4013 28	4331 2
MT9222	29	1631 32	3261 27	2447 23	2698 16	2509 27	2775 6	4011 29	.
SD93336	8	2250 21	3257 28	3018 10	2478 27	2751 23	2334 23	3704 33	3981 14
AMQ3KF4B7A	35	2035 28	3653 21	1232 33	2069 33	2247 33	2515 17	4444 18	3640 25
ROUGH RIDER	2	2373 18	3668 19	1801 30	2764 15	2652 25	2067 32	3598 35	3382 31
NE94489	19	2614 13	3636 23	1467 32	2585 23	2576 26	1634 35	4069 27	3842 16
IDO467	32	1542 34	2536 34	1051 34	1847 35	1744 34	2638 11	6053 1	3512 30
KHARKOF	1	1945 30	3319 26	2040 29	2542 25	2461 28	2152 28	4366 20	3092 33
MTS92042	27	849 35	2413 35	753 35	2244 31	1565 35	2786 5	3600 34	3536 29
MEAN		2385	3601	2589	2645	2805	2458	4485	3836
LSD (.05)		681	744	764	638	531	646	985	575
C.V.		17.5	12.7	18.1	14.8	15.5	16.1	15.6	10.7

* Not included in state or regional means.

Table 19. Concluded.

C.I. OR SEL. NO.	: ENTRY: NO.	: MOCCASIN MONTANA	: BOZEMAN MONTANA	: LOMA MONTANA	: MONTANA STATE MEAN	: WILLISTON N. DAKOTA	: HETTINGER N. DAKOTA	: NORTH DAKOTA STATE MEAN	: REGIONAL AVERAGE
XH1881	26	5485 4	6844 1	3928 1	5419 1	1639 8	4284 11	2962 9	3960 1
XH1920	24	5389 6	5145 25	2709 33	4414 19	1782 4	4952 1	3367 2	3765 2
XNH1824	25	5936 1	6351 2	3100 20	5129 2	1540 20	4365 10	2952 10	3739 3
N95L164	23	5012 15	6299 3	3270 13	4860 4	1636 9	3785 29	2711 22	3729 4
NE94567	20	5456 5	5221 20	3490 6	4722 8	1437 27	4419 8	2928 11	3584 5
NE94481	17	4808 23	5423 13	3587 5	4606 10	1551 18	4425 7	2988 7	3535 6
AMP3JP4A7A	33	5290 8	4589 32	2879 28	4253 25	1749 5	4510 6	3129 3	3529 7
SD93500	11	5147 11	5902 5	3222 15	4757 5	1600 14	4045 17	2823 15	3528 8
NE94479	16	5127 13	5254 18	3832 2	4738 7	1609 12	3966 18	2788 18	3527 9
NE93554	13	4873 21	5378 15	3246 14	4499 14	1349 33	3924 20	2637 29	3522 10
SD92107	4	4499 27	5757 10	3318 11	4525 13	1615 11	3845 26	2730 20	3505 11
NE94482	18	5008 16	5328 17	3734 3	4690 9	1617 10	3796 28	2706 23	3505 12
ND9257	30	5147 11	5649 11	2904 26	4567 11	1859 2	4076 16	2968 8	3457 13
NE93613	14	4329 28	5976 4	3124 19	4476 16	1457 26	3953 19	2705 24	3450 14
SD93380	10	5523 3	5160 24	2905 25	4529 12	1792 3	3515 35	2654 27	3419 15
NE94655	22	5319 7	5763 9	3148 17	4744 6	1602 13	3677 32	2640 28	3404 16
NE94653	21	4927 18	5228 19	3294 12	4483 15	1516 23	4606 4	3061 5	3403 17
SD92227	6	5203 9	5335 16	2807 31	4448 18	1666 7	4178 14	2922 12	3400 18
AMQ3NQ4A7D	34	4896 20	4755 29	3051 22	4234 27	1945 1	4873 2	3409 1	3383 19
NE92652	12	5030 14	5194 22	2855 29	4360 22	1423 28	3698 31	2561 35	3355 20
MT91192	28	5001 17	5862 6	2562 34	4475 17	1327 35	4412 9	2870 13	3352 21
ND9272	31	5580 2	5862 6	3393 9	4945 3	1356 32	3777 30	2566 34	3314 22
SD92191	5	4784 24	5512 12	2855 30	4384 20	1561 17	3837 27	2699 25	3305 23
SD93364	9	4174 32	5080 26	3465 7	4240 26	1721 6	3854 25	2787 19	3249 24
ABILENE	3	4716 25	4562 33	2904 27	4061 33	1542 19	3880 23	2711 21	3217 25
NE93669	15	4212 31	4678 30	3636 4	4176 30	1348 34	3914 21	2631 31	3217 26
SD93267	7	4248 30	5172 23	3344 10	4254 24	1586 15	4533 5	3059 6	3200 27
MT9222	29	4833 22	4674 31	3050 23	4186 29	1377 30	4211 13	2794 17	3182 28
SD93336	8	4530 26	5015 27	3075 21	4207 28	1530 21	3864 24	2697 26	3181 29
AMQ3KF4B7A	35	4923 19	4436 35	2734 32	4031 34	1492 25	4649 3	3070 4	3164 30
ROUGH RIDER	2	4293 29	5201 21	2978 24	4157 32	1404 29	4225 12	2815 16	3068 31
NE94489	19	5172 10	4519 34	3393 8	4361 21	1566 16	3630 34	2598 32	3047 32
IDO467	32	3786 35	5817 8	3173 16	4259 23	1374 31	3895 22	2634 30	3034 33
KHARKOF	1	3961 33	4965 28	2416 35	3781 35	1516 22	3669 33	2593 33	2981 34
MTS92042	27	3959 34	5393 14	3124 18	4159 31	1509 24	4142 15	2825 14	2780 35
MEAN		4874	5351	3157	4461	1560	4097	2828	3371
LSD(.05)		1029	944	543	699	194	805	N.S.	322
C.V.		12.9	10.8	12.2	12.1	8.9	12.0	12.5	14.0

Table 20. Summary of mean yields (kg/ha) and ranks of 35 wheats grown in the 1997 Northern Regional Performance Nursery at 9 locations from which a CV of 15.0 or less and a significant F test for entries were obtained.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY: NO.	NORTH PLATTE NEBRASKA	HEMING- FORD NEBRASKA	BROOKINGS S. DAKOTA	WINNER S. DAKOTA
Quantum Hybrid Wheat	XH1881	26	3949 8	3155 1	5952 1	1955 9
Quantum Hybrid Wheat	XNH1824	25	4020 2	2922 9	5161 9	1751 21
Quantum Hybrid Wheat	XH1920	24	4015 4	2575 24	5588 3	2089 4
Arapahoe/Abilene//NE86488	NE94479	16	3666 20	3028 3	5797 2	1715 23
KS831936-3//Colt/Cody	N95L164	23	3963 7	2951 5	4677 23	2217 3
KS86H187/Cody	NE94567	20	3813 14	2532 26	5474 5	1856 15
Judith/Redwin	SD93500	11	3982 5	2679 17	4997 14	1807 18
Arapahoe/Abilene//NE86488	NE94481	17	3874 12	2802 13	5104 11	1805 19
Arapahoe/Abilene//NE86488	NE94482	18	3777 16	3109 2	4906 17	1731 22
NE82419/Arapahoe	NE93554	13	4018 3	2655 20	5420 6	2051 5
Rust resistant bulk (1B/1R)	AMP3JP4A7A	33	4573 1	2381 30	5135 10	1708 24
Brule//BNT/CSM/3/Arap	SD92107	4	3238 29	2677 18	5521 4	2311 2
Arapahoe/Abilene//Arapahoe	NE94655	22	3378 24	2943 6	4977 16	1827 16
SD76463-16//SD82195/SD82144	SD92227	6	3964 6	2802 12	4704 20	1941 10
NE82419/Arapahoe	NE93613	14	3324 25	2970 4	5393 7	1941 10
Rri/ND7656//Arapahoe	ND9272	31	2859 33	2638 21	4892 18	1872 13
Arapahoe/Abilene//Arapahoe	NE94653	21	3813 13	2932 7	4227 31	1520 29
Rri/ND7571//Arapahoe	ND9257	30	3802 15	2182 32	4560 25	1672 25
WWP4394/Nuwest//MT7431/MT7978	MT91192	28	3892 11	2657 19	4711 19	1376 32
SD8026/Roughrider//SD76598-7/Agassiz	SD93267	7	3206 30	2809 11	4987 15	1814 17
OK81306//SD82102/NWN	SD92191	5	3134 31	2436 29	5205 8	2367 1
TX80A5901-1/NE78488	SD93380	10	3653 22	2445 28	4681 21	1968 8
Rust resistant bulk (1B/1R)	AMQ3NQ4A7D	34	3927 9	1935 34	4539 27	1457 30
Brule/TAM-105//NE82651	SD93364	9	3751 18	2589 22	4506 28	2015 6
NE82413/3/Newton sib/Agate//Sage sib	NE92652	12	3914 10	2782 14	5057 13	1116 34
Rust resistant bulk (1B/1R)	AMQ3KF4B7A	35	3653 21	2069 33	5084 12	1863 14
NE82419/Arapahoe	NE93669	15	3759 17	2930 8	4338 30	1885 12
Nuwest/MT7869//Morwin/MT7840	MT9222	29	3261 27	2698 16	4412 29	1988 7
MT8030/TX81V6180	SD93336	8	3257 28	2478 27	4681 21	1618 26
Roughrider (CI17439)	ROUGH RIDER	2	3668 19	2764 15	3941 34	1571 27
Arapahoe/OK81322//NE82438	NE94489	19	3636 23	2585 23	3904 35	1421 31
Abilene (PI511307)	ABILENE	3	3025 32	2822 10	4556 26	1571 27
Kharkof (CI1442)	KHARKOF	1	3319 26	2542 25	4075 33	1780 20
Rampart (Lew/Tiber//Redwin)	MT892042	27	2413 35	2244 31	4183 32	1190 33
A76327W-2-3T/A7457W-13-1-1T-2P	IDO467	32	2536 34	1847 35	4674 24	1058 35
MEAN			3601	2645	4858	1767
LSD (.05)			744	638	935	348
C.V.			12.7	14.8	9.5	12.0

Table 20. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	MOCCASIN MONTANA	BOZEMAN MONTANA	LOMA MONTANA	WILLISTON N. DAKOTA	HETTINGER N. DAKOTA	REGIONAL AVERAGE
XH1881	26	5485 4	6844 1	3928 1	1639 8	4284 11	4132 1
XNH1824	25	5936 1	6351 2	3100 20	1540 20	4365 10	3905 2
XH1920	24	5389 6	5145 25	2709 33	1782 4	4952 1	3805 3
NE94479	16	5127 13	5254 18	3832 2	1609 12	3966 18	3777 4
N95L164	23	5012 15	6299 3	3270 13	1636 9	3785 29	3757 5
NE94567	20	5456 5	5221 20	3490 6	1437 27	4419 8	3744 6
SD93500	11	5147 11	5902 5	3222 15	1600 14	4045 17	3709 7
NE94481	17	4808 23	5423 13	3587 5	1551 18	4425 7	3709 8
NE94482	18	5008 16	5328 17	3734 3	1617 10	3796 28	3667 9
NE93554	13	4873 21	5378 15	3246 14	1349 33	3924 20	3657 10
AMP3JP4A7A	33	5290 8	4589 32	2879 28	1749 5	4510 6	3646 11
SD92107	4	4499 27	5757 10	3318 11	1615 11	3845 26	3642 12
NE94655	22	5319 7	5763 9	3148 17	1602 13	3677 32	3626 13
SD92227	6	5203 9	5335 16	2807 31	1666 7	4178 14	3622 14
NE93613	14	4329 28	5976 4	3124 19	1457 26	3953 19	3608 15
ND9272	31	5580 2	5862 6	3393 9	1356 32	3777 30	3581 16
NE94653	21	4927 18	5228 19	3294 12	1516 23	4606 4	3563 17
ND9257	30	5147 11	5649 11	2904 26	1859 2	4076 16	3539 18
MT91192	28	5001 17	5862 6	2562 34	1327 35	4412 9	3533 19
SD93267	7	4248 30	5172 23	3344 10	1586 15	4533 5	3522 20
SD92191	5	4784 24	5512 12	2855 30	1561 17	3837 27	3521 21
SD93380	10	5523 3	5160 24	2905 25	1792 3	3515 35	3516 22
AMQ3NQ4A7D	34	4896 20	4755 29	3051 22	1945 1	4873 2	3486 23
SD93364	9	4174 32	5080 26	3465 7	1721 6	3854 25	3462 24
NE92652	12	5030 14	5194 22	2855 29	1423 28	3698 31	3452 25
AMQ3KF4B7A	35	4923 19	4436 35	2734 32	1492 25	4649 3	3434 26
NE93669	15	4212 31	4678 30	3636 4	1348 34	3914 21	3411 27
MT9222	29	4833 22	4674 31	3050 23	1377 30	4211 13	3389 28
SD93336	8	4530 26	5015 27	3075 21	1530 21	3864 24	3339 29
ROUGH RIDER	2	4293 29	5201 21	2978 24	1404 29	4225 12	3338 30
NE94489	19	5172 10	4519 34	3393 8	1566 16	3630 34	3314 31
ABILENE	3	4716 25	4562 33	2904 27	1542 19	3880 23	3287 32
KHARKOF	1	3961 33	4965 28	2416 35	1516 22	3669 33	3138 33
MT892042	27	3959 34	5393 14	3124 18	1509 24	4142 15	3129 35
IDO467	32	3786 35	5817 8	3173 16	1374 31	3895 22	3129 34
MEAN		4874	5351	3157	1560	4097	3545
LSD(.05)		1029	944	543	194	805	338
C.V.		12.9	10.8	12.2	8.9	12.0	12.5

Table 21. Summary of mean yields (kg/ha) and ranks of 35 wheats grown in the 1997 Northern Regional Performance Nursery for 5 intra-regional production zones (after Peterson, 1992).

C.I. OR SEL. NO.	: : NO. :	: NORTH- CENTRAL PLAINS :	: NORTHERN HIGH PLAINS :	: NORTHERN NORTHERN PLAINS :	: NORTH- WEST PLAINS :	: NORTH- WEST PLAINS :	: REGIONAL AVERAGE :
Number of locations		5	3	1	1	4	13
XH1881	26	3760 1	3323 1	4284 11	1639 8	5147 1	3960 1
XH1920	24	3648 2	3042 2	4952 1	1782 4	4677 8	3765 2
XNH1824	25	3484 3	2853 7	4365 10	1540 20	4979 3	3739 3
N95L164	23	3400 5	2925 3	3785 29	1636 9	5072 2	3729 4
NE94567	20	3216 12	2605 20	4419 8	1437 27	4891 4	3584 5
NE94481	17	3288 10	2864 6	4425 7	1551 18	4548 17	3535 6
AMP3JP4A7A	33	3298 9	2818 8	4510 6	1749 5	4267 25	3529 7
SD93500	11	3300 8	2910 4	4045 17	1600 14	4598 10	3528 8
NE94479	16	3353 7	2675 12	3966 18	1609 12	4583 14	3527 9
NE93554	13	3481 4	2669 13	3924 20	1349 33	4496 19	3522 10
SD92107	4	3376 6	2750 10	3845 26	1615 11	4556 16	3505 11
NE94482	18	3165 15	2893 5	3796 28	1617 10	4712 5	3505 12
ND9257	30	3134 17	2708 11	4076 16	1859 2	4597 11	3457 13
NE93613	14	3155 16	2765 9	3953 19	1457 26	4583 15	3450 14
SD93380	10	3231 11	2498 24	3515 35	1792 3	4589 13	3419 15
NE94655	22	3088 18	2667 14	3677 32	1602 13	4617 9	3404 16
NE94653	21	3041 20	2644 16	4606 4	1516 23	4504 18	3403 17
SD92227	6	3170 14	2652 15	4178 14	1666 7	4288 24	3400 18
AMQ3NQ4A7D	34	2765 28	2417 26	4873 2	1945 1	4594 12	3383 19
NE92652	12	3175 13	2534 22	3698 31	1423 28	4396 22	3355 20
MT91192	28	2907 25	2638 18	4412 9	1327 35	4494 20	3352 21
ND9272	31	2791 26	2500 23	3777 30	1356 32	4691 7	3314 22
SD92191	5	2982 22	2376 28	3837 27	1561 17	4423 21	3305 23
SD93364	9	2924 24	2392 27	3854 25	1721 6	4257 26	3249 24
ABILENE	3	3010 21	2448 25	3880 23	1542 19	4211 27	3217 25
NE93669	15	3064 19	2580 21	3914 21	1348 34	4059 32	3217 26
SD93267	7	2739 30	2269 29	4533 5	1586 15	4194 28	3200 27
MT9222	29	2748 29	2640 17	4211 13	1377 30	4142 29	3182 28
SD93336	8	2965 23	2610 19	3864 24	1530 21	4081 31	3181 29
AMQ3KF4B7A	35	2773 27	1939 32	4649 3	1492 25	4134 30	3164 30
ROUGH RIDER	2	2671 31	2211 31	4225 12	1404 29	4017 34	3068 31
NE94489	19	2609 33	1895 34	3630 34	1566 16	4288 23	3047 32
IDO467	32	2172 34	1846 35	3895 22	1374 31	4707 6	3034 33
KHARKOF	1	2632 32	2245 30	3669 33	1516 22	3927 35	2981 34
MT92042	27	1878 35	1928 33	4142 15	1509 24	4019 33	2780 35
MEAN		3040	2564	4097	1560	4467	3371
LSD (.05)		497	N.S.	805	194	674	322
C.V.		14.0	16.4	12.0	8.9	13.3	14.0

Table 22. Summary of mean yields (kg/ha) and ranks for 16 wheats grown in the Northern Regional Performance Nursery at 10 locations in 1996 and 1997 with state means and ranks.

C.I. OR SEL. NO.	: ENTRY: NO.	: SIDNEY * NEBRASKA	: HEMING- FORD NEBRASKA	: PIERRE * S. DAKOTA	: WINNER S. DAKOTA	: WILLISTON N. DAKOTA	: HETTINGER N. DAKOTA	:
AMQ3NQ4A7D	34	3264 6	3036 11	2643 10	2780 7	2164 2	4548 2	
SD92227	6	3203 8	3623 1	3182 3	2928 5	1911 4	4499 3	
SD92191	5	3238 7	3399 3	3221 2	3339 2	1750 8	3987 11	
ND9272	31	3084 10	3204 8	2894 7	2812 6	1767 7	3993 10	
SD92107	4	3696 2	3352 7	2633 11	3060 3	1434 10	4147 7	
ND9257	30	3395 4	2919 13	3297 1	2373 14	2291 1	4400 5	
NE93554	13	3758 1	3394 4	2957 6	3349 1	1298 12	4079 9	
AMP3JP4A7A	33	3135 9	3152 10	2990 4	2473 11	1866 6	4593 1	
NE93613	14	3391 5	3391 5	2826 8	2993 4	1239 13	4087 8	
AMQ3KF4B7A	35	2691 12	2670 16	2978 5	2614 10	1872 5	4441 4	
ROUGH RIDER	2	2502 14	3170 9	2508 12	2633 9	1956 3	4247 6	
NE92652	12	3573 3	3380 6	2293 14	2430 13	1043 15	3332 13	
ABILENE	3	2737 11	3569 2	2312 13	2637 8	1434 9	3226 15	
IDO467	32	2404 15	2773 15	2083 15	2029 16	1116 14	2821 16	
KHARKOF	1	2544 13	2871 14	2683 9	2450 12	1317 11	3294 14	
MTS92042	27	2330 16	2929 12	1689 16	2263 15	985 16	3351 12	
MEAN		3059	3177	2699	2698	1590	3940	
LSD(.05)		N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	
C.V.		12.3	12.0	27.5	10.8	30.2	13.4	

* Not included in state or regional means.

Table 22. Concluded.

C.I. OR SEL. NO.	: ENTRY: NO.	: MOCCASIN MONTANA	: BOZEMAN MONTANA	: LOMA * MONTANA	: MONTANA STATE MEAN	: LETHBRIDGE ALBERTA	: REGIONAL AVERAGE	:
AMQ3NQ4A7D	34	3650 5	5170 8	3270 1	4410 4	3833 1	3597 1	
SD92227	6	3449 8	5158 9	2997 5	4304 8	2974 9	3506 2	
SD92191	5	3412 9	5216 6	2734 14	4314 6	3223 3	3475 3	
ND9272	31	3906 1	5416 3	3108 2	4661 1	3018 7	3445 4	
SD92107	4	3262 11	5553 2	2897 10	4407 5	3071 5	3411 5	
ND9257	30	3890 2	5296 5	2940 8	4593 2	2709 13	3411 6	
NE93554	13	3484 6	5083 11	2990 6	4284 9	3094 4	3397 7	
AMP3JP4A7A	33	3675 4	4679 12	3070 3	4177 11	2972 10	3344 8	
NE93613	14	3155 14	5299 4	2847 12	4227 10	2950 11	3302 9	
AMQ3KF4B7A	35	3479 7	4574 13	2808 13	4027 12	3425 2	3297 10	
ROUGH RIDER	2	3202 13	4552 14	2944 7	3877 15	2618 15	3197 11	
NE92652	12	3706 3	5189 7	2731 15	4448 3	2998 8	3154 12	
ABILENE	3	3336 10	4551 15	2899 9	3943 13	2495 16	3035 13	
IDO467	32	2972 15	5639 1	3026 4	4306 7	3026 6	2911 14	
KHARKOF	1	3222 12	4462 16	2658 16	3842 16	2661 14	2897 15	
MTS92042	27	2703 16	5112 10	2855 11	3907 14	2723 12	2866 16	
MEAN		3406	5059	2923	4233	2987	3264	
LSD(.05)		N.S.	N.S.	N.S.	N.S.	N.S.	361	
C.V.		15.9	9.3	14.9	12.0	10.8	13.7	

* Not included in state or regional means.

Table 23. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from linear regression of entry mean yield on location mean yield for the 35 entries in the 1997 Northern Regional Performance Nursery grown at 13 locations.

C.I. OR SEL. NO.	: ENTRY: NO.	: REGIONAL AVERAGE KG/HA	: REGRESSION COEFFICIENT (b)	: COEFFICIENT OF DETERMINATION: (r ²)	: DEVIATIONS FROM REGRESSION (mean square)
XH1881	26	3960	1.12	0.91	220732
XH1920	24	3765	1.05	0.88	251135
XNH1824	25	3739	1.15	0.94	140970
N95L164	23	3729	1.03	0.90	197759
NE94567	20	3584	1.15	0.97	80860
NE94481	17	3535	0.99	0.97	51743
AMP3JP4A7A	33	3529	0.93	0.83	304406
SD93500	11	3528	1.02	0.95	96966
NE94479	16	3527	1.02	0.92	152852
NE93554	13	3522	0.99	0.96	77989
SD92107	4	3505	0.98	0.92	138694
NE94482	18	3505	0.98	0.95	86291
ND9257	30	3457	1.00	0.95	96579
NE93613	14	3450	1.06	0.94	130508
SD93380	10	3419	0.95	0.92	141340
NE94655	22	3404	1.04	0.96	86694
NE94653	21	3403	0.97	0.93	122355
SD92227	6	3400	0.94	0.95	81915
AMQ3NQ4A7D	34	3383	1.06	0.83	389387
NE92652	12	3355	1.04	0.93	145706
MT91192	28	3352	1.14	0.97	78926
ND9272	31	3314	1.09	0.92	169431
SD92191	5	3305	1.02	0.94	107690
SD93364	9	3249	0.86	0.96	59771
ABILENE	3	3217	0.88	0.89	166659
NE93669	15	3217	0.78	0.91	108891
SD93267	7	3200	0.98	0.92	147318
MT9222	29	3182	0.89	0.93	100954
SD93336	8	3181	0.88	0.96	53792
AMQ3KF4B7A	35	3164	1.04	0.87	281778
ROUGH RIDER	2	3068	0.90	0.91	137297
NE94489	19	3047	0.92	0.85	251794
IDO467	32	3034	1.23	0.81	627636
KHARKOF	1	2981	0.86	0.95	67457
MTS92042	27	2780	1.02	0.79	479844

Table 24. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from linear regression of entry mean yield on location mean yield for the 16 entries in the 1996 and 1997 Northern Regional Performance Nursery grown at 7 locations.

C.I. OR SEL. NO.	: ENTRY: NO.	: REGIONAL AVERAGE KG/HA	: REGRESSION COEFFICIENT (b)	: COEFFICIENT OF DETERMINATION: (r ²)	: DEVIATIONS FROM REGRESSION (mean square)
AMQ3NQ4A7D	34	3597	0.97	0.87	256505
SD92227	6	3506	1.07	0.94	130690
SD92191	5	3475	0.97	0.95	88477
ND9272	31	3445	1.09	0.95	109938
SD92107	4	3411	1.07	0.95	103120
ND9257	30	3411	0.97	0.87	260040
NE93554	13	3397	1.07	0.95	112604
AMP3JP4A7A	33	3344	0.94	0.90	184149
NE93613	14	3302	1.07	0.94	132803
AMQ3KF4B7A	35	3297	0.85	0.85	231067
ROUGH RIDER	2	3197	0.86	0.88	173124
NE92652	12	3154	1.13	0.93	183018
ABILENE	3	3035	0.96	0.88	219703
IDO467	32	2911	1.08	0.81	498045
KHARKOF	1	2897	0.79	0.92	92431
MTS92042	27	2866	1.11	0.92	179263

Table 25. Summary of agronomic and yield data for 35 wheats grown in the 1997 Northern Regional Performance Nursery.

C.I. OR SEL. NO.	: : NO. :	PLANT HEIGHT : CM :	DAYS TO HEADING : FROM 1/1 :	LODGING : 0-9 :	WINTER : SURVIVAL : % :	STRIPE : RUST : : SEV. 0-5 :	SAWFLY : 0-9 :	GRN LEAF : DURATION : : 0-5 :	GRAIN : PROTEIN : % :	VOLUME : WEIGHT : KG/HL :	YIELD : KG/HA :
Number of Locations	10	10	3	3	1	1	1	3	12	13	
XH1881	26	72	158	1.9	48	3	3.8	3.3	10.8	77.1	3960
XH1920	24	76	159	2.5	62	4	7	3.7	11.6	78	3765
XNH1824	25	69	160	1.8	48	2.7	5.5	5	11.3	77.6	3739
N95L164	23	71	162	1.6	47	2	5.8	2.7	11.2	77.8	3729
NE94567	20	68	159	1.7	39	3.3	3.5	3.3	10.6	74.7	3584
NE94481	17	73	160	1.8	44	3	4	4	11.3	77.7	3535
AMP3JP4A7A	33	81	165	2.7	63	1.3	4.5	4	10.7	77.9	3529
SD93500	11	79	162	2.7	62	3.3	4.3	5	11.2	76	3528
NE94479	16	74	160	2.2	45	3.3	4.8	5	11.8	77.9	3527
NE93554	13	72	159	2.3	44	3	5.3	5	11.6	77.8	3522
SD92107	4	79	161	2.2	55	3	3.3	2.7	12.2	77.1	3505
NE94482	18	73	161	1.8	49	3	5	5	11.4	77.8	3505
ND9257	30	80	163	1.8	65	3	4.5	4.7	11.2	77	3457
NE93613	14	76	162	2.1	38	3	6	4.3	11.4	77	3450
SD93380	10	75	160	2.7	58	5	4.3	4.3	11.5	76.4	3419
NE94655	22	71	161	1.8	43	3	4.8	4.7	11.2	77	3404
NE94653	21	74	160	2.1	47	3.7	6	5	11.4	76.5	3403
SD92227	6	81	161	2	50	2.3	4.3	2	12.2	79.7	3400
AMQ3NQ4A7D	34	81	166	1.3	56	1.7	1.8	3.3	10.9	76.4	3383
NE92652	12	73	160	1.8	32	3	4.3	5	11.7	80.6	3355
MT91192	28	74	164	1	45	2.3	5.5	5	11	75.7	3352
ND9272	31	75	162	1.9	58	3.3	4	4	11.3	76.7	3314
SD92191	5	80	162	2.3	56	3	5.5	2	11.9	79.5	3305
SD93364	9	75	160	2.1	65	2.7	3	2.7	12.2	78	3249
ABILENE	3	61	159	1.3	44	4	4	5	12	79	3217
NE93669	15	71	160	1.5	40	3.7	4	4.3	11.5	76.5	3217
SD93267	7	84	159	2.4	49	2.7	5	2	12.1	78	3200
MT9222	29	78	160	2.3	53	2.7	4.3	3	11.4	77.2	3182
SD93336	8	80	163	2.3	54	3	5	3.3	11.8	78.9	3181
AMQ3KF4B7A	35	81	166	2.1	64	1.7	4	3.7	11.2	76.6	3164
ROUGH RIDER	2	86	163	3.1	69	3.3	2.5	3	12	78	3068
NE94489	19	72	160	1.6	50	4	5.8	4	11.6	76.2	3047
IDO467	32	68	165	1.3	35	2.3	5	5	11.4	74.4	3034
KHARKOF	1	94	162	4.9	50	3	3.3	2.7	13.7	78.4	2981
MTS92042	27	77	162	2.2	38	3.7	2	4.7	11.8	77.4	2780

Table 26. Seedling infection type of entries in the 1997 Northern Regional Performance Nursery to selected isolates of stem rust. D.V. McVey, USDA-ARS Cereal Rust Laboratory, University of Minnesota, St. Paul, MN 55108.

No	Line	QFCS	QTHJ	RKRQ	RTQQ	RTQS	TPMK	Post.
1	CI1442	S	S	S	S	S	S	none
2	CI7439	0	0	;	S	2	S	36
3	PI511307	;	2-	-	2=	2=	0	6,24
4	SD92107	;	2=	2	2=	2	0	6,24
5	SD92191	2-	2=	0	2	2	S	+
6	SD92227	2-	2	S	;	2	S	7b,10,+
7	SD93267	;	2	2	;	2	0	6,24
8	SD93336	;	S	S	;	2?	;	6
9	SD93364	;	S	0	S	S	;	6,+
10	SD93380	;	2-CN	0	;	2-	0	6,+
11	SD93500	;	S	S	S	S	0	6
12	NE92652	0	2	2	;	2	0,S	6,24,+
13	NE93554	;	12-C	0	;	0	0	6
14	NE93613	0	2=	0	;	2=	0	6,10,24
15	NE93669	0	12-C	2=	;	2-	;	6,+
16	NE94479	0	2=	2=	2=	2-	S,0	6,24
17	NE94481	2-	2=	2-	2-	2-	2=,S	24
18	NE94482	2=	1C	2-	2=	2-	S?	24
19	NE94489	0	1C	1	;	2=	0	6,24,+
20	NE94567	0	1	1	;,1-	2=	0	6,24,+
21	NE94653	;	1	0	2=	2-	0	6,24
22	NE94655	;	2=	2=	;	2-	0	6,24
23	N95L164	;	-	1	;	;,1-	2	10,+
24	XH1920	;	2=	2-	-	2-	;	6,24
25	XNH1824	;,2=	2=	2=	2=	2=	2=	24
26	XH1881	2=	2=	2=	2=	2=	2-	24
27	MTS92042	2	S	S	S	S	2+	+
28	MT91192	;	2=	2=	2-	2=	0	6,24
29	MT9222	2	2	S	S	S	S	7b
30	ND9257	;	S	S	S	S	0	6
31	ND9272	0	2	S	S	S	0	6
32	IDO467	S	S	S	S	S	S	none
33	AMP3JP4A7A	1	2=	2=	2=	2=	2=	26
34	AMQ3NQ4A7D	;,1	2=	1	2=	;,23	2-	26
35	AMQ3KF4B7A	1	2=	1	2=	2=	2=	26

Set I	Sr5	Sr21	Sr9e	Sr7b
Set II	Sr11	Sr6	Sr8	Sr9g
Set III	Sr36	Sr9b	Sr30	Sr13-17
Set IV	Sr9a	Sr9d	Sr10	Tmp

Table 27. Seedling reactions of the 1997 Northern Hard Red Winter Wheat Performance Nursery to selected isolates of leaf rust. D.V. McVey, USDA-ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN 55108.

No	Line	SCDG	MDLQ	KFBM	MBLM	MFBM	SBBM
1	CI1442	,	,	S	,	2	,
2	CI7439	S	,	S	,	2	,
3	PI511307	,	S	,	,	2	,
4	SD92107	,	,1-C	,	,	,1	,
5	SD92191	S	,,S	S	,	2	S
6	SD92227	S	S	S	,	2	S
7	SD93267	,	,23	,	,	2	S
8	SD93336	,	12CN	,	,	,12	S
9	SD93364	S	S	S	S	2	-
10	SD93380	,	,1C	,1CN	1CN	,1	,
11	SD93500	,	2	,	,2	2	,
12	NE92652	,	,1-C	,	,	2	,,2
13	NE93554	,C	,1C	,1CN	,1CN	,1	S
14	NE93613	,	,1C	,1CN	,1CN	,1	,
15	NE93669	,	,	,	,	2	,1C
16	NE94479	,,1-C	,	,	,,S	2	,1C
17	NE94481	,,1-C	,1	,	2C	,1	,1-C
18	NE94482	,	1	,	1C,S	,1	,,2C
19	NE94489	,1CN	,	,	12CN	2	S
20	NE94567	,	,	-	,1C	2	23
21	NE94653	,	1	,	,12C	,1	,
22	NE94655	,	1	,	S	2	,
23	N95L164	,	,	,	S	2	,
24	XH1920	,	,1C	,	23C	2	,
25	XNH1824	,	,	S	,	2	,
26	XH1881	,	,	S	,	,1	,
27	MTS92042	,	,1-	S	,	,	S
28	MT91192	,	,1-	S	,	,	,1C,,
29	MT9222	,1-C	S	S	S	S	,,S
30	ND9257	-	2C	,1C	,1C	,1C	,
31	ND9272	,	23	S,2C	,	,1C	S
32	IDO467	,	S	S	,	,	S
33	AMP3JP4A7A	,	,,,C	,,23	,	,	,1-C
34	AMQ3NQ4A7D	,	,	S	,	S	,

	Lr	Lr	Lr	Lr
Set I	1	2a	2c	3
Set II	9	16	24	26
Set III	3ka	11	17	30
Set IV	10	18	21	23

Table 28. Entries in the 1997 Northern Regional Performance Nursery that possess a 1RS wheat-rye translocation. Analytical methods were reported in the 1993 Regional Report. Data provided by Bob Graybosch, USDA-ARS, Lincoln, NE

C.I. OR SEL. NO.	: ENTRY: NO.	: TRANSLOCATION: :
KHARKOF	1	NON.1RS
ROUGH RIDER	2	NON.1RS
ABILENE	3	NON.1RS
SD92107	4	NON.1RS
SD92191	5	NON.1RS
SD92227	6	NON.1RS
SD93267	7	NON.1RS
SD93336	8	NON.1RS
SD93364	9	NON.1RS
SD93380	10	NON.1RS
SD93500	11	NON.1RS
NE92652	12	NON.1RS
NE93554	13	NON.1RS
NE93613	14	NON.1RS
NE93669	15	NON.1RS
NE94479	16	NON.1RS
NE94481	17	NON.1RS
NE94482	18	NON.1RS
NE94489	19	NON.1RS
NE94567	20	NON.1RS
NE94653	21	NON.1RS
NE94655	22	NON.1RS
N95L164	23	NON.1RS
XH1920	24	NON.1RS
XNH1824	25	1BL.1RS
XH1881	26	1BL.1RS
MT892042	27	NON.1RS
MT91192	28	1BL.1RS
MT9222	29	NON.1RS
ND9257	30	1BL.1RS
ND9272	31	NON.1RS
IDO467	32	NON.1RS
AMP3JP4A7A	33	1BL.1RS
AMQ3NQ4A7D	34	1BL.1RS
AMQ3KF4B7A	35	1BL.1RS

Table 29. Reaction of entries in the 1997 Northern Regional Performance Nursery to Soilborne Wheat Mosaic Virus. Data provided by Bob Hunger and John Sherwood, Entomology and Plant Pathology Dept., Oklahoma State University, Stillwater. See Table 13 for information on methodology.

Entry	C.I. or SEL. NO.	SOILBORNE MOSAIC			GRAIN	1000-KERNEL
		VISUAL	ELISA		YIELD	WEIGHT
		1-4	O.D.	Sdev	GM	GM
01	KHARKOF	4.0	1.28	(0.18)	9.3	23.0
02	ROUGH RIDER	4.0	1.30	(0.06)	19.4	19.4
03	ABILENE	2.0	1.10	(0.68)	76.8	23.9
04	SD92107	4.0	1.30	(0.05)	40.4	20.4
05	SD92191	3.7	1.25	(0.08)	25.4	23.9
06	SD92227	4.0	1.38	(0.02)	19.1	16.4
07	SD93267	3.7	1.31	(0.05)	38.4	21.9
08	SD93336	4.0	1.36	(0.11)	9.8	17.7
09	SD93364	4.0	1.34	(0.03)	22.1	19.9
10	SD93380	4.0	1.28	(0.08)	31.9	18.6
11	SD93500	4.0	1.28	(0.06)	34.7	17.2
12	NE92652	1.7	0.54	(0.73)	114.9	29.7
13	NE93554	4.0	1.44	(0.03)	35.2	23.2
14	NE93613	4.0	1.38	(0.08)	32.1	17.4
15	NE93669	4.0	1.35	(0.13)	29.1	24.3
16	NE94479	4.0	1.27	(0.07)	34.5	19.9
17	NE94481	4.0	1.27	(0.14)	39.5	19.6
18	NE94482	4.0	1.36	(0.10)	30.3	19.7
19	NE94489	4.0	1.33	(0.05)	21.5	19.7
20	NE94567	4.0	1.25	(0.14)	30.6	21.5
21	NE94653	4.0	1.30	(0.08)	44.2	21.8
22	NE94655	4.0	1.33	(0.11)	31.2	19.3
23	N95L164	1.0	0.19	(0.18)	103.1	26.4
24	XH1920	1.0	0.87	(0.67)	99.4	26.7
25	XNH1824	1.0	1.00	(0.56)	53.9	25.6
26	XH1881	1.0	1.39	(0.03)	101.9	31.2
27	MTS92042	4.0	1.45	(0.04)	13.6	18.0
28	MT91192	4.0	1.41	(0.13)	16.3	17.3
29	MT9222	4.0	1.29	(0.07)	16.9	18.3
30	ND9257	4.0	1.28	(0.11)	44.6	21.4
31	ND9272	4.0	1.34	(0.09)	30.9	16.0
32	ID0467	4.0	1.35	(0.04)	2.7	18.7
33	AMP3JP4A7A	1.0	0.49	(0.66)	97.7	23.8
34	AMQ3NQ4A7D	3.7	1.32	(0.05)	19.9	17.0
35	AMQ3KF4B7A	4.0	1.42	(0.06)	6.7	23.0
LSD (P=0.05)		0.4			24.0	4.1

Table 30. Hessian fly reaction, Great Plains biotype, for entries in the 1997 Northern Regional Performance Nursery. Data provided by J. H. Hatchett, USDA-ARS, Manhattan, KS.

C.I. OR	:	:	:
SEL. NO.	:	ENTRY: HESSIAN FLY	:
	:	NO. :	R-S :
KHARKOF	1		S
ROUGH RIDER	2		H
ABILENE	3		S
SD92107	4		H
SD92191	5		S
SD92227	6		H
SD93267	7		H
SD93336	8		H
SD93364	9		H
SD93380	10		R
SD93500	11		R
NE92652	12		H
NE93554	13		H
NE93613	14		R
NE93669	15		S
NE94479	16		R
NE94481	17		R
NE94482	18		S
NE94489	19		S
NE94567	20		H
NE94653	21		H
NE94655	22		S
N95L164	23		S
XH1920	24		H
XNH1824	25		S
XH1881	26		H
MTS92042	27		S
MT91192	28		S
MT9222	29		S
ND9257	30		H
ND9272	31		S
IDO467	32		S
AMP3JP4A7A	33		S
AMQ3NQ4A7D	34		S
AMQ3KF4B7A	35		S

Table 31. Acid soil tolerance of entries in the 1997 Northern Regional Performance Nursery. Ratings were collected on four dates in the field at Enid, OK (pH=4.5; Al saturation=32%). Data provided by Brett Carver, Oklahoma State University, Stillwater.

C.I. OR SEL. NO.	ENTRY: NO.	Acid Soil Tolerance Rating			
		10/30/96	12/11/96	3/17/97	5/16/97
		1-5	1-5	1-5	1-5
KHARKOF	1	4	5	5	4
ROUGH RIDER	2	4	5	5	5
ABILENE	3	4	4	5	4
SD92107	4	3	4	4	4
SD92191	5	4	5	4	4
SD92227	6	4	5	5	5
SD93267	7	3	3	2	1
SD93336	8	5	5	5	4
SD93364	9	4	5	5	5
SD93380	10	4	5	5	5
SD93500	11	3	4	5	5
NE92652	12	4	5	5	5
NE93554	13	4	4	5	5
NE93613	14	5	5	5	5
NE93669	15	4	4	5	5
NE94479	16	4	4	4	4
NE94481	17	2	3	3	2
NE94482	18	4	3	3	3
NE94489	19	4	4	4	4
NE94567	20	5	4	5	5
NE94653	21	5	5	4	3
NE94655	22	4	4	4	4
N95L164	23	2	2	2	1
XH1920	24	4	4	4	4
XNH1824	25	4	4	4	3
XH1881	26	3	3	2	1
MTS92042	27	4	4	5	5
MT91192	28	4	3	3	2
MT9222	29	4	5	5	5
ND9257	30	4	4	5	4
ND9272	31	3	3	3	2
IDO467	32	3	3	3	2
AMP3JP4A7A	33	4	3	3	1
AMQ3NQ4A7D	34	3	3	3	2
AMQ3KF4B7A	35	4	4	3	2

Ratings from 1 (very tolerant) to 5 (very susceptible) with ratings of 2 or less showing desirable levels of tolerance based on plant vigor and tiller production.

1997

Western Plains Regional Performance Nursery

Entry No.	Variety or Pedigree	Sel. No.	Source
1**	Larned	CI17650	Check
2**	Siouxland	PI483469	"
3**	Lamar	PI559719	"
4**	Arapahoe	PI518591	"
5	KS831374/TAM-107	CO910239	Colorado
6	Mesa/Carson	CO910424	"
7*	Lamar-R32	CO940750	"
8*	NE82413/3/Newton sib/Agate//Sage sib	NE92652	Nebraska
9*	NE82419/Arapahoe	NE93554	"
10	TX79A2729/TAM-108	TX88A6558	Texas
11*	TX81V6599/TX80GH2679-T4	TX92V5535	"
12*	TX87V1534/TX84V1317	TX93A2361	"
13*	FL302/TX79D1103//Karl	TX94V3305	"
14*	KS85WGRC01*HBZ308B/TAM-200	TX94V4829	"
15*	PI137739/3*TAM-202	TX94VT9016	"
16*	TX87V1534/TX84V1317	TX95V5315	"
17*	TX84V1317/TX85V1326	TX95V6409	"
18*	TX88V4924/TX84V1317	TX95V6524	"
19*	TXGH13622/Karl	TX95V6629	"
20*	HBK0689	W94-320	Agripro
21*	Abilene/KS90WGRC10	W95-188	"
22*	W84-179/W81-171/3/Sturdy/Hawk//W81-133-3	W95-210	"
23*	KS87809-10/Arapahoe	N958004	NE,ARS
24*	KS831672/3/Rannaya 12/Bez 4/2/Lancota/F9-67	N94L189	"
25*	Karl//OK86216/Crr sib	OK95550	Oklahoma
26*	OK87W663/2157//2180	OK95567	"
27	TXGH10563B/KS90WGRC10	T91	Trio
28*	BCD1828/83	G1594	Goertzen

* New Entries

** New seed provided

Test Site Information - WPRPN

Bushland, TX -- No additional information.

Goodwell, OK -- Planted on 10/1/96 and harvested 7/10/97. There was some freeze damage, especially on early maturing lines, but good recovery due to favorable conditions in May. Residual moisture in the nursery area was somewhat spotty.

Colby, KS -- No additional information.

Goodland, KS -- No additional information.

Akron, CO -- See information for the SRPN.

Scottsbluff, NE -- Planted 9/12/96 on a cooperator farm near Stegall, NE. There was good fall moisture, dry winter and spring conditions, followed by good early summer moisture. Grasshoppers essentially defoliated the nursery in mid-late grainfill. Plots were sprayed with Lorsban to prevent further damage. Harvested on 7/22/97.

Pierre, SD -- See information for the SRPN.

Table 32. Yield and agronomic data for 28 wheats grown in the 1997 Western Plains Regional Performance Nursery.

BUSHLAND (DRYL.)

TEXAS

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO
SEL. NO.	:	ENTRY:	:	WEIGHT	:	HEIGHT	:	HEADING	:
	:	NO.	:	KG/HA	:	KG/HL	:	CM	:
	:		:		:		:		:
TX94V4829	:	14	:	3107	:	77.7	:	58	:
W95-188	:	21	:	3062	:	78.9	:	60	:
TX95V5315	:	16	:	2883	:	76.1	:	62	:
TX95V6524	:	18	:	2807	:	76.8	:	67	:
CO910424	:	6	:	2786	:	78	:	68	:
TX92V5535	:	11	:	2782	:	78.9	:	62	:
NE93554	:	9	:	2768	:	76.2	:	63	:
CO910239	:	5	:	2699	:	77.7	:	65	:
TX94VT9016	:	15	:	2668	:	76.6	:	59	:
OK95567	:	26	:	2668	:	77.5	:	61	:
TX94V3305	:	13	:	2645	:	78.2	:	63	:
G1594	:	28	:	2553	:	78.9	:	59	:
TX93A2361	:	12	:	2551	:	78.2	:	66	:
TX95V6409	:	17	:	2542	:	76.4	:	64	:
TX88A6558	:	10	:	2522	:	78.3	:	59	:
TX95V6629	:	19	:	2443	:	78	:	64	:
T91	:	27	:	2434	:	76.2	:	61	:
NE92652	:	8	:	2403	:	79.3	:	63	:
OK95550	:	25	:	2390	:	80.2	:	59	:
ARAPAHOE	:	4	:	2376	:	75.3	:	62	:
N95S004	:	23	:	2327	:	75.7	:	65	:
N94L189	:	24	:	2280	:	74.8	:	58	:
W94-320	:	20	:	2121	:	75.1	:	62	:
LAMAR	:	3	:	2033	:	78.9	:	65	:
SIOUXLAND	:	2	:	1932	:	77.8	:	62	:
CO940750	:	7	:	1831	:	77.7	:	66	:
LARNED	:	1	:	1809	:	79.5	:	66	:
W95-210	:	22	:	1755	:	78.8	:	56	:

MEAN	2471
LSD (.05)	437
C.V.	10.8

GOODWELL

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	: : NO. :	YIELD : KG/HA :	VOLUME : KG/HL :	PLANT : CM :	DAYS TO : FROM 1/1:
: ENTRY:			WEIGHT	HEIGHT	HEADING
CO910424	6	3093	74.7	54	129
TX94V4829	14	3000	72.5	50	125
TX94VT9016	15	2998	73.5	55	126
TX92V5535	11	2955	77.9	55	128
TX93A2361	12	2840	74	54	126
TX95V6629	19	2828	76.5	53	125
OK95550	25	2816	77.5	53	126
G1594	28	2809	74.2	51	130
TX95V6409	17	2789	73.3	55	126
T91	27	2708	73.8	53	129
W95-188	21	2655	77	51	126
NE92652	8	2617	78.3	56	123
TX95V6524	18	2573	73.3	56	128
OK95567	26	2562	71.3	54	129
W94-320	20	2483	73.5	54	127
NE93554	9	2433	74.2	55	125
TX94V3305	13	2398	73.8	54	129
CO940750	7	2343	73.9	57	127
CO910239	5	2330	76.9	55	126
TONKAWA	30	2329	76.9	53	126
TX88A6558	10	2317	73.4	53	127
TAM-107	29	2280	74.7	51	130
TX95V5315	16	2278	74.4	55	127
N95S004	23	2217	74.8	58	127
W95-210	22	2208	75.6	53	128
N94L189	24	2197	72.5	56	128
LAMAR	3	2163	75.1	57	126
ARAPAHOE	4	2125	74.2	58	126
SIOUXLAND	2	1696	74.6	54	127
LARNED	1	1493	77	54	127

MEAN	2484
LSD (.05)	680
C.V.	16.8

COLBY

KANSAS

THREE REPLICATIONS

	:	:	YIELD	:	VOLUME	:	PLANT	:	DAYS TO	:
C.I. OR	:	ENTRY:	:	WEIGHT	:	HEIGHT	:	HEADING	:	:
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL	:	CM	:	FROM 1/1:
CO910239	:	5	:	3656	:	74.7	:	81	:	143
TX95V5315	:	16	:	3523	:	79.7	:	76	:	143
TX88A6558	:	10	:	3434	:	77.4	:	71	:	142
NE93554	:	9	:	3402	:	75.3	:	76	:	143
W94-320	:	20	:	3295	:	78.7	:	76	:	143
NE92652	:	8	:	3267	:	73.3	:	71	:	145
LAMAR	:	3	:	3255	:	78.8	:	81	:	144
LARNED	:	1	:	3253	:	79.7	:	86	:	141
W95-188	:	21	:	3210	:	81.7	:	76	:	142
N958004	:	23	:	3191	:	75.5	:	86	:	142
CO910424	:	6	:	3155	:	79.9	:	71	:	142
TX95V6409	:	17	:	3112	:	80.6	:	76	:	142
CO940750	:	7	:	3069	:	75.2	:	76	:	144
TX94VT9016	:	15	:	3056	:	79.6	:	71	:	141
TX95V6629	:	19	:	3041	:	77.5	:	81	:	148
SIOUXLAND	:	2	:	3026	:	75.6	:	91	:	143
TX92V5535	:	11	:	2974	:	79.3	:	71	:	142
W95-210	:	22	:	2956	:	78.3	:	71	:	142
ARAPAHOE	:	4	:	2951	:	76.9	:	81	:	144
TX93A2361	:	12	:	2885	:	78.4	:	76	:	140
OK95550	:	25	:	2825	:	77	:	71	:	141
TX94V4829	:	14	:	2737	:	75.2	:	66	:	143
G1594	:	28	:	2729	:	79.2	:	76	:	144
T91	:	27	:	2722	:	77.3	:	71	:	138
OK95567	:	26	:	2696	:	76.8	:	66	:	141
TX95V6524	:	18	:	2633	:	78.3	:	76	:	143
TX94V3305	:	13	:	2339	:	74.8	:	71	:	144
N94L189	:	24	:	2319	:	76.1	:	71	:	144

MEAN	3025
LSD (.05)	399
C.V.	8.1

AKRON

COLORADO

THREE REPLICATIONS

C.I. OR	:	:	YIELD	:	VOLUME	:
SEL. NO.	:	ENTRY:	:	WEIGHT	:	:
SEL. NO.	:	NO.	:	KG/HA	:	KG/HL
CO940750	:	7	:	2473	:	75.2
TX95V5315	:	16	:	2258	:	75.1
TX94V4829	:	14	:	2244	:	73.9
W95-188	:	21	:	2198	:	76.6
TX92V5535	:	11	:	2148	:	76.4
T91	:	27	:	2114	:	73.6
CO910424	:	6	:	2062	:	75.2
NE92652	:	8	:	1987	:	77
SIOUXLAND	:	2	:	1980	:	75.1
TX95V6409	:	17	:	1979	:	75.2
W95-210	:	22	:	1964	:	76.6
TX88A6558	:	10	:	1938	:	74.4
LARNED	:	1	:	1899	:	76.2
TX93A2361	:	12	:	1868	:	73.9
TX94VT9016	:	15	:	1849	:	72.8
N95S004	:	23	:	1823	:	72.8
NE93554	:	9	:	1819	:	73.6
CO910239	:	5	:	1816	:	74.8
OK95567	:	26	:	1780	:	72.8
OK95550	:	25	:	1741	:	75.7
LAMAR	:	3	:	1719	:	73.2
G1594	:	28	:	1628	:	72.6
ARAPAHOE	:	4	:	1561	:	72.7
W94-320	:	20	:	1529	:	68.5
TX95V6524	:	18	:	1404	:	70.3
TX95V6629	:	19	:	1221	:	73.7
N94L189	:	24	:	1046	:	69.5
TX94V3305	:	13	:	983	:	72.7

MEAN	1823
LSD (.05)	691
C.V.	23.2

ARCHER

WYOMING

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 %
TX94V4829	14	3786	74.9	48	158	100
TX92V5535	11	3755	80.1	54	156	100
TX94VT9016	15	3649	77.3	50	154	100
TX95V5315	16	3645	75.2	47	156	100
CO910424	6	3638	77.7	53	156	100
TX95V6409	17	3558	78.2	47	154	100
CO910239	5	3504	77.8	52	156	95
TX88A6558	10	3484	76.9	50	156	100
W94-320	20	3484	72.4	52	157	100
LARNED	1	3448	80.3	52	154	100
NE93554	9	3387	74	45	155	100
TX93A2361	12	3365	76.7	49	154	97
LAMAR	3	3338	79	57	156	100
TX95V6629	19	3237	74.8	52	159	98
CO940750	7	3201	78	58	157	100
SIOUXLAND	2	3163	73.4	58	157	100
NE92652	8	3143	78.6	51	157	98
TX95V6524	18	3129	77.7	54	157	100
T91	27	3111	74.6	46	154	92
PRONGHORN	30	3105	76.4	54	156	90
G1594	28	3098	75.8	53	158	95
N958004	23	3076	71.1	52	159	100
TX94V3305	13	3008	76.1	52	159	93
W95-188	21	2896	76.7	44	155	100
ARAPAHOE	4	2869	75	51	156	100
OK95550	25	2820	73.1	47	157	100
W95-210	22	2793	76.1	52	156	100
BUCKSKIN	29	2665	75.1	58	157	88
OK95567	26	2293	70.2	52	156	78
N94L189	24	2217	72.2	47	157	100

MEAN	3196
LSD (.05)	666
C.V.	12.8

SCOTTSBLUFF

NEBRASKA

FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL	: PLANT HEIGHT CM
CO910239	5	1963	76	71
CO910424	6	1919	75.7	65
LARNED	1	1896	75.2	77
TX88A6558	10	1892	75.3	66
LAMAR	3	1880	75.7	67
ARAPAHOE	4	1880	73.1	76
T91	27	1868	74.8	64
G1594	28	1868	74.5	68
TX92V5535	11	1860	75.9	68
NE93554	9	1859	74.9	72
N95S004	23	1810	75.2	79
TX95V6629	19	1790	76.3	69
TX95V5315	16	1782	73.3	66
NE92652	8	1775	77.1	74
TX95V6409	17	1756	74.3	66
TX94V4829	14	1743	76.8	66
SIOUXLAND	2	1723	74.5	83
CO940750	7	1723	75.5	72
W94-320	20	1721	72.9	66
TX94VT9016	15	1643	73.5	62
OK95550	25	1627	75.2	64
TX93A2361	12	1601	72.1	66
TX95V6524	18	1597	73.2	65
OK95567	26	1588	73.7	62
N94L189	24	1524	74	64
W95-188	21	1421	75.9	67
W95-210	22	1418	77	67
TX94V3305	13	1370	74.9	69

MEAN	1732
LSD (.05)	217
C.V.	8.9

PIERRE

S. DAKOTA

THREE REPLICATIONS

	:	:	YIELD	:	VOLUME	:
C.I. OR	:	ENTRY:	:	:	WEIGHT	:
SEL. NO.	:	NO. :	KG/HA	:	KG/HL	:
ARAPAHOE	29		3551		74.4	
CRIMSON	31		3094		78.2	
SIOUXLAND	2		3002		76.4	
OK95550	25		2934		75.1	
SD92107	33		2860		74.8	
NE93554	9		2816		72.6	
TX95V5315	16		2686		73.5	
SD92191	34		2663		76.8	
LARNED	1		2634		76.2	
ARAPAHOE	4		2600		73.1	
W95-188	21		2598		76.5	
TX94V4829	14		2511		70.6	
SD92227	35		2511		75.9	
W95-210	22		2450		76.2	
N94L189	24		2387		72.4	
OK95567	26		2192		72.3	
TX88A6558	10		2183		71.3	
TX94VT9016	15		2183		70.8	
N95S004	23		2181		72.4	
NEKOTA	30		2179		74.6	
TX95V6409	17		2132		74.2	
TX92V5535	11		2047		74.7	
NE92652	8		2022		75.9	
LAMAR	3		1733		72.4	
CO910239	5		1724		71	
TANDEM	32		1618		75.5	
TX93A2361	12		1594		72.2	
TX94V3305	13		1468		71.4	
CO940750	7		1318		74	
TX95V6524	18		1204		71.9	
T91	27		1188		70.1	
CO910424	6		1161		69.4	
G1594	28		1137		67.4	
TX95V6629	19		989		69.3	
W94-320	20		390		68	
MEAN			2113			
LSD (.05)			1215			
C.V.			35.2			

GOODLAND

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA :
W96-455	44	4477
NE93554	9	4369
TX88A6558	10	4340
W96-348	43	4315
TX95V5315	16	4311
CO910239	5	4286
LAREDO	32	4205
W95-188	21	4203
W96-247	40	4176
N958004	23	4152
TX94V4829	14	4122
W96-468	45	4069
TX93A2361	12	4042
TAM-107	30	4042
LARNED	1	3988
W94-320	20	3988
W96-307	41	3934
TX94VT9016	15	3907
W96-202	38	3907
TX95V6409	17	3880
TOMAHAWK	31	3878
CO940750	7	3827
LAMAR	3	3824
TX95V6629	19	3800
ARAPAHOE	4	3797
NE92652	8	3797
W95-210	22	3770
W96-214	39	3768
CO910424	6	3741
SIOUXLAND	2	3690
W96-504	47	3690
W96-144	36	3663
OK95550	25	3661
TX95V6524	18	3607
CORONADO	34	3607
W96-158	37	3607
TX92V5535	11	3526
IKE	29	3526
OGALLALA	33	3499
BIGDANG	35	3499
W96-321	42	3445
G1594	28	3419
T91	27	3416
TX94V3305	13	3389
W96-510	48	3363
OK95567	26	3336
W96-497	46	3145
N94L189	24	2605
MEAN		3804
LSD (.05)		474
C.V.		7.6

BOZEMAN

MONTANA

ONE REPLICATION

C.I. OR SEL. NO.	: :ENTRY: : NO. :	: YIELD : KG/HA :	: VOLUME : WEIGHT : KG/HL :	: PLANT : HEIGHT : CM :	: DAYS TO : HEADING : FROM 1/1:	: LODGING : : : 0-9 :
TX94VT9016	15	7283	77.5	82	163	0
TX95V5315	16	6826	79.5	87	166	1
N958004	23	6469	78.9	96	167	0
OK95550	25	6174	79.6	79	164	0
G1594	28	6140	80.4	84	167	0
OK95567	26	5992	77.1	74	164	0
CO940750	7	5952	80.2	94	166	3
TX88A6558	10	5918	78.7	77	163	2
W94-320	20	5824	78	81	164	0
CO910239	5	5810	79.7	86	164	1
NE93554	9	5763	76.4	85	164	1
NE92652	8	5703	80.9	86	166	1
W95-188	21	5669	80	84	163	0
N94L189	24	5656	77.1	81	165	0
TX94V3305	13	5535	78.6	84	167	0
TX92V5535	11	5367	77.9	80	163	1
T91	27	5326	77.1	77	163	0
W95-210	22	5319	78.7	79	164	0
SIOUXLAND	2	5306	78.2	96	166	0
TX95V6409	17	5225	78.4	79	162	0
LAMAR	3	5091	79.1	86	167	1
TX94V4829	14	5024	76.9	78	166	0
TX93A2361	12	4842	77.3	83	164	0
CO910424	6	4835	77.8	83	163	0
TX95V6629	19	4802	78	82	167	0
LARNED	1	4734	77.5	91	162	2
ARAPAHOE	4	4647	76.4	87	165	0
TX95V6524	18	4116	78.9	73	163	0

MEAN	5548
LSD(.05)	.
C.V.	.

Table 33. Summary of mean yields (kg/ha) and ranks for 28 wheats grown in the Western Plains Regional Performance Nursery at 8 locations in 1997.

C.I. OR SEL. NO.	ENTRY: NO.	BUSHLAND (DRYL.) TEXAS	GOODWELL OKLAHOMA	COLBY KANSAS	GOODLAND KANSAS	AKRON COLORADO	ARCHER WYOMING	SCOTTS- BLUFF NEBRASKA	PIERRE * S. DAKOTA	REGIONAL AVERAGE
TX94V4829	14	3107 1	3000 2	2737 22	4122 7	2244 3	3786 1	1743 16	2511 8	2963 1
TX95V5315	16	2883 3	2278 21	3523 2	4311 3	2258 2	3645 4	1782 13	2686 4	2954 2
CO910424	6	2786 5	3093 1	3155 11	3741 19	2062 7	3638 5	1919 2	1161 25	2914 3
CO910239	5	2699 8	2330 19	3656 1	4286 4	1816 18	3504 7	1963 1	1724 19	2893 4
NE93554	9	2768 7	2433 16	3402 4	4369 1	1819 17	3387 11	1859 10	2816 3	2862 5
TX92V5535	11	2782 6	2955 4	2974 17	3526 23	2148 5	3755 2	1860 9	2047 16	2857 6
TX88A6558	10	2522 15	2317 20	3434 3	4340 2	1938 12	3484 8	1892 4	2183 13	2846 7
TX94VT9016	15	2668 9	2998 3	3056 14	3907 11	1849 15	3649 3	1643 20	2183 12	2824 8
W95-188	21	3062 2	2655 11	3210 9	4203 5	2198 4	2896 23	1421 26	2598 7	2807 9
TX95V6409	17	2542 14	2789 9	3112 12	3880 12	1979 10	3558 6	1756 15	2132 15	2802 10
TX93A2361	12	2551 13	2840 5	2885 20	4042 8	1868 14	3365 12	1601 22	1594 20	2736 11
NE92652	8	2403 18	2617 12	3267 6	3797 16	1987 8	3143 17	1775 14	2022 17	2713 12
W94-320	20	2121 23	2483 15	3295 5	3988 9	1529 24	3484 8	1721 19	390 28	2660 13
N958004	23	2327 21	2217 22	3191 10	4152 6	1823 16	3076 21	1810 11	2181 14	2656 14
CO940750	7	1831 26	2343 18	3069 13	3827 13	2473 1	3201 15	1723 17	1318 22	2638 15
T91	27	2434 17	2708 10	2722 24	3416 25	2114 6	3111 19	1868 8	1188 24	2625 16
TX95V6629	19	2443 16	2828 6	3041 15	3800 15	1221 26	3237 14	1790 12	989 27	2623 17
LAMAR	3	2033 24	2163 25	3255 7	3824 14	1719 21	3338 13	1880 5	1733 18	2602 18
G1594	28	2553 12	2809 8	2729 23	3419 24	1628 22	3098 20	1868 7	1137 26	2586 19
OK95550	25	2390 19	2816 7	2825 21	3661 21	1741 20	2820 25	1627 21	2934 2	2554 20
LARNED	1	1809 27	1493 28	3253 8	3988 9	1899 13	3448 10	1896 3	2634 5	2541 21
TX95V6524	18	2807 4	2573 13	2633 26	3607 22	1404 25	3129 18	1597 23	1204 23	2536 22
ARAPAHOE	4	2376 20	2125 26	2951 19	3797 17	1561 23	2869 24	1880 5	2600 6	2509 23
SIOUXLAND	2	1932 25	1696 27	3026 16	3690 20	1980 9	3163 16	1723 17	3002 1	2459 24
OK95567	26	2668 9	2562 14	2696 25	3336 27	1780 19	2293 27	1588 24	2192 11	2418 25
W95-210	22	1755 28	2208 23	2956 18	3770 18	1964 11	2793 26	1418 27	2450 9	2409 26
TX94V3305	13	2645 11	2398 17	2339 27	3389 26	983 28	3008 22	1370 28	1468 21	2305 27
N94L189	24	2280 22	2197 24	2319 28	2605 28	1046 27	2217 28	1524 25	2387 10	2027 28
MEAN		2471	2497	3025	3814	1823	3218	1732	1981	2654
LSD (.05)		437	660	399	460	691	660	217	1211	304
C.V.		10.8	16.2	8.1	7.4	23.2	12.6	8.9	37.4	12.1

* Not included in regional means.

Table 34. Summary of agronomic and yield data for 28 wheats grown in the 1997 Western Plains Regional Performance Nursery.

VARIETY OR PEDIGREE	: C.I. OR SEL. NO.	: ENTRY: NO.	: PLANT HEIGHT : CM	: DAYS TO HEADING : FROM 1/1:	: LODGING 0-9	: WINTER SURVIVAL : %	: VOLUME WEIGHT : KG/HL	: YIELD KG/HA :
	Number of Locations		6	5	1	1	8	7
KS85WGRC01*HBZ308B/TAM-200	TX94V4829	14	61	144	0	100	74.8	2963
TX87V1534/TX84V1317	TX95V5315	16	66	144	1	100	75.9	2954
Mesa/Carson	CO910424	6	66	144	0	100	76.1	2914
KS831374/TAM-107	CO910239	5	68	144	1	95	76.1	2893
NE82419/Arapahoe	NE93554	9	66	143	1	100	74.7	2862
TX81V6599/TX80GH2679-T4	TX92V5535	11	65	143	1	100	77.7	2857
TX79A2729/TAM-108	TX88A6558	10	63	143	2	100	75.7	2846
PI137739/3*TAM-202	TX94VT9016	15	63	142	0	100	75.2	2824
Abilene/KS90WGRC10	W95-188	21	64	142	0	100	77.9	2807
TX84V1317/TX85V1326	TX95V6409	17	64	143	0	100	76.3	2802
TX87V1534/TX84V1317	TX93A2361	12	66	143	0	97	75.3	2736
NE82413/3/Newton sib/Agate//Sage sib	NE92652	8	67	144	1	98	77.6	2713
HBK0689	W94-320	20	65	145	0	100	73.4	2660
KS87809-10/Arapahoe	N958004	23	73	145	0	100	74.6	2656
Lamar-R32	CO940750	7	71	145	3	100	76.2	2638
TXGH10563B/KS90WGRC10	T91	27	62	142	0	92	74.7	2625
TXGH13622/Karl	TX95V6629	19	67	147	0	98	75.5	2623
Lamar (PI559719)	LAMAR	3	69	145	1	100	76.5	2602
BCD1828/83	G1594	28	65	146	0	95	75.4	2586
Karl//OK86216/Crr sib	OK95550	25	62	143	0	100	76.7	2554
Larned (CI17650)	LARNED	1	71	142	2	100	77.7	2541
TX88V4924/TX84V1317	TX95V6524	18	65	144	0	100	75	2536
Arapahoe (PI518591)	ARAPAHOE	4	69	144	0	100	74.6	2509
Siouxland (PI483469)	SIOUXLAND	2	74	144	0	100	75.7	2459
OK87W663/2157//2180	OK95567	26	61	143	0	78	74	2418
W84-179/W81-171/3/Sturdy/Hawk//W81-133-3	W95-210	22	63	144	0	100	77.1	2409
FL302/TX79D1103//Karl	TX94V3305	13	65	145	0	93	75.1	2305
KS831672/3/Ran 12/Bez 4/2/Lancota/F9-67	N94L189	24	63	145	0	100	73.6	2027

Table 35. Summary of mean yields (kg/ha) and ranks for 8 wheats grown in the Western Plains Regional Performance Nursery in 1996 and 1997.

C.I. OR SEL. NO.	: ENTRY: NO.	BUSHLAND (DRYL.) TEXAS	: GOODWELL OKLAHOMA	: COLEBY KANSAS	: AKRON COLORADO	: SCOTTS- BLUFF	: PIERRE * S. DAKOTA	: REGIONAL AVERAGE
CO910424	6	1894 1	2431 1	3256 4	3867 2	1799 5	1779 8	2649 1
CO910239	5	1706 2	2008 4	3746 1	3484 5	1952 1	2413 4	2579 2
TX88A6558	10	1642 3	2058 3	3394 2	3888 1	1798 6	2161 5	2556 3
LAMAR	3	1222 7	1938 5	3307 3	3497 4	1932 2	2135 6	2379 4
ARAPAHOE	4	1480 5	1842 6	3226 5	3232 7	1912 3	2992 2	2338 5
T91	27	1580 4	2235 2	2939 8	3120 8	1578 8	1787 7	2291 6
SIOUXLAND	2	1260 6	1683 7	2992 7	3653 3	1788 7	3827 1	2275 7
LARNED	1	1158 8	1519 8	3081 6	3407 6	1833 4	2698 3	2200 8
MEAN		1493	1964	3243	3519	1824	2474	2408
LSD(.05)		390	N.S.	N.S.	N.S.	N.S.	1000	N.S.
C.V.		11.2	15.3	7.9	11.1	11.1	32.9	11.3

* Not included in regional means.

Table 34. Summary of agronomic and yield data for 28 wheats grown in the 1997 Western Plains Regional Performance Nursery.

VARIETY OR PEDIGREE	: C.I. OR SEL. NO.	: ENTRY: NO.	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING 0-2	: WINTER SURVIVAL %	: VOLUME WEIGHT KG/HL	: YIELD KG/HA
	Number of Locations		6	5	1	1	8	7
KS85WGRC01*HBZ308B/TAM-200	TX94V4829	14	61	144	0	100	74.8	2963
TX87V1534/TX84V1317	TX95V5315	16	66	144	1	100	75.9	2954
Mesa/Carson	CO910424	6	66	144	0	100	76.1	2914
KS831374/TAM-107	CO910239	5	68	144	1	95	76.1	2893
NE82419/Arapahoe	NE93554	9	66	143	1	100	74.7	2862
TX81V6599/TX80GH2679-T4	TX92V5535	11	65	143	1	100	77.7	2857
TX79A2729/TAM-108	TX88A6558	10	63	143	2	100	75.7	2846
PI137739/3*TAM-202	TX94VT9016	15	63	142	0	100	75.2	2824
Abilene/KS90WGRC10	W95-188	21	64	142	0	100	77.9	2807
TX84V1317/TX85V1326	TX95V6409	17	64	143	0	100	76.3	2802
TX87V1534/TX84V1317	TX93A2361	12	66	143	0	97	75.3	2736
NE82413/3/Newton sib/Agate//Sage sib	NE92652	8	67	144	1	98	77.6	2713
HBK0689	W94-320	20	65	145	0	100	73.4	2660
KS87809-10/Arapahoe	N958004	23	73	145	0	100	74.6	2656
Lamar-R32	CO940750	7	71	145	3	100	76.2	2638
TXGH10563B/KS90WGRC10	T91	27	62	142	0	92	74.7	2625
TXGH13622/Karl	TX95V6629	19	67	147	0	98	75.5	2623
Lamar (PI559719)	LAMAR	3	69	145	1	100	76.5	2602
BCD1828/83	GL594	28	65	146	0	95	75.4	2586
Karl//OK86216/Crr sib	OK95550	25	62	143	0	100	76.7	2554
Larned (CI17650)	LARNED	1	71	142	2	100	77.7	2541
TX88V4924/TX84V1317	TX95V6524	18	65	144	0	100	75	2536
Arapahoe (PI518591)	ARAPAHOE	4	69	144	0	100	74.6	2509
Siouxland (PI483469)	SIOUXLAND	2	74	144	0	100	75.7	2459
OK87W663/2157//2180	OK95567	26	61	143	0	78	74	2418
W84-179/W81-171/3/Sturdy/Hawk//W81-133-3	W95-210	22	63	144	0	100	77.1	2409
FL302/TX79D1103//Karl	TX94V3305	13	65	145	0	93	75.1	2305
KS831672/3/Ran 12/Bez 4/2/Lancota/F9-67	N94L189	24	63	145	0	100	73.6	2027

Table 36. Seedling infection type of entries in the 1997 Western Plains Regional Performance Nursery to selected isolates of wheat stem rust (*Puccinia graminis* f. Sp. *Tritici*). Data provided by D. V. McVey, USDA ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN 55108.

No	Line	QFCQ	QTHJ	RKRQ	RTQQ	TPMK	RTRQ	Postulated
1	CI17650	2	2	2	;	S	S	7b,+
2	PI483469	2=	2=	2=	2=	2=	2=	24/26
3	PI559719	1	2=	2-	;	0	2-	6,17,+
4	PI518591	1	2=	2=	;	0	2=	6,24
5	CO910239	1	2=	2=	2=	0	2=	6,Amigo
6	CO910424	1	2=	1	1	2=	;1-	+
7	CO940750	1	2=	2=	;	2	2=	24
8	NE92652	1	2-	2-	;	0	2=	6,24
9	NE93554	;1	1	-	;1-N	;	2	6,10,+
10	TX88A6558	1	2-	2	0	0	2-	6,Amigo
11	TX92V5535	1	0	2=	2=	;	;	16,Amigo
12	TX93A2361	1	2	2-	S,2=	0,S	2=,S	seg6,Amigo
13	TX94V3305	2=	2	2-	2	S	2	+
14	TX94V4829	2=	2=	1	2=	2=	2=	Amigo
15	TX94VT9016	S	-	S	S	0	S	?
16	TX95V5315	S	S	S	S	S	S	None
17	TX95V6409	1	S	;	;1N	S	;1N	10
18	TX95V6524	0	S	;	;	2=	;1-N	10,+
19	TX95V6629	1	2-	2=	;	S	;1-N	10
20	W94-320	S	S	S	S	S	S	None
21	W95-188	2	S	S	S	S	S	?
22	W95-210	2=	2=	2=	;1N	2=	2=	+
23	N958004	1,S	S,2=	S,2	;,S	S,2	S	+
24	N94L189	2	S	S	S	2	S	+
25	OK95550	0	2=	;	;	2=	;	6,10,+
26	OK95567	2=	2	2=	;	S	0	+
27	T91	1	2=	2=	;1	2=	;1-N	+
28	G1594	S	S	S	S	S	S	None
Set I		Sr5	Sr21	Sr9e	Sr7b			
Set II		Sr11	Sr6	Sr8	Sr9g			
Set III		Sr36	Sr9b	Sr30	Sr13-17			
Set IV		Sr9a	Sr9d	Sr10	Tmp			

Table 37. Seedling infection type of entries in the 1997 Western Plains Performance Nursery to selected isolates of leaf rust (*Puccinia recondita*). Data provided by D. V. McVey, USDA-ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN 55108.

No	Line	SCDG	MDLQ	KFBM	MBLM	MFBM	SBBM
1	CI17650	,	,1-C	S	,	S	S
2	PI483469	,	,C	S	,	S	,
3	PI559719	,	,	S	S	S	S
4	PI518591	,	,	2CN	1C	,1-C	,
5	CO910239	,	,,S	,	S	S	S
6	CO910424	,	S	S	,	S	,
7	CO940750	,	,	23	,	S	S
8	NE92652	,	,	,12	,1C	-	S,,1-
9	NE93554	,1-C	1-C	,1CN	,	1C	,1
10	TX88A6558	23	S	,	-	2	1
11	TX92V5535	,	23	23C	23	S	,
12	TX93A2361	,,1C	23	21C	23	S	23
13	TX94V3305	S	,	S,,	,	S	23
14	TX94V4829	23C	23	S	,	,12C	23
15	TX94VT9016	,2C	23	23	23	S	23
16	TX95V5315	,	,1-C	2C	23	,1C	S
17	TX95V6409	,	,	,	,	,	2
18	TX95V6524	,1C	,	,	23	,	2
19	TX95V6629	,	,	,	,	S	2
20	W94-320	,	,,2	,	2	S	,21
21	W95-188	,	,	,	,	,	,
22	W95-210	,	S,,	,	S,,	,	,1
23	N958004	,	,1C	,	,1C	,	2
24	N94L189	,	,	,	,	,,S	2
25	OK95550	,	S	2C	,	23C	2C
26	OK95567	X,,	S	X	,	23,,	S
27	T91	,	23,C	S,,	,	S	S
28	G1594	S,,	,C	23	,	-	S

	Lr	Lr	Lr	Lr
Set I	1	2a	2c	3
Set II	9	16	24	26
Set III	3ka	11	17	30
Set IV	10	18	21	23

Table 38. Entries in the 1997 Western Plains Regional Performance Nursery that possess a 1RS wheat-rye translocation. Analytical methods were reported in the 1993 Regional Report. Data provided by Bob Graybosch, USDA-ARS, Lincoln, NE.

C.I. OR SEL. NO.	: ENTRY: NO.	: TRANSLOCATION :
LARNED	1	NON.1RS
SIOUXLAND	2	1BL.1RS
LAMAR	3	NON.1RS
ARAPAHOE	4	NON.1RS
CO910239	5	NON.1RS
CO910424	6	NON.1RS
CO940750	7	NON.1RS
NE92652	8	NON.1RS
NE93554	9	NON.1RS
TX88A6558	10	NON.1RS
TX92V5535	11	1AL.1RS
TX93A2361	12	NON.1RS
TX94V3305	13	NON.1RS
TX94V4829	14	1AL.1RS
TX94VT9016	15	NON.1RS
TX95V5315	16	NON.1RS
TX95V6409	17	NON.1RS
TX95V6524	18	NON.1RS
TX95V6629	19	NON.1RS
W94-320	20	NON.1RS
W95-188	21	NON.1RS
W95-210	22	1AL.1RS
N95S004	23	NON.1RS
N94L189	24	NON.1RS
OK95550	25	1BL.1RS
OK95567	26	NON.1RS
T91	27	1AL.1RS
G1594	28	NON.1RS

1997 Regional Germplasm Observation Nursery Test Information

Table 1 (page 138):

Pedigree and Origin.

Russian Wheat Aphid (RWA); ARS, OK; Seedling RWA ratings from SS (super-susceptible) to HR (highly resistant). Local checks: 1) PI372129; 2) STARS-9302; 3) STARS 3-8. Data provided by David Porter and Cheryl Baker, USDA-ARS, Stillwater, OK.

Greenbug; ARS, OK; Seedling Greenbug ratings (biotype 'E') from SS (super-susceptible) to HR (highly resistant). Local checks: 1) Amigo; 2) Largo; 3) GRS1201. Data provided by David Porter and Cheryl Baker, USDA-ARS, Stillwater, OK.

Hessian fly; ARS, KS; Seedling reaction to Hessian fly (Great Plains biotype) from S (susceptible) to R (resistant). Local checks: 1) Jagger; 2) KS93U206; and 3) 2137. Data provided by J. Hatchett, USDA-ARS, Manhattan, KS.

Table 2 (page 151):

Acid Soil Tolerance; OSU, OK; Field ratings from Enid, OK, nursery site of soil pH=4.5 collected on 10/30/96, 12/11/96, and 3/17/97; 1 (Tolerant) to 9 (Susceptible). Local checks: 1) 2174; 2) OK91P648; and 3) 2163. Data provided by Brett Carver, Oklahoma State University, Stillwater, OK.

Leaf Rust; ARS, KS; Seedling ratings from 0 (highly resistant) to 9 (highly susceptible). 1996 race composite with virulence to Lr1, 2a, 2b, 2c, 2, 3, 3a, 3b, 3ka, 9, 10, 11, 13, 16, 18, 21, 22, 24, 26, 30, and 34. Data provided by Merle Eversmeyer, ARS, Manhattan, KS.

Leaf rust; OSU, OK; Seedling ratings from R (resistant) to S (susceptible). Race composite avirulence/virulence formula: 9, 19, 26, SXL / 1, 2a, 2c, 3, 3ka, 11, 16, 17, 24, 30, DNE, CTY. Local Checks: 1) Thatcher, Lr19; 2) Century; and 3) Siouxland. Data provided by Bob Hunger and John Sherwood, Oklahoma State University, Stillwater.

Leaf rust; Texas A&M, Vernon; Field response (R, resistant, to S, susceptible reaction type) and severity ratings (% infection); Local Checks: 1) TAM-200 ; 2) TAM-201 ; and 3) TAM-202. Data provided by David Worrall and Stephen Caldwell, Texas A&M, Vernon, TX.

Wheat Streak Mosaic Virus (WSMV); KSU, Hays, KS; Field ratings from S (susceptible) to R (resistant). Local Checks: 1) Jagger; 2) KS93U206; and 3) 2137. Data provided by Joe Martin, KSU, Hays.

Table 3 (page 164):

Soilborne Mosaic Virus (SBMV); OSU, OK; Visual ratings taken March, 1997 in Stillwater; Field ratings of 1 (no mosaic or stunting), 2 (slight mosaic and/or stunting), 3 (moderate mosaic and/or stunting), to 4 (severe mosaic and/or stunting). Local checks: 1) Vona; 2) Hawk; and 3) Sierra. Data provided by Bob Hunger and John Sherwood, Oklahoma State University, Stillwater.

Soilborne Mosaic Virus (SBMV); ELISA Absorbance; OSU, OK; Elisa absorbance values for presence of the SBM virus. Local checks: 1) Vona; 2) Hawk; and 3) Sierra. Data provided by Bob Hunger and John Sherwood, Oklahoma State University, Stillwater.

Soilborne Mosaic Virus (SBMV); Elisa, S. Deviation; OSU, OK; Standard deviation of Elisa absorbance values for presence of the SBM virus. Local checks: 1) Vona; 2) Hawk; and 3) Sierra. Data provided by Bob Hunger and John Sherwood, Oklahoma State University, Stillwater.

Soilborne Mosaic Virus (SBMV); Field rating; KSU, St. John; Field ratings from R (resistant) to S (susceptible) for reaction to SBMV at St. John, KS. Local checks: 1) Jagger; 2) U206; and 3) 2137. Symptoms from entry 200 to end were not as reliable as this section of the field had relatively poor infection. Data provided by R. Sears, Kansas State University, Manhattan.

Heading Date; Texas A&M, Bushland; Days to heading from 1/1. Local Checks: 1) TAM-109; 2) TAM-200; and 3) TAM-110. Data provided by Mark Lazar, Texas A&M, Bushland, TX.

Heading Date; Texas A&M, Vernon; Days to heading from 1/1. Local Checks: 1) TAM-200; 2) TAM-201; and 3) TAM-202. Data provided by David Worrall and Stephen Caldwell, Texas A&M, Vernon, TX.

Table 4 (page 177):

Winter Survival; Williston, ND; Field rating of % spring stand at Williston, ND. Local Checks: 1) Norstar; 2) Erhardt; and 3) Judith. Data provided by Phil Bruckner and Jim Berg, Montana State Univ., Bozeman, MT.

Winter Survival; Mead, NE; Winter survival ratings on 1 (10% survival) to 9 (90%+ survival) scale; Identity of local checks was not recorded. Data provided by Stephen Baenziger, University of Nebraska, Lincoln, NE.

Stem rust; races QFCQ, QTHJ, RKRQ, RTRQ, RTQQ, and TPMK; ARS, MN; Seedling ratings of reaction type to individual races of stem rust. No local checks were used. Data provided by D. V. McVey, USDA-ARS Cereal Rust Laboratory, St. Paul, MN.

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
1	TAM-107	PI495594	Check	S	S	S
2	KARL 92	PI564245	Check	SS	S	S
3	ARAPAHOE	PI518591	Check	S	S	H+
4	LOCAL CHECK-1	See footnotes	Check	R	S	S
5	LOCAL CHECK-2	See footnotes	Check	R	R	H-
6	LOCAL CHECK-3	See footnotes	Check	R	R	H
7	TAM-301	Mit/Kavkaz	Texas A&M, Marshall	SS	S	S
8	TX94D6183	2180/TX88D3424	"	SS	S	H+
9	TX95D7552	Sturdy/CI13227//Sturdy/Parula	"	S	S	H+
10	TX95D8009	Era/3/Len//Amigo/TX71A106-5	"	S	S	R-
11	TX95D8696	TAM-200//Sxld/Tanager (TX90D9277 resel.)	"	S	S	S
12	TX93A9173	FL302*2180/2157*KS82167	Texas A&M, Worrall	S	S	H-
13	TX93V4315	TAM-200/Fundulea	"	S	S	S
14	TX93V4708	TX86V1540/TAM-200	"	S	S	S
15	TX93V5717	TAM-200/TX82D5668	"	S	S	R-
16	TX93V6107	PSN 's'/BOW 's'//TAM-200	"	S	S	S
17	TX94V2323	TX88V4924/TX84V1317	"	S	S	S
18	TX94V2906	TAM-200/Fundulea	"	S	S	S
19	TX94V2934	TX86V1540/TAM-200	"	S	S	H-
20	TX94V3510	Composite Cross	"	S	S	S
21	TX94V3724	U1254-1-8-1-1/TAM-202	"	S	S	S
22	TX94V4524	U1254-4-9-8-V25	"	S	S	S
23	TX94V4730	TX86V1540/TAM-202	"	S	S	H
24	TX94V4930	TAM-200/Fundulea	"	S	S	S
25	TX94V5819	Unknown	"	S	S	S
26	TX94V5920	U1254-1-8-1-1/TAM-202	"	S	S	S
27	TX94V5922	U1254-1-8-1-1/TAM-202	"	S	S	S
28	TX94V5924	U1254-1-8-1-1/TAM-202	"	S	S	S
29	TX95V4923	RioBlanco/Bai Quan #3039	"	S	S	S
30	TX95V4930	NE83407/TX88V4834	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid	Greenbug	Hessian Fly
				ARS, OK	ARS, OK	ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
31	TX95V5127	TX86V1540/Karl	"	S	S	H+
32	TX95V5314	TX87V1534/TX84V1317	"	S	S	H-
33	TX95V5730	Karl/TX81V6603-2	"	S	S	S
34	TX95V5928	TX81V6603-2/Karl	"	SS	S	S
35	TX95V6314	TX80A5606/Karl	"	S	R	S
36	TX95V6316	TXGH13622/Karl	"	S	R	S
37	TX95V6338	NE83407/TX88V4834	"	S	S	S
38	TX95V6428	TX86V1540/Karl	"	S	S	H+
39	TX95V6636	FL302/TX79D1103//Karl	"	SS	S	S
40	TAM-107	PI495594	Check	S	S	S
41	KARL 92	PI564245	Check	SS	S	S
42	ARAPAHOE	PI518591	Check	S	S	R-
43	LOCAL CHECK-1	See footnotes	Check	R	S	S
44	LOCAL CHECK-2	See footnotes	Check	R	R	S
45	LOCAL CHECK-3	See footnotes	Check	R	R	S
46	TX96A0009	TAM-105*4/Amigo*4/Largo/3/TAM-202	Texas A&M, Lazar	S	R	S
47	TX96A0016	TAM-101*4/Amigo*4/Largo/3/TAM-202	"	S	S	S
48	TX96A0018	TAM-105*4/Amigo*4/Largo/3/TX88V5431	"	S	R	S
49	TX96A0025	" "	"	S	R	S
50	TX96A0033	TAM-105*4/Amigo*4/Largo/3/TAM-101*5/Ci9321	"	S	R	S
51	TX96A0039	TAM-105*4/Amigo*4/Largo/3/Ctk/Ci9321	"	S	R	S
52	TX96A0126	TAM-105*4/Amigo*4/Largo/3/Larned	"	SS	R	S
53	TX96A0183	TX85V1225R/3/TAM-105*4/Amigo*4/Largo	"	S	R	S
54	TX96A0200	NE83407/TX84V1317	"	SS	S	S
55	TX96A0206	" "	"	S	S	S
56	TX96A0211	TX84V1336/AGC-113	"	SS	S	S
57	TX96A0213	NE83407/TX87V1316	"	S	S	S
58	TX96A0223	NA-W81-162-W/Zhenghou/TX88V5435	"	S	S	S
59	TX96A0226	Rawhide/Ctk*5/Ci9321	"	S	S	H
60	TX96A0230	Rawhide/NE78696/TX78V2154	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling SS-HR	Seedling SS-HR	Seedling S-R
61	TX96A0252	TX88V5439//NE78696/TX78V2154	"	S	S	H-
62	TX96A0261	Agate/TAM-105//TAM-201	"	S	S	R
63	TX96A0263	Agate/TAM-105//TAM-101*5/CI9321	"	S	S	S
64	TX96A0265	TAM-105/TX78V2154//KS81H164	"	S	S	S
65	TX96A0273	Sxl/TAM-201//NE87403	"	S	S	S
66	TX96A0278	Lov10/Skp35//TX79A2729/TAM-105	"	S	S	S
67	TX96A0283	Eagle/TX86D1310	"	S	S	S
68	TX96A0286	Karl/TXGH12588	"	S	Seg	S
69	TX96A0288	Karl/TX87V1138	"	S	S	S
70	TX96A0290	Karl/3/TAM-200//TX38949-2/TAM-107	"	S	S	S
71	TX96A0347	TX90V7110//KS82206/TAM-108	"	S	S	S
72	TX96A0349	TX79D1336/Collin//TAM-202	"	S	S	S
73	TX96A0350	TX90V7911/Karl	"	S	S	S
74	TX96A0369	2157/MV-12//TX87V1613	"	S	S	R
75	TX96A0390	Tyrant 's'/TAM-106//Karl	"	SS	S	S
76	TAM-107	PI495594	Check	S	S	S
77	KARL 92	PI564245	Check	S	S	S
78	ARAPAHOE	PI518591	Check	S	S	R-
79	LOCAL CHECK-1	See footnotes	Check	R	S	S
80	LOCAL CHECK-2	See footnotes	Check	R	R	S
81	LOCAL CHECK-3	See footnotes	Check	R	R	H
82	G13020	Sierra/CG30188	Goertzen	S	S	H
83	G13024	Lamar/CG60617	"	S	S	S
84	G14108	1992 Colorado Bulk Selection	"	S	S	H+
85	G14154	" "	"	S	S	S
86	G14177	TBA	"	S	S	S
87	G14264	CG822115/Karl	"	S	S	S
88	G14314	CG30223W/CG30280	"	S	S	H-
89	G14393	TBA	"	S	S	S
90	G14420	Karl/3/Abilene/G1113//Karl	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid	Greenbug	Hessian Fly
				ARS, OK	ARS, OK	ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
91	G15015	CG30188/CG18036	"	S	S	S
92	G15039	CG30188/CG17069	"	S	S	S
93	G15048	CG18063/CG60725	"	S	S	R
94	G15016	CG30188/CG18036	"	S	S	H-
95	G15080	1993 Genetic Male Sterile Population	"	S	S	S
96	G15013	CG17069/CG17142	"	S	S	S
97	G15018	CG50325/CG30188	"	S	S	S
98	G15098	CG17370/CG17398	"	S	S	H
99	G15037	CG18036/CG60385	"	S	S	S
100	G15011	Abilene/CG60327	"	S	S	S
101	STARS-2506	Karl 92/3/Karl/Bobwhite/PI149898	ARS, Stillwater	Seg	S	S
102	STARS-2511	Karl/Bobwhite/PI149898/3/Karl 92	"	Seg	S	S
103	ST-2521/2536	Seed Mix	"	Seg	S	S
104	ARAPAHOE	PI518591	Check	S	S	R
105	STARS-2542	Karl 92/4/Karl/3/TAM-101/Csm/PI366616	ARS, Stillwater	S	S	S
106	STARS-2550	TAM-101/Csm/PI245462/3/Karl 92	"	Seg	S	S
107	STARS-2562	Karl 92/3/TAM-101/Csm/PI245462	"	Seg	S	S
108	STARS-2569	Csm/Csm/PI225217/3/Karl 92	"	S	S	S
109	STARS-2570	Karl 92/Csm/PI366515	"	Seg	S	S
110	STARS-2572	Karl 92/Csm/PI366520	"	R	S	S
111	STARS-WA167	Csm/PI366515	"	R	S	S
112	STARS-WA169	" "	"	R	S	S
113	STARS-WA183	" "	"	R	S	H-
114	STARS-WA186	" "	"	R	S	H-
115	STARS-WA241	" "	"	R	S	S
116	STARS-WA260	Csm/PI366520	"	R	S	S
117	TAM-107	PI495594	Check	S	S	S
118	KARL 92	PI564245	Check	SS	S	S
119	ARAPAHOE	PI518591	Check	S	S	R
120	LOCAL CHECK-1	See footnotes	Check	R	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphld	Greenbug	Hessian Fly
				ARS, OK	ARS, OK	ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
121	LOCAL CHECK-2	See footnotes	Check	R	R	S
122	LOCAL CHECK-3	See footnotes	Check	R	R	H-
123	OK93617	Crr sib/Fun 133	OSU, Smith	SS	S	S
124	OK94P549	HBV756A/SxII/2180	"	SS	S	S
125	OK94P461	TAM-200/HBB313E//2158	"	SS	S	R
126	OK95550	Karl//OK86216/Crr sib	"	SS	S	H-
127	OK95567	OK87W663/2157//2180	"	SS	S	H-
128	OK95616	TXGH13622/2180	"	S	Seg	H-
129	OK95617	TXGH13622/2180	"	SS	Seg	H
130	HBZ374C	IL71-5662/PL145//2165	"	S	S	S
131	OK93P735	HBV250A/HGF004	"	SS	S	H+
132	OK91724	Yantar/2*Chisholm	"	S	S	S
133	OK95548	OK86216/Crr sib//2180	"	SS	S	R-
134	OK95592	OK87630/RL844677	"	S	S	S
135	OK95639	Nasma/OK84343//Karl	"	SS	S	S
136	OK97G601	Chisholm//PI245462/Karl	OSU, Carver	R	S	S
137	OK97G602	" "	"	Seg	S	S
138	OK97G603	" "	"	R	S	S
139	OK97G604	" "	"	Seg	S	S
140	OK97G605	" "	"	Seg	S	S
141	OK97G606	" "	"	Seg	S	S
142	OK97G607	OK84286*3/Cardinal	"	S	S	H
143	OK97G608	OK86215*3/Cardinal	"	S	S	H
144	OK97G609	" "	"	S	S	S
145	OK97G610	" "	"	S	S	S
146	OK97G611	HBA142A*HBZ621A/Rio Blanco	"	SS	S	H
147	CO930007	OK84286/TAM-107	CSU, Quick	S	S	S
148	CO930250	Arapahoe/Abilene	"	S	S	R-
149	CO930334	AGC112/Abilene	"	S	S	S
150	CO930449	XW166/Abilene	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
151	CO930690	Sumner/Lamar	"	S	S	S
152	CO930738	Sumner/CO820026	"	S	S	H-
153	CO930761	Sumner/CO820026	"	S	S	H-
154	CO930908	TAM-107//RWA/TAM-200	"	Seg	S	S
155	CO930948	Lamar//RWA/TAM-200	"	S	S	S
156	CO930015	OK84286/TAM-107	"	S	S	S
157	CO940700	Yuma-R21	"	Seg	S	S
158	CO940750	Lamar-R32	"	Seg	S	H-
159	TAM-107	PI495594	Check	S	S	S
160	KARL 92	PI564245	Check	SS	S	S
161	ARAPAHOE	PI518591	Check	SS	S	R-
162	LOCAL CHECK-1	See footnotes	Check	R	S	S
163	LOCAL CHECK-2	See footnotes	Check	R	R	S
164	LOCAL CHECK-3	See footnotes	Check	R	R	S
165	HBK0935-73-3	2180/Karl//2163	KSU, Sears	SS	S	R-
166	HBK0935-117-1	" "	"	SS	S	H+
167	KS87024F-5-1	TX81V6614/KS831943//X82110I-2	"	SS	S	H
168	HBK0771-10	HBZ588B/Karl//2163	"	SS	S	S
169	KS87436H-3-2-1	SD2980/Karl//KS79259-3	"	SS	S	H+
170	KS90175-3	KS8010-72/KS811252-1-2-1	"	SS	S	H-
171	KS91W009-6-1	KS82W428/Vee 's'//Victory/BW/3/PV1124-79	"	SS	S	S
172	HBK0630-4-5	HBA142A/HBZ621A/ALE	"	SS	S	H
173	HBK0771-1-1	HBZ588B/Karl//2163	"	SS	S	R-
174	HBK0771-14-1	" "	"	SS	S	R-
175	KS94U241	TAM-107*2/TA759	"	S	S	S
176	HBK1157-3-1	HBZ252C/2163/HBZ356A/2163	"	SS	S	H+
177	HBK1157-13-1	" "	"	SS	S	R-
178	KS91015-C-1	KS84170E-8/KSSB124-4//C201Karl	"	S	S	R-
179	KS91015-C-6	" "	"	S	S	R-
180	KS91022-D-6	KS84273BB/3/KSSB110-9//KS83174B/YE	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling SS-HR	Seedling SS-HR	Seedling S-R
181	KS91048-F-2	SB124-11-2/KSSB124-7//Karl	"	S	S	H-
182	KS91134-D-2	ABI86-55/Mesa/3/TAM-200*2 Karl	"	S	S	R
183	KS91043-B-2	TAM-200/Arlin//1391 (Arg.)/TX79A2721	"	SS	S	S
184	KS91048-L-2	SB124-11-2/KSSB124-7//Karl	"	SS	S	S
185	KS91096-D-2	TX86D1332/X82110C-1/X82198J-1/3/NE87615/Karl	"	S	S	H
186	KS89180B-2-1	X88130/X88282	"	S	S	S
187	KS89180B-2-2	" "	"	SS	S	H-
188	KS91W047-4-1	KSSB146/KSSB192-3//Arlin/Karl	"	S	S	H-
189	HBK0935-73-11	2180/Karl//2163	"	S	S	H+
190	HBK0935-6-8	" "	"	S	S	H-
191	HBK0935-29-15	" "	"	S	S	H
192	HBK0935-13-6	" "	"	S	S	H-
193	HBK0935-13-11	" "	"	S	S	H+
194	N86L177	PI559717	ARS, NE, Graybosch	S	S	S
195	Slouxland	PI483469	"	S	S	S
196	N95L11866	Sxld/2*N86L177	"	S	S	S
197	N95L11867	" "	"	S	S	S
198	N95L11869	" "	"	S	S	S
199	N95L11873	" "	"	S	S	H+
200	N95L11879	" "	"	S	S	S
201	N95L11880	" "	"	S	S	S
202	N95L11881	" "	"	S	S	S
203	N95L11884	" "	"	S	S	S
204	KS95HW62-6	KS87H325/Rio Blanco	KSU, Martin	S	S	S
205	KS95HW62-2	" "	"	S	S	H-
206	KS95H101-1	KS91H184/KS89H20//TAM-107	"	S	S	H-
207	KS95H101-2	" "	"	S	S	H-
208	KS95H129-3	KS91H184/KS89H20	"	S	S	S
209	KS95H179-3	KS87H63/3/PI220350/KS87H57//TAM-200/KS87H66	"	Seg	S	S
210	KS96H127	KS91H184/TAM-200//Ike/Karl/3/KS87H325	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid	Greenbug	Hessian Fly
				ARS, OK	ARS, OK	ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
211	KS96H160	KS91H174/TAM-200/KS87H6	"	S	S	S
212	KS96H163	" "	"	S	S	S
213	KS96H181	KS87H6/TAM-107	"	S	S	S
214	KS96H182	" "	"	S	S	S
215	KS96H191	TAM-107/KS89H19	"	S	S	S
216	KS96H192	" "	"	S	S	S
217	KS96H193	" "	"	S	S	S
218	KS96H206	KS89H28/KS88H155	"	S	S	R
219	KS96H216	PI220350/KS87H57//TAM-200/KS87H66/3/KS87H325/4/TAM-107	"	Seg	S	S
220	KS96HW2	KS91HW29//RioBlanco/KS91H174	"	S	S	H-
221	KS96HW5	" "	"	S	S	H+
222	KS96HW10	KS91HW29//RioBlanco/KS91H184	"	S	S	H
223	KS96HW47	Arlin slb/Karl	"	S	S	S
224	KS96HW51	" "	"	S	S	S
225	KS96HW57	" "	"	S	S	S
226	KS96HW71	RioBlanco/KS89H33	"	S	S	S
227	KS96HW88	Arlin/KS89H20	"	S	S	S
228	KS96HW91	" "	"	S	S	S
229	KS96HW94	" "	"	S	S	S
230	KS96HW100	Arlin/KS89H19	"	S	S	S
231	KS96HW114	Arlin/KS89H130	"	S	S	S
232	KS96HW115	" "	"	S	S	S
233	KS96HW116	" "	"	S	S	S
234	TAM-107	PI495594	Check	S	S	S
235	KARL 92	PI564245	Check	S	S	S
236	ARAPAHOE	PI518591	Check	S	S	R
237	LOCAL CHECK-1	See footnotes	Check	R	S	H-
238	LOCAL CHECK-2	See footnotes	Check	R	R	H-
239	LOCAL CHECK-3	See footnotes	Check	R	R	H-
240	KS93U10	Karl*3//PI266844/PI355520	ARS, KS, Cox	S	S	H-

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling SS-HR	Seedling SS-HR	Seedling S-R
241	KS93U50	Century*3/TA2450	"	S	S	H-
242	KS93U76	TAM-107*3/TA2460	"	S	S	S
243	KS93U104	TAM-107*2//KS8010-1-4-1/TA359	"	S	S	S
244	KS93U109	TAM-107*2//KS811163-4/TA2470	"	S	S	S
245	KS94U215	Bulk selection	"	S	S	S
246	KS94U216	Bulk selection	"	S	S	H-
247	KS94U275	KS93U69/KS92WGRC16	"	S	S	H
248	KS94U290	Karl*3/PI355520//KS90WGRC10 's'	"	S	S	H-
249	KS94U331-101	TBA	"	S	R	S
250	KS94U331-102	TBA	"	S	R	S
251	KS94U331-103	TBA	"	S	S	S
252	KS94U337	KS90WGRC10 sib *2/TA2455	"	S	R	H-
253	KS94U338	" "	"	S	S	H-
254	KS94U370	KS90WGRC10//KS93U69*2/TA2397	"	S	Seg	H
255	KS94U375	TBA	"	S	S	H-
256	KS94U408	KS90WGRC10*2//U1275-1-11-1-8/TA2455	"	S	S	H-
257	KS94U409	" "	"	S	Seg	H-
258	KS94U410	" "	"	S	Seg	S
259	KS94U415	" "	"	S	S	S
260	KS94U424	TBA	"	S	S	S
261	KS94U429	TBA	"	S	S	S
262	KS95U522	KS90WGRC10//KS93U69*2/TA2397	"	S	S	H-
263	KS95U528	" "	"	S	S	S
264	KS95U536	TAM-107*2//PI355520/PI265008	"	S	S	S
265	KS95U589	KS91WGRC12-1-9/Victory	"	S	S	S
266	N94L189	KS831672/3/Rannaya12/Bez4/2/Lancota/F9-67	ARS, NE, Peterson	S	S	S
267	N94L205	Abilene/KS831862	"	S	S	S
268	N95S004	KS87809-10/Arapahoe	"	S	S	S
269	N95S041	N87U106/Madsen//IDO81277-SPN/NAC-76	"	S	S	S
270	N94L153	Sxld/Vee 's'/4/NE76424/3/Naphal/At86//NS10-18	"	S	S	R

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
271	N94L154	" "	"	S	S	H+
272	N94L179	Sel.14-53/3/Lcr/2/At66/Cmr/4/ Odessa3/5/KS831936-3	"	S	S	S
273	N95L036	N87V106/N88V027	"	S	S	H
274	N95L189	KS831024/4/Aurora/NE701154/3/NE7060/2/ Ran12/Bez4	"	S	S	H+
275	N94V217	N87V106/N86V109	"	S	S	H+
276	N94V222	" "	"	S	S	S
277	N94V240	" "	"	S	S	S
278	N95V070	KSSB-140-5/N87V106	"	S	S	S
279	N95V119	N87V106/N88V027	"	S	S	S
280	N94L027	ND643/Sxld//NE87619	"	S	S	H-
281	N94L028	" "	"	S	S	S
282	N96L1221	KS831936-3//Colt/Cody	"	S	S	S
283	N96L1223	" "	"	S	S	S
284	N96L1224	" "	"	S	S	S
285	N96L1225	" "	"	S	S	H-
286	N96L1226	" "	"	S	S	S
287	N96L1229	" "	"	S	S	H-
288	N96L1231	" "	"	S	S	H
289	TAM-107	PI495594	Check	S	S	S
290	KARL 92	PI564245	Check	S	S	S
291	ARAPAHOE	PI518591	Check	S	S	R-
292	LOCAL CHECK-1	See footnotes	Check	S	S	S
293	LOCAL CHECK-2	See footnotes	Check	R	S	S
294	LOCAL CHECK-3	See footnotes	Check	R	R	H
295	NE95417	Abilene/Karl	UN-L, Baenziger	R	R	H+
296	NE95473	Russian#2/Arapahoe	"	S	S	R
297	NE95482	NE83432/NE87613	"	S	S	S
298	NE95489	NE87457/NE87615	"	S	S	H+
299	NE95509	Abilene/Arapahoe	"	S	S	R
300	NE95510	Abilene/Arapahoe	"	SS	S	H+

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling	Seedling	Seedling
				SS-HR	SS-HR	S-R
301	NE95536	Rawhide//NE87408/Arapahoe	"	S	S	R-
302	NE95537	" "	"	S	S	S
303	NE95546	Rawhide//NE82414/Stozher	"	S	S	S
304	NE95553	NE86501//Stozher/NE86582	"	SS	S	S
305	NE95587	Abilene//NE87449/KS84HW196	"	SS	S	S
306	NE95593	Siouxland//NE87409//NE84557	"	S	S	S
307	NE95632	TX84V1317//NE86488//NE87409	"	S	S	S
308	NE95656	684HBK1008	"	S	S	H
309	NE95686	KS88H164/Redland	"	S	S	H-
310	N94L212	NE7060/2//OK11252A/HW76-1226	"	S	S	H-
311	NE95518	NE83432//NE82414/Stozher	"	S	S	S
312	NE95683	Arapahoe//NE89523	"	S	S	S
313	NE95451	NE87612//NE83407	"	S	S	H-
314	NE95508	Abilene/Arapahoe	"	S	S	H+
315	NE95520	NE83432//NE82414/Stozher	"	S	S	S
316	NE92652	NE82413//NE82533	"	S	S	S
317	SD89119	Brule/Agate	SDSU, Haley	S	S	R-
318	SD89153	TAM 105/Winoka	"	S	S	S
319	SD92107	Brule//Bennett/Chisholm/3/Arapahoe	"	S	S	R-
320	SD92191	OK81306//SD82102/Norwin	"	S	S	S
321	SD92227	SD76463-16//SD82195/SD82144	"	S	S	S
322	SD93267	SD8026/Roughrider//SD76598-7/Agassiz	"	S	S	H-
323	SD93336	MT8030/TX81V-6180	"	S	S	H+
324	SD93364	Brule/TAM 105//NE82651	"	S	S	S
325	SD93380	TX80A-5901-1//NE78488	"	S	S	R
326	SD93500	Judith/Redwin	"	S	S	R
327	SD93110	Lancota/Siouxland	"	S	S	S
328	SD93113	Rita/SD76598-7	"	S	S	S
329	SD93195	Rose//Agassiz/Thunderbird	"	S	S	S
330	SD93320	Rose/SD791051	"	S	S	S

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling SS-HR	Seedling SS-HR	Seedling S-R
331	SD93338	MT8030/TX81V-6180	"	S	S	S
332	SD93342	Redland/Norwin	"	S	S	H-
333	SD93430	OK81306/SD82102/Norwin	"	S	S	H+
334	SD93439	NE86256/OK82377	"	S	S	S
335	SD93519	Arapahoe/3/Brule//Hiplains/Newton	"	S	S	H
336	SD93522	Arapahoe/3/Brule//Hiplains/Newton	"	S	S	R
337	SD93528	Arapahoe/3/Brule//Hiplains/Newton	"	S	S	S
338	SD94110	Rose/Norkan	"	S	S	S
339	SD94113	Rose/Norkan	"	S	S	H+
340	SD94149	Abilene/OK85347	"	S	S	S
341	SD94162	NE82562/Rose	"	S	S	S
342	SD94173	NE82562/Cody	"	S	S	H+
343	SD94188	Rose/NE82562	"	S	S	S
344	SD94210	Rose/Abilene//Abilene/TAM 107	"	S	S	H-
345	SD94217	ND8212/OK85310	"	S	S	H-
346	SD94218	ND8212/OK85310	"	S	S	H+
347	SD94224	Rose/Thunderbird	"	S	S	S
348	SD94227	ND8212/Abilene	"	S	S	S
349	SD94241	NE82562/Rose	"	S	S	S
350	SD94251	NE82562/Cody	"	S	S	S
351	SD94275	OK85347//Hand/IDO180	"	S	S	S
352	TAM-107	PI495594	Check	S	S	S
353	KARL 92	PI564245	Check	S	S	S
354	ARAPAHOE	PI518591	Check	S	S	R
355	LOCAL CHECK-1	See footnotes	Check	R	S	S
356	LOCAL CHECK-2	See footnotes	Check	R	R	H+
357	LOCAL CHECK-3	See footnotes	Check	R	R	H+
358	MT9431	Nuwest/Tiber	MSU, Bruckner	S	S	.
359	MT9432	" "	"	S	S	.
360	MT9441	" "	"	S	S	.

1997 Regional Germplasm Observation Nursery (Table 1 of 4)

Entry	Sel. No.	Pedigree	Origin	RW Aphid ARS, OK	Greenbug ARS, OK	Hessian Fly ARS, KS
				Seedling SS-HR	Seedling SS-HR	Seedling S-R
361	MT9523	" "	"	S	S	.
362	MT9524	" "	"	S	S	.
363	MT9526	" "	"	S	S	.
364	MT9602	" "	"	S	S	.
365	MT9402	Nuwest/MT8030	"	S	S	.
366	MT9403	" "	"	S	S	.
367	MT9513	" "	"	S	S	.
368	MT9409	Tiber/MT8030	"	S	S	.
369	MT9426	MT8030/Neeley	"	S	S	.
370	MT9601	" "	"	S	S	.
371	MTW9505	Norwin/Lancota//Nuwest	"	S	S	.
372	MT9506	Nuwest/MT80194//Norwin	"	S	S	.
373	MT9514	MT8030/Norstar	"	S	S	.
374	MT9535	ID103/Nuwest//Plainsman V/Manning	"	S	S	.
375	MT9557	ID103/Manning	"	S	S	.
376	MT9605	Froid/SD1287//Judith/3/MT7863	"	S	S	.
377	MT9610	Nuwest/Redwin//MT7863	"	S	S	.
378	MTW9617	Nuwest/RioBlanco	"	S	S	.
379	MT9620	ND8286/Redwin	"	S	S	.
380	MT9621	" "	"	S	S	.
381	MT9623	" "	"	S	S	.
382	MTW9631	Nuwest/APW84223	"	S	S	.
383	MTW9633	" "	"	S	S	.
384	MTW9635	" "	"	S	S	.
385	MTW9636	Nuwest/Norwin//MT7863	"	S	S	.
386	MT9640	MT80258/Winridge//MT7862/MT7115	"	S	S	.
387	MT9658	SMN82164/SMN82140//Rocky/Tiber	"	S	S	.
388	TAM-107	PI495594	Check	S	S	.
389	KARL 92	PI564245	Check	S	S	.
390	ARAPAHOE	PI518591	Check	S	S	.

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance OSU, OK	Acid Soil Tolerance OSU,OK	Acid Soil Tolerance OSU,OK	Leaf Rust ARS, KS	Leaf Rust OSU, OK	Leaf Rust Texas A&M	WSM Virus KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
1	TAM-107	7	8	8	9	S	90S	MS
2	KARL 92	6	8	8	9	S	90S	S
3	ARAPAHOE	5	6	7	0	MS	40MS	MS
4	LOCAL CHECK-1	7	6	6	4	S	90S	MR
5	LOCAL CHECK-2	1	2	2	6	S	90S	MS
6	LOCAL CHECK-3	3	2	3	8	S	90S	MR
7	TAM-301	6	5	5	3	MR	20MS	MR
8	TX94D6183	6	6	5	9	S	80S	S
9	TX95D7552	5	6	5	9	MS	80S	MS
10	TX95D8009	6	6	5	3	HR	;	MR
11	TX95D8696	5	6	4	5	HR	;	MR
12	TX93A9173	3	3	2	8	S	60S	MR
13	TX93V4315	3	4	3	3	HR	;	MR
14	TX93V4708	5	7	5	0	S	;- 60S	S
15	TX93V5717	4	5	3	0	SEG-R	;- 20S	S
16	TX93V6107	5	5	3	2	S	;	S
17	TX94V2323	5	6	4	9	S	60S	S
18	TX94V2906	4	5	3	3	HR	;	MR
19	TX94V2934	3	5	2	1	S	60S	MR
20	TX94V3510	3	5	2	2	S	100S	MR
21	TX94V3724	3	5	2	3	S	60S	MR
22	TX94V4524	2	3	2	2	HR	;	MR
23	TX94V4730	5	6	4	3	SEG-R	;	MS
24	TX94V4930	3	5	5	1	HR	;- 60S	MR
25	TX94V5819	6	7	7	2	MS	;	MR
26	TX94V5920	3	4	2	7	S	;- 60S	MR
27	TX94V5922	3	5	3	3	S	80S	MR
28	TX94V5924	6	6	4	9	S	;- 60S	MR
29	TX95V4923	7	8	8	3	S	60S	MR
30	TX95V4930	8	9	9	2	S	60S	MR

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
31	TX95V5127	3	6	5	2	HR	;	MR
32	TX95V5314	6	7	7	8	MS	30MR	S
33	TX95V5730	6	8	8	9	S	90S	MR
34	TX95V5928	6	8	7	2	S	90S	MS
35	TX95V6314	6	8	7	9	S	60S	S
36	TX95V6316	6	8	7	9	S	40MS	S
37	TX95V6338	6	8	8	2	S	40S	MR
38	TX95V6428	5	6	5	5	HR	;	MR
39	TX95V6636	6	8	7	8	S	80S	MR
40	TAM-107	6	7	7	9	S	80S	MS
41	KARL 92	6	7	6	9	S	80S	S
42	ARAPAHOE	6	6	6	2	MS	60MR	MS
43	LOCAL CHECK-1	7	7	7	7	S	80S	S
44	LOCAL CHECK-2	4	4	4	3	S	80S	MR
45	LOCAL CHECK-3	5	5	3	8	S	80S	MR
46	TX96A0009	6	8	8	9	S	80S	S
47	TX96A0016	7	7	8	9	S	20MR	MR
48	TX96A0018	5	8	8	9	S	80S	S
49	TX96A0025	8	8	9	9	S	80S	S
50	TX96A0033	6	7	8	9	S	80S	MR
51	TX96A0039	8	8	9	9	MS	80S	S
52	TX96A0126	6	8	8	9	S	80S	S
53	TX96A0183	7	8	8	8	S	80S	MS
54	TX96A0200	6	8	8	5	S	80S	MR
55	TX96A0206	6	8	8	3	S	40S	S
56	TX96A0211	6	7	7	9	S	90S	S
57	TX96A0213	6	6	6	9	S	60S	S
58	TX96A0223	6	8	7	9	S	90S	S
59	TX96A0226	7	8	8	2	MS	90S	MR
60	TX96A0230	4	7	7	9	S	90S	MR

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
61	TX96A0252	5	7	7	9	S	80S	MR
62	TX96A0261	7	8	8	9	S	80S	MR
63	TX96A0263	5	7	7	9	MS	80S	MR
64	TX96A0265	7	7	7	8	S	80S	MR
65	TX96A0273	6	7	6	9	S	80S	MS
66	TX96A0278	6	6	6	8	MS	40S	S
67	TX96A0283	5	8	8	9	S	30S	S
68	TX96A0286	7	8	8	9	S	80S	S
69	TX96A0288	7	8	7	5	MS	80S	S
70	TX96A0290	8	8	9	8	S	30MS	MS
71	TX96A0347	5	5	6	8	S	30MS	S
72	TX96A0349	6	6	6	9	S	40S	MS
73	TX96A0350	7	8	8	2	HR	;	S
74	TX96A0369	7	9	9	8	S	60S	S
75	TX96A0390	8	9	9	8	S	;	S
76	TAM-107	7	8	8	9	S	80S	MS
77	KARL 92	6	8	8	8	S	80S	S
78	ARAPAHOE	6	7	7	2	MR	60MR	MS
79	LOCAL CHECK-1	5	6	6	5	S	80S	MR
80	LOCAL CHECK-2	6	5	3	7	S	60MS	MR
81	LOCAL CHECK-3	2	2	2	8	S	60S	MR
82	G13020	6	6	6	5	MS	60MS	S
83	G13024	3	3	2	7	MS	30MR	S
84	G14108	5	7	7	7	S	30MS	MS
85	G14154	3	4	3	2	MR	80MS	VS
86	G14177	8	7	8	7	S	20MR	S
87	G14264	6	7	7	8	S	80S	S
88	G14314	5	6	5	9	S	60S	S
89	G14393	1	1	1	9	S	80S	MR
90	G14420	3	7	6	8	S	80S	MS

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
91	G15015	4	6	6	3	S	60S	MS
92	G15039	4	6	6	9	S	; - 60S	MS
93	G15048	7	7	7	7	S	60S	MS
94	G15016	5	7	6	9	S	80S	MS
95	G15080	5	7	7	9	S	80S	S
96	G15013	5	6	6	2	S	60S	MS
97	G15018	5	6	7	9	S	20MR	MS
98	G15098	3	6	7	8	MS	40S	MS
99	G15037	5	7	7	9	MS	40MS	MS
100	G15011	4	7	7	9	S	60S	R
101	STARS-2506	7	6	7	3	MS	60S	MS
102	STARS-2511	6	7	8	9	S	60S	MS
103	ST-2521/2536	5	8	8	9	S	60S	S
104	ARAPAHOE	6	6	8	2	MS	30MS	MR
105	STARS-2542	7	8	9	9	S	80S	MS
106	STARS-2550	8	9	9	8	S	60S	S
107	STARS-2562	8	9	9	9	S	60S	MS
108	STARS-2569	6	8	9	9	S	60S	MS
109	STARS-2570	7	8	9	9	S	80S	VS
110	STARS-2572	6	8	8	9	S	80S	VS
111	STARS-WA167	7	7	9	9	S	100S	S
112	STARS-WA169	6	7	9	9	S	100S	S
113	STARS-WA183	6	7	9	9	S	100S	S
114	STARS-WA186	6	7	9	9	S	100S	S
115	STARS-WA241	5	7	9	9	S	100S	VS
116	STARS-WA260	5	6	8	9	S	100S	VS
117	TAM-107	7	7	8	9	S	100S	MS
118	KARL 92	5	7	7	9	S	100S	MR
119	ARAPAHOE	7	6	7	2	MR	30MR	MR
120	LOCAL CHECK-1	5	5	5	5	S	100S	MR

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
121	LOCAL CHECK-2	2	2	2	5	S	120S	MR
122	LOCAL CHECK-3	2	3	3	9	S	100S	MR
123	OK93617	5	6	7	5	S	; - 80S	S
124	OK94P549	3	4	4	2	MR	; - 60S	S
125	OK94P461	7	8	7	3	HR	20MR	S
126	OK95550	6	7	7	2	MR	60S	S
127	OK95567	6	7	7	9	S	40MS	MR
128	OK95616	8	8	9	8	S	90S	MS
129	OK95617	9	9	9	8	S	; - 60S	S
130	HBZ374C	6	6	7	9	S	30MS	S
131	OK93P735	7	8	8	5	MR	20MS	S
132	OK91724	5	6	7	2	MS	;	MS
133	OK95548	5	5	7	2	MR	20MR	S
134	OK95592	8	9	9	9	S	20MS	S
135	OK95639	8	8	9	8	S	40S	MS
136	OK97G601	7	8	8	9	S	80S	S
137	OK97G602	7	8	8	9	S	80S	S
138	OK97G603	8	8	9	9	S	80S	S
139	OK97G604	7	8	8	9	S	80S	S
140	OK97G605	8	8	9	9	S	80S	S
141	OK97G606	6	7	8	9	S	80S	S
142	OK97G607	3	3	3	2	MS	80S	MS
143	OK97G608	1	2	2	9	S	80S	S
144	OK97G609	2	2	3	9	S	80S	S
145	OK97G610	1	2	2	7	S	80S	S
146	OK97G611	5	7	7	9	S	80S	S
147	CO930007	5	7	7	3	S	80S	MS
148	CO930250	5	6	7	2	S	60S	S
149	CO930334	5	7	7	3	S	80S	MR
150	CO930449	6	7	7	8	MS	;	S

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance OSU, OK	Acid Soil Tolerance OSU,OK	Acid Soil Tolerance OSU,OK	Leaf Rust ARS, KS	Leaf Rust OSU, OK	Leaf Rust Texas A&M	WSM Virus KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
151	CO930690	3	6	7	9	S	60S	MS
152	CO930738	4	4	3	9	S	60S	S
153	CO930761	6	5	4	8	MS	40MS	S
154	CO930908	4	7	7	9	S	80MS	S
155	CO930948	4	4	4	9	S	80S	VS
156	CO930015	5	6	7	4	S	80S	S
157	CO940700	4	5	5	9	S	80S	S
158	CO940750	3	6	7	9	S	20MR	MS
159	TAM-107	7	7	8	9	S	80S	MS
160	KARL 92	5	8	8	9	S	80S	S
161	ARAPAHOE	6	7	7	1	MR	80MS	MS
162	LOCAL CHECK-1	6	6	6	8	S	80S	MR
163	LOCAL CHECK-2	4	5	4	3	S	80S	MS
164	LOCAL CHECK-3	1	2	2	6	S	80S	MR
165	HBK0935-73-3	1	1	2	8	S	90MR	MS
166	HBK0935-117-1	5	7	8	7	S	10MR	MS
167	KS87024F-5-1	4	5	5	9	MS	30MS	S
168	HBK0771-10	2	3	2	7	S	30MS	MR
169	KS87436H-3-2-1	1	1	2	9	MS	10MR	MS
170	KS90175-3	6	7	8	1	MR	20MR	S
171	KS91W009-8-1	3	3	6	1	MR	10MR	S
172	HBK0630-4-5	6	7	8	2	MS	30MS	S
173	HBK0771-1-1	5	3	2	8	S	20MR	S
174	HBK0771-14-1	3	2	1	8	MS	10MR	MS
175	KS94U241	6	7	8	2	MS	5MR	S
176	HBK1157-3-1	2	1	2	9	S	10MR	MR
177	HBK1157-13-1	2	1	2	9	S	5MR	MR
178	KS91015-C-1	2	3	3	2	MR	;	S
179	KS91015-C-6	3	3	3	2	MR	10R	S
180	KS91022-D-6	4	7	7	2	S	20MR	S

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
181	KS91048-F-2	5	5	6	8	S	10MR	MR
182	KS91134-D-2	5	5	6	8	S	5MR	S
183	KS91043-B-2	4	6	7	9	MS	60S	S
184	KS91048-L-2	6	7	7	3	MR	5MR	S
185	KS91096-D-2	5	7	8	9	S	10MS	S
186	KS89180B-2-1	4	6	7	2	MR	5MR	S
187	KS89180B-2-2	3	4	5	2	MR	10MR	S
188	KS91W047-4-1	5	5	6	3	MR	10MS	S
189	HBK0935-73-11	1	1	1	8	MS	10MR	MS
190	HBK0935-6-8	2	2	2	8	S	20MS	MS
191	HBK0935-29-15	2	1	1	9	S	20MS	MS
192	HBK0935-13-6	3	2	4	9	S	20MR	MS
193	HBK0935-13-11	2	4	5	9	S	30MS	MS
194	N86L177	5	8	8	9	S	60S	MR
195	Slouxland	5	7	8	2	MS	30S	MS
196	N95L11866	6	8	8	8	S	20MS	S
197	N95L11867	5	7	7	2	MR	60MS	S
198	N95L11869	5	7	7	3	MR	60MS	S
199	N95L11873	5	6	7	2	MS	20MR	MS
200	N95L11879	6	7	8	5	MR	40MS	S
201	N95L11880	5	7	7	3	S	60MS	MS
202	N95L11881	6	7	7	3	MS	40MS	MS
203	N95L11884	6	7	7	5	S	40MS	MS
204	KS95HW62-6	5	7	7	1	SEG-R	20MR	MR
205	KS95HW62-2	6	7	7	2	MR	30MR	MR
206	KS95H101-1	6	6	7	4	MS	20MR	H
207	KS95H101-2	6	7	8	3	MR	5MR	H
208	KS95H129-3	7	7	8	8	MS	5MR	S
209	KS95H179-3	6	7	7	2	MR	20MS	R
210	KS96H127	7	7	8	3	SEG-R	30S	S

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
211	KS96H160	2	3	3	8	MS	30MS	H
212	KS96H163	5	5	6	2	MR	;	H
213	KS96H181	6	7	8	3	S	90S	MS
214	KS96H182	6	8	8	6	MS	90S	MS
215	KS96H191	7	8	8	9	S	80S	MS
216	KS96H192	6	7	7	9	S	80S	MS
217	KS96H193	6	7	7	9	S		MS
218	KS96H206	5	7	7	3	MR	80S	MS
219	KS96H216	6	7	7	1	SEG-R	80S	MS
220	KS96HW2	4	7	7	5	S	60MS	S
221	KS96HW5	5	6	6	3	MS	80S	H
222	KS96HW10	4	5	6	9	S	90S	R
223	KS96HW47	5	7	8	9	S	90S	MR
224	KS96HW51	4	7	8	9	S	20S	MS
225	KS96HW57	5	7	8	7	S	10MR	S
226	KS96HW71	5	7	7	2	MR	80S	S
227	KS96HW88	5	6	6	9	S	;	MS
228	KS96HW91	5	7	7	8	S	5MR	MR
229	KS96HW94	5	6	6	9	S	;	MR
230	KS96HW100	5	5	5	5	MR	;	MS
231	KS96HW114	5	5	5	9	S	80S	MR
232	KS96HW115	4	3	4	9	S	80S	MR
233	KS96HW116	5	3	3	9	S	60MS	MS
234	TAM-107	6	7	8	9	S	80S	MS
235	KARL 92	5	7	8	5	S	80S	S
236	ARAPAHOE	5	6	6	2	MS	60MR	MS
237	LOCAL CHECK-1	6	6	6	6	S	80S	MR
238	LOCAL CHECK-2	2	2	2	5	S	80S	MR
239	LOCAL CHECK-3	4	3	2	8	S	80S	MR
240	KS93U10	5	7	7	0	SEG-R	;	S

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance OSU, OK	Acid Soil Tolerance OSU,OK	Acid Soil Tolerance OSU,OK	Leaf Rust ARS, KS	Leaf Rust OSU, OK	Leaf Rust Texas A&M	WSM Virus KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
241	KS93U50	5	5	6	1	MR	;	S
242	KS93U76	6	6	6	2	HR	0-60S	MR
243	KS93U104	3	3	2	3	MR	;	MR
244	KS93U109	7	7	7	5	HR	5R	MR
245	KS94U215	5	6	6	2	MR	5R	MR
246	KS94U216	6	6	6	2	MR	5R	MR
247	KS94U275	6	7	8	3	HR	;	MR
248	KS94U290	7	7	8	3	SEG-R	;	MS
249	KS94U331-101	7	7	8	4	HR	;	MS
250	KS94U331-102	8	8	8	5	HR	;	MR
251	KS94U331-103	8	7	8	5	HR	;	MR
252	KS94U337	8	8	8	3	SEG-R	;	MR
253	KS94U338	7	7	8	0	HR	;	MR
254	KS94U370	8	7	8	7	HR	;	MS
255	KS94U375	5	6	6	7	SEG-R	;	MS
256	KS94U408	7	8	8	4	HR	;	MS
257	KS94U409	6	7	8	2	HR	;	MS
258	KS94U410	6	7	7	2	HR	;-60S	MS
259	KS94U415	6	7	7	5	HR	;-60S	MR
260	KS94U424	7	7	8	0	SEG-R	;	MR
261	KS94U429	6	7	8	3	SEG-R	;	MS
262	KS95U522	7	7	7	0	SEG-R	;	MS
263	KS95U528	7	7	7	0	HR	;	S
264	KS95U536	6	7	7	0	MS	10MR	S
265	KS95U589	6	6	7	9	S	20MS	S
266	N94L189	5	5	6	9	S	;	S
267	N94L205	4	4	5	3	S	40S	MS
268	N95S004	6	7	7	5	MS	;	S
269	N95S041	3	3	4	5	MS	;	MR
270	N94L153	5	5	5	5	S	40S	MR

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance OSU, OK	Acid Soil Tolerance OSU,OK	Acid Soil Tolerance OSU,OK	Leaf Rust ARS, KS	Leaf Rust OSU, OK	Leaf Rust Texas A&M	WSM Virus KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
271	N94L154	5	6	6	0	S	40S	MR
272	N94L179	1	2	4	0	S	30S	MR
273	N95L036	5	6	6	.	S	40MS	MS
274	N95L189	4	5	3	2	S	10MS	MS
275	N94V217	5	6	7	3	MR	20MR	S
276	N94V222	1	3	2	9	MS	60S	S
277	N94V240	4	6	7	8	S	60MS	S
278	N95V070	3	6	6	2	MR	;	S
279	N95V119	4	5	6	0	MR	;	S
280	N94L027	3	3	2	0	MS	;	MR
281	N94L028	5	5	5	4	MS	20MR	S
282	N96L1221	4	3	2	8	S	20MR	S
283	N96L1223	4	4	3	3	S	10MS	MR
284	N96L1224	4	3	2	3	S	;	MR
285	N96L1225	4	4	4	2	S	5MR	MR
286	N96L1226	2	2	4	1	S	;	S
287	N96L1229	5	4	5	2	S	;	MS
288	N96L1231	1	2	3	1	S	20S	MS
289	TAM-107	7	8	8	9	S	100S	MS
290	KARL 92	6	7	8	9	S	100S	MS
291	ARAPAHOE	8	7	8	1	MR	40MS	MS
292	LOCAL CHECK-1	5	6	7	3	S	100S	MS
293	LOCAL CHECK-2	5	5	5	3	S	100S	MR
294	LOCAL CHECK-3	4	2	2	8	S	100S	MR
295	NE95417	5	5	5	4	S	100S	S
296	NE95473	5	6	6	7	MS	100S	S
297	NE95482	5	5	6	9	S	80S	S
298	NE95489	5	5	6	8	MS	20MS	S
299	NE95509	5	6	6	2	MR	10MS	MS
300	NE95510	5	6	6	2	MS	40S	MS

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance OSU, OK	Acid Soil Tolerance OSU,OK	Acid Soil Tolerance OSU,OK	Leaf Rust ARS, KS	Leaf Rust OSU, OK	Leaf Rust Texas A&M	WSM Virus KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
301	NE95536	5	4	5	3	MS	30MS	S
302	NE95537	5	5	6	5	S	20MR	S
303	NE95546	4	4	3	3	S	30MS	S
304	NE95553	6	7	8	5	MS	20MS	S
305	NE95587	5	7	7	5	S	60S	MS
306	NE95593	6	7	7	2	MS	20MR	MS
307	NE95632	5	7	7	8	S	40S	S
308	NE95656	5	6	6	.	S	20S	MR
309	NE95686	4	6	6	9	MS	30S	MS
310	N94L212	5	6	7	8	S	5MR	MR
311	NE95518	3	5	7	5	S	20MR	MS
312	NE95683	6	5	7	5	MS	10MR	MS
313	NE95451	5	6	7	3	MS	20MR	MS
314	NE95508	5	7	7	2	MS	20MR	MR
315	NE95520	6	6	7	9	S	30S	S
316	NE92652	4	6	7	3	MS	20S	S
317	SD89119	5	5	6	9	S	30S	S
318	SD89153	4	7	7	8	S	20S	MR
319	SD92107	3	5	6	3	MR	20MS	MR
320	SD92191	6	7	7	9	S	30MS	MS
321	SD92227	4	7	7	9	S	10MR	MS
322	SD93267	4	4	3	9	S	20S	MR
323	SD93336	5	6	6	5	MS	20S	MS
324	SD93364	4	5	6	9	S	—	S
325	SD93380	5	6	7	2	MS	40S	MS
326	SD93500	5	6	7	8	S	40MS	S
327	SD93110	4	3	5	3	MS	20MS	S
328	SD93113	5	5	5	9	S	;	S
329	SD93195	6	6	7	9	S	80S	S
330	SD93320	6	7	7	9	S	30MS	MS

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance	Acid Soil Tolerance	Acid Soil Tolerance	Leaf Rust	Leaf Rust	Leaf Rust	WSM Virus
		OSU, OK	OSU,OK	OSU,OK	ARS, KS	OSU, OK	Texas A&M	KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
331	SD93338	3	4	5	9	S	80S	MS
332	SD93342	4	5	6	9	S	80S	S
333	SD93430	5	6	6	9	MS	80S	S
334	SD93439	5	5	5	2	MR	20MS	MS
335	SD93519	6	7	7	2	MR	30MS	S
336	SD93522	5	6	7	1	MS	40MS	S
337	SD93528	5	5	7	3	MS	30MS	MS
338	SD94110	5	6	7	8	S	20MS	MS
339	SD94113	6	7	7	7	S	40MS	MS
340	SD94149	6	6	7	5	MS	30S	MS
341	SD94162	7	7	8	8	MS	40MS	MR
342	SD94173	4	5	5	9	S	60S	S
343	SD94188	6	7	7	9	S	80S	MS
344	SD94210	5	6	7	7	S	80S	MR
345	SD94217	6	7	7	9	S	DL	MR
346	SD94218	6	7	8	9	S	90S	S
347	SD94224	6	7	8	9	S	90S	MR
348	SD94227	6	6	8	9	S	80S	MR
349	SD94241	7	7	7	3	MS	60S	S
350	SD94251	6	7	7	3	MS	60S	S
351	SD94275	7	7	8	2	HR	;	MS
352	TAM-107	6	7	7	9	S	100S	MR
353	KARL 92	6	7	7	9	S	100S	MR
354	ARAPAHOE	7	6	6	2	MS	100S	MR
355	LOCAL CHECK-1	7	6	6	5	S	80S	MR
356	LOCAL CHECK-2	3	2	2	5	S	80S	MS
357	LOCAL CHECK-3	4	2	2	7	S	100S	MR
358	MT9431	6	7	7	9	S	.	.
359	MT9432	7	7	7	.	S	.	.
360	MT9441	7	7	7	.	S	.	.

1997 Regional Germplasm Observation Nursery (Table 2 of 4)

Entry	Sel. No.	Acid Soil Tolerance OSU, OK	Acid Soil Tolerance OSU,OK	Acid Soil Tolerance OSU,OK	Leaf Rust ARS, KS	Leaf Rust OSU, OK	Leaf Rust Texas A&M	WSM Virus KSU, Hays
		10/30/96	12/11/96	3/17/96	Seedling	Seedling	Vernon	Field rating
		1 to 9	1 to 9	1 to 9	0 to 9	R-S	Sev./Resp.	R-S
361	MT9523	6	7	7	.	S	.	.
362	MT9524	7	7	7	.	S	.	.
363	MT9526	6	7	8	.	S	.	.
364	MT9602	7	7	8	.	S	.	.
365	MT9402	6	7	8	.	S	.	.
366	MT9403	6	7	8	.	S	.	.
367	MT9513	6	7	8	.	S	.	.
368	MT9409	7	6	7	.	S	.	.
369	MT9426	6	6	7	.	S	.	.
370	MT9601	6	6	7	.	S	.	.
371	MTW9505	7	7	8	.	S	.	.
372	MT9506	7	8	8	.	S	.	.
373	MT9514	5	4	6	.	S	.	.
374	MT9535	6	7	8	.	MS	.	.
375	MT9557	6	7	8	.	S	.	.
376	MT9605	5	7	7	.	S	.	.
377	MT9610	5	6	5	.	S	.	.
378	MTW9617	6	7	7	.	S	.	.
379	MT9620	5	7	7	.	S	.	.
380	MT9621	8	7	8	.	S	.	.
381	MT9623	8	7	8	.	S	.	.
382	MTW9631	6	6	7	.	S	.	.
383	MTW9633	6	7	8	.	S	.	.
384	MTW9635	6	7	8	.	S	.	.
385	MTW9636	2	2	2	.	MR	.	.
386	MT9640	6	7	7	.	S	.	.
387	MT9658	2	3	4	.	S	.	.
388	TAM-107	6	7	7	.	S	.	.
389	KARL 92	6	7	7	.	S	.	.
390	ARAPAHOE	5	6	.	.	MR	.	.

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
1	TAM-107	3	0.901	-0.023	S	120	109
2	KARL 92	1	0.045	-0.005	R	121	109
3	ARAPAHOE	4	1.334	-0.047	S	126	123
4	LOCAL CHECK-1	4	1.127	-0.069	R	124	116
5	LOCAL CHECK-2	1	0.013	-0.01	R	123	109
6	LOCAL CHECK-3	2ss	0.963	-0.031	R	126	109
7	TAM-301	4	1.414	-0.024	S	125	112
8	TX94D6183	1	0.097	-0.011	R	127	118
9	TX95D7552	3	1.157	-0.052	S	124	112
10	TX95D8009	4	1.129	-0.086	S	124	118
11	TX95D8696	4	1.173	-0.038	S	125	116
12	TX93A9173	2	1.074	-0.008	MS	123	112
13	TX93V4315	4	1.251	-0.046	S	124	115
14	TX93V4708	4	1.218	-0.048	VS	125	122
15	TX93V5717	4	1.283	-0.062	S	124	118
16	TX93V6107	4	1.296	-0.036	S	124	112
17	TX94V2323	1	0.172	-0.001	R	121	115
18	TX94V2906	4	1.295	-0.073	S	129	120
19	TX94V2934	4	1.193	-0.054	S	123	120
20	TX94V3510	4	1.187	-0.023	S	124	115
21	TX94V3724	1	0.044	-0.004	R	123	112
22	TX94V4524	1	0.01	-0.014	R	124	112
23	TX94V4730	3	1.33	-0.051	S	123	120
24	TX94V4930	4	1.23	-0.071	S	124	116
25	TX94V5819	4	1.26	-0.07	S	122	112
26	TX94V5920	4	1.19	-0.048	S	121	112
27	TX94V5922	2	1.329	-0.036	MS	121	112
28	TX94V5924	1	0.862	-0.074	R	122	115
29	TX95V4923	3	1.428	-0.019	S	126	125
30	TX95V4930	3	1.402	-0.028	MS	131	125

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
31	TX95V5127	1	1.378	-0.062	R	120	116
32	TX95V5314	3	1.577	-0.086	S	123	118
33	TX95V5730	4	1.469	-0.039	MS	122	109
34	TX95V5928	1	1.393	-0.009	R	123	115
35	TX95V6314	4	1.583	-0.024	MS	124	124
36	TX95V6316	1	0.09	-0.006	R	129	125
37	TX95V6338	3	1.33	-0.031	S	131	122
38	TX95V6428	3	1.472	-0.014	S	123	118
39	TX95V6636	1	0.303	-0.01	R	123	117
40	TAM-107	4	1.392	-0.087	S	121	111
41	KARL 92	1	0.151	-0.01	R	121	112
42	ARAPAHOE	3	1.431	-0.046	S	125	122
43	LOCAL CHECK-1	4	1.463	-0.043	R	123	115
44	LOCAL CHECK-2	1	0.083	-0.007	R	123	111
45	LOCAL CHECK-3	2ss	0.033	-0.003	R	126	112
46	TX96A0009	3	1.233	-0.04	S	122	115
47	TX96A0016	3	1.671	-0.072	S	127	125
48	TX96A0018	1	0.157	-0.007	R	124	126
49	TX96A0025	1	0.05	-0.013	R	125	122
50	TX96A0033	3	1.462	-0.015	S	125	120
51	TX96A0039	4	1.429	-0.04	S	123	116
52	TX96A0126	4	1.403	-0.009	S	122	121
53	TX96A0183	3	1.47	-0.058	S	121	109
54	TX96A0200	1	0.072	-0.01	R	124	118
55	TX96A0206	3	1.489	-0.067	MS	131	122
56	TX96A0211	2	1.456	-0.097	R	129	122
57	TX96A0213	3	1.505	-0.096	MS	127	116
58	TX96A0223	4	1.547	-0.065	S	123	116
59	TX96A0226	4	1.626	-0.03	S	124	115
60	TX96A0230	4	1.652	-0.034	S	126	125

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
61	TX96A0252	4	1.389	-0.055	S	124	120
62	TX96A0261	4	1.556	-0.063	S	125	122
63	TX96A0263	4	1.694	-0.037	S	122	120
64	TX96A0265	4	1.466	-0.02	S	122	122
65	TX96A0273	4	1.454	-0.033	S	123	112
66	TX96A0278	4	1.425	-0.092	S	125	122
67	TX96A0283	s	1.658	-0.047	S	126	123
68	TX96A0286	3	1.538	-0.023	MS	127	120
69	TX96A0288	1	0.116	-0.007	R	124	115
70	TX96A0290	1	0.044	-0.022	R	125	115
71	TX96A0347	4	1.339	-0.015	S	125	118
72	TX96A0349	4	1.316	-0.051	S	124	118
73	TX96A0350	4	1.36	-0.012	S	123	120
74	TX96A0369	4	1.361	-0.048	S	123	115
75	TX96A0390	s	0.294	-0.003	SEG	125	122
76	TAM-107	s	1.55	-0.025	S	121	110
77	KARL 92	1	0.056	-0.008	R	121	112
78	ARAPAHOE	4	1.443	-0.031	S	125	122
79	LOCAL CHECK-1	4	1.521	-0.061	R	123	115
80	LOCAL CHECK-2	1	0.174	-0.001	R	123	110
81	LOCAL CHECK-3	2	1.406	-0.031	R	125	112
82	G13020	3	1.426	-0.029	S	125	122
83	G13024	3	1.493	-0.067	S	123	116
84	G14108	3	1.591	-0.081	S	124	120
85	G14154	3	1.567	-0.032	S	123	122
86	G14177	3	1.564	-0.097	S	123	122
87	G14264	1	1.649	-0.051	R	122	115
88	G14314	3	1.548	-0.047	S	123	118
89	G14393	4	1.518	-0.021	S	122	109
90	G14420	1	1.36	-0.062	R	124	112

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
91	G15015	4	1.871	-0.074	S	127	112
92	G15039	4	1.971	-0.026	S	130	120
93	G15048	1	0.189	-0.014	R	125	123
94	G15016	3	1.943	-0.015	S	124	110
95	G15080	2s	1.394	-0.074	MS	125	112
96	G15013	3	1.373	-0.051	MS	125	122
97	G15018	3	1.929	-0.055	S	124	120
98	G15098	1	0.128	-0.005	R	125	112
99	G15037	3	1.864	-0.005	R	125	116
100	G15011	1	1.878	-0.018	R	124	118
101	STARS-2506	1	0.089	-0.014	R	125	115
102	STARS-2511	1	0.125	-0.012	MS	124	112
103	ST-2521/2536	1	0.076	-0.006	R	125	112
104	ARAPAHOE	3	1.738	-0.013	S	126	121
105	STARS-2542	1	0.089	-0.004	R	124	115
106	STARS-2550	1	1.972	-0.019	MS	122	111
107	STARS-2562	1	1.833	-0.055	R	124	115
108	STARS-2569	1	1.913	-0.012	R	124	112
109	STARS-2570	3	1.922	0	R	124	112
110	STARS-2572	2s	1.555	-0.014	R	126	112
111	STARS-WA167	wk	1.594	-0.022	.	.	110
112	STARS-WA169	wk	1.26	-0.026	.	.	110
113	STARS-WA183	wk	1.626	-0.015	.	.	110
114	STARS-WA186	wk	1.404	-0.077	.	.	110
115	STARS-WA241	wk	1.787	-0.087	.	.	110
116	STARS-WA260	wk	1.835	-0.075	.	.	110
117	TAM-107	4	1.684	-0.035	S	121	109
118	KARL 92	1	0.625	-0.821	R	122	109
119	ARAPAHOE	4	1.749	-0.21	S	126	121
120	LOCAL CHECK-1	4	1.817	-0.038	R	123	115

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
121	LOCAL CHECK-2	1	0.166	-0.008	R	123	109
122	LOCAL CHECK-3	1ss	1.572	-0.033	R	125	112
123	OK93617	3	1.818	-0.081	S	126	112
124	OK94P549	3	1.739	-0.088	S	124	115
125	OK94P461	1	0.118	-0.011	R	123	111
126	OK95550	1	1.719	-0.063	R	122	115
127	OK95567	1	0.021	-0.004	R	123	112
128	OK95616	1	1.555	-0.015	R	122	112
129	OK95617	1	0.001	-0.002	R	121	108
130	HBZ374C	1	1.737	-0.054	R	126	117
131	OK93P735	1	0.001	-0.001	R	125	115
132	OK91724	3	1.795	-0.056	MS	125	118
133	OK95548	3	1.345	-0.035	MS	122	115
134	OK95592	1	1.741	-0.023	S	123	109
135	OK95639	4	1.608	-0.02	S	124	115
136	OK97G601	1	0.63	-0.019	R	121	115
137	OK97G602	1	0.072	-0.001	R	122	110
138	OK97G603	1	1.859	-0.027	R	123	110
139	OK97G604	1	1.737	-0.016	R	123	110
140	OK97G605	2s	1.719	-0.061	R	120	110
141	OK97G606	1	1.496	-0.035	MR	122	111
142	OK97G607	4	1.779	-0.033	S	125	110
143	OK97G608	4	1.964	-0.016	S	124	115
144	OK97G609	4	1.507	-0.072	S	123	110
145	OK97G610	3	1.645	-0.097	S	123	110
146	OK97G611	1	0.102	-0.039	R	124	110
147	CO930007	4	1.407	-0.051	S	121	110
148	CO930250	1	1.769	-0.021	MS	126	120
149	CO930334	4	1.696	-0.06	S	122	120
150	CO930449	1	0.092	-0.009	R	125	121

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
151	CO930690	1	0.02	-0.001	R	124	112
152	CO930738	3	1.724	-0.07	S	127	118
153	CO930761	3	1.609	-0.06	S	126	122
154	CO930908	3	1.652	-0.111	S	126	120
155	CO930948	3	1.692	-0.128	S	125	110
156	CO930015	3	1.617	-0.13	S	124	115
157	CO940700	3	1.83	-0.09	S	124	116
158	CO940750	4	1.744	-0.013	S	127	123
159	TAM-107	4	1.499	-1.122	S	121	109
160	KARL 92	1	0.144	-0.002	R	122	112
161	ARAPAHOE	3	1.696	-0.029	S	125	123
162	LOCAL CHECK-1	4	1.729	-0.022	R	123	118
163	LOCAL CHECK-2	1	0.104	-0.018	R	124	110
164	LOCAL CHECK-3	1	0.042	-0.003	R	125	112
165	HBK0935-73-3	1	1.778	-0.002	R	125	120
166	HBK0935-117-1	1	1.778	-0.052	R	124	112
167	KS87024F-5-1	1	0.032	-0.01	R	125	112
168	HBK0771-10	1	1.945	-0.043	R	125	112
169	KS87436H-3-2-1	1	0.062	-0.01	R	127	120
170	KS90175-3	1	1.885	-0.032	R	126	115
171	KS91W009-6-1	2ss	0.019	-0.002	R	129	123
172	HBK0630-4-5	1	0.008	-0.003	R	125	112
173	HBK0771-1-1	1	1.938	-0.047	R	125	112
174	HBK0771-14-1	1	0.028	-0.006	R	124	120
175	KS94U241	4	1.713	-0.022	R	122	112
176	HBK1157-3-1	1	1.806	-0.017	R	124	112
177	HBK1157-13-1	1	1.79	-0.053	R	125	115
178	KS91015-C-1	1	0.007	-0.001	R	124	115
179	KS91015-C-6	1	0.494	-0.005	R	123	115
180	KS91022-D-6	2ss	0.019	-0.016	R	124	112

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
181	KS91048-F-2	1	0.016	-0.015	R	127	115
182	KS91134-D-2	1	1.939	-0.019	R	125	120
183	KS91043-B-2	1	0.012	-0.009	R	123	112
184	KS91048-L-2	1	1.947	-0.056	R	123	112
185	KS91096-D-2	1	1.902	-0.084	R	126	115
186	KS89180B-2-1	1	1.88	-0.083	R	125	118
187	KS89180B-2-2	1	0.012	-0.008	R	126	118
188	KS91W047-4-1	1	0.004	-0.003	R	121	110
189	HBK0935-73-11	1	0.019	-0.004	R	125	120
190	HBK0935-6-8	1	0.001	-0.001	R	126	120
191	HBK0935-29-15	1	1.938	-0.014	R	124	118
192	HBK0935-13-6	1	0.007	-0.003	R	125	118
193	HBK0935-13-11	1	0.021	-0.022	R	125	118
194	N86L177	1	0.006	-0.004	R	120	112
195	Slouxland	1	1.902	-0.015	MS	127	118
196	N95L11866	1	0.027	-0.004	R	124	115
197	N95L11867	4	0.003	0	R	122	112
198	N95L11869	4	1.955	-0.036	MS	123	117
199	N95L11873	3	1.876	-0.09	S	123	118
200	N95L11879	1	0.546	-0.215	S	122	112
201	N95L11880	4	1.854	-0.088	R	123	112
202	N95L11881	1	0.164	-0.014	MS	127	117
203	N95L11884	1	1.834	-0.054	R	124	115
204	KS95HW62-6	seg	1.965	-0.015	MS	123	118
205	KS95HW62-2	2seg	1.638	-0.031	R	125	118
206	KS95H101-1	3	1.961	-0.036	R	123	120
207	KS95H101-2	4	1.9	-0.003	R	122	120
208	KS95H129-3	4	1.732	-0.038	R	127	124
209	KS95H179-3	4	1.952	-0.009	R	125	115
210	KS96H127	4	1.882	-0.008	R	125	118

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
211	KS96H160	4	1.745	-0.117	R	126	123
212	KS96H163	4	1.84	-0.022	R	126	125
213	KS96H181	4	1.787	-0.047	R	124	115
214	KS96H182	4	1.808	-0.122	R	123	115
215	KS96H191	4	1.796	-0.044	R	124	122
216	KS96H192	4	1.941	-0.012	R	123	120
217	KS96H193	3	1.782	-0.033	R	123	.
218	KS96H206	1	0.916	-0.014	R	122	111
219	KS96H216	2	1.873	-0.042	R	123	115
220	KS96HW2	1	0.134	-0.005	R	127	124
221	KS96HW5	1	0.037	-0.002	R	129	120
222	KS96HW10	1	0.023	-0.002	R	123	117
223	KS96HW47	1	0.046	-0.012	R	125	115
224	KS96HW51	1	1.876	-0.033	R	125	112
225	KS96HW57	1	1.876	-0.009	R	122	112
226	KS96HW71	1	0.979	-0.031	R	122	116
227	KS96HW88	3	1.909	-0.051	R	123	122
228	KS96HW91	3	1.717	-0.025	MS	124	110
229	KS96HW94	1	1.667	-0.008	R	124	123
230	KS96HW100	1	0.069	-0.004	R	123	123
231	KS96HW114	1	0.05	-0.028	R	122	110
232	KS96HW115	1	0.016	-0.003	R	123	112
233	KS96HW116	1	0.628	-1.072	R	124	112
234	TAM-107	4	1.949	-0.034	R	121	117
235	KARL 92	1	1.723	-0.012	R	122	112
236	ARAPAHOE	4	1.859	-0.018	R	125	123
237	LOCAL CHECK-1	4	1.18	-0.223	R	123	115
238	LOCAL CHECK-2	1	0.172	-0.011	R	124	112
239	LOCAL CHECK-3	1	0.043	-0.001	R	126	112
240	KS93U10	1	1.946	-0.026	R	123	112

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
241	KS93U50	4	0.013	-0.002	R	127	118
242	KS93U76	1	1.379	-0.008	R	121	112
243	KS93U104	3	0.033	-0.015	R	124	120
244	KS93U109	4	0.015	-0.002	R	121	110
245	KS94U215	4	1.347	-0.014	MS	123	115
246	KS94U216	4	0.032	-0.009	MS	123	115
247	KS94U275	1	0.012	-0.006	R	124	117
248	KS94U290	1	0.018	-0.006	R	122	112
249	KS94U331-101	1	0.171	-0.012	R	123	112
250	KS94U331-102	1	0.867	-0.001	R	123	112
251	KS94U331-103	1	0.236	-0.007	R	122	112
252	KS94U337	4	1.074	-0.028	R	122	112
253	KS94U338	1ss	1.37	-0.005	R	121	112
254	KS94U370	2ss	1	-0.038	R	125	113
255	KS94U375	2ss	0.017	-0.007	R	123	113
256	KS94U408	3	0.02	-0.004	R	122	113
257	KS94U409	4	0.018	-0.005	R	123	111
258	KS94U410	3seg	1.072	-0.014	R	122	111
259	KS94U415	4	0.021	-0.009	R	126	111
260	KS94U424	4	1.003	-0.025	R	124	112
261	KS94U429	4	0.012	-0.003	R	124	112
262	KS95U522	4	1.108	-0.01	R	124	112
263	KS95U528	3	0.51	-0.041	R	124	111
264	KS95U536	3	1.206	-0.037	R	123	112
265	KS95U589	3	0.003	-0.003	R	124	112
266	N94L189	3	0.002	-0.002	R	129	125
267	N94L205	4	0.006	-0.002	S	127	125
268	N95S004	3seg	0.013	-0.009	R	125	118
269	N95S041	1	0.003	-0.004	R	129	124
270	N94L153	4	0.011	-0.015	S	125	120

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
271	N94L154	4	1.15	-0.103	S	124	120
272	N94L179	1	0.057	-0.017	R	130	124
273	N95L036	1	0.01	-0.006	R	125	123
274	N95L189	1	0.011	-0.006	R	127	125
275	N94V217	1	0.074	-0.021	R	124	116
276	N94V222	1	1.498	-0.027	R	123	118
277	N94V240	1	0.03	-0.007	R	127	112
278	N95V070	1	0.007	-0.012	R	125	112
279	N95V119	1	0.025	-0.007	R	125	112
280	N94L027	4	0.951	-0.034	MS	125	122
281	N94L028	3	1.034	-0.027	S	126	123
282	N96L1221	1	0.068	-0.044	R	123	125
283	N96L1223	1	0.012	-0.004	R	127	120
284	N96L1224	1	0.018	-0.007	R	127	127
285	N96L1225	1	0.017	-0.011	R	126	123
286	N96L1226	1	0.003	-0.003	R	129	129
287	N96L1229	1	0.012	-0.007	R	127	129
288	N96L1231	1	0.037	-0.009	R	127	122
289	TAM-107	4	1.065	-0.024	MS	121	109
290	KARL 92	1	0.119	-0.005	R	122	109
291	ARAPAHOE	4	1.015	-0.033	S	125	123
292	LOCAL CHECK-1	4	1.012	-0.041	R	123	111
293	LOCAL CHECK-2	1	1.299	-0.023	R	123	110
294	LOCAL CHECK-3	1	0.026	-0.01	R	125	110
295	NE95417	3	1.216	-0.033	S	125	120
296	NE95473	4	1.001	-0.051	S	125	122
297	NE95482	1	0.099	-0.013	MS	125	123
298	NE95489	4	1.016	-0.067	S	124	122
299	NE95509	4	1.037	-0.082	S	128	125
300	NE95510	1	0.15	-0.069	R	129	126

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
301	NE95536	seg	1.504	-0.061	MS	127	125
302	NE95537	1	1.429	-0.051	MR	127	125
303	NE95546	4	1.039	-0.057	R	127	120
304	NE95553	4	1.117	-0.039	S	125	115
305	NE95587	1	0.006	-0.004	R	125	122
306	NE95593	4	1.146	-0.041	S	128	118
307	NE95632	seg	1.102	-0.033	S	126	122
308	NE95656	4	0.947	-0.035	S	125	122
309	NE95686	4	1.027	-0.036	MS	124	122
310	N94L212	3	0.898	-0.007	MS	123	117
311	NE95518	4	0.973	-0.023	S	127	126
312	NE95683	4	0.892	-0.016	MS	125	122
313	NE95451	3seg	1.357	-0.069	R	125	124
314	NE95508	4	1.042	-0.012	MR	127	126
315	NE95520	4	1.158	-0.015	MR	132	134
316	NE92652	1	0.144	-0.007	R	127	125
317	SD89119	4	0.925	-0.026	R	127	126
318	SD89153	4	0.912	-0.044	MS	131	128
319	SD92107	4	0.984	-0.02	S	131	128
320	SD92191	4	0.98	-0.049	S	132	130
321	SD92227	4	0.96	-0.029	S	131	132
322	SD93267	4	0.935	-0.04	S	126	126
323	SD93336	4	1.061	-0.038	S	130	127
324	SD93364	4	0.961	-0.032	S	127	126
325	SD93380	4	1.073	-0.031	S	125	122
326	SD93500	4	0.982	-0.068	S	129	125
327	SD93110	4	1.058	-0.022	S	129	118
328	SD93113	4	0.992	-0.044	S	129	126
329	SD93195	4	1.076	-0.035	S	127	125
330	SD93320	1	0.211	-0.008	S	127	128

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
331	SD93338	4	1.474	-0.079	S	125	125
332	SD93342	4	1.34	-0.094	S	130	127
333	SD93430	4	1.416	-0.09	S	129	122
334	SD93439	4	1.276	-0.055	MS	130	127
335	SD93519	4	1.338	-0.015	MS	130	132
336	SD93522	4	1.264	-0.047	MS	130	130
337	SD93528	4	1.46	-0.068	R	126	126
338	SD94110	4	1.287	-0.041	MR	133	131
339	SD94113	1seg?	0.258	-0.008	R	129	128
340	SD94149	4	1.232	-0.057	S	127	125
341	SD94162	4	1.252	-0.055	MR	130	128
342	SD94173	4	1.239	-0.022	MR	126	125
343	SD94188	4	1.358	-0.015	R	127	127
344	SD94210	4	1.234	-0.009	R	125	122
345	SD94217	4	1.446	-0.051	R	123	115
346	SD94218	4	1.278	-0.01	R	126	120
347	SD94224	4	1.298	-0.029	R	131	127
348	SD94227	4	1.234	-0.011	R	127	127
349	SD94241	4	1.178	-0.021	R	132	128
350	SD94251	4	1.221	-0.014	R	129	125
351	SD94275	4	1.248	-0.006	R	122	125
352	TAM-107	4	1.187	-0.046	R	122	111
353	KARL 92	1	0.119	-0.017	R	123	111
354	ARAPAHOE	4	1.259	-0.002	R	126	120
355	LOCAL CHECK-1	4	1.402	-0.068	R	124	112
356	LOCAL CHECK-2	1	0.225	-0.012	R	125	111
357	LOCAL CHECK-3	1	0.091	-0.002	R	127	110
358	MT9431	4	1.18	-0.022	.	.	.
359	MT9432	4	1.255	-0.003	.	.	.
360	MT9441	4	1.161	-0.037	.	.	.

1997 Regional Germplasm Observation Nursery (Table 3 of 4)

Entry	Sel. No.	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus OSU, OK	SBM Virus KSU, St. John	Heading Date Texas A&M	Heading Date Texas A&M
		Field, Visual	ELISA	ELISA	Field rating	Bushland	Vernon
		1-4	Absorbance	S. Deviation	R-S	from 1/1	from 1/1
361	MT9523	4	1.359	-0.054	.	.	.
362	MT9524	4	1.273	-0.066	.	.	.
363	MT9526	4	1.203	-0.115	.	.	.
364	MT9602	4	1.348	-0.001	.	.	.
365	MT9402	4	1.254	-0.048	.	.	.
366	MT9403	4	1.25	-0.002	.	.	.
367	MT9513	4	1.446	-0.049	.	.	.
368	MT9409	4	1.325	-0.014	.	.	.
369	MT9426	4	1.161	-0.035	.	.	.
370	MT9601	4	1.112	-0.036	.	.	.
371	MTW9505	4	1.27	-0.037	.	.	.
372	MT9506	4	1.109	-0.021	.	.	.
373	MT9514	4	1.14	-0.05	.	.	.
374	MT9535	1	0.232	-0.005	.	.	.
375	MT9557	4	1.316	-0.005	.	.	.
376	MT9605	4	1.202	-0.016	.	.	.
377	MT9610	4	1.187	-0.006	.	.	.
378	MTW9617	4	1.022	-0.046	.	.	.
379	MT9620	3	1.205	-0.014	.	.	.
380	MT9621	4	1.081	-0.021	.	.	.
381	MT9623	4	1.178	-0.032	.	.	.
382	MTW9631	4	1.078	-0.022	.	.	.
383	MTW9633	1	1.464	-0.062	.	.	.
384	MTW9635	1	0.082	-0.014	.	.	.
385	MTW9636	1	1.232	-0.037	.	.	.
386	MT9640	1	1.141	-0.015	.	.	.
387	MT9658	seg	1.381	-0.133	.	.	.
388	TAM-107	4	1.137	-0.068	.	.	.
389	KARL 92	1	0.144	-0.012	.	.	.
390	ARAPAHOE	4	1.131	-0.018	.	.	.

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
1	TAM-107	60	9	-	-	-	-	-	-
2	KARL 92	50	9	-	-	-	-	-	-
3	ARAPAHOE	70	9	-	-	-	-	-	-
4	LOCAL CHECK-1	90	2	-	-	-	-	-	-
5	LOCAL CHECK-2	30	1	-	-	-	-	-	-
6	LOCAL CHECK-3	20	0	-	-	-	-	-	-
7	TAM-301	10	5	1	;	0	12	;	0
8	TX94D6183	10	5	0;	S	0	S	2=S	0
9	TX95D7552	10	4	0	2=	;1	0	;1N	1
10	TX95D8009	20	7	0	1	2-	0	2-	0
11	TX95D8696	20	7	2=	2=	2=	1	2=	1
12	TX93A9173	20	8	S	2=S	2=S	1+N	2,S	S
13	TX93V4315	20	4	0	;	2	;	2	;
14	TX93V4708	20	6	;	2=	2-	2=	2-	1
15	TX93V5717	10	3	1	;1	;1	;1	2=	;
16	TX93V6107	10	1	2=	2=	2=	2-	2-	2-
17	TX94V2323	10	7	0	2	;1	1N	;1N	2-
18	TX94V2906	20	6	S	S	S	S	S	S
19	TX94V2934	10	8	2=	2=	2=	0	2=	2=
20	TX94V3510	10	2	2=	2=	2=	0	2=	2=
21	TX94V3724	20	5	0	2=	2=	2=	2=S	2=
22	TX94V4524	5	6	;	2=S	2=	2=	2=,2	2-,S
23	TX94V4730	30	6	0	2=S	2=	0	2-,S	S,2-
24	TX94V4930	30	7	1	1	2=	0	2=	2=
25	TX94V5819	10	7	0	2=	;	;	2=	2=
26	TX94V5920	20	6	0	2=S	-	2=S	2-,S	2-,S
27	TX94V5922	20	7	;1-	1	-	-	2=S	;,S
28	TX94V5924	30	7	0	0	-	-	;	;
29	TX95V4923	20	5	0	2=	-	2=	2-	0
30	TX95V4930	20	8	0	2=	-	2=	2=	0

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
31	TX95V5127	30	7	2	S	-	-	2-	0
32	TX95V5314	50	7	2	S	-	;	2-	S
33	TX95V5730	20	9	1	2=	-	2=	2=	2=
34	TX95V5928	40	8	2=	2=	-	2=	2=	2-
35	TX95V6314	50	9	2,S	S,2=	-	2=	2=	0
36	TX95V6316	40	9	2	2	-	S	2	S
37	TX95V6338	15	7	0	2=	-	2=	2=	0
38	TX95V6428	50	6	;	S	-	S	S	S
39	TX95V6636	40	7	2=,2	2=,S	-	2=,2	2-	S
40	TAM-107	40	8	-	-	-	-	-	-
41	KARL 92	40	8	-	-	-	-	-	-
42	ARAPAHOE	40	9	-	-	-	-	-	-
43	LOCAL CHECK-1	60	3	-	-	-	-	-	-
44	LOCAL CHECK-2	50	4	-	-	-	-	-	-
45	LOCAL CHECK-3	30	5	-	-	-	-	-	-
46	TX96A0009	30	8	2=	2-	0	2=	2=	0
47	TX96A0016	15	8	2-	2=	0	2=	1	1
48	TX96A0018	30	9	;1N	2=	0	0	;	0
49	TX96A0025	30	8	0	-	2=	2=	2=	2=
50	TX96A0033	40	7	0	-	2	2	2	S
51	TX96A0039	50	7	2-	-	2=	2-	2-	2=
52	TX96A0126	40	5	2	-	2-	2+	2-	S
53	TX96A0183	30	4	0	0	0	;1	2=	2=
54	TX96A0200	80	9	0	0	2=,S	2-	2=,S	2-
55	TX96A0206	40	9	;	-	2=	2=	2=	2=
56	TX96A0211	60	8	0	-	S	S	S	S
57	TX96A0213	40	9	0	2	2,S	2-	S	2-
58	TX96A0223	40	9	0	2-	1	0	2=	2=
59	TX96A0226	40	9	0	2=	2=	2=	2=	2-
60	TX96A0230	60	8	0	2	2	2	2	S

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
61	TX96A0252	30	9	S	S	2+	S	S	S
62	TX96A0261	60	8	0	0	S	S	S	S
63	TX96A0263	40	9	0	S	S	-	S	S
64	TX96A0265	25	9	0	S	S	2	2	S
65	TX96A0273	50	9	0	2,S	2-	;1	2=	S
66	TX96A0278	50	5	2	S,2	2	S	2	0,S
67	TX96A0283	40	9	2-	S	2+	;	;1N	2+
68	TX96A0286	50	9	0	S	0	0	0	0,S
69	TX96A0288	10	4	0	2-	-	S	1	S
70	TX96A0290	10	9	2	2=	2=	2=	1	;,S
71	TX96A0347	20	9	2	S	S	S	0	S
72	TX96A0349	5	7	0	1	;1N	0	1	0
73	TX96A0350	20	9	2	S	2	0?	2	-
74	TX96A0369	30	8	2=	2	2	0	2	;
75	TX96A0390	10	7	1	2	2=	0	1	0
76	TAM-107	20	8	-	-	-	-	-	-
77	KARL 92	30	8	-	-	-	-	-	-
78	ARAPAHOE	50	9	-	-	-	-	-	-
79	LOCAL CHECK-1	60	3	-	-	-	-	-	-
80	LOCAL CHECK-2	70	4	-	-	-	-	-	-
81	LOCAL CHECK-3	50	4	-	-	-	-	-	-
82	G13020	40	9	1	;1N,2=	2	2-,S	2	2
83	G13024	50	9	0	;11+N	2	0	2	0
84	G14108	70	9	0	S	S	0	S	0
85	G14154	60	9	0	1N	2=	2-	2=	;
86	G14177	50	7	2=	2=	2=	2	2=	2-
87	G14264	40	9	0	S,2=	2	0	2	0
88	G14314	50	7	0	2	;1N	0	1N	;
89	G14393	30	5	;1,S	1	XN	XN	XN	S
90	G14420	50	8	2=	2	2,S	2	2-	S

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
91	G15015	50	8	;1N	1	;	0	;	2=
92	G15039	40	4	0	S	;1N,S	0	S	S
93	G15048	60	9	S	2=	S	S	S	S
94	G15016	60	7	;1	2	2	2-	2-	2
95	G15080	70	9	;1N,2-	S	;1N	0	;1N,2-	S
96	G15013	60	5	2-	2=	2	2-	2-	2-
97	G15018	60	9	0	S,2-	2=,S	S,2	2	0
98	G15098	50	9	0	2=	2+	2	2	0
99	G15037	60	9	;1	2=,S	2=	2	2=	0
100	G15011	60	9	0	-	2-,S	S,2-	2,S	0
101	STARS-2506	70	9	0,S	2=,S	2=,S	S,2=	2=,S	0
102	STARS-2511	60	9	2=	2=,S	2=,S	2=	2=,S	0?
103	ST-2521/2536	70	9	2=	2=	2=,S	2=	2=	;
104	ARAPAHOE	70	9	2=,S	2=	2=,S	2-	2=	0?
105	STARS-2542	60	9	XN	2=,S	;1N,S	2=,;1N	1	S
106	STARS-2550	50	9	S,2=	S	S,2=	2=,S	2,S	S
107	STARS-2562	50	9	2	2=,S	2-,S	2	2-,S	S
108	STARS-2569	50	9	1N,S	S	;1N,	;1N	S,;1N	S
109	STARS-2570	40	7	S	S,2-	S,2	S,2	2,S	S
110	STARS-2572	40	9	S	S,2=	S,2=	2,S	S,2-	S
111	STARS-WA167	0	1	S	S	S	S	S	S
112	STARS-WA169	0	0	0	S	-	S	S	S
113	STARS-WA183	0	1	S	S	S	S	S	S
114	STARS-WA186	0	1	S	0	S	S	S	S
115	STARS-WA241	1	1	S	S	S	S	S	S
116	STARS-WA260	0	0	S	S	S	S	S	S
117	TAM-107	50	8	-	-	-	-	-	-
118	KARL 92	50	9	-	-	-	-	-	-
119	ARAPAHOE	60	9	-	-	-	-	-	-
120	LOCAL CHECK-1	90	5	-	-	-	-	-	-

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
121	LOCAL CHECK-2	80	4	-	-	-	-	-	-
122	LOCAL CHECK-3	60	3	-	-	-	-	-	-
123	OK93617	40	8	2=	2=	2=	2-	2-	2
124	OK94P549	40	9	-	2+	2	2-	2	2
125	OK94P461	25	3	-	1	;1N,S	2-	1	0
126	OK95550	50	9	0	2=	;	;	;	1-
127	OK95567	40	8	2-	2=	2=	2=	2	S
128	OK95616	40	3	2-	2-	2-	2	2-	S
129	OK95617	40	5	0	2-	S	1	;1N	S
130	HBZ374C	40	8	0	S	11+N	2=	XN	S
131	OK93P735	25	7	2=	-	;1	-	1	-
132	OK91724	30	8	2=,S	S	S	S	S	-
133	OK95548	30	8	0	2=	1	1	2=	1
134	OK95592	20	6	2=	S	S	S	S	2
135	OK95639	20	8	1	2=	1	1	2	-
136	OK97G601	20	3	S	S		S	S	-
137	OK97G602	30	5	;1-	S,2=	S	S	2,S	S
138	OK97G603	30	5	1	S	S	S	S	S
139	OK97G604	40	5	S	S	2	S	S	S
140	OK97G605	50	2	S	S	2	S	S	S
141	OK97G606	25	3	0	S	XN	1	XN	S
142	OK97G607	20	5	;1-	2=	1-	1	1	2-
143	OK97G608	15	7	2=	2=	0	1	2=	2=
144	OK97G609	10	7	1	1	0	2=	2=	1
145	OK97G610	10	3	0	1	1	1	1	2-
146	OK97G611	30	6	S	S	S	S	S	S
147	CO930007	40	8	0	2=	;	-	;1-	2-,;
148	CO930250	40	8	0	1	;	-	2=	;
149	CO930334	30	9	1-	1	;	1	1	;
150	CO930449	30	9	2=	2=	2=	2=	2=	S,2

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival	Winter Survival	Stem rust QFCQ	Stem rust QTHJ	Stem rust RKRQ	Stem rust RTRQ	Stem rust RTQQ	Stem rust TPMK
		MSU, MT	UN-L, NE	ARS, MN	ARS, MN	ARS, MN	ARS, MN	ARS, MN	ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
151	CO930690	30	9	2=	2-	2-	-	2=	2
152	CO930738	30	7	S	2	0	-	S	S
153	CO930761	20	9	S	S	S	S	S	S
154	CO930908	20	9	1-	1	;1,S	1	;1-N	2=,S
155	CO930948	20	9	2=	2-	;	-	2=	2+
156	CO930015	30	7	2=	2=	0	-	2=	2-
157	CO940700	20	7	1-	12-	;1	S	S	S
158	CO940750	20	8	1	1	1	2-	2=	2-
159	TAM-107	40	9	-	-	-	-	-	-
160	KARL 92	30	9	-	-	-	-	-	-
161	ARAPAHOE	40	9	-	-	-	-	-	-
162	LOCAL CHECK-1	50	3	-	-	-	-	-	-
163	LOCAL CHECK-2	60	5	-	-	-	-	-	-
164	LOCAL CHECK-3	50	2	-	-	-	-	-	-
165	HBK0935-73-3	50	9	2-	-	-	2	2=	0
166	HBK0935-117-1	60	9	0	-	-	S	S	0
167	KS87024F-5-1	50	8	1	-	-	-	S	S
168	HBK0771-10	20	6	2	-	0	-	S	1
169	KS87436H-3-2-1	60	9	2=	1	-	2-	2=	S
170	KS90175-3	50	3	2=	1	-	2=	1	2=
171	KS91W009-6-1	40	6	;	S	-	-	S	;
172	HBK0630-4-5	30	3	2=	1	-	2-	0	2-
173	HBK0771-1-1	60	7	2=	2-	-	2	2-	2=
174	HBK0771-14-1	70	8	2=	S	-	S	S	2=
175	KS94U241	50	9	;1,2=	;1	-	1	1	;2=
176	HBK1157-3-1	40	8	2-	S	-	S	S	2
177	HBK1157-13-1	30	7	2=	S	-	S	S	2-
178	KS91015-C-1	30	8	2=,S	1	-	2=	1	2=
179	KS91015-C-6	40	6	1	2=	-	2=	;1	1
180	KS91022-D-6	40	3	1	1	-	2=	1	1

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type
		% Stand	0-9						
181	KS91048-F-2	20	5	;1	2=	-	S,1	1	S
182	KS91134-D-2	40	6	1	1	-	2=	1	2=
183	KS91043-B-2	40	4	1	2	-	S	S	S
184	KS91048-L-2	50	2	1	1	-	1	0	1
185	KS91096-D-2	30	9	2=,S	S	-	S	S	S
186	KS89180B-2-1	40	9	2=	2=	-	1	1	;1
187	KS89180B-2-2	40	8	1	1	-	1	1	1
188	KS91W047-4-1	20	1	;1	1	-	2=	2=	2=
189	HBK0935-73-11	50	7	2=	S	-	S	2	2-
190	HBK0935-6-8	20	7	2-,S	S	-	S,2-	S	S,2-
191	HBK0935-29-15	20	7	2=	S	-	S	S	2-
192	HBK0935-13-6	30	4	S	S	-	S	S	S
193	HBK0935-13-11	40	8	2-	S	-	S	S	2-
194	N86L177	40	8	-	S	;	2=	S	2-
195	Siouxland	40	9	-	2=	-	2=	-	-
196	N95L11866	50	7	0	S	-	-	S	2-
197	N95L11867	10	9	2=	1	1	-	1	-
198	N95L11869	10	8	2=	1	;	1-	2=	2=
199	N95L11873	30	9	-	2=	-	;	;1-N	2=
200	N95L11879	20	9	1	2=,S	-	1-	2=,S	-
201	N95L11880	10	9	2=	2=	2=	-	2=	2=
202	N95L11881	20	9	-	1	2=	2=	2=	2=
203	N95L11884	20	9	2-,S	2=	2=	2=,S	2=	S,2
204	KS95HW62-6	50	9	;	1	1	2=	2=	;1-
205	KS95HW62-2	30	9	;	2=	;1	2=	2=	;1-
206	KS95H101-1	30	7	;	2=	;	;1-N	;1-N	;1,2=
207	KS95H101-2	30	9	;1-	2=	;1-N	;1-N	;1-N	;1N
208	KS95H129-3	30	9	;1N	S	;1N	;1-N	;1-N	S
209	KS95H179-3	40	7	1N	1	;1-N	;1-N	;1-N	2=
210	KS96H127	20	8	;	2,S	;1	2=	2=	;

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
211	KS96H160	40	9	S,2-	1,S	S,2-	S	S	S,2=
212	KS96H163	30	5	;	1	;	;1-N	;	;
213	KS96H181	15	6	1	2=	1	1	1	2-
214	KS96H182	25	6	1	2=	2-	1	2=	S
215	KS96H191	40	9	1	2=	;1N	;1N	;1N	S,2=
216	KS96H192	15	9	1	2	;1N	1N	;1N	2-,S
217	KS96H193	25	9	1	2=	;1-N	;1-N	;1-N	2-,S
218	KS96H206	30	9	2=	2=	1	1-N	1	S
219	KS96H216	30	8	2=	2-	2-,;	0	2=	2-
220	KS96HW2	20	7	S,;	S	S,;	S,1	S,1	S
221	KS96HW5	10	9	1	1	1	2=	2=	2=
222	KS96HW10	10	9	1	1	1	2=	2=	2=
223	KS96HW47	30	9	2-,S	2	S	S	S	S
224	KS96HW51	30	5	2-	2	S	S	S	S
225	KS96HW57	40	9	2	2-	23	23	2-	2-
226	KS96HW71	40	9	1-N	2=	1	2-	2=	2-
227	KS96HW88	30	9	2-	2-	2=	2+	2=	S
228	KS96HW91	40	5	2-2	2-	12-N	S,XN	XN,S	S
229	KS96HW94	50	9	2,S	S	;12,S	2,S	2,S	S
230	KS96HW100	30	9	S	S	S	S	S	S
231	KS96HW114	50	8	2	2	S	S	S	S
232	KS96HW115	40	8	2,S	2	S	S	S	S
233	KS96HW116	50	5	2	2	S	S	2	S
234	TAM-107	40	8	-	-	-	-	-	-
235	KARL 92	20	9	-	-	-	-	-	-
236	ARAPAHOE	30	8	-	-	-	-	-	-
237	LOCAL CHECK-1	40	4	-	-	-	-	-	-
238	LOCAL CHECK-2	60	4	-	-	-	-	-	-
239	LOCAL CHECK-3	40	4	-	-	-	-	-	-
240	KS93U10	30	4	;	0	0	;1-N	0	0

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
241	KS93U50	20	9	;1	2=	;1N	;1	0	2=
242	KS93U76	30	9	1	2	;	;1	0	2
243	KS93U104	60	9	1	2	;	2,S	1	1
244	KS93U109	40	6	;	2-	0	;	0	0
245	KS94U215	50	9	;	2=	;	;	;	2-
246	KS94U216	50	9	;1	2=	;	;	;	2
247	KS94U275	20	6	2=	2-	;	S,1	S,2=	0
248	KS94U290	40	8	;1	2=	;	;,S	;	0
249	KS94U331-101	30	7	;1	2=,S	;	;1N	;	S
250	KS94U331-102	40	5	;	2	;	;	;	S,2-
251	KS94U331-103	30	6	;	2	;	;	;	0
252	KS94U337	40	6	;	2-	-	;	;	2=
253	KS94U338	50	9	;	2	;	;	;	2=
254	KS94U370	40	9	;1-	2-	;	;	;	2-
255	KS94U375	40	9	;	2=	;,S	;	;,S	S
256	KS94U408	40	5	;	2-	;	;	;1-	0
257	KS94U409	40	9	0	2-	;	;	;	2-
258	KS94U410	40	9	;	2=	;	;	;1N	2-
259	KS94U415	60	9	;	2=	1N	;	1	-
260	KS94U424	40	8	1	2=	;	;	;	-
261	KS94U429	10	7	;	2-	;	;1-	;	2=
262	KS95U522	10	6	2=	2-	;1N	;1	;	2
263	KS95U528	30	7	2=	S	S	S	S,2	2-
264	KS95U536	30	9	1	2=	2	2=	;1	0
265	KS95U589	20	9	;	2=	;	0	2	2
266	N94L189	20	7	0	1	S	1	S	S
267	N94L205	20	7	0	2=	;	;	2=	2
268	N95S004	10	8	;	S	2	0	2,S	S
269	N95S041	40	9	1-	-	;	0	2,S	2-
270	N94L153	30	9	0	0	0	;	;	S

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
271	N94L154	40	9	;	1	;	;	;	0
272	N94L179	60	8	;	S	S	S	2=S	2
273	N95L036	50	9	0	2=	2=,2	S,2=	2=	;
274	N95L189	40	9	;	2-,S	;1-N	;1-	;1	;
275	N94V217	60	9	1	2, -2	2-,S	2=	2=	S
276	N94V222	50	6	;	S	S,;1	;12-	S,2	;
277	N94V240	40	8	;	S	;1N	;12-N	2-2CN	S
278	N95V070	40	7	;	2-	2=,S	1	1	2=
279	N95V119	40	9	1	2=	1	2=	1	1
280	N94L027	60	9	;	2+	S	;1N,S	2-	;
281	N94L028	50	9	;	2-	2	S	2-	;
282	N96L1221	40	8	;	S	XN	XN	2-	;
283	N96L1223	40	9	;	2	;1-N	1	12-	;
284	N96L1224	30	6	;	2	;1-N	1	;1	;
285	N96L1225	40	9	1	2-	;1	;1	;1	-
286	N96L1226	40	9	;	2-	1	2=	;	;
287	N96L1229	50	9	;	2-	;1N	2=	;1	;
288	N96L1231	50	9	;	2	1	;1	;1	;
289	TAM-107	30	9	-	-	-	-	-	-
290	KARL 92	30	9	-	-	-	-	-	-
291	ARAPAHOE	40	9	-	-	-	-	-	-
292	LOCAL CHECK-1	70	4	-	-	-	-	-	-
293	LOCAL CHECK-2	50	4	-	-	-	-	-	-
294	LOCAL CHECK-3	40	3	-	-	-	-	-	-
295	NE95417	40	9	1	2=	;1N	2=	2=	2=
296	NE95473	30	9	1-	2=	S	2-,S	S	;
297	NE95482	40	9	2-	S	S	2=	2=	S,;
298	NE95489	40	9	;	2=	2-	2-	2=	2=
299	NE95509	40	9	;	1	2=	2=	2=	;
300	NE95510	40	9	;;2=	1	2-	2=	2=	;

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
301	NE95536	50	9	;	2=S	;1,S	2,S	2	-
302	NE95537	50	9	;	2=S	XN	;12-	;1	;
303	NE95546	40	9	;	2=	2-	2-	2=	;
304	NE95553	50	9	;	2=	2=	2=	;	S,2
305	NE95587	40	9	2-	2=	2,2=	2=	2=	2=
306	NE95593	50	9	-	2=	2=	2=	2=	2
307	NE95632	50	9	2,S	-	S	S	2	S
308	NE95656	40	9	;	2=	2	2-	1	2=,;
309	NE95686	50	8	S,;	2=S	S,2-	1	S,;	S,;
310	N94L212	40	7	S,2	2=S	S	S	S,2-	S,2
311	NE95518	50	9	;	1CN	;1N	;1	;	;
312	NE95683	50	8	;	1	1	S,1	;,2=	-
313	NE95451	50	9	2=	1	2=	S	1	2
314	NE95508	70	9	2=	1	2-,S	2	2=	2
315	NE95520	70	9	S	S	S	S	0	S
316	NE92652	40	8	2=	1	2	2	;	2-
317	SD89119	60	9	;	2=S	S	S,2	;	;
318	SD89153	60	9	-	2=	2	2=	1	S
319	SD92107	50	9	;	1	2-,S	2	;	;
320	SD92191	60	9	23	2	2	S	0	S
321	SD92227	30	9	2	S	S	S	S	S
322	SD93267	70	9	;	S	S	S	S	0
323	SD93336	70	9	;	S	S	S	S	;
324	SD93364	80	9	;	S	S	S	;1,S	0
325	SD93380	50	.	;	1CN	2-	2-	2=	;
326	SD93500	10	.	;	2	S	S	S	;
327	SD93110	70	.	-	2=	2=	2=	1	2=
328	SD93113	50	.	2-,;	;	;1	;1,2	-	S
329	SD93195	40	.	;	S	2+	S	S	;
330	SD93320	20	.	23	S	S	S	S	S

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival MSU, MT	Winter Survival UN-L, NE	Stem rust QFCQ ARS, MN	Stem rust QTHJ ARS, MN	Stem rust RKRQ ARS, MN	Stem rust RTRQ ARS, MN	Stem rust RTQQ ARS, MN	Stem rust TPMK ARS, MN
		Williston, ND % Stand	Mead, NE 0-9	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type	Seedling Rxn type
331	SD93338	20	.	;	S	S	S	S	;
332	SD93342	50	.	S	S	S	S	S	S
333	SD93430	40	.	;	S	S	S	S	;
334	SD93439	40	.	12N	1	2-	2-	2=	2-
335	SD93519	50	.	2-	1	S,2	2=,S	1,S	S
336	SD93522	60	.	;	1	S	2-	2=	;
337	SD93528	50	.	;	;1	1	0	;1-	-
338	SD94110	50	.	S	0	S	S	S	-
339	SD94113	50	.	S	0	0	0	0	-
340	SD94149	20	.	S	;	1	0	0	-
341	SD94162	50	.	.	.	.	.	.	.
342	SD94173	50	.	.	.	.	.	.	.
343	SD94188	50	.	.	.	.	.	.	.
344	SD94210	30	.	.	.	.	.	.	.
345	SD94217	40	.	.	.	.	.	.	.
346	SD94218	50	.	.	.	.	.	.	.
347	SD94224	60	.	.	.	.	.	.	.
348	SD94227	40	.	.	.	.	.	.	.
349	SD94241	50	.	.	.	.	.	.	.
350	SD94251	60	.	.	.	.	.	.	.
351	SD94275	30	.	.	.	.	.	.	.
352	TAM-107	30	.	.	.	.	.	.	.
353	KARL 92	40	.	.	.	.	.	.	.
354	ARAPAHOE	50	.	.	.	.	.	.	.
355	LOCAL CHECK-1	70	.	.	.	.	.	.	.
356	LOCAL CHECK-2	70	.	.	.	.	.	.	.
357	LOCAL CHECK-3	40	.	.	.	.	.	.	.
358	MT9431	60	.	.	.	.	.	.	.
359	MT9432	70	.	.	.	.	.	.	.
360	MT9441	50	.	.	.	.	.	.	.

1997 Regional Germplasm Observation Nursery (Table 4 of 4)

Entry	Sel. No.	Winter Survival	Winter Survival	Stem rust	Stem rust	Stem rust	Stem rust	Stem rust	Stem rust
		MSU, MT	UN-L, NE	QFCQ	QTHJ	RKRQ	RTRQ	RTQQ	TPMK
		Williston, ND	Mead, NE	Seedling	Seedling	Seedling	Seedling	Seedling	Seedling
		% Stand	0-9	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type	Rxn type
361	MT9523	50	.	.	.	.	.	.	.
362	MT9524	40	.	.	.	.	.	.	.
363	MT9526	50	.	.	.	.	.	.	.
364	MT9602	50	.	.	.	.	.	.	.
365	MT9402	60	.	.	.	.	.	.	.
366	MT9403	60	.	.	.	.	.	.	.
367	MT9513	60	.	.	.	.	.	.	.
368	MT9409	50	.	.	.	.	.	.	.
369	MT9426	50	.	.	.	.	.	.	.
370	MT9601	40	.	.	.	.	.	.	.
371	MTW9505	50	.	.	.	.	.	.	.
372	MT9506	50	.	.	.	.	.	.	.
373	MT9514	80	.	.	.	.	.	.	.
374	MT9535	60	.	.	.	.	.	.	.
375	MT9557	30	.	.	.	.	.	.	.
376	MT9605	30	.	.	.	.	.	.	.
377	MT9610	40	.	.	.	.	.	.	.
378	MTW9617	30	.	.	.	.	.	.	.
379	MT9620	40	.	.	.	.	.	.	.
380	MT9621	30	.	.	.	.	.	.	.
381	MT9623	30	.	.	.	.	.	.	.
382	MTW9631	50	.	.	.	.	.	.	.
383	MTW9633	40	.	.	.	.	.	.	.
384	MTW9635	40	.	.	.	.	.	.	.
385	MTW9636	70	.	.	.	.	.	.	.
386	MT9640	60	.	.	.	.	.	.	.
387	MT9658	50	.	.	.	.	.	.	.
388	TAM-107	20	.	.	.	.	.	.	.
389	KARL 92	30	.	.	.	.	.	.	.
390	ARAPAHOE	50	.	.	.	.	.	.	.

