UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE

in cooperation with

STATE AGRICULTURAL EXPERIMENT STATIONS

COMPARISON OF WINTER WHEAT VARIETIES GROWN IN COOPERATIVE NURSERY EXPERIMENTS IN THE HARD WINTER WHEAT REGION IN 1995

C. J. Peterson
Research Agronomist

This is a joint progress report of cooperative investigations under way in the State Agricultural Experiment Stations and the Agricultural Research Service of the U. S. Department of Agriculture containing preliminary data which have not been sufficiently confirmed to justify general release. Interpretations may be modified with additional experimentation. Confirmed results will be published through established channels. The report is primarily a tool for use of cooperators and their official staffs and for those persons having direct and special interest in the development of agricultural research programs.

The report includes data furnished by the State Agricultural Experiment Stations as well as by the Agricultural Research Service and was compiled in the Northern Plains Area, U. S. Department of Agriculture. The report is not intended for publication and should not be referred to in literature citations nor quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved.

Lincoln, Nebraska
January, 1997

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
NORTHERN PLAINS AREA

COMPARISON OF WINTER WHEAT VARIETIES GROWN IN COOPERATIVE NURSERY EXPERIMENTS IN THE HARD RED WINTER WHEAT REGION IN 1995

By

C. J. Peterson
Research Agronomist

CONTENTS

The writer expresses appreciation to Dick Samson and Joyce Kovar for their assistance in preparing this report.

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

AGRICULTURAL RESEARCH SERVICE, U.S.D.A.:	
Hard Red Winter Wheat Regional Program	C. J. Peterson*
Hard Red Winter Wheat Quality	O. K. Chung*
	G. Lookhart*
Hessian Fly Investigations	J. Hatchett*
Stem Rust Investigations	D. V. McVey*
TEXAS AGRICULTURAL EXPERIMENT STATION:	
College Station, Texas A&M University	
Soil and Crop Science	L. W. Rooney
Dallas	
TAMU Research and Extension Center	D. S. Marshall
	R. Sutton
Chillicothe	
TAMU Agricultural Research Station	W. D. Worrall
	S. Caldwell
Bushland	
U.S.D.A. Southwestern Great Plains Research Center	M. Lazar
	G. Peterson
NEW MEXICO AGRICULTURAL EXPERIMENT STATION:	
Clovis	
Plains Branch Station	R. D. Baker
	C. Bishop
Farmington	
San Juan Branch Station	E. J. Gregory
OKLAHOMA AGRICULTURAL EXPERIMENT STATION:	
Stillwater, Oklahoma State University	
Agronomy	E. L. Smith
	D. Porter*
	A. Guenzi
	B. F. Carver
	G. H. Morgan
	D. Jones
Botany and Plant Pathology	R. M. Hunger
Entomology	J. A. Webster*
	D. Porter*
	C. Baker*
Lahoma	
North Central Research Station	R. J. Sidwell

Goodwell	Panhandle Experiment Station	E. L. Smith
		G. H. Morgan
		D. Jones
Altus		
	Irrigation Experiment Station	R. Thacker

IOWA AGRICULTURAL EXPERIMENT STATION:

Ames, Iowa State University		
	Agronomy	J. Holland
		R. Skrdla

KANSAS AGRICULTURAL EXPERIMENT STATION:

Manhattan, Kansas State University		
	Agronomy	R. G. Sears
		T. S. Cox*
		C. Roozeboom
		G. M. Paulsen
	Entomology	J. Hatchett*
Hays		
	Ft. Hays Experiment Station	T. J. Martin
Garden City		
	Garden City Experiment Station	M. D. Witt
Colby		
	Colby Experiment Station	P. Evans
Hutchinson		
	South Central Experiment Field	W. F. Heer

COLORADO AGRICULTURAL EXPERIMENT STATION:

Ft. Collins, Colorado State University		
Agronomy		J. S. Quick
		J. Stromberger
		S. Clayshulte
		B. Clifford
Akron, Julesberg, Burlington,		
and Walsh nursery test sites		J. S. Quick
		J. Stromberger
		S. Clayshulte
		B. Clifford

NEBRASKA AGRICULTURAL EXPERIMENT STATION:

Lincoln, University of Nebraska		
	Agronomy	P. S. Baenziger
		C. J. Peterson*
		D. R. Shelton
		R. C. French*
		R. Graybosch*

North Platte	
North Platte Station	P. T. Nordquist
Alliance	
Northwest Ag. Laboratory	D. Baltensperger
Sidney	
High Plains Agricultural Laboratory	T. Nightengale
Clay Center	
South Central Station	P. S. Baenziger

WYOMING AGRICULTURAL EXPERIMENT STATION:

University of Wyoming, Division of Plant Science	
Torrington Substation	J. Krall
	J. Nachtman
Cheyenne	
Archer Substation	J. Krall
	R. Hybner

SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION:

Brookings, South Dakota State University	
Plant Science	S. Haley
	R. A. Schut
Highmore	S. Haley
Presho	S. Haley
	C. Stymiest
	H. A. Geise

NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION:

Fargo, North Dakota State University	
Agronomy	J. Anderson
Williston	
Williston Branch Station	N. R. Riveland
Hettinger	
Hettinger Branch Station	J. Anderson
	E. Eriksmoen
Carrington	
Carrington Branch Station	J. Anderson
	B. G. Schatz

MONTANA AGRICULTURAL EXPERIMENT STATION:

Bozeman, Montana State University	
Plant and Soil Science	P. Bruckner
	R. L. Burrows
	J. Berg
Moccasin	
Central Agricultural Research Center	D. M. Wichman

Sidney	
Eastern Agricultural Research Center	J. W. Bergman
	J. L. Eckhoff
IDAHO AGRICULTURAL EXPERIMENT STATION:	
Aberdeen	
Aberdeen Branch Station	E. J. Souza
WASHINGTON AGRICULTURAL EXPERIMENT STATION:	
Lind	
Dry Land Research Unit	E. Donaldson
MINNESOTA AGRICULTURAL EXPERIMENT STATION:	
St. Paul, Institute of Agriculture	
Agronomy and Plant Genetics	R. H. Busch*
Waseca	
Southern Experiment Station	R. H. Busch*
	W. E. Lueschen
ILLINOIS AGRICULTURAL EXPERIMENT STATION:	
Urbana, University of Illinois	
Plant Pathology	C. Gregerson*
MISSOURI AGRICULTURAL EXPERIMENT STATION:	
Columbia, University of Missouri	
Field Crops	A. McKendry
	P. Rowoth
CANADA DEPARTMENT OF AGRICULTURE:	
Lethbridge	
Canada Agricultural Research Station	J. Thomas

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

The Kansas Agricultural Experiment Station announced the release of '2137' hard red winter wheat. 2137 was tested in the 1994 and 1995 SRPN as KS92P0263-137 and has been proposed to replace the variety '2163'. It has the pedigree 'W2440/W9488A//2163'. 2137 is similar to 2163 in disease and insect reactions except that 2137 has improved leaf rust resistance. It also has a 2.5 lb/bu test weight advantage over 2163 and 1% increase in flour yield. 2137 is 1 to 2 inches taller and 1 day later in heading than 2163. 2137 appears best adapted to central, northcentral, and western Kansas.

The Nebraska Agricultural Experiment Station and USDA-ARS announced the release of 'Pronghorn' (PI593047) hard red winter wheat. Pronghorn is an F3 derived line from the cross 'Centura/Dawn//Colt sib' and was tested in the WPRPN in 1993 and 1994 as NE88584. Pronghorn was released primarily for its superior adaptation to drought-prone dryland conditions of western Nebraska and Wyoming and its stem rust resistance. Pronghorn is 3 cm shorter than Buckskin and 6 cm taller than Arapahoe with long coleoptile, similar to Scout 66. Pronghorn is 1 day earlier than Buckskin and 1.5 days earlier than Arapahoe. It possesses Sr6 and Sr17 for resistance to stem rust, is moderately susceptible to leaf rust, and is susceptible to Hessian fly, SBMV, and WSMV. Pronghorn has high test weight patterns, similar to Buckskin and Siouxland. Its quality attributes are acceptable with mixing properties similar to Buckskin and stronger than Arapahoe.

The Montana Agricultural Experiment Station announced the release of 'Vanguard' (PI593891) hard red winter wheat. Vanguard is an F5 selection from the cross 'Lew/Tiber//Redwin' and was tested in the 1995 NRPN as MTSF2238. Vanguard was released for its tolerance to feeding and cutting damage caused by the wheat stem sawfly (Cephus cinctus Norton). Vanguard expresses a high degree of stem solidness over environments. Vanguard is similar in plant height to Judith and Neeley and heads about 1 day later than Rocky and 3-4 days earlier than Neeley. It has marginal winterhardiness for Montana conditions, having similar or slightly lower hardiness than Neeley and Rocky. Vanguard is susceptible to prevalent races of stem rust, leaf rust, stripe rust, dwarf bunt, and Russian wheat aphid and has shown tolerance to WSMV under field conditions. Grain and flour protein is similar to Redwin, superior to Neeley and Rocky, with relatively long mixing time and high dough stability.

Agripro Seeds, Inc., announced the release of 'AP7501', 'AP7510', and 'AP7601' hybrid hard red winter wheats; 'Platte' and 'Solomon' hard white winter wheats; and 'Big Dawg' hard red winter wheat. The AP7501 hybrid

was tested in the 1995 SRPN under that same designation. AP7510 was tested in the 1995 and 1996 SRPN under the experimental designation WX92-0408. AP7601 was not tested in the SRPN. Platte is a hard white wheat derived from the cross 'N84-1104/Abilene' and was tested in the 1995 SRPN as WI89-163W. Solomon is also a hard white wheat and was not tested in the Regional Performance trials. Big Dawg is derived from a bulk selection and was tested in the 1996 SRPN under the experimental designation W93-460.

GERMPLASMS

The USDA-ARS and Kansas Agricultural Experiment Station announced the release of KS95WGRC33 hard red winter wheat. KS95WGRC33 has resistance to Septoria leaf blotch (caused by Septoria tritici Roberge ex Desmaz.) under both seedling inoculation and field conditions. It has the pedigree KS93U69*2/TA2397, where KS93U69 is a sister line of KS90WGRC10 with the pedigree TAM-107*3/TA2460. TA2397 and TA2460 are both accessions of Triticum tauschii. The leaf blotch resistance of KS95WGRC33 is derived from TA2397 and it carries the Lr41 gene for leaf rust resistance derived from TA2460. KS95WGRC33 is similar to TAM-107 in days to heading, plant height, and general phenotype. The genetic basis of its leaf blotch resistance has not been determined.

Regional Notes

The 1995 Hard Red Winter Wheat Breeders Field Day was held in May at Hutchinson, KS, hosted by Kansas State University and USDA-ARS wheat researchers. The 1996 Breeders Field Day is scheduled for June at Ft. Collins, CO, hosted by researchers from Colorado State University and Agripro Seeds.

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

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

1995

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**	IL71-5662/PL145//2165	HBZ374C	Oklahoma
5*	2555 sib/Vona//2180	OK91P648	"
6*	HBY250A/HGF004	OK93P735	"
7*	W0405D/HGF112//W7469C/HGF012	OK93P656	"
8*	SGC008/W1060B//HBY242G2	OK93P727	"
9*	Pro 812/Caldwell//TX86D1310	TX91D6913	Texas
10*	TX86D1310/Kavkaz//TX86D1308	TX91D6991	"
11	TX81V6603/TX78A3345-V34	TX90V6313	"
12	Brule//Buc 's'/Bjy 's'/3/TX78V3924-5-3	TX92V4135	"
13	HRE LT-11(OR)/4/Homestead/3/Ctk// IN4946A4-18-2-/MOW7470	HBE0726-1	"
14*	TAM-200/Karl	TX92V3108	"
15*	WVE047*2180/2157*HGE013	HBI0531-A2	"
16*	TX85V1830/TX84V1307	TX93V5919	"
17*	TX85V1830/TX84V1307	TX93V5922	"
18*	TX87V1913/TAM-200	TX93V4927	"
19*	OK82377/TX81V6603-2	TX92V2519	"
20*	TAM-200/TAM-107	CO890323	Colorado
21*	Harpool Sel./Sandy	CO900166	"
22	W2440/W9488A//2163 (2137)	KS92PO263-137	Kansas
23**	TAM-107*3/TA2460	KS93U206	KS, USDA
24*	HF5761/TAM-105//Bounty Hybrid 203	KS91H153-2	Kansas
25*	KS831936-3//Colt/Cody	N93L058	NE, USDA
26	NE82671/NE80413	NE91651	Nebraska
27*	Bennett/Brule Composite	NE90476	"
28*	OK83201/Redland	NE92458	"
29*	Centura/RL820003	NE92614	"
30*	NE82413/Colt	NE92646	"
31**	Quantum Hybrid Wheat	XH1706	HybriTech
32*	" "	XH1752	"
33*	" "	XH1778	"
34*	" "	XH1798	"
35*	854552#3/Mesa sib (Rowdy)	W91-091	AgriPro
36*	W85-084/W85-225 (Coronado)	W91-287	"
37*	AgriPro Seeds Hybrid Wheat (AP7501)	AP 7501	"
38*	AgriPro Seeds Hybrid Wheat (AP7510)	WX92-0408	"
39*	N84-1104/Abilene (Platte)	WI89-163W	"
40*	Victory sib/2165	WI90-540W	"
41*	W81-133-2/Rio Blanco (Oro Blanco)	W88-2619W	"
42*	Coker 68-15/TAM-107	T702	Trio
43*	T213 sib *2/TAM-107	T834	"
44*	TAM-107/T213 sib	T812	"
45*	TAM-107/Caldwell	T861	"

* New Entry; ** New Seed Provided

Test Site Information - SRPN

Clovis, NM -- The irrigated nursery was planted on 9/20/94 in fallow land that was in sorghum during 1992. Plots were irrigated on 9/17/94, 9/22/94, 1/11/95, 3/24/95, 4/18/95, 5/24/95, and 6/2/95. Fertilizer rates consisted of 180 lbs/a N and 30 lbs/a P_2O_5. Seeding rate was 90 lbs/a. Harvested on July 6, 1995. The dryland nursery was planted on 9/15/94 at a rate of 40 lbs/a. Fertilizer rates were 6 lb/a N and 30 lb/a P_2O_5. Harvested on June 23. Wheat yields were lower than last year due to lack of winter moisture and freeze damage (low of 19 degrees) which occurred on April 11.

Farmington, NM -- Planted on 9/9/94 at a seeding rate of 100 lbs/a with 160 lbs/a N applied. Lorsban was applied on April 13 for control of Russian wheat aphid. Harvested on 8/1/95.

Bushland, TX -- No additional information.

Chillicothe, TX -- The nursery was not harvested due to excessive rains.

Prosper, TX -- No additional information.

Stillwater, OK -- Fair stands were obtained. There were problems associated with SBMV, BYDV, leaf rust, root rot, head blight, possible damage from a spring freeze, and excessive rains from heading to harvest; all of which combined to lower production potential.

Altus, OK -- Stands were somewhat thin with evidence of fall drought stress and little growth during fall and winter. Leaf rust was a problem and there was excessive rainfall in the spring. Production was better than anticipated.

Lahoma, OK -- Stands were thin, but uniform. There was very little growth during fall and winter and perhaps some freeze damage on April 10/11. Problems were associated with excessive rainfall in the spring, including leaf rust, septoria spot blotch, tan spot, root rot, and BYDV.

Goodwell, OK (irrigated) -- Good stands were established and there was good growth during fall and winter. Winter temperatures were mild with lush growth in the early spring. Freeze damage occurred on March 6/7 and April 10/11 which reduced yields by 50%. Some leaf rust and BYDV was present.

Hutchinson and Manhattan, KS -- Both sites had good stands and excellent plant development through a warm winter. Excessive rains after Feekes 10.5 caused both trememdous disease pressure (leaf rust, Septoria complex) and saturated soils. BYDV also was heavier than normal. The interaction of diseases with high temperature stress reduced yields to some of the lowest recorded in the last 25 years. Hutchinson was planted on 10/14/94, fertilized with 85 lbs/a N and 25 lbs/a P in the fall, topdressed with 30 lbs/a N, and harvested on 7/3/95. Manhattan was planted on 10/20/94, fertilized with 85 lbs/a N and 25 lbs/a P in the fall, topdressed with 50 lbs/a N, and harvested on 6/29/95.

Hays, KS -- No additional information.

Garden City, KS -- No additional information.

Colby, KS -- No additional information.

Colorado Sites -- The Walsh site was lost due to severe frost damage.

Clay Center, NE -- The nursery was located on a sustainable farm site at DeWeese. The rotation was alfalfa followed by spring oats then winter wheat. The ground was well prepared in the fall with above average moisture in the spring. Plots were thin and could have used fall applied N. The site was on the edge of a severe moisture-induced disease area. Later lines and disease resistant lines were favored.

North Platte, NE -- The rotation follows an ecofallow system of corn, spring fallow, winter wheat, and fall fallow. The nursery was dry at planting, but had adequate moisture. There was very good moisture during grain fill and a high fertility carry-over led to severe lodging in some lines. Lines with good straw strength were favored.

Sidney, NE -- The rotation used was sunflowers, spring fallow, then winter wheat. The nursery was dry at planting, but received very timely rains throughout the growing season. Some lodging occurred, but less than at North Platte. An exceptional nursery for western Nebraska.

Hemingford, NE -- Planted on wheat-fallow-wheat rotation. The nursery was very dry at planting with no prior ground cultivation. Some parts of the nursery were severely infested with cheat and other annual weeds, but the regional trials were mostly weed free. The nursery finished under very hot and dry conditions and yields exceeded expectations.

South Dakota stations -- Conditions were highly variable. The Dakota Lakes (Pierre) site had excessive and early lodging. Wet spring weather prevented timely herbicide applications at Aurora, leading to excessive weed pressure. The nursery at Winner had pressure from BYDV and tan spot and high temperatures at heading and during grain fill.

Columbia, MO -- Planted 10/11/94 and harvested on 7/13/95. Rains delayed harvest and reduced test weights.

Lind, WA -- The NRPN and SRPN were seeded on 9/12/94 at a rate of 30 lbs/a with 50 lbs/a N applied. Four inches of water were applied due to extremely dry soil conditions. The winter was mild and spring unusually wet. A heavy outbreak of rust occurred at the start of heading. The SRPN was harvested on 7/12/95 and NRPN on 7/17/95. Much of the NRPN yield data was lost due to a computer malfunction.

Urbana, IL -- Excellent BYDV symptoms were brought on by warm fall weather and late entry into dormancy. Stunting and BYDV symptoms were observed in late November, which is rare. The winter was mild followed by a wet spring, which caused some powdery mildew and head scab problems. Overall, the wheat looked very good, so additional data was collected on plant height, seed weight, and seed number on inoculated plots and healthy controls.

Table 1. Yield and agronomic data for 45 wheats in the Southern Regional Performance Nursery in 1995.

CLOVIS (IRR.) NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX91D6913	9	2630	72.4	64	121
TX93V4927	18	2408	73.4	56	121
TX93V5919	16	2359	73	64	116
HBE0726-1	13	2309	72.7	67	118
HBI0531-A2	15	2228	72.7	59	111
KS92PO263-137	22	2129	71.1	69	120
TX92V4135	12	2014	73.8	61	117
W91-287	36	2006	74.2	65	112
TX93V5922	17	1941	74.3	69	113
XH1752	32	1941	73.1	67	112
WI89-163W	39	1792	74.8	60	120
KS91H153-2	24	1738	74.2	58	114
XH1798	34	1731	72.9	61	114
OK93P656	7	1658	74	62	118
T702	42	1654	72.3	63	115
TX91D6991	10	1554	72.5	60	115
OK91P648	5	1535	71.6	49	115
HBZ374C	4	1532	73	64	120
AP 7501	37	1474	71.6	63	114
WI90-540W	40	1455	73	50	120
NE90476	27	1451	73.1	60	114
TX92V2519	19	1428	72.6	53	114
OK93P727	8	1413	73.6	62	117
XH1778	33	1401	73.4	53	112
CO890323	20	1386	73.7	64	117
WX92-0408	38	1375	72.3	58	115
NE92646	30	1371	72.2	63	118
OK93P735	6	1352	73.7	58	119
NE92458	28	1313	73.3	65	116
TX90V6313	11	1302	73.9	48	115
CO900166	21	1286	74.5	61	117
XH1706	31	1260	72.9	58	116
NE91651	26	1229	69.8	63	112
KHARKOF	1	1179	73.7	74	117
SCOUT66	2	1175	73.4	56	119
NE92614	29	1145	73.7	64	120
T812	44	995	69.7	49	116
TX92V3108	14	973	73.7	58	117
W88-2619W	41	969	71.4	58	117
W91-091	35	934	70.4	58	116
TAM-107	3	881	73.9	52	112
T834	43	877	71.1	62	119
N93L058	25	838	71.7	54	115
T861	45	789	72	55	117
KS93U206	23	773	73.5	58	114
MEAN		1493			
LSD(.05)		797			
C.V.		32.7			

CLOVIS (DRYL.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
T702	42	471	69.1	27	123
TX91D6913	9	389	62.8	27	123
OK93P735	6	384	62.7	25	125
CO900166	21	341	61.5	28	126
XH1706	31	309	55.3	25	123
NE92614	29	299	53.4	29	128
SCOUT66	2	291	51.9	32	121
KHARKOF	1	275	44.6	36	129
TX93V5922	17	273	48.1	31	124
CO890323	20	257	44.8	23	122
XH1752	32	254	20.3	25	123
WI89-163W	39	249	45.5	24	127
TX90V6313	11	227	41.9	24	128
KS92PO263-137	22	226	51.1	26	129
HBI0531-A2	15	219	41	23	124
NE91651	26	218	40.2	27	124
TX93V4927	18	211	37.5	19	119
OK93P656	7	208	38.3	24	123
TX93V5919	16	207	34.3	23	128
OK91P648	5	206	28.8	23	124
HBE0726-1	13	197	37.8	24	125
W88-2619W	41	197	35.6	25	129
TAM-107	3	194	36.9	25	123
TX92V2519	19	191	36.4	23	119
T834	43	186	32.3	25	123
NE92458	28	180	33.4	26	127
OK93P727	8	174	31.2	27	125
NE92646	30	167	31.7	22	125
WX92-0408	38	167	30.2	29	122
TX92V4135	12	152	26.3	23	125
KS93U206	23	152	25.4	25	122
T812	44	151	28.6	25	124
XH1798	34	150	27.9	24	123
TX92V3108	14	149	27.6	26	124
W91-091	35	145	26.8	22	124
TX91D6991	10	143	27.3	23	126
N93L058	25	142	27.2	21	126
W91-287	36	140	25.8	24	127
XH1778	33	126	21.2	23	124
NE90476	27	117	22.4	21	128
KS91H153-2	24	116	20.1	19	127
AP 7501	37	113	20.5	25	120
T861	45	100	18.6	25	123
HBZ374C	4	88	14.2	21	129
WI90-540W	40	56	9.3	20	128
MEAN		205			
LSD(.05)		146			
C.V.		43.7			

FARMINGTON

NEW MEXICO

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %
OK91P648	5	8509	72.6	85	1
HBE0726-1	13	8307	73.9	87	5
T702	42	8158	76.5	83	6
W88-2619W	41	8115	77.4	86	0
TX93V5922	17	8087	76.5	99	0
W91-091	35	8050	74.6	88	23
TX91D6913	9	7952	74.2	91	14
XH1798	34	7930	74.2	86	23
AP 7501	37	7820	74.6	86	0
TX91D6991	10	7803	72.9	89	24
W91-287	36	7657	74.6	86	16
XH1706	31	7607	75.2	89	18
TX93V5919	16	7589	75.2	90	21
KS92PO263-137	22	7582	75.2	91	0
WX92-0408	38	7460	75.2	87	0
XH1752	32	7420	74.2	90	18
OK93P727	8	7158	74.8	91	8
WI89-163W	39	7120	76.8	81	0
OK93P735	6	7088	74.2	84	0
NE92458	28	7021	74.6	91	15
TX92V4135	12	7004	73.9	91	13
HBZ374C	4	6947	74.2	91	20
XH1778	33	6881	74.2	86	10
NE92614	29	6768	74.8	91	41
NE92646	30	6716	74.8	86	5
TX92V2519	19	6712	76.5	86	4
HBI0531-A2	15	6702	71.3	80	0
OK93P656	7	6686	76.1	90	5
N93L058	25	6657	72.6	85	0
TX90V6313	11	6622	74.2	87	24
NE91651	26	6567	72.6	91	8
CO900166	21	6533	74.8	85	55
CO890323	20	6496	76.8	89	71
WI90-540W	40	6311	74.6	86	15
T834	43	5968	73.9	91	20
TX93V4927	18	5762	74.6	80	32
T812	44	5651	74.6	91	25
T861	45	5588	74.6	91	1
TX92V3108	14	5573	75.9	88	6
NE90476	27	4877	73.5	95	9
KS93U206	23	4866	74.6	89	1
TAM-107	3	4704	74.8	90	1
KS91H153-2	24	4590	75.2	84	28
KHARKOF	1	4360	72.6	95	43
SCOUT66	2	4231	73.9	100	40

MEAN	6760
LSD(.05)	1129
C.V.	11.9

BUSHLAND (IRR.)

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	DAYS TO FLOWER FROM 1/1
XH1706	31	6622	79.9	79	121	123
HBE0726-1	13	6602	78.3	71	125	125
WI89-163W	39	6517	81.3	71	126	129
HBI0531-A2	15	6330	80	68	122	122
T834	43	6218	80	78	124	125
XH1778	33	6194	79.1	71	122	122
XH1798	34	6191	80.1	73	120	119
OK91P648	5	6075	78.4	62	122	124
T702	42	5985	81.4	71	122	125
CO890323	20	5936	82	71	118	118
XH1752	32	5855	80.2	76	124	125
TX91D6913	9	5853	77.3	79	126	129
OK93P656	7	5849	79.3	71	120	122
TX92V3108	14	5808	81.5	73	120	122
KS91H153-2	24	5790	80.1	74	124	126
WX92-0408	38	5768	80.4	70	123	123
KS93U206	23	5754	78.3	70	117	118
TX92V4135	12	5752	79.3	73	121	122
T812	44	5750	81	71	118	121
TX91D6991	10	5739	77.9	68	123	122
TX93V5922	17	5725	80.2	74	123	125
OK93P735	6	5723	80.5	66	126	126
AP 7501	37	5714	80.5	75	124	126
KS92PO263-137	22	5696	79.5	76	124	126
W91-091	35	5667	79.3	71	121	122
W91-287	36	5660	79.5	72	120	122
HBZ374C	4	5602	80.2	69	125	126
TX90V6313	11	5597	79.9	67	120	121
CO900166	21	5580	79.9	70	122	122
NE90476	27	5564	78	74	124	125
TX93V4927	18	5539	80.8	70	118	119
TX93V5919	16	5510	81.8	76	125	125
NE92458	28	5508	78.3	73	123	125
TX92V2519	19	5503	80.4	66	119	121
NE92646	30	5454	77.4	78	126	128
W88-2619W	41	5449	81	71	124	126
N93L058	25	5418	77.7	69	121	122
NE91651	26	5243	76.8	73	121	122
OK93P727	8	5225	80.4	75	123	124
SCOUT66	2	5073	79.1	87	124	125
TAM-107	3	5026	79.6	66	118	119
NE92614	29	4867	80	81	125	126
WI90-540W	40	4855	77.9	66	119	122
T861	45	4820	78.8	71	119	121
KHARKOF	1	3389	78	112	131	132

MEAN	5644
LSD(.05)	700
C.V.	7.6

BUSHLAND (DRYL.)

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	DAYS TO FLOWER FROM 1/1
TX91D6913	9	1874	72.1	47	119	120
KHARKOF	1	1502	74.2	59	125	125
T702	42	1430	75.9	43	113	115
CO900166	21	1235	74.8	43	117	120
XH1706	31	1154	74.2	42	115	114
TX93V4927	18	1148	74.4	39	111	111
NE92614	29	1047	73.9	41	118	119
SCOUT66	2	1029	74.8	47	118	120
XH1752	32	1024	72.1	44	115	116
CO890323	20	1013	76.4	42	116	116
KS92PO263-137	22	1013	72.4	43	117	120
OK93P735	6	1004	70.2	36	119	121
TX93V5919	16	995	73.3	44	120	125
KS91H153-2	24	926	75.1	38	118	121
W88-2619W	41	865	74.6	38	118	121
WI89-163W	39	843	74.9	41	119	120
NE92646	30	827	72.6	41	119	121
NE92458	28	771	73.1	47	116	119
HBI0531-A2	15	767	73.9	38	117	119
NE90476	27	758	73.3	37	116	116
TX91D6991	10	751	71.9	39	117	120
OK93P656	7	720	73.9	40	112	111
OK91P648	5	715	70.3	34	113	112
TX92V2519	19	715	74.3	38	110	109
TX93V5922	17	711	73.5	46	117	120
HBZ374C	4	684	72.4	39	119	121
NE91651	26	677	70.8	42	114	116
T834	43	677	70.4	49	116	116
HBE0726-1	13	676	70.4	42	118	120
WX92-0408	38	659	72.4	41	115	114
XH1778	33	628	74.4	36	116	116
W91-287	36	621	73.3	39	116	115
OK93P727	8	614	72.9	40	122	122
W91-091	35	572	72.4	39	112	116
AP 7501	37	536	72.1	42	116	114
TX90V6313	11	525	70.6	37	123	126
TAM-107	3	520	74.3	39	110	112
XH1798	34	509	71.2	37	110	109
TX92V4135	12	502	74.2	39	115	115
TX92V3108	14	495	73.5	40	111	112
N93L058	25	473	71.9	36	114	112
T812	44	442	73	38	110	109
KS93U206	23	383	74	39	110	109
T861	45	336	74	37	113	116
WI90-540W	40	157	.	31	118	120
MEAN		789				
LSD(.05)		321				
C.V.		24.9				

CHILLICOTHE

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV. %	RESP. 0-9	SHATTER %
KHARKOF	1	101	110	50	8	30
SCOUT66	2	90	108	50	8	30
TAM-107	3	65	98	90	8	40
HBZ374C	4	76	106	60	8	30
OK91P648	5	74	102	20	7	70
OK93P735	6	67	106	5	3	40
OK93P656	7	65	100	30	8	40
OK93P727	8	70	104	30	8	50
TX91D6913	9	77	106	5	7	30
TX91D6991	10	73	104	10	8	60
TX90V6313	11	66	102	40	8	60
TX92V4135	12	70	99	40	8	60
HBE0726-1	13	71	105	10	3	30
TX92V3108	14	70	99	60	8	40
HBI0531-A2	15	70	99	20	7	40
TX93V5919	16	75	100	60	8	50
TX93V5922	17	78	98	30	8	60
TX93V4927	18	68	107	30	8	70
TX92V2519	19	65	107	50	8	50
CO890323	20	71	98	70	8	80
CO900166	21	69	104	50	8	70
KS92PO263-137	22	78	105	5	7	80
KS93U206	23	71	98	.	.	50
KS91H153-2	24	78	107	5	3	40
N93L058	25	72	107	40	8	70
NE91651	26	73	100	30	8	70
NE90476	27	76	107	30	8	60
NE92458	28	76	102	80	8	80
NE92614	29	82	107	40	8	70
NE92646	30	82	107	60	8	30
XH1706	31	76	100	40	8	40
XH1752	32	78	104	40	8	30
XH1778	33	64	100	.	.	30
XH1798	34	72	98	20	8	30
W91-091	35	65	100	30	7	70
W91-287	36	67	100	30	8	70
AP 7501	37	73	100	30	7	80
WX92-0408	38	69	100	30	7	90
WI89-163W	39	71	107	5	3	30
WI90-540W	40	66	98	20	8	60
W88-2619W	41	67	100	70	8	60
T702	42	74	100	50	8	50
T834	43	79	107	40	8	40
T812	44	71	98	60	8	40
T861	45	74	99	70	8	90

PROSPER

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	DAYS TO HEADING FROM 1/1	LEAF RUST: SEV. %	RESP: 0-9	SEPTORIA: 0-9
OK91P648	5	4504	72.5	97	0	.	3
XH1798	34	4143	75.1	102	5	8	4.7
TX91D6913	9	4084	70.3	105	0	.	5
KS92PO263-137	22	3894	74.2	108	30	8	3.7
HBI0531-A2	15	3858	73.8	105	40	8	5.5
TX90V6313	11	3833	74.3	96	50	8	4.3
XH1778	33	3804	73.9	105	0	.	6.3
WX92-0408	38	3800	72.2	105	40	8	5.7
TX93V4927	18	3762	73.7	110	1	7	5
KS93U206	23	3732	74.4	100	0	.	5
XH1752	32	3728	74	105	20	8	5.5
HBE0726-1	13	3723	72.6	108	1	2	3
T812	44	3719	73.8	102	50	8	5.7
OK93P735	6	3679	74.3	104	1	8	6.3
T861	45	3643	73.5	104	0	.	5
HBZ374C	4	3616	75.9	104	10	8	3.3
NE91651	26	3584	73.8	96	40	8	4
OK93P727	8	3562	75.3	103	5	8	3
TX91D6991	10	3537	71.1	103	30	8	6.3
W91-287	36	3531	74	102	40	8	4.7
KS91H153-2	24	3475	74.4	109	50	8	4
OK93P656	7	3450	75.2	96	1	8	6.3
NE92458	28	3430	76.6	101	90	8	3.7
TX92V4135	12	3369	75.2	94	0	.	3
W91-091	35	3309	72.1	104	30	8	4
NE90476	27	3304	71	112	70	8	4.3
TAM-107	3	3282	72.5	97	80	8	5
CO890323	20	3271	76.6	102	60	8	4.3
TX93V5922	17	3228	75.5	97	20	8	5
XH1706	31	3208	72.9	101	1	8	5.5
TX92V3108	14	3125	77.3	101	40	8	5.5
TX93V5919	16	3091	72.9	103	70	8	6.3
N93L058	25	3078	68.8	110	80	8	4.3
T702	42	2977	73.5	103	70	8	7
NE92614	29	2961	72.8	108	30	8	6.7
WI90-540W	40	2955	71.5	101	0	.	4
AP 7501	37	2883	68.8	111	20	7	6
TX92V2519	19	2869	69.1	111	0	.	6
T834	43	2831	68.1	112	70	8	5.5
W88-2619W	41	2688	68.1	96	80	8	4
WI89-163W	39	2681	68	114	0	.	7.5
CO900166	21	2571	72.2	104	90	8	5.7
SCOUT66	2	2443	73.5	114	70	8	6.3
NE92646	30	2116	66.4	118	100	8	6
KHARKOF	1	1226	72.5	116	80	8	6.7
MEAN		3323					
LSD(.05)		493					
C.V.		9.1					

STILLWATER

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST 0-9
TX91D6913	9	3364	71.2	80	112	1
OK91P648	5	3110	69.8	67	107	1.3
XH1798	34	3045	73.9	75	108	4
OK93P735	6	2995	75.3	72	112	1.3
HBZ374C	4	2631	71.5	77	111	1.3
OK93P727	8	2564	72.7	73	108	6.7
TX91D6991	10	2364	66.7	70	111	3
WX92-0408	38	2353	69	75	111	2.7
OK93P656	7	2304	72	65	107	4
XH1752	32	2247	68.3	73	110	3.7
TX92V4135	12	2147	70.5	70	107	7
XH1706	31	2125	68.7	80	110	4.7
KS93U206	23	2116	71	72	108	1
KS91H153-2	24	2109	73.3	82	119	1
KS92PO263-137	22	2098	74.3	80	112	2
XH1778	33	2028	71.3	67	109	1.3
HBE0726-1	13	1992	65.8	65	114	1.3
WI90-540W	40	1965	66.1	67	106	4.3
W91-287	36	1930	71.8	68	108	2.3
AP 7501	37	1928	65.6	73	112	1.3
NE91651	26	1885	67.7	70	110	6
HBI0531-A2	15	1881	68.9	63	110	2.3
TX93V5919	16	1881	68.8	72	109	5
N93L058	25	1876	65.1	75	118	2
T834	43	1849	65	75	118	3.3
NE92458	28	1820	72.1	78	110	6.3
TX90V6313	11	1684	68.3	62	109	5.7
TX93V4927	18	1603	64.4	62	118	2.3
W91-091	35	1573	65.6	65	108	5.7
WI89-163W	39	1567	69.8	75	118	1.3
W88-2619W	41	1566	68	63	110	7.3
TX93V5922	17	1542	69.1	67	109	3
T702	42	1517	69.6	67	109	1.7
NE90476	27	1501	63.7	72	120	1
NE92646	30	1467	62.7	73	120	2.7
T861	45	1419	66.1	73	108	4
T812	44	1372	61.9	68	108	6
CO900166	21	1356	66.5	73	112	6.7
NE92614	29	1315	69.8	73	119	3
TX92V2519	19	1271	65.2	65	118	1.7
TX92V3108	14	1196	71.1	63	110	5.3
CO890323	20	1013	66.1	67	110	6
SCOUT66	2	898	69	80	124	2
TAM-107	3	888	62.2	62	110	7.7
KHARKOF	1	421	.	78	133	4
MEAN		1862				
LSD(.05)		373				
C.V.		12.3				

ALTUS

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	LEAF RUST 0-9
XH1778	33	4443	76.6	1
HBE0726-1	13	4187	74.4	1
HBI0531-A2	15	4152	76.7	3.7
OK93P735	6	3956	76.3	1
XH1798	34	3890	77.1	2
KS93U206	23	3858	76.9	1
AP 7501	37	3792	76.3	1.7
XH1706	31	3790	77.1	1.7
KS91H153-2	24	3743	77.7	1.3
XH1752	32	3701	74.7	2.3
TX93V5922	17	3664	79.1	2.3
TX93V4927	18	3662	76.9	2
OK91P648	5	3553	75.1	1
T702	42	3490	77.6	2.3
TX90V6313	11	3444	73.1	2.3
TX91D6913	9	3436	74.9	1.7
WI89-163W	39	3399	76	1.3
W91-287	36	3395	74.8	2
OK93P727	8	3337	77.3	2
TX92V3108	14	3302	78.4	5
N93L058	25	3273	74.7	3.3
TX93V5919	16	3259	76.1	5.7
TX92V2519	19	3222	75.6	2.7
W91-091	35	3207	76.8	2
T812	44	3205	74.3	2.7
HBZ374C	4	3184	76.9	2
TX92V4135	12	3111	76.5	1.3
T834	43	3096	71.6	4.3
NE90476	27	3070	72.2	5.7
OK93P656	7	3001	76.4	2.3
NE91651	26	2980	74.3	3
NE92646	30	2975	68.7	6.7
WI90-540W	40	2963	70.1	1.3
TX91D6991	10	2952	73.8	2.7
WX92-0408	38	2941	76.9	2.3
W88-2619W	41	2920	73.4	5.7
NE92614	29	2902	75.4	5
KS92PO263-137	22	2883	76.8	2
CO890323	20	2830	77.7	5.7
CO900166	21	2624	75.9	7.7
TAM-107	3	2369	73.2	8
SCOUT66	2	2267	74.4	6.3
T861	45	2137	73.7	4.3
NE92458	28	1904	76.8	6.7
KHARKOF	1	1421	74.9	7.3

MEAN	3220
LSD(.05)	627
C.V.	11.9

LAHOMA

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
OK91P648	5	3493	67.5	75	121
WX92-0408	38	3036	71	72	124
HBE0726-1	13	2916	68	75	128
XH1798	34	2780	70.7	80	121
TX91D6913	9	2722	64	77	129
OK93P656	7	2720	71.8	78	121
OK93P735	6	2660	74.4	73	123
W91-287	36	2656	69.7	75	121
W91-091	35	2640	68.4	73	121
XH1752	32	2599	70.5	82	128
HBZ374C	4	2582	68.9	77	122
HBI0531-A2	15	2580	67.1	78	127
KS93U206	23	2562	70.9	77	121
AP 7501	37	2547	68.8	73	127
OK93P727	8	2545	72.5	75	121
TX93V5922	17	2481	69.6	77	121
XH1778	33	2472	65.7	77	122
TX92V4135	12	2466	69.3	80	119
NE92458	28	2386	71	80	124
TX91D6991	10	2374	63.4	70	122
TX93V4927	18	2355	70.1	75	130
TX90V6313	11	2338	68.1	78	119
NE91651	26	2334	67.5	78	122
KS92PO263-137	22	2281	70	77	127
T861	45	2278	67.7	75	120
XH1706	31	2189	65	80	122
T812	44	2143	66.6	78	121
WI90-540W	40	2125	65.4	73	120
TX92V3108	14	2119	74.4	82	124
N93L058	25	2115	63.6	75	.
TX92V2519	19	2078	67.4	73	.
TX93V5919	16	2067	64.8	78	124
KS91H153-2	24	2052	72.9	75	.
NE90476	27	2043	67.8	80	.
WI89-163W	39	1871	66.8	72	129
NE92614	29	1847	71.1	80	.
W88-2619W	41	1661	65	70	121
T702	42	1659	63.7	73	125
CO890323	20	1642	72.7	85	123
NE92646	30	1513	62.7	78	.
T834	43	1398	65.6	78	130
CO900166	21	1347	68.4	78	124
TAM-107	3	1148	64.7	73	121
SCOUT66	2	1015	70.8	90	.
KHARKOF	1	458	69.5	87	.

MEAN	2206
LSD(.05)	331
C.V.	9.2

GOODWELL

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX91D6913	9	3785	68.7	85	126
WI89-163W	39	3687	74.9	77	128
HBI0531-A2	15	3583	74.4	80	124
HBE0726-1	13	3426	70.5	80	127
TX91D6991	10	3379	69.1	80	126
XH1798	34	3280	74.6	78	122
OK91P648	5	3210	69.8	73	124
HBZ374C	4	3129	72.5	80	127
NE90476	27	3122	73.3	83	127
XH1706	31	3093	71	85	124
XH1752	32	3083	71.8	78	126
NE92646	30	3045	68.2	85	127
TX92V3108	14	3043	75.7	80	123
T834	43	2958	71.9	82	126
WX92-0408	38	2941	70.9	75	125
OK93P735	6	2922	70.9	77	128
T812	44	2846	74.8	82	116
OK93P656	7	2836	74.8	78	123
KS92PO263-137	22	2764	71.9	88	126
OK93P727	8	2731	71.7	77	127
XH1778	33	2699	71.2	72	125
TX92V4135	12	2696	72.9	73	120
TX92V2519	19	2653	69.8	70	124
AP 7501	37	2646	69.3	77	126
CO900166	21	2623	71.4	77	124
N93L058	25	2618	70.6	70	126
NE92614	29	2615	73.2	87	129
TX93V5919	16	2612	71.1	78	129
NE91651	26	2608	69.1	77	123
NE92458	28	2608	73.1	85	126
W91-287	36	2594	71	80	124
CO890323	20	2510	73.5	78	124
TX93V5922	17	2453	71.9	80	125
TX93V4927	18	2438	72.4	70	128
KS91H153-2	24	2394	76.1	73	128
T702	42	2337	74	82	125
KS93U206	23	2291	73.4	75	125
W91-091	35	2184	70.7	68	124
TX90V6313	11	2154	70.2	73	125
TAM-107	3	2141	71.8	80	122
W88-2619W	41	2140	69.8	78	124
T861	45	2049	71.2	78	122
SCOUT66	2	2042	72.9	83	127
WI90-540W	40	1583	70.9	58	122
KHARKOF	1	1412	71.8	102	135
MEAN		2710			
LSD(.05)		486			
C.V.		11.0			

HUTCHINSON

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING %	GRN LEAF DURATION 0-9
T861	45	2380	74.7	103	128	25	6
WX92-0408	38	2150	73	97	133	20	3
HBI0531-A2	15	2113	67.8	97	131	0	5
T812	44	1945	74.5	92	129	65	5
TX93V5922	17	1775	74	97	133	5	4
TX92V3108	14	1769	77.8	88	131	5	6
OK91P648	5	1738	69.1	90	131	40	5
KS93U206	23	1726	73.9	97	128	23	2
KS92PO263-137	22	1559	68.2	95	136	0	3
TX91D6991	10	1375	69.9	98	133	5	6
HBZ374C	4	1294	73.5	102	132	5	4
N93L058	25	1267	71.2	95	137	0	6
HBE0726-1	13	1243	65.7	90	135	60	4
XH1798	34	1167	74.9	102	132	25	5
W91-287	36	1124	71.7	98	132	8	5
AP 7501	37	1056	69.3	95	135	5	6
TX92V2519	19	1051	73.7	87	136	50	4
T702	42	1041	67.1	98	134	40	5
TX93V4927	18	1030	72.9	92	136	40	3
CO890323	20	1021	76.7	92	134	40	6
OK93P656	7	1017	71.7	95	131	30	7
TX92V4135	12	991	72	93	130	15	6
TX93V5919	16	984	66.1	103	133	40	4
TX91D6913	9	931	67.4	97	135	8	3
KS91H153-2	24	884	77.5	98	136	45	4
OK93P727	8	863	73.3	93	131	15	6
NE90476	27	863	73.7	98	136	50	7
TAM-107	3	857	74.9	97	130	15	9
NE92458	28	832	75.6	100	135	10	8
OK93P735	6	819	65.9	90	132	25	5
W91-091	35	780	63.9	88	133	15	8
XH1752	32	721	75.2	97	135	40	5
TX90V6313	11	708	69.6	92	131	60	7
NE91651	26	683	65.1	98	134	5	7
T834	43	669	72.8	90	137	45	6
CO900166	21	620	72.1	95	134	30	7
XH1778	33	577	72.8	92	135	40	3
NE92646	30	566	70.3	93	138	55	6
WI89-163W	39	525	.	88	138	0	9
NE92614	29	500	72.6	97	139	43	9
XH1706	31	487	68.3	100	133	5	9
W88-2619W	41	329	69.5	93	136	10	8
WI90-540W	40	283	.	88	132	30	9
KHARKOF	1	169	.	82	145	100	9
SCOUT66	2	162	.	95	141	100	9
MEAN		1037					
LSD(.05)		464					
C.V.		27.4					

HAYS

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL
WX92-0408	38	3470	77.2
TX91D6913	9	3257	72.7
OK91P648	5	3129	73.8
AP 7501	37	3111	75.3
HBZ374C	4	2901	77.2
W91-091	35	2869	73.9
W88-2619W	41	2849	74.8
HBI0531-A2	15	2842	74.9
NE92458	28	2811	76.3
TX91D6991	10	2780	74.2
XH1778	33	2742	76
XH1706	31	2726	74.5
T834	43	2712	75.2
WI89-163W	39	2688	78.4
N93L058	25	2659	74.3
XH1798	34	2645	79
XH1752	32	2616	75.2
OK93P656	7	2589	77.7
NE90476	27	2587	74
HBE0726-1	13	2533	74.4
KS92PO263-137	22	2508	75.3
TX93V5919	16	2493	72
NE92646	30	2486	74.7
T702	42	2475	75.1
W91-287	36	2464	77.3
T812	44	2464	76.8
CO890323	20	2378	76.2
NE92614	29	2367	76.3
TX93V4927	18	2356	74
OK93P735	6	2318	76.5
TX92V3108	14	2282	79
T861	45	2278	75.4
NE91651	26	2262	74
OK93P727	8	2246	78.9
KS91H153-2	24	2235	79.3
TX93V5922	17	2233	75.9
TX92V2519	19	2233	76
KS93U206	23	2215	77.4
TX92V4135	12	2071	75.3
TX90V6313	11	2053	74.3
CO900166	21	1984	75.6
SCOUT66	2	1773	76.7
TAM-107	3	1722	72.7
WI90-540W	40	1589	72.3
KHARKOF	1	1356	77.7
MEAN		2475	
LSD(.05)		425	
C.V.		10.5	

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 %	GRN LEAF DURATION 0-9
T861	45	2128	71.1	90	132	3	9
WX92-0408	38	2118	71.2	90	135	0	5
HBI0531-A2	15	1969	69.7	93	137	0	9
OK91P648	5	1772	65.7	88	136	2	7
TX91D6991	10	1749	69.2	95	135	0	9
HBZ374C	4	1444	74.2	93	135	10	6
TX92V3108	14	1438	73.7	85	134	0	9
XH1798	34	1412	74.1	92	134	20	7
T812	44	1411	72	90	133	0	9
KS93U206	23	1402	73.3	92	133	0	7
KS92PO263-137	22	1386	70.2	90	135	0	7
TX93V5922	17	1325	72.2	92	134	0	7
HBE0726-1	13	1299	70	87	139	27	8
XH1752	32	1262	73.9	97	136	10	9
OK93P656	7	1247	71.5	88	133	3	9
XH1778	33	1234	74.9	87	135	0	4
NE92458	28	1227	69.8	92	134	23	9
T702	42	1192	70.2	88	136	3	9
TX92V4135	12	1153	73	88	133	0	9
W91-287	36	1139	69.5	90	134	0	7
NE91651	26	1136	67.7	95	133	3	9
OK93P735	6	1116	73.3	88	135	0	9
W91-091	35	1096	68.3	87	133	3	9
AP 7501	37	1074	71	93	138	0	7
N93L058	25	1034	66.5	88	140	0	9
TX90V6313	11	1018	68.5	87	133	27	9
W88-2619W	41	1007	69.6	90	137	0	9
NE90476	27	1004	68.9	92	140	30	9
OK93P727	8	993	72.5	92	133	3	9
TX91D6913	9	984	65.6	95	140	0	6
NE92614	29	957	73.2	100	141	7	9
TX92V2519	19	929	71.3	90	139	3	7
TAM-107	3	912	70.1	87	132	0	9
WI90-540W	40	875	67.2	87	133	0	9
CO900166	21	857	73.1	88	138	47	9
TX93V4927	18	833	71.2	83	139	0	5
T834	43	819	70.6	90	139	17	9
KS91H153-2	24	792	73.1	88	139	7	8
TX93V5919	16	752	65.7	92	134	0	9
CO890323	20	700	68.3	90	136	40	9
XH1706	31	609	66.8	95	133	0	9
NE92646	30	593	70.7	97	141	0	9
WI89-163W	39	511	57.5	87	139	0	9
SCOUT66	2	299	.	98	141	67	9
KHARKOF	1	238	.	95	142	93	9
MEAN		1121					
LSD(.05)		389					
C.V.		21.3					

COLBY

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 %
TX91D6913	9	4879	77.1	95	151	0
KS92PO263-137	22	4760	79.1	97	149	0
HBI0531-A2	15	4352	77.7	84	146	3
HBE0726-1	13	4117	77.2	89	151	0
T834	43	4094	79.3	91	148	0
T702	42	4024	78.8	82	148	0
XH1752	32	4010	79	98	146	0
TX92V3108	14	3984	81.4	94	147	0
WI89-163W	39	3981	82.5	89	149	0
W88-2619W	41	3975	79.2	87	148	0
HBZ374C	4	3951	80.5	92	150	0
WX92-0408	38	3934	78.2	85	147	0
TX91D6991	10	3863	77.5	87	148	0
AP 7501	37	3833	78	88	148	0
W91-091	35	3813	80.5	80	145	0
TX93V5919	16	3801	77.2	91	149	0
OK93P727	8	3790	80.1	86	147	0
OK91P648	5	3773	76.4	78	145	3
CO890323	20	3736	80.1	89	147	10
T812	44	3672	79.2	86	144	0
NE90476	27	3658	77.4	91	146	0
TX93V5922	17	3654	78.9	86	147	0
XH1798	34	3613	79.2	85	145	0
TX93V4927	18	3541	77.6	78	148	3
OK93P656	7	3473	79.1	86	146	0
OK93P735	6	3421	77.9	84	147	0
NE91651	26	3377	76.6	91	147	3
TX92V2519	19	3354	79	78	147	0
NE92614	29	3313	78.3	102	151	3
NE92458	28	3312	78.1	91	146	3
XH1706	31	3275	75.9	93	145	3
XH1778	33	3224	77.4	78	147	0
NE92646	30	3160	76.7	94	146	0
T861	45	3144	76.9	88	144	0
N93L058	25	3127	75.2	85	148	0
KS91H153-2	24	3102	79.3	83	146	0
CO900166	21	3098	77.6	87	148	7
W91-287	36	2996	77.8	84	146	0
KS93U206	23	2946	76.9	87	145	0
TX92V4135	12	2894	77.5	83	146	3
TAM-107	3	2872	76.2	86	144	0
TX90V6313	11	2544	75.6	79	148	7
KHARKOF	1	2295	77	119	156	37
WI90-540W	40	2219	73.2	83	145	0
SCOUT66	2	2054	76.8	103	149	50
MEAN		3511				
LSD(.05)		534				
C.V.		9.3				

GARDEN CITY

KANSAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
WX92-0408	38	2930	72.8	72	138
AP 7501	37	2737	72.1	72	141
XH1752	32	2652	71.7	78	138
TX91D6991	10	2627	69.3	69	139
NE92646	30	2598	71.6	77	142
TX91D6913	9	2585	68.7	75	142
XH1798	34	2585	72.4	69	136
XH1706	31	2562	71.3	73	137
XH1778	33	2473	71	69	137
HBE0726-1	13	2459	69.8	71	141
CO890323	20	2448	71.8	76	139
HBI0531-A2	15	2443	65.9	68	138
TX92V3108	14	2414	75.1	74	138
T834	43	2358	70.5	74	140
NE91651	26	2338	68.5	72	138
W91-091	35	2307	71.9	65	137
OK91P648	5	2300	68.2	64	140
OK93P727	8	2266	70.2	69	140
KS92PO263-137	22	2260	72.5	75	140
KS91H153-2	24	2230	74.3	68	139
CO900166	21	2221	70.6	74	139
NE92458	28	2179	70.9	75	139
NE90476	27	2172	71.8	72	140
TX92V4135	12	2143	70.6	69	137
TX90V6313	11	2105	68.4	68	143
N93L058	25	2080	67.3	64	139
T702	42	2076	67.4	65	140
HBZ374C	4	2047	69.8	67	145
NE92614	29	2028	71.8	76	142
TX92V2519	19	2026	69.1	66	139
WI89-163W	39	2020	72.9	67	141
TX93V4927	18	2002	68.2	66	136
OK93P735	6	2000	68.5	65	142
OK93P656	7	1973	69.8	66	138
TX93V5919	16	1968	65.7	70	142
W88-2619W	41	1966	72.3	66	142
T812	44	1840	71	65	137
W91-287	36	1775	70.4	66	138
TAM-107	3	1724	70.5	67	138
SCOUT66	2	1650	71.5	75	140
TX93V5922	17	1636	69.1	67	140
WI90-540W	40	1636	68.5	60	138
KS93U206	23	1558	69.6	65	138
T861	45	1430	70.2	69	137
KHARKOF	1	1069	71.1	88	149
MEAN		2153			
LSD(.05)		375			
C.V.		10.7			

FORT COLLINS

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL
TX91D6913	9	6855	76.2
TX93V5919	16	6563	78.3
XH1706	31	6506	77.8
NE92646	30	6474	78.4
WX92-0408	38	6330	77.6
T702	42	6104	78
NE92614	29	5929	78.2
CO900166	21	5897	78.6
HBE0726-1	13	5830	76.5
AP 7501	37	5786	77.7
OK91P648	5	5781	75.2
W88-2619W	41	5693	78.5
HBZ374C	4	5685	78.2
HBI0531-A2	15	5659	76.4
OK93P735	6	5609	77.8
XH1798	34	5566	78.1
W91-091	35	5496	77.9
NE92458	28	5450	78.1
XH1752	32	5403	77.5
XH1778	33	5331	77.4
OK93P656	7	5248	77.8
NE91651	26	5152	76.1
KHARKOF	1	5136	77.8
CO890323	20	5130	79
TX92V4135	12	5115	77.4
KS92PO263-137	22	5056	77.8
W91-287	36	5047	76.5
TX93V5922	17	4954	78.7
NE90476	27	4922	76.5
WI89-163W	39	4904	78.8
T834	43	4899	75.6
TX90V6313	11	4876	77.1
TX91D6991	10	4814	75.1
T812	44	4787	75.8
TX92V2519	19	4620	76.6
TX92V3108	14	4595	79
TX93V4927	18	4590	76.3
TAM-107	3	4471	75.1
KS93U206	23	4257	75.1
N93L058	25	4173	75.5
SCOUT66	2	4135	76.7
OK93P727	8	4117	78
T861	45	3595	75.4
KS91H153-2	24	3472	78.1
WI90-540W	40	3342	76
MEAN		5186	
LSD(.05)		728	
C.V.		8.6	

AKRON, COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
AP 7501	37	6450	74	90	157
OK91P648	5	6210	66.9	85	157
TX91D6913	9	5891	70.4	95	157
TX91D6991	10	5875	68.4	80	157
HBE0726-1	13	5865	69.3	90	164
NE92646	30	5765	72.8	100	156
WX92-0408	38	5701	74.7	90	155
T702	42	5607	74.4	85	158
W91-091	35	5561	73.1	80	157
TX93V5919	16	5468	74.1	95	158
NE92458	28	5410	71	95	157
T812	44	5381	73.5	85	155
T834	43	5380	73	90	159
W88-2619W	41	5303	71.2	85	157
XH1752	32	5223	75	100	157
AKRON	47	5150	71.1	95	157
OK93P656	7	5148	74.5	85	155
TX93V5922	17	5145	73.6	85	156
HBI0531-A2	15	4990	69.6	85	160
OK93P735	6	4899	75.6	85	157
W91-287	36	4829	71.2	85	157
LAMAR	48	4829	75.1	115	157
NE90476	27	4798	71.8	90	157
CO900166	21	4789	72.4	80	157
TX92V3108	14	4760	73.1	90	155
KS92PO263-137	22	4744	72.6	85	157
OK93P727	8	4723	73.7	80	155
TX92V4135	12	4680	72	80	157
NE91651	26	4657	69.7	90	155
WI89-163W	39	4632	75	85	158
NE92614	29	4626	71.8	110	158
XH1706	31	4602	72.5	90	155
XH1798	34	4585	73.2	90	155
HBZ374C	4	4550	72.3	100	157
N93L058	25	4399	68.6	75	157
KS93U206	23	4331	73	80	155
TX93V4927	18	4320	71	70	161
TX92V2519	19	4169	70.3	75	156
YUMA	46	4147	69.1	95	155
HALT	49	4137	66.5	90	156
XH1778	33	4128	74.3	75	155
CO890323	20	4023	71.4	90	155
TAM-107	3	3969	70.5	90	155
KS91H153-2	24	3687	74.8	75	159
WI90-540W	40	3594	69.8	70	157
NE84557	50	3553	71	95	158
TX90V6313	11	3461	70.3	85	157
T861	45	3414	71.7	85	155
KHARKOF	1	2410	72.2	120	164
SCOUT66	2	1861	70.3	95	157
MEAN		4717			
LSD(.05)		915			
C.V.		11.9			

JULESBURG, COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL
WX92-0408	38	4550	78.2
TX93V5919	16	4530	78
AP 7501	37	4517	76.9
XH1752	32	4471	78.1
TX92V3108	14	4369	79.8
W88-2619W	41	4331	77.9
HBI0531-A2	15	4322	76.4
XH1798	34	4294	78.4
T812	44	4249	77.8
YUMA	46	4232	75.2
NE92646	30	4193	75.4
TX91D6991	10	4190	76.3
WI89-163W	39	4190	80.9
AKRON	47	4150	75.9
TX93V5922	17	4081	78.7
T834	43	4060	76.4
W91-091	35	4048	76.9
XH1706	31	4035	76.6
N93L058	25	3947	75.8
NE92458	28	3941	78.3
OK91P648	5	3902	75
TX92V2519	19	3887	76.6
NE91651	26	3859	75
HBZ374C	4	3832	79.5
TX91D6913	9	3807	76
TX93V4927	18	3768	76.9
T702	42	3748	76.9
HBE0726-1	13	3739	74.7
HALT	49	3668	74.4
T861	45	3651	77.5
W91-287	36	3648	77.7
KS92PO263-137	22	3635	77
OK93P727	8	3611	77.9
OK93P656	7	3586	79.2
OK93P735	6	3553	77.3
NE90476	27	3552	77.3
KS93U206	23	3526	77.2
NE92614	29	3462	77.6
TX90V6313	11	3420	76
NE84557	50	3387	79.8
KS91H153-2	24	3357	78.8
LAMAR	48	3305	78.7
CO900166	21	3275	77.3
XH1778	33	3203	73.1
CO890323	20	3179	75.3
TAM-107	3	2943	76
WI90-540W	40	2832	74.8
SCOUT66	2	2775	77.1
TX92V4135	12	2492	75.5
KHARKOF	1	1917	76.9
MEAN		3744	
LSD(.05)		746	
C.V.		12.2	

BURLINGTON, COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-9
HBE0726-1	13	6274	74.7	104	2
HBI0531-A2	15	6179	74.5	86	2
WX92-0408	38	5942	75.9	89	2
TX93V5922	17	5932	76.9	86	2
TX91D6913	9	5775	73.7	97	3
XH1706	31	5719	73.5	86	3
XH1798	34	5710	75.1	102	3
WI89-163W	39	5609	78.5	81	2
OK93P735	6	5596	75.8	99	2
TX93V5919	16	5552	76.4	99	2
HBZ374C	4	5540	78.1	99	2
W91-091	35	5500	75.9	86	2
TX92V2519	19	5475	76.2	84	3
TX91D6991	10	5369	74.2	89	2
XH1778	33	5277	74.7	89	2
OK91P648	5	5187	72.7	89	4
T812	44	5163	75.9	99	4
T702	42	5136	76.8	91	2
NE92458	28	5109	76.1	99	3
T834	43	5089	72.5	97	4
KS93U206	23	5046	77.7	89	3
T861	45	5009	75.5	89	3
OK93P656	7	4953	76.2	91	4
YUMA	46	4911	70.8	97	2
W91-287	36	4852	75.2	97	2
TX90V6313	11	4843	73.7	89	4
NE91651	26	4822	71	97	4
AP 7501	37	4772	74.2	91	2
OK93P727	8	4767	74.2	91	2
TX92V3108	14	4702	75.8	89	4
W88-2619W	41	4694	73.6	97	2
NE92646	30	4687	74	97	4
TX93V4927	18	4559	74.5	79	3
XH1752	32	4506	75.8	102	4
CO900166	21	4491	75.9	99	3
TX92V4135	12	4428	76.2	86	3
TAM-107	3	4280	76.2	94	2
CO890323	20	4237	74.3	102	7
KS91H153-2	24	4184	78.3	84	4
N93L058	25	4163	72.4	76	3
KS92PO263-137	22	3947	75.8	97	3
NE90476	27	3838	74.3	76	4
NE84557	50	3738	75.9	99	6
NE92614	29	3656	74.4	99	6
WI90-540W	40	3597	72.2	76	3
AKRON	47	3510	71.5	86	2
HALT	49	3397	68.8	86	5
LAMAR	48	3194	74.1	107	5
SCOUT66	2	2530	72.1	112	8
KHARKOF	1	2248	72.9	117	7
MEAN		4754			
LSD(.05)		1195			
C.V.		15.4			

CLAY CENTER, NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
T861	45	3293	77.9	97
OK91P648	5	3282	77.1	92
WX92-0408	38	3235	79.3	94
TX91D6991	10	3228	78.4	94
T702	42	3163	78.6	93
XH1778	33	3125	78.9	91
HBE0726-1	13	3105	78.2	95
OK93P727	8	3085	80.9	92
T812	44	3082	78.3	90
NE91651	26	3006	77	102
RAWHIDE-1B	47	2881	79.5	105
CO890323	20	2858	78.7	98
W88-2619W	41	2838	79.5	91
CO900166	21	2836	80.2	97
JAGGER	46	2795	78.6	92
OK93P656	7	2753	77	92
XH1798	34	2708	80.8	99
T834	43	2701	77.8	93
TX91D6913	9	2690	75.2	97
W91-091	35	2632	79.1	83
NE90476	27	2551	77.4	100
KS92PO263-137	22	2511	77.3	98
XH1752	32	2508	78.6	102
TX92V3108	14	2495	80.1	96
TX92V2519	19	2403	77.5	92
NE92614	29	2358	79.2	102
OK93P735	6	2340	76.5	87
AP 7501	37	2320	76.5	90
KS91H153-2	24	2262	80.9	92
TX90V6313	11	2221	77.7	91
HBZ374C	4	2219	78.7	91
KS93U206	23	2208	76.9	98
WI89-163W	39	2192	80.1	89
TX93V4927	18	2179	77.8	81
TX93V5922	17	2154	77.7	90
TX92V4135	12	1995	78.7	93
HBI0531-A2	15	1993	78.6	91
NE92458	28	1961	77.1	97
N93L058	25	1939	74.8	86
NE92646	30	1887	76.5	97
NEKOTA	48	1863	77	96
KHARKOF	1	1735	80.9	119
TAM-107	3	1681	76.2	94
XH1706	31	1661	74.6	101
SCOUT66	2	1560	79.2	113
W91-287	36	1553	75.3	86
TX93V5919	16	1547	73.1	96
WI90-540W	40	1004	71.9	83
MEAN		2429		
LSD(.05)		699		
C.V.		17.6		

NORTH PLATTE, NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
WX92-0408	38	5284	81.4	94
TX91D6991	10	4817	82.3	104
HBI0531-A2	15	4636	83.9	94
TX93V5922	17	4629	84.4	97
TX93V5919	16	4409	83.5	102
OK93P727	8	4317	83.3	91
OK91P648	5	4196	81.3	91
WI89-163W	39	4147	82.6	89
T812	44	4125	80	91
W91-091	35	4111	80.8	94
AP 7501	37	4098	80	97
T702	42	4051	81.7	84
N93L058	25	4001	80.4	89
T861	45	3853	79.1	99
NE92458	28	3840	81.7	107
KS92PO263-137	22	3717	82.7	107
XH1752	32	3714	81.4	109
OK93P735	6	3656	82.3	91
JAGGER	46	3627	79.3	97
TX91D6913	9	3488	81.3	102
W88-2619W	41	3466	77.1	91
NE92646	30	3441	81.9	102
HBZ374C	4	3405	84.4	99
NE91651	26	3389	78.9	102
TX92V3108	14	3179	81.8	97
HBE0726-1	13	3172	83.3	99
RAWHIDE-1B	47	3147	81	107
TAM-107	3	3123	79.1	97
TX92V2519	19	3078	81.9	94
OK93P656	7	2988	83.1	94
XH1798	34	2970	84.5	99
TX92V4135	12	2939	82.6	89
KS93U206	23	2708	80	94
CO890323	20	2694	81.4	94
XH1778	33	2683	79.3	86
XH1706	31	2647	80.4	102
W91-287	36	2638	79.5	89
NEKOTA	48	2531	80	97
TX93V4927	18	2493	80.6	86
NE90476	27	2340	80.6	99
TX90V6313	11	2284	80	86
CO900166	21	2195	83.2	94
WI90-540W	40	2105	79.3	94
T834	43	2085	80.2	94
KS91H153-2	24	1993	82.6	89
NE92614	29	1520	81.3	99
SCOUT66	2	1074	81.3	102
KHARKOF	1	370	.	107
MEAN		3237		
LSD(.05)		1019		
C.V.		19.3		

SIDNEY, NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
TX91D6991	10	6487	84.1	99
HBE0726-1	13	6373	84.9	97
TX91D6913	9	6304	83.3	102
WX92-0408	38	6301	85.8	95
WI89-163W	39	6216	86.7	94
JAGGER	46	6200	.	95
TX93V5919	16	6158	84.4	98
T702	42	6153	85.8	94
XH1706	31	6133	86.3	105
TX93V5922	17	6066	86.2	95
NE92458	28	6046	85.3	104
OK91P648	5	6021	83.9	95
XH1798	34	5990	86.2	102
T812	44	5974	83.9	94
AP 7501	37	5949	85.4	97
KS92PO263-137	22	5938	85.4	104
OK93P735	6	5936	85	91
HBZ374C	4	5916	85.5	109
W88-2619W	41	5911	85.1	95
NE92646	30	5795	84.9	102
OK93P727	8	5736	86.3	94
T834	43	5687	83.5	107
T861	45	5667	83.3	98
RAWHIDE-1B	47	5658	84.6	110
HBI0531-A2	15	5640	84.6	91
NE91651	26	5562	84.2	105
XH1778	33	5517	85.3	90
W91-287	36	5497	85	95
CO900166	21	5479	86.2	99
XH1752	32	5427	85.4	109
TX92V2519	19	5425	84.9	90
TX92V3108	14	5414	86.6	94
W91-091	35	5376	84.6	91
TX92V4135	12	5239	85.3	89
NEKOTA	48	5158	84.9	100
OK93P656	7	5149	85.8	94
N93L058	25	5073	83.5	97
CO890323	20	4826	85.3	104
TAM-107	3	4687	82.4	99
KS93U206	23	4618	82.6	99
KS91H153-2	24	4604	85.3	97
NE90476	27	4557	84	100
NE92614	29	4501	84	112
TX90V6313	11	4261	85.1	95
WI90-540W	40	3773	83.6	86
TX93V4927	18	3755	84	79
SCOUT66	2	3380	85.8	108
KHARKOF	1	2345	85.1	121

MEAN	5414
LSD(.05)	974
C.V.	11.0

HEMINGFORD, NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
HBZ374C	4	6348	82.7	103
JAGGER	46	6319	81.8	90
XH1706	31	6189	81.8	91
XH1798	34	6169	84.2	97
NE91651	26	6142	80.6	103
XH1778	33	6005	82	88
TX93V5919	16	5938	74.7	95
OK93P727	8	5813	82.3	95
OK93P656	7	5748	81.4	100
TX91D6913	9	5745	78.4	98
TX91D6991	10	5694	77.3	95
WX92-0408	38	5669	80.8	85
T702	42	5645	83.1	88
NEKOTA	48	5642	83.2	95
NE92646	30	5584	82.7	97
NE92458	28	5573	82.8	95
KS93U206	23	5562	80.2	93
AP 7501	37	5557	78.9	86
XH1752	32	5535	81.8	103
N93L058	25	5503	82.8	89
W88-2619W	41	5441	83.2	84
CO900166	21	5411	81.1	93
NE90476	27	5402	81.5	94
T834	43	5391	81.4	95
T812	44	5378	82.3	83
W91-287	36	5369	81.3	88
KS92PO263-137	22	5358	78.3	98
HBE0726-1	13	5349	75.9	93
OK93P735	6	5290	80.1	95
TX93V5922	17	5277	82.9	94
TX92V3108	14	5254	80.5	102
OK91P648	5	5237	75.5	86
TX92V2519	19	5187	79.6	84
W91-091	35	5187	80.5	74
RAWHIDE-1B	47	5178	80.8	100
TAM-107	3	5165	79.6	98
TX92V4135	12	5091	77.4	88
WI89-163W	39	5077	83.7	89
T861	45	4997	81.1	94
CO890323	20	4954	80.5	95
KS91H153-2	24	4907	.	85
NE92614	29	4907	79.9	113
WI90-540W	40	4817	82.2	89
TX90V6313	11	4746	78.3	90
HBI0531-A2	15	4732	74.6	93
TX93V4927	18	4353	81	81
SCOUT66	2	3549	81.9	114
KHARKOF	1	2950	78	119

MEAN	5340
LSD(.05)	1025
C.V.	11.8

PIERRE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
T861	45	4779	77.9	98	157
WX92-0408	38	4757	78.4	94	159
HBZ374C	4	4434	80.3	97	160
AP 7501	37	4405	76.3	90	160
NE92646	30	4152	78.2	97	160
HBE0726-1	13	4093	77.7	89	161
KS92PO263-137	22	4069	78.7	99	161
TX91D6991	10	4042	72.7	90	160
T702	42	3930	79.6	87	160
HBI0531-A2	15	3887	73.7	86	160
TX91D6913	9	3827	75.4	90	160
WI90-540W	40	3804	76.4	89	158
T812	44	3746	76.5	91	158
TX92V4135	12	3726	78.9	89	159
KS93U206	23	3714	78	100	158
OK91P648	5	3712	75.4	86	158
N93L058	25	3667	74.9	94	159
XH1706	31	3640	75.5	103	158
XH1798	34	3627	76.9	95	158
W91-287	36	3611	77.1	88	159
KS91H153-2	24	3549	79.8	93	158
TX92V3108	14	3535	80.5	93	158
OK93P656	7	3499	78.6	91	158
NE91651	26	3499	76.2	103	159
WI89-163W	39	3490	78.7	85	159
OK93P735	6	3475	78	89	160
W88-2619W	41	3416	77.4	88	160
CO890323	20	3403	80.7	98	159
TX90V6313	11	3371	76.2	87	160
NE92458	28	3150	78.3	97	160
W91-091	35	3141	78.7	80	157
TAM-107	3	3064	76.3	96	158
XH1778	33	3035	75.8	87	159
T834	43	2957	74.8	97	159
CO900166	21	2892	78.1	91	159
NE92614	29	2892	78.2	106	160
TX93V4927	18	2831	77.6	81	160
TX92V2519	19	2726	76	87	160
OK93P727	8	2531	79	87	160
NE90476	27	2531	72.3	97	159
XH1752	32	2457	75.8	104	159
TX93V5919	16	2011	75.8	80	161
KHARKOF	1	1585	78.2	111	165
SCOUT66	2	1042	76.4	106	160
TX93V5922	17	924	74.8	80	160
MEAN		3347			
LSD(.05)		891			
C.V.		16.3			

WINNER

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	GRN LEAF DURATION 0-9
T861	45	3871	77	91	156	3
T702	42	3694	77	80	159	2.3
WX92-0408	38	3466	72.5	86	159	2.7
T812	44	3349	75.7	86	157	3
KS93U206	23	3324	77.8	94	157	4
TAM-107	3	3188	76.2	91	156	4
T834	43	3111	74.2	90	158	3.3
HBI0531-A2	15	3069	66.1	81	159	3
OK91P648	5	2948	69.4	86	156	3.7
TX93V5922	17	2883	72.9	87	158	3.3
CO890323	20	2764	78.3	97	159	5
TX92V2519	19	2755	75.3	85	158	3.7
TX93V5919	16	2710	69.4	88	158	3.3
HBZ374C	4	2663	73.2	90	159	3
W91-091	35	2609	73	82	157	4
KS92PO263-137	22	2562	71.5	88	159	2.7
KS91H153-2	24	2497	76.5	89	158	3.7
CO900166	21	2461	75.9	90	160	4
TX90V6313	11	2455	72.6	86	158	5
AP 7501	37	2437	69.4	82	159	2.7
TX93V4927	18	2428	74.1	81	159	3.7
NE92646	30	2378	72.1	89	158	3.7
XH1798	34	2372	71.9	91	158	3.7
WI89-163W	39	2367	74.2	81	160	3.7
TX91D6913	9	2318	68.2	85	159	3.7
TX92V3108	14	2275	74.9	86	158	3.3
N93L058	25	2271	67	83	158	5
W91-287	36	2251	70.7	80	158	3.7
NE90476	27	2221	70.1	92	158	4.7
OK93P656	7	2177	73.7	89	158	5
XH1706	31	2168	70.8	88	158	3
XH1752	32	2107	72.9	92	159	4.3
NE91651	26	2035	69.6	91	158	4.3
TX91D6991	10	1926	66	80	159	3
HBE0726-1	13	1899	67.9	80	159	3.3
NE92458	28	1854	69.7	94	158	4.7
W88-2619W	41	1818	69.8	81	159	3
NE92614	29	1760	71.3	101	160	4.7
OK93P735	6	1753	68.9	80	159	3
OK93P727	8	1661	72.3	86	158	4
WI90-540W	40	1562	69.6	80	157	4.7
XH1778	33	1475	67.6	82	159	3.3
TX92V4135	12	1412	67.3	83	157	4
SCOUT66	2	1038	73.4	96	161	5
KHARKOF	1	966	73.4	101	162	4.7

MEAN	2385
LSD(.05)	725
C.V.	18.6

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
XH1798	34	2766	77.1	57	163
OK93P735	6	2446	76	53	167
KS93U206	23	2349	76	60	163
XH1752	32	2329	76.4	63	164
N93L058	25	2280	74.2	61	165
NE90476	27	2271	75.7	59	165
TX91D6991	10	2251	74.3	56	166
WX92-0408	38	2199	75.6	52	166
XH1778	33	2172	76.8	56	167
TX91D6913	9	2154	72.8	59	168
AP 7501	37	2109	74.2	54	167
CO890323	20	2105	75.8	64	165
KS91H153-2	24	2089	74.4	61	164
OK91P648	5	2074	73.6	52	167
HBZ374C	4	2044	75.2	58	166
HBE0726-1	13	2044	74.6	58	168
OK93P727	8	2033	77	52	166
KHARKOF	1	2031	76.2	84	170
OK93P656	7	2020	76	56	165
TX90V6313	11	2004	74.8	53	165
NE91651	26	2004	74	60	165
SCOUT66	2	1923	75.7	69	165
KS92PO263-137	22	1854	75.7	60	165
T812	44	1845	75.9	58	165
TX92V3108	14	1816	78.6	55	165
T702	42	1796	73.9	53	166
NE92614	29	1751	74.7	63	167
NE92458	28	1661	76	58	166
TAM-107	3	1594	72.9	62	164
W91-091	35	1585	74.6	58	164
T834	43	1527	74.1	56	166
W88-2619W	41	1502	73.3	48	169
XH1706	31	1473	73.8	44	164
HBI0531-A2	15	1448	73.8	52	168
NE92646	30	1439	73.6	57	170
W91-287	36	1426	74.3	52	165
TX93V5919	16	1403	75.2	48	167
TX92V4135	12	1370	75.3	53	165
CO900166	21	1253	73.6	57	166
TX93V4927	18	1251	74.6	49	168
T861	45	1244	74.2	52	164
WI90-540W	40	1199	70.2	51	164
WI89-163W	39	1141	72.8	51	167
TX92V2519	19	1119	73	47	167
TX93V5922	17	641	71.6	52	166

MEAN	1801
LSD(.05)	834
C.V.	28.4

COLUMBIA

MISSOURI

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING 0-9	WINTER SURVIVAL %	BYD VIRUS %
XH1798	34	4079	72.9	102	130	2	97	4
XH1752	32	3876	71.8	111	134	2	96	4
OK91P648	5	3741	69.8	98	132	2	94	7
WX92-0408	38	3724	72.4	100	132	1	94	4
CO900166	21	3467	69.1	108	134	1	97	5
TX91D6913	9	3341	68	107	135	1	92	4
OK93P727	8	3310	71.8	101	132	1	95	3
AP 7501	37	3309	70	102	135	0	91	4
T834	43	3234	63.6	108	135	4	97	2
XH1778	33	3130	65.8	99	134	0	97	4
N93L058	25	3096	66.7	102	135	1	90	6
OK93P656	7	2921	68.2	102	131	2	95	7
XH1706	31	2900	68	110	132	2	94	6
WI89-163W	39	2864	70.7	96	135	0	91	3
NE90476	27	2855	68.8	107	135	3	91	5
OK93P735	6	2843	71	97	134	1	93	13
T702	42	2839	69.2	100	134	1	92	12
TX92V3108	14	2831	70.7	102	131	2	95	5
TX91D6991	10	2770	70.1	101	133	0	91	5
NE92646	30	2747	65.7	105	136	1	93	3
KS92PO263-137	22	2746	69.2	106	134	0	93	2
TX92V4135	12	2730	69.4	102	130	1	96	5
T861	45	2712	69.8	107	130	1	95	9
HBZ374C	4	2711	72.8	103	133	0	90	11
TX93V4927	18	2689	68.9	97	134	1	95	4
TX93V5919	16	2669	65.1	103	132	0	85	10
TX92V2519	19	2644	68.5	100	134	1	94	4
NE91651	26	2642	68.5	110	132	3	93	6
NE92458	28	2605	70.8	108	133	2	97	5
HBI0531-A2	15	2603	71.6	101	133	1	92	8
CO890323	20	2601	67.7	108	133	4	98	6
NE92614	29	2558	68.7	123	136	5	97	7
W91-091	35	2548	69.3	99	131	0	98	3
HBE0726-1	13	2453	68.8	104	135	0	92	5
TAM-107	3	2428	65.9	105	129	1	90	8
W88-2619W	41	2392	68.7	97	132	1	95	3
T812	44	2338	66.4	106	130	1	94	9
TX93V5922	17	2241	72.7	102	132	0	82	8
TX90V6313	11	2233	64.4	103	132	2	95	6
KS91H153-2	24	2122	72.3	106	134	0	93	12
W91-287	36	2078	66.7	99	132	0	97	7
KS93U206	23	2039	67.2	106	130	1	94	8
SCOUT66	2	1926	69.1	125	135	7	92	5
WI90-540W	40	1401	61.7	96	130	1	94	16
KHARKOF	1	1386	69.6	130	141	7	93	2

MEAN	2742
LSD(.05)	541
C.V.	12.1

LIND

WASHINGTON

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	STRIPE RUST SEV.	STRIPE RUST RESP.
XH1706	31	5967	79.5	88	142	60	8
T702	42	5912	78.7	88	142	60	8
XH1798	34	5891	80.2	90	142	75	8
W88-2619W	41	5815	81.6	86	142	40	8
AP 7501	37	5704	79.4	85	143	20	8
XH1778	33	5421	80.3	85	141	80	8
XH1752	32	5413	79.5	94	142	70	8
CO890323	20	5391	80.5	88	143	20	8
HBZ374C	4	5260	81.4	93	142	75	8
NE92614	29	5234	79.8	93	142	0	.
WX92-0408	38	5208	79.5	86	143	0	.
WI89-163W	39	5196	82.8	80	143	0	.
TX91D6913	9	5153	78.3	86	143	80	8
TX93V5922	17	5127	82.2	88	142	60	3
HBE0726-1	13	5097	78.6	79	144	25	3
NE91651	26	4944	78.3	90	142	60	8
W91-287	36	4935	78	79	142	10	8
TX93V5919	16	4867	80.3	84	143	90	8
N93L058	25	4806	78.5	84	110	90	8
KS92PO263-137	22	4783	79.7	83	144	90	8
NE92646	30	4762	79.6	83	144	80	8
OK91P648	5	4744	79	79	142	80	8
KS91H153-2	24	4724	80.1	84	142	60	8
CO900166	21	4714	79.8	81	142	0	.
OK93P727	8	4683	81.1	79	142	60	8
TX90V6313	11	4624	80.3	79	142	40	3
W91-091	35	4556	79.7	79	141	30	8
KS93U206	23	4494	76.7	88	141	90	8
HBI0531-A2	15	4480	78.7	80	143	90	8
TAM-107	3	4479	80.1	84	141	90	8
SCOUT66	2	4441	79.9	109	142	40	8
OK93P656	7	4378	80.7	83	141	75	8
TX92V2519	19	4374	80.2	77	142	0	.
TX92V4135	12	4368	80.1	79	142	80	8
TX91D6991	10	4318	78.7	77	143	75	8
T812	44	4318	78.3	78	140	10	3
T834	43	4274	79.2	87	142	40	3
WI90-540W	40	4270	79.7	84	141	0	.
T861	45	4259	78.1	81	140	80	8
TX93V4927	18	4241	81.7	77	141	0	.
OK93P735	6	4216	80.3	77	143	90	8
KHARKOF	1	4159	78.7	120	146	20	3
NE92458	28	3942	80.8	81	142	50	8
TX92V3108	14	3783	82.5	84	142	40	5
NE90476	27	3592	78.8	86	142	50	8
MEAN		4785					
LSD(.05)		1126					
C.V.		16.8					

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	WINTER SURVIVAL %	RUST COMPLEX 0-5
T861	45	10276	79.7	94	164	100	4
T702	42	10229	81.1	86	168	90	3
HBE0726-1	13	10047	79.2	89	174	95	0
W88-2619W	41	9812	82.6	84	167	95	2
AP 7501	37	9771	81.3	89	166	95	0
TX91D6991	10	9644	79.2	86	170	85	2
WX92-0408	38	9294	80.9	86	167	100	0
OK91P648	5	9254	79.5	84	168	95	2
XH1798	34	9193	81.9	89	165	95	2
XH1778	33	8998	81.5	81	166	90	2
WI89-163W	39	8655	82.7	79	166	100	2
NE91651	26	8574	79.7	94	165	95	1
CO890323	20	8568	82.9	99	171	90	2
TX93V5922	17	8561	82.6	86	170	50	2
TX92V2519	19	8467	81.5	84	170	85	0
NE92614	29	8426	81.7	104	169	100	1
XH1752	32	8346	80.8	94	166	95	1
XH1706	31	8339	81.8	89	166	95	1
TX92V3108	14	8205	81.1	89	171	100	0
NE92646	30	8110	80.6	94	167	100	2
KS92PO263-137	22	8077	80.9	97	168	100	2
CO900166	21	8070	82	94	170	95	1
TX90V6313	11	7949	81.3	79	167	85	1
TX93V5919	16	7929	79.1	91	172	75	2
TX93V4927	18	7855	81.9	81	171	70	0
TX92V4135	12	7814	80.5	84	166	95	2
N93L058	25	7593	79.1	84	165	100	3
TX91D6913	9	7579	79.6	89	171	90	2
W91-091	35	7559	81.5	74	164	90	1
T834	43	7270	79.5	94	166	95	2
HBI0531-A2	15	7256	81.1	89	171	85	1
OK93P656	7	7236	81.5	89	167	90	2
HBZ374C	4	7223	81.5	91	171	90	3
OK93P727	8	7216	81.7	84	168	90	2
KS93U206	23	7162	80.9	91	165	90	3
T812	44	7048	80.5	86	165	95	1
NE92458	28	7034	81.3	97	168	95	1
OK93P735	6	6846	81.1	84	169	95	4
W91-287	36	6658	80.2	81	165	100	0
WI90-540W	40	6611	79.6	84	165	95	1
NE90476	27	6416	79.7	86	165	95	2
KS91H153-2	24	6227	81.3	86	165	95	2
TAM-107	3	6005	79.6	84	166	85	4
SCOUT66	2	5844	79.7	122	167	95	2
KHARKOF	1	5017	78.4	119	174	95	1

CRAWFORDSVILLE

IOWA

ONE REPLICATION

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	LODGING %	MILDEW 0-9	LEAF RUST 0-9
WX92-0408	38	5723	73.1	10	7	5
AP 7501	37	4869	71.7	5	10	2
HBI0531-A2	15	4674	68	0	7	5
HBE0726-1	13	4566	70.7	5	9	1
HBZ374C	4	4499	71.2	0	3	2
XH1798	34	4465	66.6	0	10	3
OK91P648	5	4405	65.5	5	6	1
XH1752	32	4358	72.5	15	7	3
NE90476	27	4311	67.7	45	5	2
OK93P735	6	4243	68.9	5	10	1
KS92PO263-137	22	4243	71.2	5	4	2
KS93U206	23	4217	68.9	10	1	3
CO900166	21	4203	71.2	5	1	5
TX91D6913	9	4170	68.8	10	7	1
TX92V3108	14	4156	70.8	15	2	7
TX91D6991	10	4048	67.5	5	4	6
T834	43	3732	.	45	1	10
XH1778	33	3679	64.6	5	8	4
TX93V4927	18	3638	66.8	0	1	2
TX92V2519	19	3611	69.8	15	1	5
NE92614	29	3605	71.1	15	9	4
XH1706	31	3531	66.2	10	6	5
T812	44	3517	.	0	1	4
NE91651	26	3490	66.6	10	9	6
T861	45	3463	.	5	4	7
TX92V4135	12	3443	70.3	5	6	8
OK93P727	8	3430	71.2	0	8	4
OK93P656	7	3188	68.8	5	10	4
NE92458	28	3154	68.4	30	4	3
N93L058	25	3120	65.1	5	9	7
W91-091	35	3107	65.4	5	3	2
TX93V5922	17	2925	66	10	6	2
CO890323	20	2878	68.8	55	1	8
T702	42	2818	.	15	1	7
TX90V6313	11	2710	63.6	0	5	6
WI89-163W	39	2670	69.4	0	10	3
NE92646	30	2616	68	35	8	8
SCOUT66	2	2556	73.4	65	6	9
W91-287	36	2495	63.6	0	5	3
TAM-107	3	2455	60.9	5	1	10
KS91H153-2	24	2260	66	0	7	1
W88-2619W	41	2253	.	10	10	9
TX93V5919	16	2085	63.1	5	10	8
WI90-540W	40	1143	57.1	0	1	3
KHARKOF	1	1130	.	80	5	7

Table 2. Summary of mean yields (kg/ha) for 45 wheats grown in the 1995 Southern Regional Performance Nursery at 28 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	PROSPER TEXAS		BUSHLAND (IRR.) TEXAS		BUSHLAND (DRYL.) TEXAS		TEXAS STATE MEAN	
AGRIPRO SEEDS HYBRID WHEAT	WX92-0408	38	3800	8	5768	16	659	30	3409	13
PRO 812/CALDWELL//TX86D1310	TX91D6913	9	4084	3	5853	12	1874	1	3937	1
2555 sib/Vona//2180	OK91P648	5	4504	1	6075	8	715	23	3765	2
QUANTUM HYBRID WHEAT	XH1798	34	4143	2	6191	7	509	38	3614	6
HRE LT-11/4/Hmstd/3/Ctk//IN4946../MOW747	HBE0726-1	13	3723	12	6602	2	676	29	3667	3
WVE047*2180/2157*HGE013	HBI0531-A2	15	3858	5	6330	4	767	19	3652	5
TX86D1310/KAVKAZ//TX86D1308	TX91D6991	10	3537	19	5739	20	751	21	3342	17
AGRIPRO SEEDS HYBRID WHEAT	AP 7501	37	2883	37	5714	23	536	35	3044	35
COKER 68-15/TAM-107	T702	42	2977	34	5985	9	1430	3	3464	12
IL71-5662/PL145//2165	HBZ374C	4	3616	16	5602	27	684	26	3301	21
QUANTUM HYBRID WHEAT	XH1752	32	3728	11	5855	11	1024	9	3536	8
QUANTUM HYBRID WHEAT	XH1706	31	3208	30	6622	1	1154	5	3661	4
W2440/W9488A//2163	KS92PO263-137	22	3894	4	5696	24	1013	10	3534	9
TX85V1830/TX84V1307	TX93V5919	16	3091	32	5510	32	995	13	3199	29
HBY250A/HGF004	OK93P735	6	3679	14	5723	22	1004	12	3469	11
854552#3/MESA SIB	W91-091	35	3309	25	5667	25	572	34	3182	30
QUANTUM HYBRID WHEAT	XH1778	33	3804	7	6194	6	628	31	3542	7
N84-1104/ABILENE	WI89-163W	39	2681	41	6517	3	843	16	3347	16
TAM-107/T213 SIB	T812	44	3719	13	5750	19	442	42	3303	20
TX85V1830/TX84V1307	TX93V5922	17	3228	29	5725	21	711	25	3221	26
W0405D/HGF112//W7469C/HGF012	OK93P656	7	3450	22	5849	13	720	22	3339	18
SGC008/W1060B//HBY242G2	OK93P727	8	3562	18	5225	39	614	33	3134	33
W81-133-2/RIO BLANCO	W88-2619W	41	2688	40	5449	36	865	15	3001	37
NE82671/NE80413	NE91651	26	3584	17	5243	38	677	27	3168	31
NE82413/Colt	NE92646	30	2116	44	5454	35	827	17	2799	43
OK83201/Redland	NE92458	28	3430	23	5508	33	771	18	3236	25
W85-084/W85-225	W91-287	36	3531	20	5660	26	621	32	3271	23
T213 SIB *2/TAM-107	T834	43	2831	39	6218	5	677	27	3242	24
TAM-200/KARL	TX92V3108	14	3125	31	5808	14	495	40	3143	32
KS831936-3//Colt/Cody	N93L058	25	3078	33	5418	37	473	41	2990	38
TAM-107/CALDWELL	T861	45	3643	15	4820	44	336	44	2933	41
TAM-200/TAM-107	CO890323	20	3271	28	5936	10	1013	10	3407	14
TAM-107*3/TA2460	KS93U206	23	3732	10	5754	17	383	43	3290	22
OK82377/TX81V6603-2	TX92V2519	19	2869	38	5503	34	715	23	3029	36
Brule//Buc 's'/Bjy 's'/3/TX78V3924-5-3	TX92V4135	12	3369	24	5752	18	502	39	3208	28
HARPOOL SEL./SANDY	CO900166	21	2571	42	5580	29	1235	4	3129	34
TX87V1913/TAM-200	TX93V4927	18	3762	9	5539	31	1148	6	3483	10
Bennett/Brule Composite	NE90476	27	3304	26	5564	30	758	20	3209	27
TX81V6603/TX78A3345-V34	TX90V6313	11	3833	6	5597	28	525	36	3318	19
Centura/RL820003	NE92614	29	2961	35	4867	42	1047	7	2958	39
HF5761/TAM-105//Bounty Hybrid 203	KS91H153-2	24	3475	21	5790	15	926	14	3397	15
TAM-107	TAM-107	3	3282	27	5026	41	520	37	2943	40
VICTORY SIB/2165	WI90-540W	40	2955	36	4855	43	157	45	2656	44
Scout 66	SCOUT66	2	2443	43	5073	40	1029	8	2848	42
Kharkof	KHARKOF	1	1226	45	3389	45	1502	2	2039	45
	MEAN		3323		5644		789		3252	
	LSD(.05)		493		700		321		718	
	C.V.		9.1		7.6		24.9		9.9	

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		COLUMBIA MISSOURI	
WX92-0408	38	1375	26	167	29	7460	15	4417	19	3724	4
TX91D6913	9	2630	1	389	2	7952	7	5291	2	3341	6
OK91P648	5	1535	17	206	20	8509	1	5022	3	3741	3
XH1798	34	1731	13	150	33	7930	8	4831	9	4079	1
HBE0726-1	13	2309	4	197	22	8307	2	5308	1	2453	34
HBI0531-A2	15	2228	5	219	15	6702	27	4465	16	2603	30
TX91D6991	10	1554	16	143	36	7803	10	4679	11	2770	19
AP 7501	37	1474	19	113	42	7820	9	4647	12	3309	8
T702	42	1654	15	471	1	8158	3	4906	6	2839	17
HBZ374C	4	1532	18	88	44	6947	22	4239	21	2711	24
XH1752	32	1941	9	254	11	7420	16	4681	10	3876	2
XH1706	31	1260	32	309	5	7607	12	4433	18	2900	13
KS92PO263-137	22	2129	6	226	14	7582	14	4855	7	2746	21
TX93V5919	16	2359	3	207	19	7589	13	4974	5	2669	26
OK93P735	6	1352	28	384	3	7088	19	4220	22	2843	16
W91-091	35	934	40	145	35	8050	6	4492	15	2548	33
XH1778	33	1401	24	126	39	6881	23	4141	25	3130	10
WI89-163W	39	1792	11	249	12	7120	18	4456	17	2864	14
T812	44	995	37	151	32	5651	37	3323	37	2338	37
TX93V5922	17	1941	10	273	9	8087	5	5014	4	2241	38
OK93P656	7	1658	14	208	18	6686	28	4172	23	2921	12
OK93P727	8	1413	23	174	27	7158	17	4285	20	3310	7
W88-2619W	41	969	39	197	21	8115	4	4542	13	2392	36
NE91651	26	1229	33	218	16	6567	31	3898	33	2642	28
NE92646	30	1371	27	167	28	6716	25	4043	28	2747	20
NE92458	28	1313	29	180	26	7021	20	4167	24	2605	29
W91-287	36	2006	8	140	38	7657	11	4832	8	2078	41
T834	43	877	42	186	25	5968	35	3423	36	3234	9
TX92V3108	14	973	38	149	34	5573	39	3273	38	2831	18
N93L058	25	838	43	142	37	6657	29	3748	35	3096	11
T861	45	789	44	100	43	5588	38	3188	39	2712	23
CO890323	20	1386	25	257	10	6496	33	3941	31	2601	31
KS93U206	23	773	45	152	31	4866	41	2819	42	2039	42
TX92V2519	19	1428	22	191	24	6712	26	4070	27	2644	27
TX92V4135	12	2014	7	152	30	7004	21	4509	14	2730	22
CO900166	21	1286	31	341	4	6533	32	3910	32	3467	5
TX93V4927	18	2408	2	211	17	5762	36	4085	26	2689	25
NE90476	27	1451	21	117	40	4877	40	3164	40	2855	15
TX90V6313	11	1302	30	227	13	6622	30	3962	29	2233	39
NE92614	29	1145	36	299	6	6768	24	3957	30	2558	32
KS91H153-2	24	1738	12	116	41	4590	43	3164	41	2122	40
TAM-107	3	881	41	194	23	4704	42	2793	43	2428	35
WI90-540W	40	1455	20	56	45	6311	34	3883	34	1401	44
SCOUT66	2	1175	35	291	7	4231	45	2703	45	1926	43
KHARKOF	1	1179	34	275	8	4360	44	2770	44	1386	45
MEAN		1493		205		6760		4127		2742	
LSD(.05)		797		146		1129		1455		541	
C.V.		32.7		43.7		11.9		15.5		12.1	

* Not included in state or regional means.

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		OKLAHOMA STATE MEAN	
WX92-0408	38	2353	8	2941	35	3036	2	2941	15	2818	10
TX91D6913	9	3364	1	3436	16	2722	5	3785	1	3327	2
OK91P648	5	3110	2	3553	13	3493	1	3210	7	3342	1
XH1798	34	3045	3	3890	5	2780	4	3280	6	3249	3
HBE0726-1	13	1992	17	4187	2	2916	3	3426	4	3130	5
HBI0531-A2	15	1881	22	4152	3	2580	12	3583	3	3049	6
TX91D6991	10	2364	7	2952	34	2374	20	3379	5	2767	13
AP 7501	37	1928	20	3792	7	2547	14	2646	24	2728	14
T702	42	1517	33	3490	14	1659	38	2337	36	2251	34
HBZ374C	4	2631	5	3184	26	2582	11	3129	8	2881	9
XH1752	32	2247	10	3701	10	2599	10	3083	11	2908	8
XH1706	31	2125	12	3790	8	2189	26	3093	10	2799	11
KS92PO263-137	22	2098	15	2883	38	2281	24	2764	19	2506	23
TX93V5919	16	1881	22	3259	22	2067	32	2612	28	2455	25
OK93P735	6	2995	4	3956	4	2660	7	2922	16	3133	4
W91-091	35	1573	29	3207	24	2640	9	2184	38	2401	30
XH1778	33	2028	16	4443	1	2472	17	2699	21	2910	7
WI89-163W	39	1567	30	3399	17	1871	35	3687	2	2631	18
T812	44	1372	37	3205	25	2143	27	2846	17	2391	31
TX93V5922	17	1542	32	3664	11	2481	16	2453	33	2535	21
OK93P656	7	2304	9	3001	30	2720	6	2836	18	2716	15
OK93P727	8	2564	6	3337	19	2545	15	2731	20	2794	12
W88-2619W	41	1566	31	2920	36	1661	37	2140	41	2071	39
NE91651	26	1885	21	2980	31	2334	23	2608	29	2451	26
NE92646	30	1467	35	2975	32	1513	40	3045	12	2250	35
NE92458	28	1820	26	1904	44	2386	19	2608	29	2179	36
W91-287	36	1930	19	3395	18	2656	8	2594	31	2644	17
T834	43	1849	25	3096	28	1398	41	2958	14	2325	32
TX92V3108	14	1196	41	3302	20	2119	29	3043	13	2415	28
N93L058	25	1876	24	3273	21	2115	30	2618	26	2471	24
T861	45	1419	36	2137	43	2278	25	2049	42	1971	42
CO890323	20	1013	42	2830	39	1642	39	2510	32	1999	40
KS93U206	23	2116	13	3858	6	2562	13	2291	37	2707	16
TX92V2519	19	1271	40	3222	23	2078	31	2653	23	2306	33
TX92V4135	12	2147	11	3111	27	2466	18	2696	22	2605	19
CO900166	21	1356	38	2624	40	1347	42	2623	25	1987	41
TX93V4927	18	1603	28	3662	12	2355	21	2438	34	2515	22
NE90476	27	1501	34	3070	29	2043	34	3122	9	2434	27
TX90V6313	11	1684	27	3444	15	2338	22	2154	39	2405	29
NE92614	29	1315	39	2902	37	1847	36	2615	27	2169	37
KS91H153-2	24	2109	14	3743	9	2052	33	2394	35	2574	20
TAM-107	3	888	44	2369	41	1148	43	2141	40	1636	43
WI90-540W	40	1965	18	2963	33	2125	28	1583	44	2159	38
SCOUT66	2	898	43	2267	42	1015	44	2042	43	1555	44
KHARKOF	1	421	45	1421	45	458	45	1412	45	928	45
MEAN		1862		3220		2206		2710		2500	
LSD(.05)		373		627		331		486		520	
C.V.		12.3		11.9		9.2		11.0		11.5	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	HUTCHINSON KANSAS		HAYS KANSAS		MANHATTAN KANSAS		COLBY KANSAS		GARDEN CITY KANSAS		KANSAS STATE MEAN	
WX92-0408	38	2150	2	3470	1	2118	2	3934	12	2930	1	2920	1
TX91D6913	9	931	24	3257	2	984	30	4879	1	2585	7	2527	4
OK91P648	5	1738	7	3129	3	1772	4	3773	18	2300	17	2542	3
XH1798	34	1167	14	2645	16	1412	8	3613	23	2585	6	2284	11
HBE0726-1	13	1243	13	2533	20	1299	13	4117	4	2459	10	2330	9
HBI0531-A2	15	2113	3	2842	8	1969	3	4352	3	2443	12	2744	2
TX91D6991	10	1375	10	2780	10	1749	5	3863	13	2627	4	2479	6
AP 7501	37	1056	16	3111	4	1074	24	3833	14	2737	2	2362	8
T702	42	1041	18	2475	24	1192	18	4024	6	2076	27	2161	16
HBZ374C	4	1294	11	2901	5	1444	6	3951	11	2047	28	2327	10
XH1752	32	721	32	2616	17	1262	14	4010	7	2652	3	2252	14
XH1706	31	487	41	2726	12	609	41	3275	31	2562	8	1932	33
KS92PO263-137	22	1559	9	2508	21	1386	11	4760	2	2260	19	2495	5
TX93V5919	16	984	23	2493	22	752	39	3801	16	1968	35	2000	27
OK93P735	6	819	30	2318	30	1116	22	3421	26	2000	33	1935	32
W91-091	35	780	31	2869	6	1096	23	3813	15	2307	16	2173	15
XH1778	33	577	37	2742	11	1234	16	3224	32	2473	9	2050	23
WI89-163W	39	525	39	2688	14	511	43	3981	9	2020	31	1945	31
T812	44	1945	4	2464	25	1411	9	3672	20	1840	37	2266	13
TX93V5922	17	1775	5	2233	36	1325	12	3654	22	1636	41	2125	18
OK93P656	7	1017	21	2589	18	1247	15	3473	25	1973	34	2060	20
OK93P727	8	863	26	2246	34	993	29	3790	17	2266	18	2032	25
W88-2619W	41	329	42	2849	7	1007	27	3975	10	1966	36	2025	26
NE91651	26	683	34	2262	33	1136	21	3377	27	2338	15	1959	29
NE92646	30	566	38	2486	23	593	42	3160	33	2598	5	1881	36
NE92458	28	832	29	2811	9	1227	17	3312	30	2179	22	2072	19
W91-287	36	1124	15	2464	25	1139	20	2996	38	1775	38	1899	35
T834	43	669	35	2712	13	819	37	4094	5	2358	14	2131	17
TX92V3108	14	1769	6	2282	31	1438	7	3984	8	2414	13	2378	7
N93L058	25	1267	12	2659	15	1034	25	3127	35	2080	26	2033	24
T861	45	2380	1	2278	32	2128	1	3144	34	1430	44	2272	12
CO890323	20	1021	20	2378	27	700	40	3736	19	2448	11	2057	22
KS93U206	23	1726	8	2215	38	1402	10	2946	39	1558	43	1969	28
TX92V2519	19	1051	17	2233	37	929	32	3354	28	2026	30	1919	34
TX92V4135	12	991	22	2071	39	1153	19	2894	40	2143	24	1850	37
CO900166	21	620	36	1984	41	857	35	3098	37	2221	21	1756	40
TX93V4927	18	1030	19	2356	29	833	36	3541	24	2002	32	1952	30
NE90476	27	863	26	2587	19	1004	28	3658	21	2172	23	2057	21
TX90V6313	11	708	33	2053	40	1018	26	2544	42	2105	25	1686	41
NE92614	29	500	40	2367	28	957	31	3313	29	2028	29	1833	39
KS91H153-2	24	884	25	2235	35	792	38	3102	36	2230	20	1849	38
TAM-107	3	857	28	1722	43	912	33	2872	41	1724	39	1617	42
WI90-540W	40	283	43	1589	44	875	34	2219	44	1636	41	1320	43
SCOUT66	2	162	45	1773	42	299	44	2054	45	1650	40	1188	44
KHARKOF	1	169	44	1356	45	238	45	2295	43	1069	45	1026	45
MEAN		1037		2475		1121		3511		2153		2059	
LSD(.05)		464		425		389		534		375		435	
C.V.		27.4		10.5		21.3		9.3		10.7		13.1	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	FORT COLLINS COLORADO		AKRON COLORADO		JULESBURG COLORADO		BURLINGTON COLORADO		COLORADO STATE MEAN	
WX92-0408	38	6330	5	5701	7	4550	1	5942	3	5631	1
TX91D6913	9	6855	1	5891	3	3807	23	5775	5	5582	2
OK91P648	5	5781	11	6210	2	3902	19	5187	16	5270	8
XH1798	34	5566	16	4585	31	4294	8	5710	7	5039	13
HBE0726-1	13	5830	9	5865	5	3739	26	6274	1	5427	4
HBI0531-A2	15	5659	14	4990	18	4322	7	6179	2	5288	6
TX91D6991	10	4814	33	5875	4	4190	12	5369	14	5062	12
AP 7501	37	5786	10	6450	1	4517	3	4772	27	5381	5
T702	42	6104	6	5607	8	3748	25	5136	18	5148	11
HBZ374C	4	5685	13	4550	32	3832	22	5540	11	4902	18
XH1752	32	5403	19	5223	15	4471	4	4506	33	4901	19
XH1706	31	6506	3	4602	30	4035	16	5719	6	5215	9
KS92PO263-137	22	5056	26	4744	24	3635	29	3947	40	4345	31
TX93V5919	16	6563	2	5468	10	4530	2	5552	10	5528	3
OK93P735	6	5609	15	4899	19	3553	32	5596	9	4914	17
W91-091	35	5496	17	5561	9	4048	15	5500	12	5151	10
XH1778	33	5331	20	4128	37	3203	39	5277	15	4485	29
WI89-163W	39	4904	30	4632	28	4190	11	5609	8	4834	22
T812	44	4787	34	5381	12	4249	9	5163	17	4895	20
TX93V5922	17	4954	28	5145	17	4081	13	5932	4	5028	14
OK93P656	7	5248	21	5148	16	3586	31	4953	23	4734	23
OK93P727	8	4117	42	4723	25	3611	30	4767	28	4304	33
W88-2619W	41	5693	12	5303	14	4331	6	4694	30	5005	15
NE91651	26	5152	22	4657	27	3859	21	4822	26	4622	24
NE92646	30	6474	4	5765	6	4193	10	4687	31	5280	7
NE92458	28	5450	18	5410	11	3941	18	5109	19	4977	16
W91-287	36	5047	27	4829	20	3648	28	4852	24	4594	27
T834	43	4899	31	5380	13	4060	14	5089	20	4857	21
TX92V3108	14	4595	36	4760	23	4369	5	4702	29	4607	26
N93L058	25	4173	40	4399	33	3947	17	4163	39	4171	37
T861	45	3595	43	3414	43	3651	27	5009	22	3917	40
CO890323	20	5130	24	4023	38	3179	40	4237	37	4142	39
KS93U206	23	4257	39	4331	34	3526	34	5046	21	4290	34
TX92V2519	19	4620	35	4169	36	3887	20	5475	13	4538	28
TX92V4135	12	5115	25	4680	26	2492	44	4428	35	4179	36
CO900166	21	5897	8	4789	22	3275	38	4491	34	4613	25
TX93V4927	18	4590	37	4320	35	3768	24	4559	32	4309	32
NE90476	27	4922	29	4798	21	3552	33	3838	41	4277	35
TX90V6313	11	4876	32	3461	42	3420	36	4843	25	4150	38
NE92614	29	5929	7	4626	29	3462	35	3656	42	4418	30
KS91H153-2	24	3472	44	3687	40	3357	37	4184	38	3675	42
TAM-107	3	4471	38	3969	39	2943	41	4280	36	3916	41
WI90-540W	40	3342	45	3594	41	2832	42	3597	43	3341	43
SCOUT66	2	4135	41	1861	45	2775	43	2530	44	2825	45
KHARKOF	1	5136	23	2410	44	1917	45	2248	45	2928	44
MEAN		5186		4756		3744		4865		4638	
LSD(.05)		728		952		739		1210		744	
C.V.		8.6		12.3		12.1		15.2		12.3	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	CLAY CENTER NEBRASKA		NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		HEMING-FORD NEBRASKA		NEBRASKA STATE MEAN	
WX92-0408	38	3235	3	5284	1	6301	4	5669	11	5122	1
TX91D6913	9	2690	17	3488	19	6304	3	5745	9	4557	7
OK91P648	5	3282	2	4196	7	6021	11	5237	30	4684	5
XH1798	34	2708	15	2970	29	5990	12	6169	3	4459	14
HBE0726-1	13	3105	7	3172	25	6373	2	5349	26	4500	11
HBI0531-A2	15	1993	35	4636	3	5640	23	4732	42	4250	24
TX91D6991	10	3228	4	4817	2	6487	1	5694	10	5057	2
AP 7501	37	2320	26	4098	11	5949	14	5557	16	4481	12
T702	42	3163	5	4051	12	6153	7	5645	12	4753	3
HBZ374C	4	2219	29	3405	22	5916	17	6348	1	4472	13
XH1752	32	2508	21	3714	17	5427	28	5535	17	4296	23
XH1706	31	1661	41	2647	34	6133	8	6189	2	4158	27
KS92PO263-137	22	2511	20	3717	16	5938	15	5358	25	4381	18
TX93V5919	16	1547	44	4409	5	6158	6	5938	6	4513	10
OK93P735	6	2340	25	3656	18	5936	16	5290	27	4306	22
W91-091	35	2632	18	4111	10	5376	31	5187	31	4326	21
XH1778	33	3125	6	2683	33	5517	25	6005	5	4333	20
WI89-163W	39	2192	31	4147	8	6216	5	5077	35	4408	17
T812	44	3082	9	4125	9	5974	13	5378	23	4640	6
TX93V5922	17	2154	33	4629	4	6066	9	5277	28	4532	8
OK93P656	7	2753	14	2988	28	5149	33	5748	8	4159	26
OK93P727	8	3085	8	4317	6	5736	20	5813	7	4738	4
W88-2619W	41	2838	12	3466	20	5911	18	5441	19	4414	16
NE91651	26	3006	10	3389	23	5562	24	6142	4	4525	9
NE92646	30	1887	38	3441	21	5795	19	5584	13	4177	25
NE92458	28	1961	36	3840	15	6046	10	5573	14	4355	19
W91-287	36	1553	43	2638	35	5497	26	5369	24	3764	36
T834	43	2701	16	2085	41	5687	21	5391	22	3966	32
TX92V3108	14	2495	22	3179	24	5414	30	5254	29	4085	29
N93L058	25	1939	37	4001	13	5073	34	5503	18	4129	28
T861	45	3293	1	3853	14	5667	22	4997	36	4453	15
CO890323	20	2858	11	2694	32	4826	35	4954	37	3833	33
KS93U206	23	2208	30	2708	31	4618	37	5562	15	3774	35
TX92V2519	19	2403	23	3078	27	5425	29	5187	31	4023	30
TX92V4135	12	1995	34	2939	30	5239	32	5091	34	3816	34
CO900166	21	2836	13	2195	39	5479	27	5411	20	3980	31
TX93V4927	18	2179	32	2493	36	3755	43	4353	43	3195	42
NE90476	27	2551	19	2340	37	4557	39	5402	21	3713	37
TX90V6313	11	2221	28	2284	38	4261	41	4746	41	3378	40
NE92614	29	2358	24	1520	43	4501	40	4907	38	3322	41
KS91H153-2	24	2262	27	1993	42	4604	38	4907	39	3442	39
TAM-107	3	1681	40	3123	26	4687	36	5165	33	3664	38
WI90-540W	40	1004	45	2105	40	3773	42	4817	40	2925	43
SCOUT66	2	1560	42	1074	44	3380	44	3549	44	2391	44
KHARKOF	1	1735	39	370	45	2345	45	2950	45	1850	45
MEAN		2424		3246		5397		5315		4095	
LSD(.05)		679		1010		991		1046		751	
C.V.		17.2		19.1		11.2		12.0		14.1	

Table 2. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	PIERRE S. DAKOTA		WINNER S. DAKOTA		BROOKINGS S. DAKOTA		SOUTH DAKOTA STATE MEAN		LIND WASHINGTON		REGIONAL AVERAGE	
WX92-0408	38	4757	2	3466	3	2199	8	3474	1	5208	11	3974	1
TX91D6913	9	3827	11	2318	25	2154	10	2766	12	5153	13	3914	2
OK91P648	5	3712	16	2948	9	2074	14	2911	9	4744	22	3869	3
XH1798	34	3627	19	2372	23	2766	1	2922	8	5891	3	3765	4
HBE0726-1	13	4093	6	1899	35	2044	15	2679	17	5097	15	3744	5
HBI0531-A2	15	3887	10	3069	8	1448	34	2801	11	4480	29	3683	6
TX91D6991	10	4042	8	1926	34	2251	7	2739	14	4318	35	3653	7
AP 7501	37	4405	4	2437	20	2109	11	2984	6	5704	5	3651	8
T702	42	3930	9	3694	2	1796	26	3140	3	5912	2	3622	9
HBZ374C	4	4434	3	2663	14	2044	15	3047	5	5260	9	3561	10
XH1752	32	2457	41	2107	32	2329	4	2298	31	5413	7	3549	11
XH1706	31	3640	18	2168	31	1473	33	2427	28	5967	1	3494	12
KS92PO263-137	22	4069	7	2562	16	1854	23	2828	10	4783	20	3472	13
TX93V5919	16	2011	42	2710	13	1403	37	2041	42	4867	18	3451	14
OK93P735	6	3475	26	1753	39	2446	2	2558	22	4216	41	3432	15
W91-091	35	3141	31	2609	15	1585	30	2445	26	4556	27	3383	16
XH1778	33	3035	33	1475	42	2172	9	2227	33	5421	6	3382	17
WI89-163W	39	3490	25	2367	24	1141	43	2333	30	5196	12	3379	18
T812	44	3746	13	3349	4	1845	24	2980	7	4318	36	3377	19
TX93V5922	17	924	45	2883	10	641	45	1482	44	5127	14	3352	20
OK93P656	7	3499	24	2177	30	2020	19	2565	21	4378	32	3337	21
OK93P727	8	2531	39	1661	40	2033	17	2075	41	4683	25	3322	22
W88-2619W	41	3416	27	1818	37	1502	32	2245	32	5815	4	3301	23
NE91651	26	3499	23	2035	33	2004	20	2513	25	4944	16	3282	24
NE92646	30	4152	5	2378	22	1439	35	2656	18	4762	21	3266	25
NE92458	28	3150	30	1854	36	1661	28	2221	34	3942	43	3247	26
W91-287	36	3611	20	2251	28	1426	36	2429	27	4935	17	3233	27
T834	43	2957	34	3111	7	1527	31	2532	24	4274	37	3219	28
TX92V3108	14	3535	22	2275	26	1816	25	2542	23	3783	44	3205	29
N93L058	25	3667	17	2271	27	2280	5	2739	15	4806	19	3179	30
T861	45	4779	1	3871	1	1244	41	3298	2	4259	39	3139	31
CO890323	20	3403	28	2764	11	2105	12	2757	13	5391	8	3131	32
KS93U206	23	3714	15	3324	5	2349	3	3129	4	4494	28	3124	33
TX92V2519	19	2726	38	2755	12	1119	44	2200	36	4374	33	3108	34
TX92V4135	12	3726	14	1412	43	1370	38	2169	39	4368	34	3107	35
CO900166	21	2892	35	2461	18	1253	39	2202	35	4714	24	3078	36
TX93V4927	18	2831	37	2428	21	1251	40	2170	38	4241	40	3033	37
NE90476	27	2531	39	2221	29	2271	6	2341	29	3592	45	3015	38
TX90V6313	11	3371	29	2455	19	2004	20	2610	20	4624	26	2990	39
NE92614	29	2892	35	1760	38	1751	27	2134	40	5234	10	2955	40
KS91H153-2	24	3549	21	2497	17	2089	13	2712	16	4724	23	2945	41
TAM-107	3	3064	32	3188	6	1594	29	2615	19	4479	30	2745	42
WI90-540W	40	3804	12	1562	41	1199	42	2189	37	4270	38	2529	43
SCOUT66	2	1042	44	1038	44	1923	22	1335	45	4441	31	2124	44
KHARKOF	1	1585	43	966	45	2031	18	1527	43	4159	42	1842	45
MEAN		3347		2385		1801		2511		4785		3270	
LSD(.05)		891		725		834		971		1126		284	
C.V.		16.3		18.6		28.4		20.0		16.8		14.7	

Table 3. Summary of mean yields (kg/ha) and ranks for 45 wheats in the 1995 Southern Regional Performance Nursery at 15 locations from which a CV of 15.0 or less and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	FARMINGTON NEW MEXICO		PROSPER TEXAS		BUSHLAND (IRR.) TEXAS		STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		HAYS KANSAS	
TX91D6913	9	7952	7	4084	3	5853	12	3364	1	3436	16	2722	5	3785	1	3257	2
OK91P648	5	8509	1	4504	1	6075	8	3110	2	3553	13	3493	1	3210	7	3129	3
HBE0726-1	13	8307	2	3723	12	6602	2	1992	17	4187	2	2916	3	3426	4	2533	20
WX92-0408	38	7460	15	3800	8	5768	16	2353	8	2941	35	3036	2	2941	15	3470	1
XH1798	34	7930	8	4143	2	6191	7	3045	3	3890	5	2780	4	3280	6	2645	16
AP 7501	37	7820	9	2883	37	5714	23	1928	20	3792	7	2547	14	2646	24	3111	4
XH1706	31	7607	12	3208	30	6622	1	2125	12	3790	8	2189	26	3093	10	2726	12
TX91D6991	10	7803	10	3537	19	5739	20	2364	7	2952	34	2374	20	3379	5	2780	10
HBI0531-A2	15	6702	27	3858	5	6330	4	1881	22	4152	3	2580	12	3583	3	2842	8
XH1752	32	7420	16	3728	11	5855	11	2247	10	3701	10	2599	10	3083	11	2616	17
HBZ374C	4	6947	22	3616	16	5602	27	2631	5	3184	26	2582	11	3129	8	2901	5
TX93V5919	16	7589	13	3091	32	5510	32	1881	22	3259	22	2067	32	2612	28	2493	22
OK93P735	6	7088	19	3679	14	5723	22	2995	4	3956	4	2660	7	2922	16	2318	30
T702	42	8158	3	2977	34	5985	9	1517	33	3490	14	1659	38	2337	36	2475	24
KS92PO263-137	22	7582	14	3894	4	5696	24	2098	15	2883	38	2281	24	2764	19	2508	21
W91-091	35	8050	6	3309	25	5667	25	1573	29	3207	24	2640	9	2184	38	2869	6
XH1778	33	6881	23	3804	7	6194	6	2028	16	4443	1	2472	17	2699	21	2742	11
WI89-163W	39	7120	18	2681	41	6517	3	1567	30	3399	17	1871	35	3687	2	2688	14
TX93V5922	17	8087	5	3228	29	5725	21	1542	32	3664	11	2481	16	2453	33	2233	36
W88-2619W	41	8115	4	2688	40	5449	36	1566	31	2920	36	1661	37	2140	41	2849	7
OK93P656	7	6686	28	3450	22	5849	13	2304	9	3001	30	2720	6	2836	18	2589	18
OK93P727	8	7158	17	3562	18	5225	39	2564	6	3337	19	2545	15	2731	20	2246	34
NE92458	28	7021	20	3430	23	5508	33	1820	26	1904	44	2386	19	2608	29	2811	9
NE92646	30	6716	25	2116	44	5454	35	1467	35	2975	32	1513	40	3045	12	2486	23
W91-287	36	7657	11	3531	20	5660	26	1930	19	3395	18	2656	8	2594	31	2464	25
T834	43	5968	35	2831	39	6218	5	1849	25	3096	28	1398	41	2958	14	2712	13
NE91651	26	6567	31	3584	17	5243	38	1885	21	2980	31	2334	23	2608	29	2262	33
T812	44	5651	37	3719	13	5750	19	1372	37	3205	25	2143	27	2846	17	2464	25
TX92V3108	14	5573	39	3125	31	5808	14	1196	41	3302	20	2119	29	3043	13	2282	31
TX92V4135	12	7004	21	3369	24	5752	18	2147	11	3111	27	2466	18	2696	22	2071	39
N93L058	25	6657	29	3078	33	5418	37	1876	24	3273	21	2115	30	2618	26	2659	15
TX92V2519	19	6712	26	2869	38	5503	34	1271	40	3222	23	2078	31	2653	23	2233	37
NE90476	27	4877	40	3304	26	5564	30	1501	34	3070	29	2043	34	3122	9	2587	19
CO900166	21	6533	32	2571	42	5580	29	1356	38	2624	40	1347	42	2623	25	1984	41
NE92614	29	6768	24	2961	35	4867	42	1315	39	2902	37	1847	36	2615	27	2367	28
CO890323	20	6496	33	3271	28	5936	10	1013	42	2830	39	1642	39	2510	32	2378	27
KS93U206	23	4866	41	3732	10	5754	17	2116	13	3858	6	2562	13	2291	37	2215	38
TX93V4927	18	5762	36	3762	9	5539	31	1603	28	3662	12	2355	21	2438	34	2356	29
TX90V6313	11	6622	30	3833	6	5597	28	1684	27	3444	15	2338	22	2154	39	2053	40
KS91H153-2	24	4590	43	3475	21	5790	15	2109	14	3743	9	2052	33	2394	35	2235	35
T861	45	5588	38	3643	15	4820	44	1419	36	2137	43	2278	25	2049	42	2278	32
TAM-107	3	4704	42	3282	27	5026	41	888	44	2369	41	1148	43	2141	40	1722	43
WI90-540W	40	6311	34	2955	36	4855	43	1965	18	2963	33	2125	28	1583	44	1589	44
SCOUT66	2	4231	45	2443	43	5073	40	898	43	2267	42	1015	44	2042	43	1773	42
KHARKOF	1	4360	44	1226	45	3389	45	421	45	1421	45	458	45	1412	45	1356	45
MEAN		6760		3323		5644		1862		3220		2206		2710		2475	
LSD(.05)		1129		493		700		373		627		331		486		425	
C.V.		11.9		9.1		7.6		12.3		11.9		9.2		11.0		10.5	

Table 3. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	COLBY KANSAS		GARDEN CITY KANSAS		FORT COLLINS COLORADO		AKRON COLORADO		JULESBURG COLORADO		SIDNEY NEBRASKA		HEMING-FORD NEBRASKA		REGIONAL AVERAGE	
TX91D6913	9	4879	1	2585	7	6855	1	5891	3	3807	23	6304	3	5745	9	4701	1
OK91P648	5	3773	18	2300	17	5781	11	6210	2	3902	19	6021	11	5237	30	4587	2
HBE0726-1	13	4117	4	2459	10	5830	9	5865	5	3739	26	6373	2	5349	26	4494	3
WX92-0408	38	3934	12	2930	1	6330	5	5701	7	4550	1	6301	4	5669	11	4479	4
XH1798	34	3613	23	2585	6	5566	16	4585	31	4294	8	5990	12	6169	3	4447	5
AP 7501	37	3833	14	2737	2	5786	10	6450	1	4517	3	5949	14	5557	16	4351	6
XH1706	31	3275	31	2562	8	6506	3	4602	30	4035	16	6133	8	6189	2	4311	7
TX91D6991	10	3863	13	2627	4	4814	33	5875	4	4190	12	6487	1	5694	10	4298	8
HBI0531-A2	15	4352	3	2443	12	5659	14	4990	18	4322	7	5640	23	4732	42	4271	9
XH1752	32	4010	7	2652	3	5403	19	5223	15	4471	4	5427	28	5535	17	4265	10
HBZ374C	4	3951	11	2047	28	5685	13	4550	32	3832	22	5916	17	6348	1	4195	12
TX93V5919	16	3801	16	1968	35	6563	2	5468	10	4530	2	6158	6	5938	6	4195	11
OK93P735	6	3421	26	2000	33	5609	15	4899	19	3553	32	5936	16	5290	27	4137	13
T702	42	4024	6	2076	27	6104	6	5607	8	3748	25	6153	7	5645	12	4130	14
KS92PO263-137	22	4760	2	2260	19	5056	26	4744	24	3635	29	5938	15	5358	25	4097	15
W91-091	35	3813	15	2307	16	5496	17	5561	9	4048	15	5376	31	5187	31	4086	16
XH1778	33	3224	32	2473	9	5331	20	4128	37	3203	39	5517	25	6005	5	4076	17
WI89-163W	39	3981	9	2020	31	4904	30	4632	28	4190	11	6216	5	5077	35	4037	18
TX93V5922	17	3654	22	1636	41	4954	28	5145	17	4081	13	6066	9	5277	28	4015	19
W88-2619W	41	3975	10	1966	36	5693	12	5303	14	4331	6	5911	18	5441	19	4000	20
OK93P656	7	3473	25	1973	34	5248	21	5148	16	3586	31	5149	33	5748	8	3984	21
OK93P727	8	3790	17	2266	18	4117	42	4723	25	3611	30	5736	20	5813	7	3962	22
NE92458	28	3312	30	2179	22	5450	18	5410	11	3941	18	6046	10	5573	14	3960	23
NE92646	30	3160	33	2598	5	6474	4	5765	6	4193	10	5795	19	5584	13	3956	24
W91-287	36	2996	38	1775	38	5047	27	4829	20	3648	28	5497	26	5369	24	3936	25
T834	43	4094	5	2358	14	4899	31	5380	13	4060	14	5687	21	5391	22	3927	26
NE91651	26	3377	27	2338	15	5152	22	4657	27	3859	21	5562	24	6142	4	3903	27
T812	44	3672	20	1840	37	4787	34	5381	12	4249	9	5974	13	5378	23	3895	28
TX92V3108	14	3984	8	2414	13	4595	36	4760	23	4369	5	5414	30	5254	29	3816	29
TX92V4135	12	2894	40	2143	24	5115	25	4680	26	2492	44	5239	32	5091	34	3751	30
N93L058	25	3127	35	2080	26	4173	40	4399	33	3947	17	5073	34	5503	18	3733	31
TX92V2519	19	3354	28	2026	30	4620	35	4169	36	3887	20	5425	29	5187	31	3681	32
NE90476	27	3658	21	2172	23	4922	29	4798	21	3552	33	4557	39	5402	21	3675	33
CO900166	21	3098	37	2221	21	5897	8	4789	22	3275	38	5479	27	5411	20	3653	34
NE92614	29	3313	29	2028	29	5929	7	4626	29	3462	35	4501	40	4907	38	3627	35
CO890323	20	3736	19	2448	11	5130	24	4023	38	3179	40	4826	35	4954	37	3625	36
KS93U206	23	2946	39	1558	43	4257	39	4331	34	3526	34	4618	37	5562	15	3613	37
TX93V4927	18	3541	24	2002	32	4590	37	4320	35	3768	24	3755	43	4353	43	3587	38
TX90V6313	11	2544	42	2105	25	4876	32	3461	42	3420	36	4261	41	4746	41	3543	39
KS91H153-2	24	3102	36	2230	20	3472	44	3687	40	3357	37	4604	38	4907	39	3450	40
T861	45	3144	34	1430	44	3595	43	3414	43	3651	27	5667	22	4997	36	3341	41
TAM-107	3	2872	41	1724	39	4471	38	3969	39	2943	41	4687	36	5165	33	3141	42
WI90-540W	40	2219	44	1636	41	3342	45	3594	41	2832	42	3773	42	4817	40	3104	43
SCOUT66	2	2054	45	1650	40	4135	41	1861	45	2775	43	3380	44	3549	44	2610	44
KHARKOF	1	2295	43	1069	45	5136	23	2410	44	1917	45	2345	45	2950	45	2144	45
MEAN		3511		2153		5186		4756		3744		5397		5315		3884	
LSD(.05)		534		375		728		952		739		991		1046		357	
C.V.		9.3		10.7		8.6		12.3		12.1		11.2		12.0		11.7	

Table 4. Summary of mean yields (kg/ha) and ranks of 45 wheats grown in the Southern Regional Performance Nursery for 5 intra-regional production zones (after Peterson, 1992).

C.I. OR SEL. NO.	ENTRY NO.	SOUTH-CENTRAL PLAINS		NORTH-CENTRAL PLAINS		NORTHERN HIGH PLAINS		INTER-MOUNTAIN WEST		SOUTHERN HIGH PLAINS		REGIONAL AVERAGE	
Number of locations		8		5		6		4		3		27	
WX92-0408	38	3307	6	3155	1	5285	1	6167	8	1654	10	3974	1
TX91D6913	9	3429	2	2395	14	5024	3	6426	3	2363	1	3914	2
OK91P648	5	3602	1	2757	3	4882	9	6068	10	1517	20	3869	3
XH1798	34	3393	4	2577	8	4527	18	6389	4	1608	14	3765	4
HBE0726-1	13	3328	5	2488	10	4923	7	6145	9	1815	4	3744	5
HBI0531-A2	15	3417	3	2473	12	5020	4	5393	30	1813	5	3683	6
TX91D6991	10	3062	11	2639	6	5100	2	5657	21	1644	11	3653	7
AP 7501	37	2960	16	2469	13	4937	6	6217	7	1582	16	3651	8
T702	42	2685	33	2755	4	4786	11	6454	2	1720	8	3622	9
HBZ374C	4	3117	9	2561	9	4532	17	6060	11	1421	29	3561	10
XH1752	32	3069	10	2133	26	4559	16	5943	12	1873	2	3549	11
XH1706	31	3030	13	1910	39	4402	23	6567	1	1659	9	3494	12
KS92PO263-137	22	2960	15	2476	11	4457	22	5695	20	1801	6	3472	13
TX93V5919	16	2737	29	1685	42	4986	5	6239	6	1774	7	3451	14
OK93P735	6	3134	7	2226	21	4510	19	5551	24	1452	24	3432	15
W91-091	35	2779	27	2212	24	4735	13	5822	16	1271	37	3383	16
XH1778	33	3120	8	2208	25	4005	32	5910	13	1501	21	3382	17
WI89-163W	39	2867	21	1940	37	4796	10	5574	23	1551	19	3379	18
T812	44	2930	17	2687	5	4761	12	5034	35	1092	41	3377	19
TX93V5922	17	2888	19	1585	43	4918	8	5861	15	1429	27	3352	20
OK93P656	7	2971	14	2339	16	4216	28	5515	25	1450	25	3337	21
OK93P727	8	2884	20	2060	31	4491	21	5443	28	1431	26	3322	22
W88-2619W	41	2450	39	2116	27	4613	14	6266	5	1267	38	3301	23
NE91651	26	2697	32	2336	17	4278	26	5701	19	1415	30	3282	24
NE92646	30	2453	38	2090	29	4507	20	5884	14	1599	15	3266	25
NE92458	28	2662	34	1971	35	4610	15	5496	26	1421	28	3247	26
W91-287	36	2919	18	1996	33	4077	31	5752	17	1468	22	3233	27
T834	43	2716	31	2223	22	4399	25	5133	34	1304	34	3219	28
TX92V3108	14	2831	24	2312	18	4401	24	4801	36	1294	35	3205	29
N93L058	25	2788	26	2238	19	4119	30	5285	31	1131	40	3179	30
T861	45	2625	35	3063	2	4123	29	4610	42	852	45	3139	31
CO890323	20	2575	37	2366	15	3783	36	5493	27	1616	13	3131	32
KS93U206	23	3032	12	2600	7	3862	34	4794	37	905	44	3124	33
TX92V2519	19	2610	36	1986	34	4231	27	5223	32	1390	32	3108	34
TX92V4135	12	2825	25	1931	38	3779	37	5395	29	1553	18	3107	35
CO900166	21	2338	41	2060	32	3888	33	5639	22	1581	17	3078	36
TX93V4927	18	2843	22	1904	40	3739	38	4737	38	1853	3	3033	37
NE90476	27	2757	28	2116	28	3791	35	4698	40	1460	23	3015	38
TX90V6313	11	2727	30	2214	23	3469	42	5217	33	1310	33	2990	39
NE92614	29	2422	40	1943	36	3513	40	5710	18	1406	31	2955	40
KS91H153-2	24	2835	23	2238	20	3488	41	4423	43	1632	12	2945	41
TAM-107	3	2179	43	2088	30	3646	39	4705	39	1042	43	2745	42
WI90-540W	40	2290	42	1689	41	3020	43	4685	41	1083	42	2529	43
SCOUT66	2	1959	44	1173	45	2279	44	4089	45	1285	36	2124	44
KHARKOF	1	1232	45	1311	44	1931	45	4152	44	1250	39	1842	45
MEAN		2810		2215		4253		5512		1479		3270	
LSD(.05)		375		628		534		829		547		284	
C.V.		10.9		20.0		13.4		12.9		22.4		14.7	

Table 5. Summary of mean yields (kg/ha) and ranks for 11 wheats grown in the Southern Regional Performance Nursery at 25 sites in 1994 and 1995 with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	PROSPER TEXAS		BUSHLAND (IRR.) TEXAS		BUSHLAND (DRYL.) TEXAS		TEXAS STATE MEAN	
HRE LT-11/4/Hmstd/3/Ctk//IN4946../MOW747	HBE0726-1	13	3248	4	6362	1	1727	5	3779	2
QUANTUM HYBRID WHEAT	XH1706	31	3065	7	6350	2	1993	1	3803	1
IL71-5662/PL145//2165	HBZ374C	4	3408	1	5761	4	1518	8	3562	5
W2440/W9488A//2163	KS92PO263-137	22	3334	2	5643	6	1798	3	3592	3
TAM-107*3/TA2460	KS93U206	23	3269	3	6033	3	1444	11	3582	4
NE82671/NE80413	NE91651	26	3087	6	5605	8	1581	7	3425	6
Brule//Buc 's'/Bjy 's'/3/TX78V3924-5-3	TX92V4135	12	2961	8	5749	5	1518	9	3409	7
TX81V6603/TX78A3345-V34	TX90V6313	11	3091	5	5409	9	1615	6	3372	8
TAM-107	TAM-107	3	2845	9	5634	7	1481	10	3320	9
Scout 66	SCOUT66	2	1993	10	4845	10	1738	4	2859	10
Kharkof	KHARKOF	1	998	11	3064	11	1829	2	1964	11
	MEAN		2845		5496		1658		3333	
	LSD(.05)		541		961		N.S.		949	
	C.V.		9.3		7.3		13.0		9.1	

Table 5. Continued.

C.I. OR SEL. NO.	ENTRY NO.	STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		OKLAHOMA STATE MEAN		CLOVIS (IRR.) NEW MEXICO		CLOVIS* (DRYL.) NEW MEXICO	
HBE0726-1	13	3251	4	4537	1	4162	1	3980	2	3983	1	3871	1	266	9
XH1706	31	3380	2	4318	3	4027	2	3988	1	3928	2	3714	2	424	1
HBZ374C	4	3584	1	3810	7	3680	4	3909	3	3746	3	3027	4	184	11
KS92PO263-137	22	3294	3	3717	8	3655	5	3531	4	3549	5	3352	3	327	5
KS93U206	23	3107	6	4381	2	3932	3	3402	6	3705	4	2339	8	398	3
NE91651	26	2783	7	3973	5	3614	6	3047	7	3354	7	2755	5	286	8
TX92V4135	12	3186	5	3919	6	3375	7	3493	5	3493	6	2223	9	228	10
TX90V6313	11	2731	8	4060	4	3220	8	2992	9	3251	8	2366	7	325	6
TAM-107	3	2150	9	3332	9	2533	9	2997	8	2753	9	1989	10	399	2
SCOUT66	2	1630	10	2710	10	1800	10	2395	10	2134	10	1725	11	380	4
KHARKOF	1	1137	11	1733	11	900	11	1846	11	1404	11	2370	6	286	7
MEAN		2748		3681		3173		3234		3209		2703		319	
LSD(.05)		628		741		1187		738		674		N.S.		N.S.	
C.V.		12.6		9.7		11.6		8.1		10.5		29.9		35.4	

* Not included in state or regional means.

Table 5. Continued.

C.I. OR SEL. NO.	ENTRY NO.	HUTCHINSON KANSAS		HAYS KANSAS		MANHATTAN KANSAS		COLBY KANSAS		GARDEN CITY KANSAS		KANSAS STATE MEAN	
HBE0726-1	13	2233	4	3382	2	2574	1	3895	2	2284	4	2873	2
XH1706	31	2213	5	3575	1	2185	7	3294	5	2706	1	2795	4
HBZ374C	4	2496	3	3252	3	2534	2	3648	3	2156	5	2817	3
KS92PO263-137	22	2716	2	2884	6	2447	3	4163	1	2375	3	2917	1
KS93U206	23	2735	1	3209	4	2401	4	3414	4	2140	6	2780	5
NE91651	26	2161	7	2512	9	2199	6	3264	6	2132	7	2453	7
TX92V4135	12	1944	9	2922	5	2085	8	2874	9	2076	8	2380	9
TX90V6313	11	2044	8	2819	7	2057	9	3061	8	2382	2	2472	6
TAM-107	3	2202	6	2615	8	2203	5	3138	7	1954	9	2422	8
SCOUT66	2	1288	10	2478	10	699	10	2385	11	1844	10	1739	10
KHARKOF	1	1097	11	1718	11	383	11	2540	10	1344	11	1416	11
MEAN		2103		2851		1979		3243		2126		2460	
LSD(.05)		782		846		1261		N.S.		N.S.		553	
C.V.		12.6		11.5		13.5		15.2		11.9		13.5	

Table 5 Continued.

C.I. OR SEL. NO.	ENTRY NO.	AKRON COLORADO		JULESBURG COLORADO		BURLINGTON COLORADO		COLORADO STATE MEAN		PIERRE S. DAKOTA		WINNER S. DAKOTA		BROOKINGS S. DAKOTA		SOUTH DAKOTA STATE MEAN	
HBE0726-1	13	3797	1	2687	5	4842	1	3775	1	3420	4	2818	5	1993	2	2743	3
XH1706	31	3341	2	3201	1	4685	2	3742	2	3189	6	3296	2	1658	8	2714	4
HBZ374C	4	3111	6	2955	2	4358	3	3475	3	3802	1	2869	4	1936	3	2869	2
KS92PO263-137	22	3287	3	2688	4	3632	8	3202	6	3587	2	2723	7	1771	7	2693	5
KS93U206	23	2995	7	2768	3	4151	4	3305	4	3580	3	3414	1	1789	6	2928	1
NE91651	26	3130	5	2651	6	4042	5	3274	5	3226	5	2765	6	1836	5	2609	6
TX92V4135	12	3274	4	1904	10	3666	7	2948	8	3061	9	2301	9	1306	11	2223	9
TX90V6313	11	2633	9	2524	7	3824	6	2994	7	3077	8	2430	8	1581	9	2363	8
TAM-107	3	2826	8	2357	8	3470	9	2884	9	3182	7	2944	3	1373	10	2500	7
SCOUT66	2	1907	10	2256	9	2665	10	2276	10	1880	11	2106	10	1933	4	1973	11
KHARKOF	1	1772	11	1663	11	2310	11	1915	11	1961	10	1964	11	2289	1	2071	10
MEAN		2922		2514		3781		3072		3088		2694		1769		2517	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.	
C.V.		16.9		15.0		12.4		14.7		16.4		16.8		28.8		19.5	

Table 5. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	CLAY CENTER NEBRASKA		NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		HEMING-FORD NEBRASKA		NEBRASKA STATE MEAN		COLUMBIA MISSOURI		REGIONAL AVERAGE	
HBE0726-1	13	3502	1	3006	7	5658	1	4823	4	4247	3	3052	4	3546	1
XH1706	31	3373	2	3378	3	5447	2	5471	1	4417	1	2747	8	3525	2
HBZ374C	4	3079	7	3328	4	4952	4	5042	3	4100	5	3002	6	3384	3
KS92PO263-137	22	3335	4	3857	1	5144	3	4749	6	4271	2	3272	1	3373	4
KS93U206	23	3290	6	3090	6	4502	6	4758	5	3910	6	2865	7	3292	5
NE91651	26	3345	3	3392	2	4760	5	5268	2	4191	4	3081	3	3175	6
TX92V4135	12	3073	8	2602	8	4273	7	4702	7	3663	8	3036	5	2980	7
TX90V5313	11	3304	5	2439	9	3941	9	4238	9	3481	9	2620	9	2936	8
TAM-107	3	3021	9	3192	5	4119	8	4654	8	3746	7	3159	2	2890	9
SCOUT66	2	2595	10	2151	10	3545	10	3333	10	2906	10	2251	10	2256	10
KHARKOF	1	2304	11	1458	11	2868	11	3195	11	2456	11	1714	11	1852	11
MEAN		3111		2899		4474		4567		3763		2800		3019	
LSD(.05)		N.S.		N.S.		1499		1239		1041		822		365	
C.V.		10.4		20.7		15.4		13.4		15.1		8.5		14.5	

Table 6. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from regression from linear regression analysis of variety mean yield on nursery mean yield for the 45 entries in the 1995 Southern Regional Performance Nursery grown at 27 locations.

C.I. OR SEL. NO.	ENTRY NO.	27 SITE REGIONAL AVERAGE KG/HA	REGRESSION COEFFICIENT (b)	COEFFICIENT OF DETERMINATION (r2)	DEVIATIONS FROM REGRESSION (MEAN SQUARE)
WX92-0408	38	3974	1.03	0.91	265381
TX91D6913	9	3914	1.08	0.92	248899
OK91P648	5	3869	1.05	0.92	239918
XH1798	34	3765	1.09	0.94	184232
HBE0726-1	13	3744	1.17	0.95	186956
HBI0531-A2	15	3683	0.96	0.90	281191
TX91D6991	10	3653	1.05	0.92	247612
AP 7501	37	3651	1.14	0.95	191365
T702	42	3622	1.16	0.94	211395
HBZ374C	4	3561	1.05	0.96	115162
XH1752	32	3549	1.02	0.94	164697
XH1706	31	3494	1.24	0.96	179830
KS92PO263-137	22	3472	0.98	0.93	174952
TX93V5919	16	3451	1.17	0.92	310469
OK93P735	6	3432	1.02	0.94	165761
W91-091	35	3383	1.13	0.96	146091
XH1778	33	3382	1.06	0.93	236286
WI89-163W	39	3379	1.14	0.94	200542
T812	44	3377	0.95	0.90	260332
TX93V5922	17	3352	1.13	0.86	550968
OK93P656	7	3337	0.98	0.98	58614
OK93P727	8	3322	0.99	0.92	233908
W88-2619W	41	3301	1.21	0.96	177591
NE91651	26	3282	1.02	0.97	77697
NE92646	30	3266	1.13	0.93	251839
NE92458	28	3247	1.07	0.94	180276
W91-287	36	3233	1.07	0.96	133722
T834	43	3219	1.03	0.92	249968
TX92V3108	14	3205	0.90	0.92	179285
N93L058	25	3179	0.95	0.94	144523
T861	45	3139	0.79	0.73	612823
CO890323	20	3131	0.96	0.94	159528
KS93U206	23	3124	0.83	0.85	327237
TX92V2519	19	3108	1.01	0.97	91840
TX92V4135	12	3107	0.99	0.94	159341
CO900166	21	3078	1.04	0.93	199285
TX93V4927	18	3033	0.81	0.91	179467
NE90476	27	3015	0.82	0.90	204750
TX90V6313	11	2990	0.93	0.93	175684
NE92614	29	2955	0.98	0.91	241735
KS91H153-2	24	2945	0.76	0.85	265166
TAM-107	3	2745	0.88	0.91	206077
WI90-540W	40	2529	0.89	0.88	282954
SCOUT66	2	2124	0.70	0.75	431926
KHARKOF	1	1842	0.64	0.65	585951

Table 7. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from regression from linear regression analysis of variety mean yield on nursery mean yield for the 11 entries in the 1994 and 1995 Southern Regional Performance Nursery grown at 25 locations.

C.I. OR SEL. NO.	ENTRY NO.	25 SITE REGIONAL AVERAGE KG/HA	REGRESSION COEFFICIENT (b)	COEFFICIENT OF DETERMINATION (r2)	DEVIATIONS FROM REGRESSION (MEAN SQUARE)
HBE0726-1	13	3546	1.20	0.91	208034
XH1706	31	3525	1.29	0.92	201837
HBZ374C	4	3384	1.07	0.92	133949
KS92PO263-137	22	3373	1.00	0.91	140283
KS93U206	23	3292	1.09	0.92	149502
NE91651	26	3175	1.09	0.93	115031
TX92V4135	12	2980	1.02	0.88	190286
TX90V6313	11	2936	0.96	0.92	106807
TAM-107	3	2890	1.04	0.90	167699
SCOUT66	2	2256	0.72	0.68	337111
KHARKOF	1	1852	0.52	0.46	433203

Table 8. Summary of agronomic and yield data for 45 wheats grown in the 1995 Southern Regional Performance Nursery.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LODGING %	SHATTER %
NUMBER OF LOCATIONS			24	19	2	5	1
AGRIPRO SEEDS HYBRID WHEAT	WX92-0408	38	81	134	97	6	90
PRO 812/CALDWELL//TX86D1310	TX91D6913	9	86	137	91	6	30
2555 sib/Vona//2180	OK91P648	5	78	133	95	10	70
QUANTUM HYBRID WHEAT	XH1798	34	84	132	96	14	30
HRE LT-11/4/Hmstd/3/Ctk//IN4946../MOW747	HBE0726-1	13	82	138	94	19	30
WVE047*2180/2157*HGE013	HBI0531-A2	15	79	135	89	1	40
TX86D1310/KAVKAZ//TX86D1308	TX91D6991	10	81	135	88	7	60
AGRIPRO SEEDS HYBRID WHEAT	AP 7501	37	82	136	93	2	80
COKER 68-15/TAM-107	T702	42	80	135	91	13	50
IL71-5662/PL145//2165	HBZ374C	4	86	136	90	7	30
QUANTUM HYBRID WHEAT	XH1752	32	89	135	96	17	30
QUANTUM HYBRID WHEAT	XH1706	31	85	133	94	7	40
W2440/W9488A//2163	KS92PO263-137	22	87	136	96	1	80
TX85V1830/TX84V1307	TX93V5919	16	84	136	80	13	50
HBY250A/HGF004	OK93P735	6	79	136	94	6	40
854552#3/MESA SIB	W91-091	35	76	133	94	9	70
QUANTUM HYBRID WHEAT	XH1778	33	78	134	94	11	30
N84-1104/ABILENE	WI89-163W	39	78	138	96	0	30
TAM-107/T213 SIB	T812	44	80	132	95	18	40
TX85V1830/TX84V1307	TX93V5922	17	82	134	66	3	60
W0405D/HGF112//W7469C/HGF012	OK93P656	7	81	133	92	9	40
SGC008/W1060B//HBY242G2	OK93P727	8	81	135	92	5	50
W81-133-2/RIO BLANCO	W88-2619W	41	79	135	95	4	60
NE82671/NE80413	NE91651	26	86	133	94	6	70
NE82413/Colt	NE92646	30	86	138	96	19	30
OK83201/Redland	NE92458	28	87	135	96	16	80
W85-084/W85-225	W91-287	36	80	133	99	5	70
T213 SIB *2/TAM-107	T834	43	85	137	96	25	40
TAM-200/KARL	TX92V3108	14	82	133	98	5	40
KS831936-3//Colt/Cody	N93L058	25	79	135	95	1	70
TAM-107/CALDWELL	T861	45	83	132	98	7	90
TAM-200/TAM-107	CO890323	20	85	134	94	43	80
TAM-107*3/TA2460	KS93U206	23	83	132	92	7	50
OK82377/TX81V6603-2	TX92V2519	19	77	136	90	14	50
Brule//Buc 's'/Bjy 's'/3/TX78V3924-5-3	TX92V4135	12	79	132	96	7	60
HARPOOL SEL./SANDY	CO900166	21	83	135	96	29	70
TX87V1913/TAM-200	TX93V4927	18	74	137	83	15	70
Bennett/Brule Composite	NE90476	27	84	137	93	27	60
TX81V6603/TX78A3345-V34	TX90V6313	11	78	134	90	23	60
Centura/RL820003	NE92614	29	92	138	98	22	70
HF5761/TAM-105//Bounty Hybrid 203	KS91H153-2	24	81	137	94	16	40
TAM-107	TAM-107	3	81	132	88	4	40
VICTORY SIB/2165	WI90-540W	40	75	133	95	9	60
Scout 66	SCOUT66	2	95	138	94	64	30
Kharkof	KHARKOF	1	102	143	94	71	30

Table 8. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	STRIPE RUST SEV. %	LEAF RUST SEVERITY %	LEAF RUST SEVERITY 0-9	SEPTORIA 0-9	MILDEW 0-9	BYD VIRUS %	GRN LEAF DURATION 0-9	VOLUME WEIGHT KG/HL	YIELD KG/HA
NUMBER OF LOCATIONS		1	2	3	1	1	1	3	29	27
WX92-0408	38	0	35	3.3	5.7	7	4	3.6	75.8	3974
TX91D6913	9	80	3	1.2	5	7	4	4.2	73.2	3914
OK91P648	5	80	10	1.1	3	6	7	5.2	73.1	3869
XH1798	34	75	13	3	4.7	10	4	5.2	76.5	3765
HBE0726-1	13	25	6	1.1	3	9	5	5.1	73.8	3744
HBI0531-A2	15	90	30	3.7	5.5	7	8	5.7	74	3683
TX91D6991	10	75	20	3.9	6.3	4	5	6	73.2	3653
AP 7501	37	20	25	1.7	6	10	4	5.2	74.5	3651
T702	42	60	60	3.7	7	1	12	5.4	75.6	3622
HBZ374C	4	75	35	1.8	3.3	3	11	4.3	76.4	3561
XH1752	32	70	30	3	5.5	7	4	6.1	75.8	3549
XH1706	31	60	21	3.8	5.5	6	6	7	74.2	3494
KS92PO263-137	22	90	18	2	3.7	4	2	4.2	75.3	3472
TX93V5919	16	90	65	6.2	6.3	10	10	5.4	73.6	3451
OK93P735	6	90	3	1.1	6.3	10	13	5.7	75.4	3432
W91-091	35	30	30	3.2	4	3	3	7	74.5	3383
XH1778	33	80	0	2.1	6.3	8	4	3.4	74.8	3382
WI89-163W	39	0	3	1.9	7.5	10	3	7.2	76.1	3379
T812	44	10	55	4.2	5.7	1	9	5.7	75.1	3377
TX93V5922	17	60	25	2.4	5	6	8	4.8	75.9	3352
OK93P656	7	75	16	3.4	6.3	10	7	7	76.1	3337
OK93P727	8	60	18	4.2	3	8	3	6.3	76.4	3322
W88-2619W	41	40	75	7.3	4	10	3	6.7	74.8	3301
NE91651	26	60	35	5	4	9	6	6.8	73.1	3282
NE92646	30	80	80	5.8	6	8	3	6.2	73.6	3266
NE92458	28	50	85	5.3	3.7	4	5	7.2	75.7	3247
W91-287	36	10	35	2.4	4.7	5	7	5.2	74.5	3233
T834	43	40	55	5.9	5.5	1	2	6.1	74	3219
TX92V3108	14	40	50	5.8	5.5	2	5	6.1	77.4	3205
N93L058	25	90	60	4.1	4.3	9	6	6.7	72.8	3179
T861	45	80	35	5.1	5	4	9	6	74.9	3139
CO890323	20	20	65	6.6	4.3	1	6	6.7	76.2	3131
KS93U206	23	90	0	1.7	5	1	8	4.3	75.4	3124
TX92V2519	19	0	25	3.1	6	1	4	4.9	74.8	3108
TX92V4135	12	80	20	5.4	3	6	5	6.3	75.2	3107
CO900166	21	0	70	6.5	5.7	1	5	6.7	75.6	3078
TX93V4927	18	0	16	2.1	5	1	4	3.9	74.9	3033
NE90476	27	50	50	2.9	4.3	5	5	6.9	74.1	3015
TX90V6313	11	40	45	4.7	4.3	5	6	7	73.8	2990
NE92614	29	0	35	4	6.7	9	7	7.6	75.5	2955
KS91H153-2	24	60	28	1.1	4	7	12	5.2	76.8	2945
TAM-107	3	90	85	8.6	5	1	8	7.3	73.7	2745
WI90-540W	40	0	10	2.9	4	1	16	7.6	72.4	2529
SCOUT66	2	40	60	5.8	6.3	6	5	7.7	75.5	2124
KHARKOF	1	20	65	6.1	6.7	5	2	7.6	75.5	1842

Table 9. Seedling infection type of entries in the 1995 Southern Regional Performance Nursery to selected isolated of Puccinia graminis f. sp. tritici. (Cereal Rust Laboratory, University of Minnesota, St. Paul, Minnesota, 55108, by D.V. McVey)

No.	Sel. No.	HJCS	QFBS	QSHS	RPQQ	RTQQ	RKQS	TNMK	Postulated Sr Gene
				Infection Type					
01	Kharkof	S	S	S	S	S	S	S	None
02	Scout 66	2	S	S	;1	;1-	S	S	17
03	TAM-107	2=	2=	2=	;1	2=	2=	2=	Amigo
04	HBZ374C	S	S	S	S	S	S	S	None
05	OK91P648	2=	;1-	2=	0;	0;	2=	S	10,+
06	OK93P735	0,2-	2	0	0	0;	S	S	17,36,+
07	OK93P656	2	2-	S	S	S	S	S	?
08	OK93P727	S	;1-N	2-,S	0;	;1N	;1-N	S	10
09	TX91D6913	2-	2=	S	;1	22-	;1N	2	?
10	TX91D6991	23	2	S	0	0;	S	0	17,+
11	TX0V6313	0	22-	2	S	S	S	S	5,7b
12	TX92V4135	S	XN	S	0;	;1N	XN	S	10
13	HBE0726-1	0	;12-	2=	0;	2=	2=	0	5,6,Amigo
14	TX92V3108	0	2=	2=	2=	2-	2=	2-	5,Amigo
15	HBI0531-A2	2-	;1	2=	0	0;	;1-	2	10,17,+
16	TX93V5919	1-	;1-	2=	2	2-	2=	2=	Amigo
17	TX93V5922	0	;1	2-	2=	2=	;1-	1	5,Amigo
18	TX93V4927	;1	2=	2=	2=	0;	2=	0	Amigo
19	TX02V2519	0	;1	2=	0	0	;1-	0	5,6,Amigo
20	CO890323	0	2=	2=	2=	2=	2=	2=	5,Amigo
21	CO900166	0	2=	2=	2=	2=	2=	2=	5,Amigo
22	KS92P0263-137	2=	2-	S	S	S	S	2	?
23	KS93U206	2=	;1	2=	0;	0;	;1	2=	10,Amigo
24	KS91H153-2	2	0;	2-	0;	2-	2	0	6,Tmp
25	N93L058	0	0	S	0	X-N	;1N	0;	5,6,10
26	NE91651	2=	2-	0,2-	0	0;	2=	S	17,+
27	NE90476	0	;1-	2	0	0;	S	0	5,6,17
28	NE92458	2=	0	2	0	0	2=	0	6,17,24
29	NE92614	2	0	2-	0	;1N	S	0	6,10,?
30	NE92646	2	0	2=	0	;1-N	2=S	0	6,10,24?
31	XH1706	2=	0	2=	1-	;1-	2=	0,2=	6,10,+
32	XH1752	1	;1	2=	0;	2=	2=	0	6,24?
33	XH1778	S	S	S	S	S	S	S	None
34	XH1798	0,2=	2=	2=	0;	0;	2=	2=	5,17,24?
35	W91-091	2=	;1-	2=	0	0;	2=	1	17,24
36	W91-287	2=	2-	2	0	2=	2-	0,2=	6,Amigo
37	AP 7501	1	2=	2=	0	0;	S	1	17,Amigo
38	WX92-0408	2=	2=	2=	2=	2=	2=	1	Amigo
39	WI89-163W	2=	2-	2	2=	2=	2=	2=	Amigo
40	WI90-540W	S	S	2	S	S	2=	S	+
41	W88-2619W	2-	;1-	2-	S	2	0;	2	?
42	T702	2=	2=	2=	1-	;1-	2=	2=	17,Amigo
43	T834	2=	2=	2=	0;	0;	2=	1	17,Amigo
44	T812	2=	0;	2=	0	0;	0;	1	10,Amigo
45	T861	2=	2=	2=	2=	2=	2=	2=	Amigo

Table 10. Seedling leaf rust infection type of entries in the 1995 Southern Regional Performance Nursery to selected isolated of Puccinia recondita. (Cereal Rust Laboratory, St. Paul, MN, 55108, by D.V. McVey).

No.	Sel. No.	TBCS	TCBK	TCSC	TDBP	PLRR	LBGT	JCD	SCDC
		Infection Type							
1	Kharkof	S	S	S	S	S	S	S	S
2	Scout 66	S	S	S	S	S	S	S	S
3	TAM-107	S	S	S	S	S	S	;	S
4	HBZ374C	S	;	S	S	-	;	;	S
5	OK91P648	S	S	S	S	1C	S	S	S
6	OK93P735	;1-	;1-	;1C	0	;1	;1-	;1-CN	;
7	OK93P656	;	0	0	1-C	-	;	;	;
8	OK93P727	S	S	S	S	S	S	S	S
9	TX91D6913	S	S	S	S	S	0	;	0;
10	TX91D6991	S	1	S	0;	S	0	;	0;
11	TX90V6313	S	S	S	S	S	S	S	;,S
12	TX92V4135	;1-	;	;	0	;1-	0	0	;
13	HBE0726-1	;	;	;1-	0	0	0	;	;
14	TX92V3108	;	;	0	0	0	0	;	;
15	HBI0531-A2	;1-	0	;	0	1-C	0	0	;
16	TX93V5919	S	S	S	S	1-C	S	S	S
17	TX93V5922	;1-	S	;	-	0	0	;,S	S,;
18	TX93V4927	;1-	;	;	0	0	0	;	;
19	TX92V2519	;	0	;	0	0	0	;	O;
20	CO890323	;	;	;	0	;	0	;	;
21	CO900166	S	1C	0	0	S	S	1C	2C,0
22	KS92P0263-	S	S	S	0	S	0	;	;
23	KS93U206	S	0	0,S	0	S	0	0	0;
24	KS91H153-2	S	1C	S	0	;	0	S	S
25	N93L058	S	S	S	S	-	0	;	;
26	NE91651	;1C	;1-C	2C	1-C	1-C	0	;	;
27	NE90476	;1C	;1-C	1C	1C	1-C	0	;1-	;
28	NE92458	;1C	;1-C	2C	1C	1-C	;	;1-C	;
29	NE92614	S	S	S	1-C	S	0	;	;
30	NE92646	S	S	S	S	-	0	;	;
31	XH1706	;	;	S	;	1C	0	S	S,0
32	XH1752	;1C,S	;1-C	;1C	0	;1C	0	;	;
33	XH1778	;	0	0	0	-	0	0	0
34	XH1798	;1C	0	1C,S	0	-	0	;	;
35	W91-091	;	;1-	1C,S	0	-	0	;	;1-
36	W91-287	S	S	S	0	-	0	;	;
37	AP 7501	;1C	;1-C	S	0	-	0	0	S,;
38	WX92-0408	;	0	S	0	-	0	0	;1-
39	WI89-163W	;1-	0	;	0	-	0	0	0
40	WI90-540W	S	;1-C	S	S	S	0	S	1
41	W88-2619W	XC	S	S	S	S	S	;	2C,S
42	T702	XC	;1C	S	1C	S	0	;1S	;1
43	T834	S	S	S	0,S	S	S	S	S
44	T812	S	;	S	0	S	0	X	S
45	T861	S	;1-C,S	S	S	S	S	0,S	S

	Lr genes			
First letter of code	1	2a	2c	3
Second letter of code	9	16	24	26
Third letter of code	3ka	11	17	30
Fourth letter of code	10	18	21	14a

Table 11. Adult plant reaction of entries in the 1995 Southern Regional Performance Nursery to wheat stem rust at St. Paul, MN. (D.V. McVey, USDA-ARS, Cereal Rust Laboratory, St. Paul)

No.	Line	Stem rust Reaction
1.	Kharkof	-
2.	Scout 66	5MS-S
3.	TAM 107	-
4.	HBZ374C	-
5.	OK91P648	-
6.	OK93P735	-
7.	OK93P656	-
8.	OK93P727	-
9.	TX91D69143	-
10.	TX91D6991	60MS-S
11.	TX90V6313	-
12.	TX92V4135	40MS-S
13.	HBE0726-1	-
14.	TX92V3108	-
15.	HBI0531-A2	-
16.	TX93V5919	-
17.	TX93V5922	-
18.	TX93V4927	TR
19.	TX92V2519	5MR
20.	CO890323	TR
21.	CO900166	60MR-MS
22.	KS92P0263-137	80S
23.	KS93U206	5MR
24.	KS91H153-2	5MS-S
25.	N93L058	60S
26.	NE91651	60S
27.	NE90476	40S
28.	NE92458	5S
29.	NE92614	TR
30.	NE92646	-
31.	XH1706	5MS
32.	XH1752	TR
33.	XH1778	40S
34.	XH1798	TMR
35.	W91-091	TMR
36.	W91-287	5MR-MS
37.	AP 7501	-
38.	WX92-0408	TR
39.	WI89-163W	5MR
40.	WI90-540W	TR
41.	W88-2619W	10MR-MS
42.	T702	TR
43.	T834	TR
44.	T812	TR
45.	T861	TR

Table 12. Entries in the 1995 Southern Regional Performance Nursery that possess a 1RS wheat-rye translocation. Analytical methods were described in the 1993 Regional Report. Data provided by Bob Graybosch, USDA-ARS, Lincoln, NE.

C.I. OR SEL. NO.	ENTRY NO.	Translocation
KHARKOF	1	-
SCOUT66	2	-
TAM-107	3	1AL.1RS
HBZ374C	4	-
OK91P648	5	-
OK93P735	6	-
OK93P656	7	-
OK93P727	8	-
TX91D6913	9	-
TX91D6991	10	-
TX90V6313	11	-
TX92V4135	12	-
HBE0726-1	13	1BL.1RS
TX92V3108	14	1AL.1RS
HBI0531-A2	15	-
TX93V5919	16	-
TX93V5922	17	-
TX93V4927	18	1AL.1RS
TX92V2519	19	1AL.1RS
CO890323	20	1AL.1RS
CO900166	21	1AL.1RS
KS92PO263-137	22	-
KS93U206	23	1AL.1RS
KS91H153-2	24	-
N93L058	25	-
NE91651	26	-
NE90476	27	-
NE92458	28	-
NE92614	29	-
NE92646	30	-
XH1706	31	-
XH1752	32	-
XH1778	33	-
XH1798	34	Not determined
W91-091	35	Not determined
W91-287	36	-
AP 7501	37	-
WX92-0408	38	1AL.1RS
WI89-163W	39	-
WI90-540W	40	-
W88-2619W	41	-
T702	42	1AL.1RS
T834	43	1AL.1RS
T812	44	1AL.1RS
T861	45	1AL.1RS

Table 13. Mean coleoptile length and mean seed weight of the 45 entries in the 1995 Southern Regional Performance Nurseries grown at Dallas, TX and Altus, OK with mean plant height of entries over all locations. Coleoptile and seed weight data provided by K. B. Porter.

Entry no.	CI or Sel. No.	Coleoptile Length				2-Site 1995 Mean Wt. 16 Seed	Regional mean plant ht
		Dallas, Texas	Altus, Oklahoma	2-Site 1995 Mean	4-Site 1994-95 Mean		
		- mm - - -				mg	cm
2	CI13996	116	110	113	118	429	95
1	CI1442	106	106	106	109	388	102
29	NE92614	101	95	98		448	92
42	T702	97	94	96		492	80
3	PI495594	92	90	91	93	512	81
11	TX90V6313	90	91	91	94	556	78
24	KS91H153-2	93	86	90		503	81
4	HBZ374C	91	86	89	90	515	86
45	T861	87	91	89		445	83
23	KS93U206	93	80	87	92	538	83
9	TX91D6913	85	82	84		480	86
20	CO890323	82	83	83		430	85
38	WX92-0408*	85	79	82		451	81
19	TX92V2519	82	79	81		381	77
34	XH1778*	84	77	81		486	84
25	N93L058	82	80	81		483	79
13	HBE0726-1	80	79	80	81	484	82
40	WI90-540W	82	76	79		509	75
12	TX92V4135	82	74	78	81	491	79
6	OK93P735	81	75	78		446	79
31	XH1706*	79	76	78	77	446	85
22	KS92P0263-137	75	79	77	78	505	87
30	NE92646	76	78	77		359	86
32	XH1752*	78	74	76		430	89
43	T834	74	74	74		427	85
33	XH1778*	74	74	74		484	78
27	NE90476	74	74	74		503	84
16	TX93V5919	77	69	73		449	84
37	AP7501*	73	73	73		393	82
17	TX93V5922	71	72	72		499	82
44	T812	72	71	72		480	80
8	OK93P727	71	72	72		539	81
36	W91-287	74	69	72		457	80
15	HBI0531-A2	71	68	70		445	79
35	W91-091	72	68	70		434	76
18	TX93V4927	72	67	70		400	74
5	OK91P648	72	66	69		471	78
21	CO900166	71	66	69		418	83
7	OK93P656	68	70	69		468	81
28	NE92458	70	66	68		453	87
26	NE91651	70	66	68	68	454	86
14	TX92V3108	66	65	66		437	82
39	WI89-163W	68	61	65		363	78
10	TX91D6991	64	61	63		428	81
41	W88-2619W	58	51	55		403	79
Mean		78	76	78	89	458	
LSD (0.05)				5.4	5.1	77	
C.V %				3.2	3.9	8.3	

* Hybrids were evaluated using F2 seed.

Table 13a. Correlation of coleoptile length of 1995 SRPN entries from two seed sources with mean seed weight and mean plant height over locations.

	Coleoptile length		
	Dallas, TX	Altus, OK	2-Site 1995 mean
r value - coleoptile length and weight of seed planted	0.21	0.12	0.21
Probability > r	0.16	0.42	0.16
r value - coleoptile length and mean plant height	0.52	0.56	0.54
Probability > r	0.0003	0.0001	0.0001

Table 14. Reactions of entries in the 1995 Southern Regional Performance Nursery to soilborne mosaic and barley yellow dwarf viruses; plant height, seed number and seed weight from BYDV innoculated entries and controls. Data provided by George Gregerson, USDA-ARS, Urbana, IL.

C.I. OR SEL. NO.	ENTRY NO.	SBMV Rep 1 0-9	SBMV Rep 2 0-9	BYDV Rep 1 0-9	BYDV Rep 2 0-9	Plant height BYDV Inoc. Rep 1 cm	Plant height BYDV Inoc. Rep 2 cm	Plant height Control Rep 1 cm	Plant height Control Rep 2 cm	Seed Number BYDV Inoc. Rep 1 #	Seed Number BYDV Inoc. Rep 2 #	Seed Number Control Rep 1 #	Seed Number Control Rep 2 #	Seed Weight BYDV Inoc. Rep 1 g	Seed Weight BYDV Inoc. Rep 2 g	Seed Weight Control Rep 1 g	Seed Weight Control Rep 2 g
KHARKOF	1	5	6	6	6	82	66	112	72	190	222	1164	231	4.77	5.61	37.67	5.04
SCOUT66	2	5	7	4	5	88	68	98	90	433	121	680	535	13.64	4.02	22.11	15.37
TAM-107	3	5	5	5	5	60	68	80	64	249	119	1480	805	7.38	3.68	35.03	17.26
HBZ374C	4	4	4	5	6	64	48	82	68	493	95	1015	600	14.23	2.95	22.61	15.36
OK91P648	5	4	4	7	6	52	50	78	74	322	122	2578	1460	7.46	3.59	70.15	45.9
OK93P735	6	4	3	6	7	64	46	76	70	333	175	1348	1108	10.37	4.9	37.93	29.48
OK93P656	7	2	2	5	6	62	54	82	72	541	348	3083	1716	15.58	10.0	81.61	46.55
OK93P727	8	7	5	7	5	52	58	82	74	78	135	1868	997	2.43	3.98	51.71	29.56
TX91D6913	9	4	2	5	6	66	56	82	82	362	213	1789	1882	13.29	5.84	56.84	58.06
TX91D6991	10	3	3	5	7	60	54	78	78	430	291	1524	2201	13.98	8.92	46.81	62.9
TX90V6313	11	9	8	6	6	54	56	70	76	138	79	700	1414	4.85	1.79	19.28	32.25
TX92V4135	12	2	3	5	8	62	40	78	76	442	459	1270	908	11.94	12.34	32.26	25.02
HBE0726-1	13	6	4	6	5	54	60	80	80	134	175	1056	2026	4.65	6.15	32.36	50.04
TX92V3108	14	6	4	6	6	56	54	82	80	190	234	1106	1582	5.48	6.31	29.78	47.0
HBI0531-A2	15	8	7	8	6	42	56	76	62	32	100	1410	532	0.89	2.64	38.79	17.98
TX93V5919	16	9	6	7	7	46	44	70	72	107	125	693	1275	2.76	3.24	19.69	27.86
TX93V5922	17	8	6	8	7	44	46	74	72	52	83	969	596	1.26	2.11	25.77	16.8
TX93V4927	18	8	6	8	7	42	48	68	60	139	199	648	583	3.21	4.83	18.39	13.35
TX92V2519	19	6	5	6	8	46	46	80	72	195	146	2015	1402	4.92	3.64	48.46	35.55
CO890323	20	8	6	6	6	52	56	90	70	172	374	2185	503	5.1	10.69	57.61	10.48
CO900166	21	3	3	5	5	56	62	84	82	254	327	2478	3122	7.96	9.96	69.1	91.68
KS92PO263-137	22	4	5	5	5	64	62	84	72	392	223	1322	851	13.61	7.5	43.55	26.72
KS93U206	23	3	4	6	4	54	68	70	66	139	215	449	551	4.68	7.43	15.24	19.48
KS91H153-2	24	6	6	5	5	56	60	74	68	155	189	1414	847	5.75	6.62	34.95	19.93
N93L058	25	7	6	6	5	54	58	66	68	180	365	795	1096	6.2	11.81	25.4	37.02
NE91651	26	6	6	6	4	54	60	66	66	166	334	615	480	4.93	6.69	17.06	11.69
NE90476	27	6	6	6	6	56	60	62	84	194	358	529	2360	6.02	12.02	15.22	66.21
NE92458	28	4	4	5	5	60	64	72	80	322	187	1129	1043	6.15	5.1	28.26	27.53
NE92614	29	6	5	4	5	68	62	96	80	414	336	1934	1199	12.8	9.92	61.05	29.11
NE92646	30	6	5	5	5	58	66	78	86	205	312	1058	1658	5.69	8.84	24.94	49.35
XH1706	31	2	5	6	6	62	62	88	86	236	300	2049	2010	7.32	9.82	54.62	60.01
XH1752	32	3	4	5	5	66	62	84	76	380	583	2518	1124	11.36	19.79	69.56	27.59
XH1778	33	3	5	8	4	38	70	64	72	50	454	1479	664	1.23	15.11	36.37	17.12
XH1798	34	4	6	5	8	62	40	82	82	409	76	2322	3255	13.31	1.88	67.58	105.8
W91-091	35	7	6	5	4	56	62	64	66	315	620	585	359	6.01	11.67	12.7	8.0
W91-287	36	3	4	6	6	56	56	80	80	171	347	2173	1970	5.34	7.35	62.24	48.57
AP 7501	37	3	4	6	6	56	58	76	82	245	266	1483	1450	6.67	7.62	38.73	29.25
WX92-0408	38	2	4	5	6	66	56	84	78	523	455	2164	1034	17.96	14.12	58.41	29.01
WI89-163W	39	5	5	7	5	54	64	76	80	137	297	1400	1350	3.66	8.52	36.22	32.73
WI90-540W	40	5	5	7	6	48	62	64	68	92	226	926	1049	2.38	5.93	22.33	19.92
W88-2619W	41	6	5	7	6	46	48	68	76	104	187	509	1296	2.86	5.15	14.11	26.53
T702	42	4	2	8	7	46	50	66	78	95	215	555	1086	2.75	6.79	18.22	30.42
T834	43	2	2	6	6	58	50	90	86	174	518	2333	2394	5.89	17.58	73.4	76.39
T812	44	5	4	6	4	56	66	86	72	189	221	2159	1273	5.57	5.81	52.36	28.65
T861	45	4	5	6	6	54	48	84	72	199	217	977	771	5.27	6.09	30.26	24.2

Table 15. Seedling reactions of entries in the 1995 Southern Regional Performance Nursery to leaf rust and tan spot. Data provided by R.M. Hunger and W.C. Siegerist, Oklahoma State University, Stillwater, OK.

C.I. OR SEL. NO.	ENTRY NO	Seedling LR reaction			Tan spot reaction		
		Race 1	Race 2	Bulk	Rep 1	Rep 2	Rep 3
KHARKOF	1	3	3	3+	2	2	3
SCOUT66	2	3c	3	3	3	3	3
TAM-107	3	3	3+	3	4	4	4
HBZ374C	4	3+	3	3	3	3	3
OK91P648	5	3	X3-0;	3	3	2	3
OK93P735	6	X3c0;	X30;	X0;3-	3	3	3
OK93P656	7	3c	3	3	2	2	2
OK93P727	8	3+	3+	3	4	3	4
TX91D6913	9	3	3	3	4	4	4
TX91D6991	10	3	3	3+c	2	2	2
TX90V6313	11	3	3+	3+c	3	3	4
TX92V4135	12	3	3	3+	2	3	3
HBE0726-1	13	X30;	0;	X0;3-	2	2	2
TX92V3108	14	3-	3cn	3-c	3	3	3
HBI0531-A2	15	3	3	3+	3	3	4
TX93V5919	16	3	3	3+	1	1	2
TX93V5922	17	3	3-c	3-c	3	3	3
TX93V4927	18	3	3	3-	2	2	2
TX92V2519	19	3	3+	3-c	3	3	3
CO890323	20	3+	3	3+	2	2	2
CO900166	21	3+	3+	3+	3	3	3
KS92PO263-137	22	3	3	X0;3-c	3	3	3
KS93U206	23	0;	0;	0;	3	3	3
KS91H153-2	24	X30;	3	3-cn	4	4	4
N93L058	25	3	3	3	3	4	4
NE91651	26	3=cn	X0;3-n	X0;3-c	3	3	3
NE90476	27	3=cn	3-n	X0;3-c	4	4	4
NE92458	28	3c	3-n	3-c	3	3	3
NE92614	29	3	3-nc	3+	3	3	2
NE92646	30	3	3c	3c	4	4	4
XH1706	31	3	X0;3-n	X0;3	3	3	3
XH1752	32	3c	3-c	3-c	4	4	4
XH1778	33	0;	0;	0;	4	4	3
XH1798	34	3c	X0;3-	X0;3-	4	3	3
W91-091	35	X0;3=n	0;	3	4	3	3
W91-287	36	3-	X0;3=	3-c	4	3	3
AP 7501	37	3-	X0;3=n	X0;3-c	4	4	3
WX92-0408	38	3	X0;3-n	X0;3-	3	2	2
WI89-163W	39	3	3	3c	4	4	4
WI90-540W	40	3	3-c	3+	2	2	1
W88-2619W	41	3	3+	3	4	3	4
T702	42	3c	3+	3	4	3	3
T834	43	3c	3	3	3	3	3
T812	44	3	X3-0;	3-c	4	4	4
T861	45	3	3	3	3	3	3

Avirulence/virulence formulas of races used in the seedling test were: Race 1 = 2a 3ka 9 16 19 / 1 2c 3 11 17 24 26 30; Race 2 = 2a 3ka 9 16 19 26 30 / 1 2c 3 11 17 24; Bulk (urediniospores collected from 'Vona', 'Chisholm' and 'Danne') = 9 16 19 26 / 1 2a 2c 3 3ka 11 17 24 30. Leaf rust reactions were obtained using Stakeman's system (USDA Bull. #E617, 1962, 53 pp) of coding rust reaction.

Seedlings were inoculated with equal numbers of conidia obtained from three isolates of Pyrenophora tritici-repentis at a final concentration of 2000 conidia/ml. Seedling reaction to tan spot was rated as 1=small (1-2 mm), dark lesions with no or little chlorosis, 2=lesions 2-3 mm with some chlorosis, 3=lesions 2-3 mm with extensive chlorosis, and 4=lesions >3 mm with coalescing chlorosis and/or necrosis. A reaction of '1' typically occurred on 'Red Chief' checks, and a reaction of '4' typically occurred on 'Tam-105' checks.

Table 16. Hessian fly reaction, Great Plains Biotype, for entries in the 1995 Southern Regional Performance Nursery. Data provided by J.H. Hatchett, USDA-ARS, Manhattan, KS.

C.I. OR SEL. NO.	ENTRY NO.	Hessian Fly R-S
KHARKOF	1	S
SCOUT66	2	S
TAM-107	3	S
HBZ374C	4	H
OK91P648	5	H
OK93P735	6	R
OK93P656	7	R
OK93P727	8	R
TX91D6913	9	R
TX91D6991	10	S
TX90V6313	11	R
TX92V4135	12	S
HBE0726-1	13	R
TX92V3108	14	S
HBI0531-A2	15	S
TX93V5919	16	S
TX93V5922	17	S
TX93V4927	18	S
TX92V2519	19	S
CO890323	20	S
CO900166	21	S
KS92PO263-137	22	R
KS93U206	23	S
KS91H153-2	24	R
N93L058	25	H
NE91651	26	R
NE90476	27	S
NE92458	28	H
NE92614	29	S
NE92646	30	S
XH1706	31	S
XH1752	32	S
XH1778	33	S
XH1798	34	H
W91-091	35	S
W91-287	36	S
AP 7501	37	H
WX92-0408	38	S
WI89-163W	39	S
WI90-540W	40	S
W88-2619W	41	S
T702	42	S
T834	43	S
T812	44	S
T861	45	S

Table 17. Aluminum tolerance of entries in the 1995 Southern Regional Performance Nursery based on hematoxylin staining of seedling roots. Data provided by B.F. Carver, Oklahoma State University, Stillwater, OK.

C.I. OR SEL. NO.	ENTRY NO.	Stain intensity Al Concentration (mM) 0.18	0.36	0.72	Rating
KHARKOF	1	C	C	C	VS
SCOUT66	2	C	C	C	VS
TAM-107	3	C	C	C	VS
HBZ374C	4	P-	P+	C	I
OK91P648	5	N	N	P-	T
OK93P735	6	C	C	C	VS
OK93P656	7	N/C	N/C	C/P-	VS-T
OK93P727	8	P+/N	C/N	C/P	MS-T
TX91D6913	9	N/P	P-	P	T
TX91D6991	10	N	N	P	T
TX90V6313	11	N	N	P	T
TX92V4135	12	C/N	C/N	C	VS-I
HBE0726-1	13	P	C	C	MS
TX92V3108	14	N	P-	P+	T
HBI0531-A2	15	N	N	P-	T
TX93V5919	16	P-	P+	C	I
TX93V5922	17	P-	P+/C	C	MS-I
TX93V4927	18	N	N	P	T
TX92V2519	19	P+	C/N	C	MS-I
CO890323	20	C	C	C	VS
CO900166	21	N	P-	C	I
KS92PO263-137	22	N	P-	P	T
KS93U206	23	C	C	C	VS
KS91H153-2	24	P+	C	C	MS
N93L058	25	N	N	P-	T
NE91651	26	P-	P+	C	I
NE90476	27	P	C	C	MS
NE92458	28	P-	P+	C	I
NE92614	29	N	N	P	T
NE92646	30	P-	P+	C	I
XH1706	31	P-	P-	P	T
XH1752	32	P-	P	C	I
XH1778	33	N	N	P-	T
XH1798	34	N	N	P	T
W91-091	35	P-	P	C	I
W91-287	36	N	P-	P	T
AP 7501	37	N	N	P	T
WX92-0408	38	N	N	P	T
WI89-163W	39	P	P+	C	I
WI90-540W	40	P	P+	C	I
W88-2619W	41	P	P+	C	I
T702	42	P	C	C	MS
T834	43	C	C	C	VS
T812	44	P	P+	C	I
T861	45	P-	C	C	MS

C, P, and N = complete, partial, and no staining of root tips, respectively; P- and P+ indicate light and dark intensity, resp. VS=very susceptible, MS=moderately susceptible, I=intermediate, and T=tolerant (0.72 mM Al); *=heterogeneous response with predominant stain intensity listed first.

1995

Northern Regional Performance Nursery

Entry No.	Variety or Pedigree	Sel. No.	Source
1**	Kharkof	CI1442	Check
2**	Roughrider	CI17439	"
3**	Abilene	PI511307	"
4	Brule/Agate	SD89119	So. Dakota
5	Brule/OK754615E	SD89153	"
6	Nell/KS81H16 4063	SD89180	"
7	Centurk/Nell	SD89186	"
8	NE77682/Dawn	SD89205	"
9	Seward/Archer	ND8974	No. Dakota
10	Sdn*2/Bon//Frd/Nb68466	ND9043	"
11	Rri//Frd/SD6689/3/Frd/NB68466	ND9064	"
12*	Rri/ND7571//Arapahoe	ND9257	"
13*	Rri/ND7656//Arapahoe	ND9272	"
14*	Rri/ND7656//Arapahoe	ND9274	"
15	NE82761/Brule 84	NE91631	Nebraska
16	NE82671/NE80413	NE91648	"
17***	KS83H2510/Brule 83 composite	NE90479	"
18*	Redland/NE82419	NE92522	"
19*	MV11-85/Redland	NE92628	"
20*	Redland/NE82419	NE92662	"
21*	Quantum Hybrid Wheat	XH1752	HybriTech
22*	" "	XNH1773	"
23*	" "	XNH1798	"
24*	" "	XNH1799	"
25*	" "	XNH1802	"
26*	" "	XH1689A	"
27*	PMN 5//Froid/Bez/3/HP394/Froid	MT88046	Montana
28*	Lew/Tiber//Redwin (Vanguard)	MTSF2238	"
29*	Norstar*5/Tr1//ND7481(Froid/Lancer)	W259	Alberta
30*	Norstar*5//A. squarrosa CI4/Novamichuriaka	AMN4LV	"

* New Entry
** New Seed Provided
*** Entered from SRPN

Test Site Information - NRPN

Nebraska stations -- See information for SRPN.

South Dakota stations -- See information for SRPN.

Casselton, ND -- Waterlogged soils caused premature senescence of leaves.

Hettinger, ND -- No additional information.

Williston, ND -- Planted on 9/9/94 into fallow ground with excellent stand establishment and no winterkilling. Fertilizer applied was 60 N:25 P2O5:0 K20. Leaf spotting diseases appeared early. However, no flag leaf ratings were taken as heat stress in June made ratings difficult.

Waseca, MN -- No additional information.

Rosemount, MN -- No additional information.

Archer, WY -- The NRPN and WPRPN nurseries were planted on 9/13/94 into a fallow strip at the Archer Research and Extension Center. Spring moisture was above normal, resulting in above average yields and test weights. The nurseries were harvested on 8/9/95.

Moccasin, MT -- The nursery had some nitrogen deficiency conditions due to cool, wet spring conditions and leaching of fertilizer applied N. Precipitation from April to July was 13.39 inches compared with the long-term average of 8.62 inches. There was a high degree of shattering with some lines showing severe susceptibility to shatter.

Sidney, MT -- Planted on 9/19/94 and harvested on 7/27/95. No fertilizer was applied due to residual soil N of 140 lbs/a and P of 33 lbs/a. Precipitation for the crop year was 16.77 inches compared with 13.74 average.

Bozeman, MT -- No additional information.

Lind, WA -- See SRPN information.

Lethbridge, Alberta -- No additional information.

Table 18. Yield and agronomic data for 30 wheats grown in the 1995 Northern Regional Performance Nursery.

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
ABILENE	3	4331	82.3	102
NE92628	19	3055	79.3	109
NE90479	17	2997	81.1	109
XNH1798	23	2981	78.7	114
XH1689A	26	2981	81.3	107
NE92522	18	2930	77.5	107
ND8974	9	2753	78.4	114
ND9257	12	2688	80	117
XH1752	21	2643	81.3	109
NE92662	20	2603	80	112
XNH1773	22	2428	82.2	109
NE91631	15	2298	77.7	117
NE91648	16	2253	81	117
SD89186	7	2114	80	104
MT88046	27	2053	81.3	107
XNH1802	25	2018	72.9	117
ND9274	14	1657	79.3	112
XNH1799	24	1536	72.2	112
ND9272	13	1513	80	104
SD89153	5	1244	83.2	107
ND9064	11	1233	81.3	119
SD89180	6	984	79.3	104
W259	29	935	.	117
SD89205	8	825	.	104
MTSF2238	28	776	.	112
ND9043	10	760	76.1	114
AMN4LV	30	673	.	117
SD89119	4	491	80	97
ROUGHRIDER	2	430	.	112
KHARKOF	1	157	.	107
MEAN		1878		
LSD(.05)		1405		
C.V.		45.8		

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	PLANT HEIGHT CM	VOLUME WEIGHT KG/HL
XNH1802	25	6491	117	80.9
XNH1798	23	6393	107	83.2
NE92662	20	6369	109	84.1
XNH1799	24	6226	109	80.8
NE92522	18	6185	110	83.1
NE91631	15	6035	117	79.6
XH1752	21	5567	109	85.3
NE92628	19	5509	110	83.7
ND9272	13	5439	109	82.3
XH1689A	26	5382	107	84.6
XNH1773	22	5323	108	84.9
ABILENE	3	5288	95	82.9
MTSF2238	28	5222	108	84.8
ND9257	12	5198	117	77.7
NE91648	16	4962	110	83.7
MT88046	27	4961	107	83.9
ND9274	14	4940	108	82.9
ND8974	9	4848	114	80.1
SD89153	5	4639	112	85.3
SD89186	7	4540	116	82.9
AMN4LV	30	4406	130	84.6
SD89205	8	4405	109	83.5
SD89180	6	4130	116	84.6
W259	29	4125	135	83.9
ND9064	11	4074	122	80.8
SD89119	4	3736	108	84.2
NE90479	17	3413	110	83.9
ROUGHRIDER	2	3194	119	80.8
ND9043	10	3108	122	80.1
KHARKOF	1	2097	116	80
MEAN		4874		
LSD(.05)		933		
C.V.		11.7		

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	DAYS TO HEADING FROM 1/1	PLANT HEIGHT CM
NE92662	20	3179	74.2	167	68
ND9064	11	2981	76	168	82
NE91648	16	2885	75.5	167	75
ND9043	10	2831	75.4	170	85
NE92628	19	2737	73.6	166	69
XH1752	21	2715	75.6	163	69
XH1689A	26	2677	74.4	166	64
KHARKOF	1	2647	74.9	170	88
W259	29	2627	74.2	172	96
ND9257	12	2576	73.1	169	69
SD89153	5	2562	77.7	167	72
XNH1773	22	2553	74.5	164	66
AMN4LV	30	2432	73.9	173	96
NE91631	15	2253	71.7	169	73
SD89119	4	2172	74.9	166	71
SD89186	7	2116	72.8	167	69
ND8974	9	2096	72.4	170	76
ND9274	14	2053	72.9	168	66
NE92522	18	2051	72.3	165	63
ROUGHRIDER	2	2049	74	169	80
XNH1798	23	2002	73.8	168	67
ND9272	13	1993	73.7	168	69
SD89180	6	1879	74.8	166	66
NE90479	17	1831	75.2	164	58
SD89205	8	1482	73	169	64
XNH1802	25	1334	68.3	169	71
XNH1799	24	1262	70.2	169	70
MT88046	27	1244	74.4	166	64
ABILENE	3	1080	72.1	168	51
MTSF2238	28	702	70.3	170	69
MEAN		2167			
LSD(.05)		472			
C.V.		13.3			

PIERRE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
NE92628	19	3941	77.4	106	160
NE92662	20	3412	77.1	107	161
NE91648	16	3291	78.8	107	161
NE90479	17	3284	79.9	107	159
NE92522	18	3250	74.9	104	159
ABILENE	3	3230	78.7	91	160
MT88046	27	3044	78.9	101	160
SD89153	5	3031	81.5	103	162
ND9272	13	2849	77.4	107	161
XNH1773	22	2820	76.2	106	159
SD89119	4	2782	79.1	103	160
ND8974	9	2773	76.8	109	162
NE91631	15	2688	76.2	108	162
ND9257	12	2681	75.8	110	162
SD89186	7	2589	76.1	107	160
XH1689A	26	2459	77.3	104	160
ND9274	14	2325	75.6	105	161
SD89180	6	2271	77.7	106	160
XH1752	21	2116	75.8	100	159
SD89205	8	2011	78.2	103	161
MTSF2238	28	1961	78.3	107	162
XNH1798	23	1811	74.1	105	160
KHARKOF	1	1632	78.3	112	165
W259	29	1506	76.3	113	164
ROUGHRIDER	2	1450	78.6	106	164
ND9064	11	1432	78.3	111	162
XNH1802	25	1300	69.8	103	162
XNH1799	24	1264	71.6	102	162
AMN4LV	30	1045	77	117	164
ND9043	10	572	77.1	108	164
MEAN		2361			
LSD(.05)		744			
C.V.		19.3			

WINNER

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	GRN LEAF DURATION 0-9
NE91648	16	3844	75.1	93	161	3
NE90479	17	3782	77.1	97	158	3.3
NE92628	19	3569	72	91	160	2.7
XNH1773	22	3454	73.9	88	159	3
NE92662	20	3401	72.1	90	161	3
NE92522	18	3338	70.7	92	159	3.7
XH1689A	26	3336	72.8	91	162	3
XNH1798	23	3264	70.8	86	160	2.7
ABILENE	3	3255	73.3	79	161	3
SD89119	4	3194	77.1	97	160	3
XH1752	21	3154	74.3	69	159	3
SD89180	6	2773	74.3	97	160	3.3
SD89186	7	2717	70.7	97	160	4.7
ND8974	9	2603	70.5	95	161	2.7
MTSF2238	28	2437	74.2	94	162	2.7
ND9274	14	2410	70.5	88	161	3
ND9272	13	2403	70.2	89	162	3
NE91631	15	2383	71.7	95	162	2.7
SD89153	5	2336	76.4	113	162	2.7
SD89205	8	2322	72.4	92	160	4
ND9257	12	2253	70.1	89	162	3
XNH1802	25	2221	66.3	85	162	1.7
AMN4LV	30	2163	77.6	105	164	2.3
MT88046	27	1879	74.1	91	162	3.3
ND9064	11	1831	73.5	104	163	5
W259	29	1802	73.4	101	165	3.3
XNH1799	24	1773	67.8	83	161	1.3
KHARKOF	1	1650	73.8	102	164	4.7
ND9043	10	1332	69.8	100	163	4.3
ROUGHRIDER	2	847	71.2	100	165	5
MEAN		2591				
LSD(.05)		594				
C.V.		14.0				

CASSELTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING 0-9	LEAF DISEASE 0-9
XNH1773	22	5859	81.6	90	163	0	3.7
NE92628	19	5540	79.9	92	164	1	3
XH1752	21	5532	81.5	88	162	1.3	5
XNH1798	23	5474	80.9	88	164	0.7	2.7
NE92522	18	5435	77.3	91	162	1.7	3.3
SD89180	6	5246	81.2	96	163	1.7	5
NE92662	20	5219	78.6	90	164	0.7	2.5
SD89205	8	4947	81.3	92	164	1	3
SD89153	5	4910	81.7	90	164	1.3	3.5
ARRAPAHOE	31	4853	78.8	85	164	0.7	2.5
SD89186	7	4794	79.3	93	163	0.7	6
NE91648	16	4763	80.9	91	165	0.3	4
XH1689A	26	4735	80.5	83	164	0	2
W259	29	4673	76.9	110	169	2	2
ND9257	12	4662	78.1	94	167	0	2
SEWARD	32	4614	78.3	95	167	1	5
ND9272	13	4594	78.4	88	165	0.3	4
SD89119	4	4404	80.2	90	164	1.7	5.5
ND9043	10	4399	78.2	103	167	1.7	3
ND8974	9	4373	78.3	93	167	0.3	5.5
MT88046	27	4290	80.8	91	164	0	4
NE91631	15	4147	76.3	90	166	0	3.5
ND9274	14	4092	78	90	167	0.3	5
ELKHORN	33	4036	75.1	104	169	1	3
AMN4LV	30	4029	75.1	107	169	2	2.5
ND9064	11	3956	77.7	96	166	1.7	3
ABILENE	3	3923	79.1	80	163	0.3	8
NE90479	17	3834	80.2	77	162	0.3	3
XNH1802	25	3831	69.5	88	166	0	6
XNH1799	24	3811	70.3	93	167	0.7	5
MTSF2238	28	3779	78	90	166	0.3	5.5
ROUGHRIDER	2	3688	78.4	98	167	1	5
KHARKOF	1	3675	77.9	114	166	7.3	7
MEAN		4549					
LSD(.05)		887					
C.V.		11.9					

CARRINGTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
XNH1773	22	5176	77.8	81	167
XH1689A	26	5089	77.2	81	168
NE91648	16	5013	78.7	91	170
XH1752	21	4991	78.4	78	166
NE92522	18	4883	76.7	80	169
NE92628	19	4752	77.6	86	168
NE92662	20	4643	77.5	83	168
SD89180	6	4208	79.1	89	169
SD89153	5	4165	79.2	89	169
SD89205	8	4165	78.6	86	168
NE90479	17	4121	80.5	78	166
XNH1798	23	4100	76.6	79	169
ND9274	14	4023	75	85	171
NE91631	15	3969	76.3	93	170
ND9272	13	3958	74.8	85	171
ND9257	12	3762	76.4	89	171
SD89186	7	3654	77.9	84	168
XNH1802	25	3654	69.4	85	170
SD89119	4	3556	80	85	168
ND9064	11	3436	78.3	99	170
MT88046	27	3436	76.3	78	168
ND9043	10	3404	78	107	172
KHARKOF	1	3088	80	105	171
ROUGHRIDER	2	3077	78.5	98	171
ND8974	9	2925	75.5	88	171
W259	29	2828	77.9	109	174
ABILENE	3	2817	76.2	66	168
AMN4LV	30	2795	77.4	110	173
XNH1799	24	2675	70.7	86	171
MTSF2238	28	2197	74.9	84	171
MEAN		3819			
LSD(.05)		1067			
C.V.		17.1			

WILLISTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING %	GRAIN PROTEIN %
ND8974	9	2945	76.8	85	165	10	13.5
XNH1799	24	2918	78.9	69	168	0	13.2
ABILENE	3	2864	79.1	67	162	0	14
ND9257	12	2851	77.7	81	165	10	14
NE90479	17	2830	80.2	81	159	13	13
AMN4LV	30	2823	81	88	168	0	14.4
XNH1802	25	2817	76.5	71	164	5	13.4
NE92522	18	2763	75.7	79	159	10	12.9
XNH1798	23	2742	78.6	72	163	5	12.9
XNH1773	22	2735	77.4	77	160	15	12.7
NE91631	15	2718	78.8	78	164	0	13.3
W259	29	2677	80.1	88	169	0	14.7
SD89119	4	2622	80	80	161	15	14.2
NE92662	20	2621	76.6	76	162	0	13.7
SD89186	7	2587	76.4	91	160	38	13.4
ND9272	13	2583	76.5	74	163	13	13.8
ND9274	14	2582	76	73	163	3	13.5
NE92628	19	2575	76.2	78	163	5	13.3
ROUGHRIDER	2	2550	79.2	87	166	8	14.3
NE91648	16	2494	76.9	81	163	10	13.3
XH1752	21	2489	76.8	78	160	15	13
XH1689A	26	2466	77.5	78	161	15	13
SD89205	8	2457	78.8	81	163	40	13.2
ND9064	11	2421	78.7	86	166	10	13.7
ND9043	10	2375	78	83	168	10	14.6
SD89153	5	2295	79.1	82	163	18	14.2
SD89180	6	2253	78.8	88	161	20	14.2
MT88046	27	2241	80	83	162	0	15.4
MTSF2238	28	2134	79.2	77	164	10	15.2
KHARKOF	1	2025	79.5	87	166	43	14.6
MEAN		2582					
LSD(.05)		229					
C.V.		6.3					

WASECA

MINNESOTA

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 0-9
NE92522	18	4909	70.5	102	163	2.7
NE92628	19	4861	73.2	107	164	3.7
NE92662	20	4535	72.1	105	164	3.7
NE90479	17	4511	76.5	101	163	4
XH1689A	26	4470	72.6	100	164	4.3
XH1752	21	4388	73.9	105	164	4
ND8974	9	4291	75.9	112	163	3.7
XNH1773	22	4250	72.1	99	163	5.3
XNH1799	24	4201	69	102	165	2.3
SD89180	6	4160	74.8	115	164	6.3
XNH1798	23	4128	72.1	101	164	3
NE91631	15	4112	71.9	112	164	5.7
ND9257	12	4055	73.4	108	165	4
ND9272	13	4014	73	107	163	4
ABILENE	3	3989	74.1	95	165	2.3
MT88046	27	3969	77.4	107	162	2
SD89119	4	3957	75.4	110	162	7.7
ND9274	14	3941	73.4	102	164	4.7
XNH1802	25	3941	66.1	102	165	3.3
W259	29	3892	74.1	120	162	5
ROUGHRIDER	2	3884	78.5	112	163	6.3
SD89186	7	3770	74.1	105	163	5
AMN4LV	30	3770	73.6	123	161	4
SD89153	5	3704	74.8	110	165	6.3
SD89205	8	3672	73.2	103	163	4.7
NE91648	16	3672	73	111	164	6
ND9064	11	3363	75.9	119	162	5
ND9043	10	3314	75.9	119	164	5.3
MTSF2238	28	3126	75	103	162	5
KHARKOF	1	2858	75.7	120	162	8.3
MEAN		3990				
LSD(.05)		591				
C.V.		9.1				

ROSEMOUNT

MINNESOTA

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 %	LEAF RUST SEV. %	RUST RESP. 0-9
ND8974	9	5083	76	113	161	88	15	3
NE92662	20	4732	74.2	107	159	100	1	3
NE92522	18	4685	71.7	100	158	100	50	5
XH1752	21	4638	74.2	105	157	100	10	3
NE91648	16	4629	75.9	111	161	98	5	3
ND9272	13	4622	74	109	161	100	1	3
XNH1773	22	4532	74	103	159	94	5	3
SD89186	7	4353	75.1	115	160	94	30	8
NE92628	19	4337	74	103	160	94	10	3
SD89119	4	4306	77.3	111	159	93	60	3
ND9274	14	4286	74.6	106	161	100	5	3
XNH1798	23	4234	74.8	96	161	95	40	5
XH1689A	26	4226	73.9	103	159	80	20	3
ND9257	12	4115	74	121	163	100	5	3
W259	29	4065	78	130	166	100	60	5
SD89153	5	3990	78.9	113	160	100	40	3
XNH1799	24	3965	74.2	101	163	100	50	3
MT88046	27	3946	76.6	106	158	96	25	5
XNH1802	25	3889	72	103	162	100	80	8
NE91631	15	3806	74.9	111	162	75	20	5
ABILENE	3	3772	76.6	89	158	96	80	3
ND9064	11	3713	75.7	128	162	100	40	3
SD89180	6	3659	76.9	115	158	100	25	8
SD89205	8	3608	75.9	112	159	79	15	3
ROUGHRIDER	2	3496	76.4	126	162	100	20	2
AMN4LV	30	3491	77.3	131	166	100	10	3
NE90479	17	3114	76.2	106	158	66	60	3
MTSF2238	28	3075	76.6	110	162	92	5	3
ND9043	10	3063	75.5	117	163	83	70	5
KHARKOF	1	2785	76	130	162	86	10	3
MEAN		4007						
LSD(.05)		921						
C.V.		14.1						

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 %
NE92662	20	4829	76.3	69	167	98
NE92522	18	4721	78.8	58	165	97
SD89119	4	4719	80.7	66	167	97
XNH1773	22	4667	78.6	67	166	96
NE92628	19	4598	78.6	68	166	97
SD89205	8	4530	77.7	72	168	95
XNH1798	23	4445	78	64	168	94
XNH1802	25	4376	74.5	67	169	90
XH1752	21	4349	79.1	64	166	92
ABILENE	3	4230	81.5	58	170	95
BUCKSKIN	31	4212	78.9	69	167	95
ND9272	13	4152	77.5	63	169	96
XNH1799	24	4060	74.9	66	173	94
SD89180	6	4019	79	69	167	96
SD89153	5	3999	77.7	75	170	97
NE91631	15	3988	73.7	71	171	95
NE91648	16	3939	76.9	66	170	93
SD89186	7	3914	79.2	68	169	96
ND8974	9	3802	77.7	69	171	95
ND9257	12	3703	75.7	69	172	96
XH1689A	26	3676	76.8	61	168	85
MT88046	27	3596	78.2	67	169	90
ROUGHRIDER	2	3466	79.7	78	171	98
NE90479	17	3436	80.9	58	166	95
ND9064	11	3277	77.4	76	171	96
KHARKOF	1	3185	78.1	82	171	97
ND9274	14	3134	74.9	66	172	93
ND9043	10	3064	77.1	75	174	95
MTSF2238	28	3031	77.4	67	171	89
W259	29	2737	76.3	83	175	96
AMN4LV	30	2502	76.8	78	175	89
MEAN		3882				
LSD(.05)		910				
C.V.		14.3				

SIDNEY

MONTANA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING %	LODGING SEVERITY 0-9
XNH1773	22	4471	77.2	75	164	8	0.3
NE92662	20	4385	77.6	78	165	0	0
XH1689A	26	4375	77.7	81	165	31	0.5
ND8974	9	4344	77.6	90	167	31	1.3
ND9272	13	4326	77.7	77	167	9	0.5
ND9257	12	4285	77.6	81	167	9	0.5
NE90479	17	4233	79.2	78	164	0	0
NE92522	18	4221	76.3	80	164	11	0.8
XNH1798	23	4161	77.2	77	166	0	0
ABILENE	3	4111	80.5	64	165	0	0
XH1752	21	4081	76.8	79	164	0	0
NE91631	15	4069	76.4	80	167	0	0
NE92628	19	4034	77.2	80	165	0	0
SD89180	6	4013	80	89	165	15	1
ND9274	14	4000	77.1	75	166	0	0
XNH1802	25	3985	73.5	75	167	0	0
SD89153	5	3981	259.8	85	166	0	0
ND9043	10	3978	77.9	91	168	29	1
ROUGHRIDER	2	3972	80.5	92	168	25	0.8
SD89186	7	3953	78	91	164	64	3.3
AMN4LV	30	3921	78.4	99	170	69	1.5
XNH1799	24	3872	72.7	75	168	0	0
ND9064	11	3870	78.2	97	167	24	1.3
SD89205	8	3859	79.7	89	165	80	3
SD89119	4	3849	79.5	84	165	0	0
NE91648	16	3684	77.4	78	166	15	0.3
MT88046	27	3606	78.9	84	165	9	0.3
W259	29	3496	77.2	93	170	86	2
KHARKOF	1	3443	78	99	168	68	3.3
MTSF2238	28	3063	76.3	77	168	0	0
MEAN		3988					
LSD(.05)		531					
C.V.		9.4					

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	LODGING %	LODGING SEVERITY: 0-9	SHATTER %	GRAIN PROTEIN %
XNH1802	25	4066	78.9	91	175	0	0	0	10.1
XNH1799	24	3849	79.6	86	177	0	0	0	9.6
XNH1798	23	3806	81.5	80	173	0	0	0	9.2
XH1689A	26	3528	80.4	81	171	0	0	0	11.4
SD89119	4	3519	80.6	86	170	0	0	0	9.3
AMN4LV	30	3452	81.9	105	180	2	4	1	11.4
ND9272	13	3414	79.6	82	176	1	2	0	10.5
SD89153	5	3282	82.4	86	174	0	0	1	10
XH1752	21	3262	80.2	80	169	0	0	0	10.7
SD89205	8	3253	80.6	92	171	4	4	2	9.8
SD89180	6	3226	81.3	88	171	2	5	1	11
ND9257	12	3197	79.2	92	176	1	1	3	10.1
W259	29	3192	81.1	112	179	3	4	0	11.5
SD89186	7	3134	80.1	88	170	3	3	2	9.8
MT88046	27	3123	80.9	85	171	0	0	0	12
XNH1773	22	3060	80.1	85	169	0	0	0	11
NE91631	15	3058	79.5	91	175	1	1	1	9.8
ND9274	14	2928	79.6	81	176	1	4	3	10.8
ABILENE	3	2804	81.1	69	171	0	0	0	10.5
NE92628	19	2506	77.8	81	172	0	0	1	8.8
ND9043	10	2504	79.1	102	178	4	4	2	12.8
MTSF2238	28	2502	79.9	85	177	1	4	0	11.7
NE92662	20	2430	78.6	86	171	0	0	2	9.7
KHARKOF	1	2390	81.9	102	175	4	3	2	9.6
NE92522	18	2381	77	79	170	0	0	0	9.3
NE91648	16	2224	80	80	172	0	0	0	9.1
ROUGHRIDER	2	2152	80.4	99	176	0	0	3	9.4
ND8974	9	2112	78.6	90	176	0	0	3	12
ND9064	11	1997	80.5	105	175	0	0	3	10.7
NE90479	17	1896	79.3	72	169	0	0	0	12.2
MEAN		2942							
LSD(.05)		976							
C.V.		20.3							

BOZEMAN

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	LODGING 0-9	WINTER SURVIVAL %	RUST COMPLEX 0-5
XH1689A	26	9491	78.7	107	171	6.3	95	1
XNH1798	23	8841	80.2	101	170	1.3	90	2.7
XH1752	21	8606	78.5	102	168	5	97	2.3
XNH1773	22	8211	77.3	100	169	1	95	3.3
NE92662	20	8169	76	107	170	4	93	2.3
SD89205	8	7974	80.2	113	171	6.7	93	1.3
NE92522	18	7929	76.2	100	168	0.3	93	3
NE91648	16	7613	78	107	172	3.3	97	3.3
MT88046	27	7601	79.5	113	170	3	90	2.3
XNH1802	25	7476	73.7	108	174	6.7	90	2
ABILENE	3	7474	79.7	85	167	0	93	4
NE92628	19	7386	75.1	108	169	5.3	97	3.7
SD89119	4	7312	78	114	169	7.7	92	3.7
NE91631	15	7247	75.5	116	173	4	100	3.3
SD89153	5	7227	82.1	112	172	6	93	1.3
ND9274	14	7117	76.5	102	173	1	93	3
ND9257	12	6911	76.4	115	173	3	88	3.7
AMN4LV	30	6810	79.4	139	179	7.3	85	1.3
NE90479	17	6808	78.6	99	167	2	92	3
SD89180	6	6777	79.9	112	168	5.3	93	3
XNH1799	24	6649	73.4	105	174	4.3	88	3.3
ND9064	11	6633	80.2	130	174	5	95	1.7
ND9272	13	6622	75.4	104	174	1	90	3
SD89186	7	6487	78.8	113	168	5.7	95	2
MTSF2238	28	6183	78.7	107	173	3	72	2.3
W259	29	6162	78.6	120	178	7.3	88	1.7
ROUGHRIDER	2	6079	79.3	119	175	6.3	97	2.7
ND9043	10	6053	77.2	130	176	8.3	90	1
ND8974	9	5786	78.5	119	173	3	95	1
KHARKOF	1	5349	76.5	126	176	8.7	93	1.7
MEAN		7166						
LSD(.05)		755						
C.V.		6.4						

LETHBRIDGE

ALBERTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO RIPENING FROM 1/1	LODGING 0-9	LEAF SPOT 0-9	GRAIN PROTEIN %
XNH1799	24	5165	79.9	89	226	2	4.8	9.8
KESTREL	32	5126	79.7	105	225	2.8	4.5	9.4
W259	29	5011	82.2	126	222	4.3	3.8	10.9
XNH1802	25	4883	79.4	90	224	2	4.3	10.1
ND9274	14	4843	80.2	85	224	2.3	3.8	11.7
ND9272	13	4807	80.5	88	226	2	4.5	11.7
XNH1798	23	4710	81.5	83	225	2	6	10.9
AMN4LV	30	4683	81.8	118	232	4	3.8	10.6
SD89153	5	4660	82.2	89	225	1.5	4.8	12.9
XNH1773	22	4400	80.9	79	224	2	6	12.6
XH1752	21	4240	80.8	74	220	2	7.3	12.6
NE91631	15	4218	79.9	90	228	2.5	5.3	10.8
SD89180	6	4212	82.7	93	232	2.5	4.8	12.4
MTSF2238	28	4179	81.5	86	225	2	4.8	12.9
SD89119	4	4162	82.3	85	225	2	4.5	13.6
SD89205	8	4063	81.7	90	221	2.3	6.3	11.3
XH1689A	26	3992	80.1	80	227	2.5	7	12
READYMADE	31	3920	81.9	99	228	1	4.3	13
ABILENE	3	3912	82.8	66	228	1.5	6.5	12.8
ND9257	12	3846	80	96	225	2.5	4.5	12.1
NE92522	18	3784	79.3	79	221	2	6.3	11.9
MT88046	27	3705	80.6	78	228	1.3	6.5	13.3
NE92662	20	3656	79.7	85	225	2	4.3	11.8
NE90479	17	3620	81.2	78	222	2	6	13.8
KHARKOF	1	3520	82.4	118	222	6.3	5.3	14.5
SD89186	7	3434	81.2	85	220	2.3	6.5	12.3
ROUGHRIDER	2	3363	81.9	106	225	4	3.3	12.5
NE92628	19	3348	79.8	80	222	2	6	12.2
NE91648	16	3335	80.2	88	225	3	5.3	11.2
ND9043	10	2419	80.1	111	232	3.8	4.3	12.6
ND8974	9	2119	79.5	95	225	2	5.3	11.7
ND9064	11	1748	81.1	111	232	2.8	3.5	12.4
MEAN		3971						
LSD(.05)		771						
C.V.		13.7						

CRAWFORDSVILLE

IOWA

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 %	LEAF RUST 6/12 0-9	LEAF RUST 6/20 0-9	MILDEW 0-9
NE91648	16	3510	73.5	110	156	5	5	7	2
NE91631	15	3450	68.5	104	158	0	1	2	1
ABILENE	3	3430	68	94	155	10	4	8	9
NE92628	19	3342	72	104	155	10	2	3	2
ND9064	11	3268	74.8	117	158	5	2	2	1
NE92522	18	3194	68.5	100	154	0	1	2	1
NE90479	17	3141	75.5	100	153	5	4	3	2
XH1689A	26	3127	72.5	104	154	15	2	4	4
SD89186	7	3120	72.6	106	157	10	3	5	3
SD89180	6	3020	72.6	103	156	5	6	6	5
ND9272	13	3013	70.6	100	157	0	1	4	1
SD89205	8	2892	73.8	102	155	10	1	3	4
NE92662	20	2892	71.2	104	155	5	1	2	1
SD89153	5	2804	72.9	102	157	5	3	2	1
ND8974	9	2751	72.9	108	158	0	3	4	3
ROUGHRIDER	2	2717	76.4	106	158	20	3	6	6
SD89119	4	2703	75.5	108	157	0	3	3	2
ND9257	12	2495	70.6	107	158	0	2	3	1
XNH1773	22	2495	72	104	154	15	5	7	4
ND9274	14	2482	69.8	106	157	0	2	5	1
XNH1798	23	2293	67.5	100	155	0	1	5	2
MT88046	27	2172	73.9	102	153	0	3	7	2
AMN4LV	30	1681	69.7	107	164	0	3	6	6
XNH1802	25	1668	63.3	102	158	0	5	9	1
W259	29	1621	73.8	110	163	0	4	4	5
ND9043	10	1587	71.6	100	158	5	2	4	2
MTSF2238	28	1567	70.7	103	157	0	6	8	1
XNH1799	24	1513	63.1	91	159	0	7	9	2
XH1752	21	1426	70.8	104	153	30	3	7	3
KHARKOF	1	1143	60.5	102	162	0	5	7	6

LIND

WASHINGTON

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	STRIPE RUST SEV.	STRIPE RUST RESP.
XH1752	21	5579	79.4	93	142	80	8
XNH1773	22	5572	79.2	94	143	80	8
HATTON	31	5161	82.4	106	146	.	.
NE92522	18	5071	77.4	88	143	80	8
XNH1802	25	4971	78.3	95	144	90	8
XH1689A	26	4883	80	94	143	30	8
NE92662	20	4864	78.2	92	144	80	8
NE92628	19	4848	78.3	96	142	80	8
SD89119	4	4819	80.6	102	142	50	8
ND9064	11	4814	80.1	107	144	60	8
SD89186	7	4513	79	102	142	60	8
SD89205	8	4487	79.5	98	142	60	8
XNH1798	23	4404	80.5	93	144	80	8
ABILENE	3	4343	81.3	83	142	60	3
SD89180	6	4325	80.4	99	142	60	8
AMN4LV	30	4324	80.1	110	148	80	8
NE91631	15	4167	78.5	94	145	90	8
ND9272	13	4141	78.8	81	145	80	8
ND8974	9	4070	78.8	98	144	40	8
ROUGHRIDER	2	4055	59.7	101	145	20	8
MT88046	27	4008	80.8	99	143	70	8
W259	29	3979	81	112	148	70	8
NE91648	16	3887	79.4	90	144	90	8
KHARKOF	1	3835	79.2	120	146	10	8
SD89153	5	3780	81.7	99	146	10	8
MTSF2238	28	3593	60.9	96	144	80	8
NE90479	17	3450	81.8	87	143	80	8
ND9043	10	3422	80.1	103	146	60	8
ND9257	12	3102	76.5	88	144	75	8
ND9274	14	2844	78.3	81	145	90	5
XNH1799	24	.	76.8	95	145	90	8
MEAN		4281					
LSD(.05)		N.S.					
C.V.		17.7					

Table 19. Summary of mean yields (kg/ha) of 30 wheats grown in the 1995 Northern Regional Performance Nursery at 15 locations with state means and ranks.

C.I. OR SEL. NO.	ENTRY NO.	NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		NEBRASKA STATE MEAN		BROOKINGS S. DAKOTA		PIERRE S. DAKOTA		WINNER S. DAKOTA		SOUTH DAKOTA STATE MEAN	
NE92662	20	2603	10	6369	3	4486	4	3179	1	3412	2	3401	5	3330	3
XNH1773	22	2428	11	5323	11	3875	12	2553	12	2820	10	3454	4	2943	5
NE92522	18	2930	6	6185	5	4557	3	2051	19	3250	5	3338	6	2880	6
XNH1798	23	2981	4	6393	2	4687	2	2002	21	1811	22	3264	8	2359	17
XH1689A	26	2981	5	5382	10	4182	7	2677	7	2459	16	3336	7	2824	7
XH1752	21	2643	9	5567	7	4105	9	2715	6	2116	19	3154	11	2662	9
NE92628	19	3055	2	5509	8	4282	5	2737	5	3941	1	3569	3	3416	1
NE91648	16	2253	13	4962	15	3607	14	2885	3	3291	3	3844	1	3340	2
ND9272	13	1513	19	5439	9	3476	16	1993	22	2849	9	2403	17	2415	16
ABILENE	3	4331	1	5288	12	4809	1	1080	29	3230	6	3255	9	2522	11
NE91631	15	2298	12	6035	6	4166	8	2253	14	2688	13	2383	18	2441	15
ND9257	12	2688	8	5198	14	3943	10	2576	10	2681	14	2253	21	2503	12
XNH1802	25	2018	16	6491	1	4254	6	1334	26	1300	27	2221	22	1618	27
SD89153	5	1244	20	4639	19	2942	21	2562	11	3031	8	2336	19	2643	10
SD89119	4	491	28	3736	26	2113	27	2172	15	2782	11	3194	10	2716	8
ND9274	14	1657	17	4940	17	3298	18	2053	18	2325	17	2410	16	2263	19
SD89186	7	2114	14	4540	20	3327	17	2116	16	2589	15	2717	13	2474	14
SD89180	6	984	22	4130	23	2557	24	1879	23	2271	18	2773	12	2307	18
NE90479	17	2997	3	3413	27	3205	19	1831	24	3284	4	3782	2	2966	4
SD89205	8	825	24	4405	22	2615	23	1482	25	2011	20	2322	20	1938	24
XNH1799	24	1536	18	6226	4	3881	11	1262	27	1264	28	1773	27	1433	30
ND8974	9	2753	7	4848	18	3800	13	2096	17	2773	12	2603	14	2490	13
MT88046	27	2053	15	4961	16	3507	15	1244	28	3044	7	1879	24	2056	21
W259	29	935	23	4125	24	2530	26	2627	9	1506	24	1802	26	1979	22
AMN4LV	30	673	27	4406	21	2539	25	2432	13	1045	29	2163	23	1880	25
ND9064	11	1233	21	4074	25	2654	22	2981	2	1432	26	1831	25	2082	20
MTSF2238	28	776	25	5222	13	2999	20	702	30	1961	21	2437	15	1700	26
ROUGHRIDER	2	430	29	3194	28	1812	29	2049	20	1450	25	847	30	1449	29
ND9043	10	760	26	3108	29	1934	28	2831	4	572	30	1332	29	1578	28
KHARKOF	1	157	30	2097	30	1127	30	2647	8	1632	23	1650	28	1976	23
MEAN		1878		4874		3376		2167		2361		2591		2373	
LSD(.05)		1405		933		1348		472		744		594		985	
C.V.		45.8		11.7		21.6		13.3		19.3		14.0		15.8	

Table 19. Continued.

C.I. OR SEL. NO.	ENTRY NO.	WASECA MINNESOTA		ROSEMOUNT MINNESOTA		MINNESOTA STATE MEAN		WILLISTON N. DAKOTA		CASSELTON N. DAKOTA		CARRINGTON N. DAKOTA		NORTH DAKOTA STATE MEAN	
NE92662	20	4535	3	4732	2	4633	3	2621	14	5219	7	4643	7	4161	5
XNH1773	22	4250	8	4532	7	4391	6	2735	10	5859	1	5176	1	4590	1
NE92522	18	4909	1	4685	3	4797	1	2763	8	5435	5	4883	5	4360	2
XNH1798	23	4128	11	4234	12	4181	9	2742	9	5474	4	4100	12	4105	6
XH1689A	26	4470	5	4226	13	4348	7	2466	22	4735	12	5089	2	4097	7
XH1752	21	4388	6	4638	4	4513	5	2489	21	5532	3	4991	4	4337	3
NE92628	19	4861	2	4337	9	4599	4	2575	18	5540	2	4752	6	4289	4
NE91648	16	3672	26	4629	5	4150	10	2494	20	4763	11	5013	3	4090	8
ND9272	13	4014	14	4622	6	4318	8	2583	16	4594	15	3958	15	3712	13
ABILENE	3	3989	15	3772	21	3881	21	2864	3	3923	24	2817	27	3201	26
NE91631	15	4112	12	3806	20	3959	17	2718	11	4147	20	3969	14	3612	15
ND9257	12	4055	13	4115	14	4085	13	2851	4	4662	14	3762	16	3758	12
XNH1802	25	3941	18	3889	19	3915	19	2817	7	3831	26	3654	18	3434	19
SD89153	5	3704	24	3990	16	3847	22	2295	26	4910	9	4165	9	3790	11
SD89119	4	3957	17	4306	10	4131	11	2622	13	4404	16	3556	19	3527	18
ND9274	14	3941	19	4286	11	4113	12	2582	17	4092	21	4023	13	3566	17
SD89186	7	3770	22	4353	8	4061	15	2587	15	4794	10	3654	17	3679	14
SD89180	6	4160	10	3659	23	3910	20	2253	27	5246	6	4208	8	3902	9
NE90479	17	4511	4	3114	27	3812	23	2830	5	3834	25	4121	11	3595	16
SD89205	8	3672	25	3608	24	3640	25	2457	23	4947	8	4165	9	3856	10
XNH1799	24	4201	9	3965	17	4083	14	2918	2	3811	27	2675	29	3135	27
ND8974	9	4291	7	5083	1	4687	2	2945	1	4373	18	2925	25	3414	20
MT88046	27	3969	16	3946	18	3958	18	2241	28	4290	19	3436	20	3323	23
W259	29	3892	20	4065	15	3978	16	2677	12	4673	13	2828	26	3393	22
AMN4LV	30	3770	22	3491	26	3630	26	2823	6	4029	22	2795	28	3216	25
ND9064	11	3363	27	3713	22	3538	27	2421	24	3956	23	3436	20	3271	24
MTSF2238	28	3126	29	3075	28	3101	29	2134	29	3779	28	2197	30	2703	30
ROUGHRIDER	2	3884	21	3496	25	3690	24	2550	19	3688	29	3077	24	3105	28
ND9043	10	3314	28	3063	29	3188	28	2375	25	4399	17	3404	22	3393	21
KHARKOF	1	2858	30	2785	30	2821	30	2025	30	3675	30	3088	23	2929	29
MEAN		3990		4007		3999		2582		4554		3819		3651	
LSD(.05)		591		921		658		229		916		1067		816	
C.V.		9.1		14.1		11.9		6.3		12.3		17.1		13.3	

Table 19. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	SIDNEY MONTANA		MOCCASIN MONTANA		BOZEMAN MONTANA		MONTANA STATE MEAN		ARCHER WYOMING		LETHBRIDGE ALBERTA		REGIONAL AVERAGE	
NE92662	20	4385	2	2430	23	8169	5	4994	7	4829	1	3656	21	4279	1
XNH1773	22	4471	1	3060	16	8211	4	5247	4	4667	4	4400	9	4263	2
NE92522	18	4221	8	2381	25	7929	7	4844	9	4721	2	3784	19	4231	3
XNH1798	23	4161	9	3806	3	8841	2	5603	2	4445	7	4710	6	4206	4
XH1689A	26	4375	3	3528	4	9491	1	5798	1	3676	20	3992	16	4192	5
XH1752	21	4081	11	3262	9	8606	3	5316	3	4349	9	4240	10	4185	6
NE92628	19	4034	13	2506	20	7386	12	4642	20	4598	5	3348	26	4183	7
NE91648	16	3684	26	2224	26	7613	8	4507	22	3939	16	3335	27	3907	8
ND9272	13	4326	5	3414	7	6622	23	4787	15	4152	11	4807	5	3819	9
ABILENE	3	4111	10	2804	19	7474	11	4796	12	4230	10	3912	17	3805	10
NE91631	15	4069	12	3058	17	7247	14	4791	13	3988	15	4218	11	3799	11
ND9257	12	4285	6	3197	12	6911	17	4798	11	3703	19	3846	18	3786	12
XNH1802	25	3985	16	4066	1	7476	10	5176	5	4376	8	4883	3	3752	13
SD89153	5	3981	17	3282	8	7227	15	4830	10	3999	14	4660	8	3735	14
SD89119	4	3849	25	3519	5	7312	13	4893	8	4719	3	4162	14	3652	15
ND9274	14	4000	15	2928	18	7117	16	4682	18	3134	26	4843	4	3622	16
SD89186	7	3953	20	3134	14	6487	24	4525	21	3914	17	3434	24	3610	17
SD89180	6	4013	14	3226	11	6777	20	4672	19	4019	13	4212	12	3587	18
NE90479	17	4233	7	1896	30	6808	19	4312	23	3436	23	3620	22	3581	19
SD89205	8	3859	24	3253	10	7974	6	5029	6	4530	6	4063	15	3572	20
XNH1799	24	3872	22	3849	2	6649	21	4790	14	4060	12	5165	1	3548	21
ND8974	9	4344	4	2112	28	5786	29	4080	27	3802	18	2119	29	3523	22
MT88046	27	3606	27	3123	15	7601	9	4777	16	3596	21	3705	20	3513	23
W259	29	3496	28	3192	13	6162	26	4284	24	2737	29	5011	2	3315	24
AMN4LV	30	3921	21	3452	6	6810	18	4728	17	2502	30	4683	7	3266	25
ND9064	11	3870	23	1997	29	6633	22	4167	26	3277	24	1748	30	3064	26
MTSF2238	28	3063	30	2502	22	6183	25	3916	29	3031	28	4179	13	2958	27
ROUGHRIDER	2	3972	19	2152	27	6079	27	4068	28	3466	22	3363	25	2913	28
ND9043	10	3978	18	2504	21	6053	28	4178	25	3064	27	2419	28	2878	29
KHARKOF	1	3443	29	2390	24	5349	30	3727	30	3185	25	3520	23	2700	30
MEAN		3988		2942		7166		4699		3871		3935		3648	
LSD(.05)		531		976		755		914		923		784		428	
C.V.		9.4		20.3		6.4		10.2		14.6		14.1		14.0	

Table 20. Summary of mean yields (kg/ha) and ranks of 30 wheats grown in the 1995 Northern Regional Performance Nursery at 11 locations from which a CV of 15.0 or less and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	SIDNEY NEBRASKA		ARCHER WYOMING		BROOKINGS S. DAKOTA		WINNER S. DAKOTA		WASECA MINNESOTA		ROSEMOUNT MINNESOTA	
NE92662	20	6369	3	4829	1	3179	1	3401	5	4535	3	4732	2
XNH1773	22	5323	11	4667	4	2553	12	3454	4	4250	8	4532	7
XNH1798	23	6393	2	4445	7	2002	21	3264	8	4128	11	4234	12
NE92522	18	6185	5	4721	2	2051	19	3338	6	4909	1	4685	3
XH1752	21	5567	7	4349	9	2715	6	3154	11	4388	6	4638	4
XH1689A	26	5382	10	3676	20	2677	7	3336	7	4470	5	4226	13
NE92628	19	5509	8	4598	5	2737	5	3569	3	4861	2	4337	9
NE91648	16	4962	15	3939	16	2885	3	3844	1	3672	26	4629	5
ND9272	13	5439	9	4152	11	1993	22	2403	17	4014	14	4622	6
XNH1802	25	6491	1	4376	8	1334	26	2221	22	3941	18	3889	19
NE91631	15	6035	6	3988	15	2253	14	2383	18	4112	12	3806	20
ND9257	12	5198	14	3703	19	2576	10	2253	21	4055	13	4115	14
SD89119	4	3736	26	4719	3	2172	15	3194	10	3957	17	4306	10
SD89153	5	4639	19	3999	14	2562	11	2336	19	3704	24	3990	16
ABILENE	3	5288	12	4230	10	1080	29	3255	9	3989	15	3772	21
XNH1799	24	6226	4	4060	12	1262	27	1773	27	4201	9	3965	17
ND9274	14	4940	17	3134	26	2053	18	2410	16	3941	19	4286	11
SD89205	8	4405	22	4530	6	1482	25	2322	20	3672	25	3608	24
SD89180	6	4130	23	4019	13	1879	23	2773	12	4160	10	3659	23
SD89186	7	4540	20	3914	17	2116	16	2717	13	3770	22	4353	8
ND8974	9	4848	18	3802	18	2096	17	2603	14	4291	7	5083	1
NE90479	17	3413	27	3436	23	1831	24	3782	2	4511	4	3114	27
W259	29	4125	24	2737	29	2627	9	1802	26	3892	20	4065	15
MT88046	27	4961	16	3596	21	1244	28	1879	24	3969	16	3946	18
AMN4LV	30	4406	21	2502	30	2432	13	2163	23	3770	22	3491	26
ND9064	11	4074	25	3277	24	2981	2	1831	25	3363	27	3713	22
MTSF2238	28	5222	13	3031	28	702	30	2437	15	3126	29	3075	28
ROUGHRIDER	2	3194	28	3466	22	2049	20	847	30	3884	21	3496	25
ND9043	10	3108	29	3064	27	2831	4	1332	29	3314	28	3063	29
KHARKOF	1	2097	30	3185	25	2647	8	1650	28	2858	30	2785	30
MEAN		4874		3871		2167		2591		3990		4007	
LSD(.05)		933		923		472		594		591		921	
C.V.		11.7		14.6		13.3		14.0		9.1		14.1	

Table 20. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	SIDNEY MONTANA		BOZEMAN MONTANA		WILLISTON N. DAKOTA		CASSELTON N. DAKOTA		LETHBRIDGE ALBERTA		REGIONAL AVERAGE	
NE92662	20	4385	2	8169	5	2621	14	5219	7	3656	21	4645	1
XNH1773	22	4471	1	8211	4	2735	10	5859	1	4400	9	4587	2
XNH1798	23	4161	9	8841	2	2742	9	5474	4	4710	6	4581	3
NE92522	18	4221	8	7929	7	2763	8	5435	5	3784	19	4547	4
XH1752	21	4081	11	8606	3	2489	21	5532	3	4240	10	4523	5
XH1689A	26	4375	3	9491	1	2466	22	4735	12	3992	16	4439	6
NE92628	19	4034	13	7386	12	2575	18	5540	2	3348	26	4408	7
NE91648	16	3684	26	7613	8	2494	20	4763	11	3335	27	4165	8
ND9272	13	4326	5	6622	23	2583	16	4594	15	4807	5	4141	9
XNH1802	25	3985	16	7476	10	2817	7	3831	26	4883	3	4113	10
NE91631	15	4069	12	7247	14	2718	11	4147	20	4218	11	4089	11
ND9257	12	4285	6	6911	17	2851	4	4662	14	3846	18	4041	12
SD89119	4	3849	25	7312	13	2622	13	4404	16	4162	14	4039	13
SD89153	5	3981	17	7227	15	2295	26	4910	9	4660	8	4027	14
ABILENE	3	4111	10	7474	11	2864	3	3923	24	3912	17	3991	16
XNH1799	24	3872	22	6649	21	2918	2	3811	27	5165	1	3991	15
ND9274	14	4000	15	7117	16	2582	17	4092	21	4843	4	3945	17
SD89205	8	3859	24	7974	6	2457	23	4947	8	4063	15	3938	18
SD89180	6	4013	14	6777	20	2253	27	5246	6	4212	12	3920	19
SD89186	7	3953	20	6487	24	2587	15	4794	10	3434	24	3879	20
ND8974	9	4344	4	5786	29	2945	1	4373	18	2119	29	3844	21
NE90479	17	4233	7	6808	19	2830	5	3834	25	3620	22	3765	22
W259	29	3496	28	6162	26	2677	12	4673	13	5011	2	3752	23
MT88046	27	3606	27	7601	9	2241	28	4290	19	3705	20	3731	24
AMN4LV	30	3921	21	6810	18	2823	6	4029	22	4683	7	3730	25
ND9064	11	3870	23	6633	22	2421	24	3956	23	1748	30	3443	26
MTSF2238	28	3063	30	6183	25	2134	29	3779	28	4179	13	3357	27
ROUGHRIDER	2	3972	19	6079	27	2550	19	3688	29	3363	25	3326	28
ND9043	10	3978	18	6053	28	2375	25	4399	17	2419	28	3267	29
KHARKOF	1	3443	29	5349	30	2025	30	3675	30	3520	23	3021	30
MEAN		3988		7166		2582		4554		3935		3975	
LSD(.05)		531		755		229		916		784		485	
C.V.		9.4		6.4		6.3		12.3		14.1		11.5	

Table 21. Summary of mean yields (kg/ha) and ranks of 30 wheats grown in the 1995 Northern Regional Performance Nursery for 5 intra-regional production zones (after Peterson, 1992).

C.I. OR SEL. NO.	ENTRY NO.	NORTH-CENTRAL PLAINS		NORTHERN HIGH PLAINS		NORTHERN PLAINS		NORTH-WEST PLAINS		NORTH-WEST		REGIONAL AVERAGE	
NUMBER OF LOCATIONS		6		2		2		3		3		15	
NE92662	20	4136	1	5599	1	4931	5	3473	2	4752	16	4279	1
XNH1773	22	3757	7	4995	8	5518	1	3342	7	5224	5	4263	2
NE92522	18	4016	2	5453	2	5159	3	3412	4	4698	19	4231	3
XNH1798	23	3834	6	5419	4	4787	8	2905	18	5786	1	4206	4
XH1689A	26	3845	5	4529	12	4912	6	3100	13	5671	2	4192	5
XH1752	21	3851	4	4958	9	5262	2	2895	19	5369	4	4185	6
NE92628	19	4011	3	5053	6	5146	4	3516	1	4414	21	4183	7
NE91648	16	3707	8	4450	15	4888	7	3156	11	4390	22	3907	8
ND9272	13	3331	13	4795	10	4276	12	3253	9	4948	12	3819	9
ABILENE	3	3619	9	4759	11	3370	28	3402	5	4730	18	3805	10
NE91631	15	3481	11	5011	7	4058	15	3158	10	4841	13	3799	11
ND9257	12	3481	12	4451	14	4212	14	3272	8	4651	20	3786	12
XNH1802	25	3315	14	5433	3	3742	22	2701	22	5475	3	3752	13
SD89153	5	3079	19	4319	17	4537	11	3102	12	5056	8	3735	14
SD89119	4	2976	21	4227	19	3980	17	3084	14	4998	9	3652	15
ND9274	14	3214	17	4037	23	4058	16	2969	16	4963	11	3622	16
SD89186	7	3268	16	4227	19	4224	13	3043	15	4352	23	3610	17
SD89180	6	2931	22	4075	22	4727	9	2846	20	4738	17	3587	18
NE90479	17	3275	15	3425	27	3978	18	3449	3	4108	25	3581	19
SD89205	8	2719	26	4468	13	4556	10	2776	21	5096	7	3572	20
XNH1799	24	3161	18	5143	5	3243	29	2685	23	5221	6	3548	21
ND8974	9	3612	10	4325	16	3649	24	3354	6	3339	30	3523	22
MT88046	27	3009	20	4278	18	3863	20	2964	17	4810	14	3513	23
W259	29	2908	23	3431	26	3751	21	2560	27	4789	15	3315	24
AMN4LV	30	2822	25	3454	25	3412	25	2596	25	4982	10	3266	25
ND9064	11	2866	24	3676	24	3696	23	2575	26	3459	29	3064	26
MTSF2238	28	2556	27	4126	21	2988	30	2386	28	4288	24	2958	27
ROUGHRIDER	2	2317	29	3330	28	3383	26	2657	24	3865	26	2913	28
ND9043	10	2401	28	3086	29	3902	19	2308	30	3659	28	2878	29
KHARKOF	1	2032	30	2641	30	3382	27	2367	29	3753	27	2700	30
MEAN		3251		4372		4186		2977		4681		3648	
LSD(.05)		712		1302		772		752		984		428	
C.V.		16.5		13.0		14.5		11.2		11.8		14.0	

Table 22. Summary of mean yields (kg/ha) and ranks for 13 wheats grown in the Northern Regional Performance Nursery at 13 locations in 1994 and 1995 with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		NEBRASKA STATE MEAN		ARCHER WYOMING	
NE82671/NE80413	NE91648	16	3113	2	4658	4	3886	3	2539	7
NE82761/Brule 84	NE91631	15	2994	3	5411	1	4203	2	2485	8
ABILENE	ABILENE	3	4280	1	4705	2	4493	1	2816	2
BRULE/OK754615E	SD89153	5	2338	8	4488	5	3413	7	2698	4
BRULE/AGATE	SD89119	4	2090	10	3736	10	2913	10	2921	1
NE77682/DAWN	SD89205	8	2495	6	4667	3	3581	6	2807	3
CENTURK/NELL	SD89186	7	2971	5	4255	6	3613	4	2558	6
SEWARD/ARCHER	ND8974	9	2984	4	4230	7	3607	5	2348	9
NELL/KS81H16 4063	SD89180	6	2294	9	4084	8	3189	8	2561	5
Rri//Frd/SD6689/3/Frd/NB68466	ND9064	11	2352	7	3987	9	3169	9	2323	10
ROUGHRIDER	ROUGHRIDER	2	1782	12	3358	11	2570	11	2197	11
Sdn*2/Bon//Frd/Nb68466	ND9043	10	1830	11	3078	12	2454	12	2034	13
KHARKOF	KHARKOF	1	1610	13	2649	13	2129	13	2178	12
	MEAN		2549		4100		3325		2497	
	LSD(.05)		N.S.		1082		N.S.		N.S.	
	C.V.		21.4		11.0		15.1		14.0	

Table 22. Continued.

C.I. OR SEL. NO.	ENTRY NO.	ROSEMOUNT MINNESOTA		WASECA MINNESOTA		MINNESOTA STATE MEAN		PIERRE S. DAKOTA		WINNER S. DAKOTA		BROOKINGS S. DAKOTA		SOUTH DAKOTA STATE MEAN	
NE91648	16	5310	1	4105	2	4708	1	2584	7	4157	1	2176	5	2972	1
NE91631	15	4946	5	4132	1	4539	4	2613	5	3086	5	1856	10	2518	6
ABILENE	3	4408	10	3654	12	4031	11	2717	3	2988	6	1180	13	2295	10
SD89153	5	4861	6	3815	11	4338	6	2965	1	2802	8	2423	3	2730	3
SD89119	4	5069	3	4095	4	4582	3	2847	2	3601	2	1994	9	2814	2
SD89205	8	4657	7	3930	7	4294	7	2269	10	2782	9	1692	12	2248	11
SD89186	7	4968	4	3815	10	4392	5	2406	8	3252	3	2000	8	2553	5
ND8974	9	5234	2	4105	3	4670	2	2591	6	2926	7	2013	7	2510	7
SD89180	6	4535	8	3924	8	4229	9	2710	4	3248	4	1766	11	2575	4
ND9064	11	4519	9	3948	6	4234	8	2224	11	2572	10	2589	1	2462	8
ROUGHRIDER	2	4365	11	4082	5	4223	10	2211	12	1876	13	2167	6	2085	12
ND9043	10	3919	12	3875	9	3897	12	1462	13	2228	11	2234	4	1975	13
KHARKOF	1	3717	13	3197	13	3457	13	2366	9	2165	12	2425	2	2319	9
MEAN		4655		3898		4276		2459		2899		2040		2466	
LSD(.05)		749		N.S.		N.S.		N.S.		976		N.S.		N.S.	
C.V.		9.1		9.3		9.2		23.6		25.4		20.9		24.2	

Table 22. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	WILLISTON N. DAKOTA		CASSELTON N. DAKOTA		NORTH DAKOTA STATE MEAN		SIDNEY MONTANA		BOZEMAN MONTANA		MONTANA STATE MEAN		LETHBRIDGE ALBERTA		REGIONAL AVERAGE	
NE91648	16	3135	5	4634	1	3884	1	3670	11	6477	3	5074	3	3960	7	3886	1
NE91631	15	3239	3	3907	8	3573	8	4008	2	6680	1	5344	1	4664	1	3848	2
ABILENE	3	3484	1	3838	10	3661	5	3741	8	6349	4	5045	4	4078	6	3711	4
SD89153	5	3008	8	4416	3	3712	3	3986	3	6088	6	5037	5	4358	2	3711	3
SD89119	4	3080	7	4172	6	3626	7	3667	12	6186	5	4926	6	4316	4	3675	5
SD89205	8	2997	9	4286	5	3642	6	3706	10	6655	2	5180	2	4352	3	3638	6
SD89186	7	3220	4	4446	2	3833	2	3835	6	5564	9	4700	10	3698	8	3614	7
ND8974	9	3408	2	3957	7	3682	4	4164	1	5410	10	4787	9	3150	12	3579	8
SD89180	6	2661	12	4404	4	3532	9	3964	4	5777	8	4871	8	4155	5	3545	9
ND9064	11	3110	6	3361	12	3236	12	3962	5	5782	7	4872	7	2763	13	3346	10
ROUGHRIDER	2	2971	10	3755	11	3363	11	3810	7	5167	11	4489	11	3550	9	3176	11
ND9043	10	2902	11	3851	9	3376	10	3721	9	5032	12	4376	12	3221	11	3030	12
KHARKOF	1	2337	13	3129	13	2733	13	3290	13	4606	13	3948	13	3516	10	2860	13
MEAN		3042		4012		3527		3808		5829		4818		3829		3509	
LSD(.05)		370		795		N.S.		369		798		N.S.		N.S.		443	
C.V.		11.4		14.7		13.3		8.9		5.7		7.1		16.0		13.7	

Table 23. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from regression from linear regression analysis of variety mean yield on nursery mean yield for the 30 entries in the 1995 Northern Regional Performance Nursery grown at 15 locations.

C.I. OR SEL. NO.	ENTRY NO.	15 SITE REGIONAL AVERAGE KG/HA	REGRESSION COEFFICIENT (b)	COEFFICIENT OF DETERMINATION (r2)	DEVIATIONS FROM REGRESSION (MEAN SQUARE)
NE92662	20	4279	1.09	0.89	289330
XNH1773	22	4263	1.12	0.95	128050
NE92522	18	4231	1.11	0.89	289054
XNH1798	23	4206	1.27	0.92	260567
XH1689A	26	4192	1.23	0.89	344335
XH1752	21	4185	1.20	0.95	140068
NE92628	19	4183	0.89	0.81	370460
NE91648	16	3907	0.93	0.81	393598
ND9272	13	3819	0.99	0.92	168200
ABILENE	3	3805	0.84	0.65	722013
NE91631	15	3799	1.01	0.94	132396
ND9257	12	3786	0.88	0.96	68414
XNH1802	25	3752	1.18	0.84	521989
SD89153	5	3735	1.02	0.93	159894
SD89119	4	3652	1.00	0.83	391326
ND9274	14	3622	1.02	0.94	137435
SD89186	7	3610	0.86	0.96	53598
SD89180	6	3587	1.02	0.91	202245
NE90479	17	3581	0.71	0.64	526259
SD89205	8	3572	1.24	0.95	167777
XNH1799	24	3548	1.10	0.77	683746
ND8974	9	3523	0.72	0.65	540186
MT88046	27	3513	1.09	0.93	171288
W259	29	3315	0.92	0.78	459175
AMN4LV	30	3266	1.02	0.81	460540
ND9064	11	3064	0.93	0.80	403856
MTSF2238	28	2958	1.02	0.86	333301
ROUGHRIDER	2	2913	0.96	0.84	348375
ND9043	10	2878	0.91	0.76	496615
KHARKOF	1	2700	0.73	0.69	457651

Table 24. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from regression from linear regression analysis of variety mean yield on nursery mean yield for the 13 entries in the 1994 and 1995 Northern Regional Performance Nursery grown at 13 locations.

C.I. OR SEL. NO.	ENTRY NO.	13 SITE REGIONAL AVERAGE KG/HA	REGRESSION COEFFICIENT (b)	COEFFICIENT OF DETERMINATION (r2)	DEVIATIONS FROM REGRESSION (MEAN SQUARE)
NE91648	16	3886	1.06	0.87	256056
NE91631	15	3848	1.15	0.91	213251
ABILENE	3	3711	0.91	0.68	605209
SD89153	5	3711	1.03	0.94	108571
SD89119	4	3675	1.09	0.92	163509
SD89205	8	3638	1.25	0.95	116241
SD89186	7	3614	0.94	0.96	65526
ND8974	9	3579	0.87	0.80	289072
SD89180	6	3545	1.04	0.93	121632
ND9064	11	3346	0.96	0.84	265055
ROUGHRIDER	2	3176	0.98	0.86	232671
ND9043	10	3030	0.96	0.84	267997
KHARKOF	1	2860	0.76	0.77	264146

Table 25. Summary of agronomic and yield data for 30 wheats grown in the 1995 Northern Regional Performance Nursery.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LODGING 0-9	SHATTER %
NUMBER OF LOCATIONS			17	14	3	6	1
REDLAND/NE82419	NE92662	20	92	163	97	1.7	2
QUANTUM HYBRID WHEAT	XNH1773	22	90	161	95	1.4	0
REDLAND/NE82419	NE92522	18	89	161	97	1.2	0
QUANTUM HYBRID WHEAT	XNH1798	23	89	163	93	1.2	0
QUANTUM HYBRID WHEAT	XH1689A	26	90	163	87	2.3	0
QUANTUM HYBRID WHEAT	XH1752	21	89	161	96	2.1	0
MV11-85/REDLAND	NE92628	19	92	162	96	2	1
NE82671/NE80413	NE91648	16	94	164	96	2.2	0
Rri/ND7656//Arapahoe	ND9272	13	90	164	95	1.6	0
ABILENE	ABILENE	3	78	163	95	0.7	0
NE82761/Brule 84	NE91631	15	97	165	90	2.2	1
Rri/ND7571//Arapahoe	ND9257	12	97	165	95	1.8	3
QUANTUM HYBRID WHEAT	XNH1802	25	92	165	93	2	0
BRULE/OK754615E	SD89153	5	96	164	97	2.5	1
BRULE/AGATE	SD89119	4	94	162	94	3.2	0
Rri/ND7656//Arapahoe	ND9274	14	90	165	95	2	3
CENTURK/NELL	SD89186	7	96	162	95	3.3	2
NELL/KS81H16 4063	SD89180	6	97	162	96	3.6	1
KS83H2510/Brule 83 composite	NE90479	17	88	161	84	1.4	0
NE77682/DAWN	SD89205	8	94	163	89	3.6	2
QUANTUM HYBRID WHEAT	XNH1799	24	90	166	94	1.6	0
SEWARD/ARCHER	ND8974	9	98	165	93	1.7	3
PMN 5//FROID/BEZ/3/HP394/FROID	MT88046	27	92	162	92	1.1	0
Norstar*5/Tr1//ND7481(Froid/Lancer)	W259	29	110	168	95	4.1	0
Norstar*5//A. sq. CI4/Novamichuriaka	AMN4LV	30	111	168	91	3.8	1
Rri//Frd/SD6689/3/Frd/NB68466	ND9064	11	106	165	97	2.6	3
Lew/Tiber//Redwin	MTSF2238	28	92	165	84	2.4	0
ROUGHRIDER	ROUGHRIDER	2	102	166	98	3.1	3
Sdn*2/Bon//Frd/Nb68466	ND9043	10	104	166	90	4	2
KHARKOF	KHARKOF	1	108	166	92	6.1	2

Table 25. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	STRIPE RUST SEV. %	LEAF RUST SEVERITY %	LEAF RUST SEVERITY 0-9	MILDEW 0-9	LEAF SPOT 0-9	GRN LEAF DURATION 0-9	GRAIN PROTEIN %	VOLUME WEIGHT KG/HL	YIELD KG/HA
NUMBER OF LOCATIONS		1	1	1	1	2	1	3	17	15
NE92662	20	80	1	2	1	3.4	3	11.7	76.7	4279
XNH1773	22	80	5	7	4	4.8	3	12.1	77.6	4263
NE92522	18	80	50	2	1	4.8	3.7	11.4	75.5	4231
XNH1798	23	80	40	5	2	4.3	2.7	11	77.1	4206
XH1689A	26	30	20	4	4	4.5	3	12.1	77.6	4192
XH1752	21	80	10	7	3	6.1	3	12.1	77.8	4185
NE92628	19	80	10	3	2	4.5	2.7	11.4	76.8	4183
NE91648	16	90	5	7	2	4.6	3	11.2	77.9	3907
ND9272	13	80	1	4	1	4.3	3	12	76.5	3819
ABILENE	3	60	80	8	9	7.3	3	12.4	78.2	3805
NE91631	15	90	20	2	1	4.4	2.7	11.3	75.7	3799
ND9257	12	75	5	3	1	3.3	3	12.1	76	3786
XNH1802	25	90	80	9	1	5.1	1.7	11.2	72.6	3752
SD89153	5	10	40	2	1	4.1	2.7	12.4	90.4	3735
SD89119	4	50	60	3	2	5	3	12.4	79.1	3652
ND9274	14	90	5	5	1	4.4	3	12	76.1	3622
SD89186	7	60	30	5	3	6.3	4.7	11.8	77.3	3610
SD89180	6	60	25	6	5	4.9	3.3	12.5	78.7	3587
NE90479	17	80	60	3	2	4.5	3.3	13	79.3	3581
SD89205	8	60	15	3	4	4.6	4	11.4	78	3572
XNH1799	24	90	50	9	2	4.9	1.3	10.9	73.3	3548
ND8974	9	40	15	4	3	5.4	2.7	12.4	76.7	3523
MT88046	27	70	25	7	2	5.3	3.3	13.6	78.6	3513
W259	29	70	60	4	5	2.9	3.3	12.4	77.8	3315
AMN4LV	30	80	10	6	6	3.1	2.3	12.1	77.8	3266
ND9064	11	60	40	2	1	3.3	5	12.3	78.1	3064
MTSF2238	28	80	5	8	1	5.1	2.7	13.3	76	2958
ROUGHRIDER	2	20	20	6	6	4.1	5	12.1	77.1	2913
ND9043	10	60	70	4	2	3.6	4.3	13.3	76.9	2878
KHARKOF	1	10	10	7	6	6.1	4.7	12.9	77.1	2700

Table 26. Seedling infection type of entries in the 1995 Northern Regional Performance Nursery to selected isolated of Puccinia graminis f. sp. triciti. (Cereal Rust Laboratory, Univ. of Minnesota, St. Paul, MN, 55108, by D.V. McVey).

No.	Sel. No.	HJCS	QFBS	QSHS	RPQQ	RTQQ	RKQS	TNMK	Postulated Sr Gene
				Infection Type					
01	Kharkof	S	S	S	S	S	S	S	None
02	RR	0	;1	0	S	S	2	S	36
03	Abilene	2=	2=	2-	2=	2=	2=	2-	24
04	SD89119	0	0	S	;	;1-	S	2=	5,17,+
05	SD89153	2=	2=	2-	0;	0;	2-	S	17,Tmp
06	SD89180	2=	2=	2=	0;	0;	2-	S	17,Tmp
07	SD89186	0,2=	0;	2-	0;	0;	2	1	6,17,Tmp
08	SD89205	2-	0	2-	0	0;	2	0	6,17,Tmp
09	ND8974	2-	0	2-	0	2=	S	;	6,+
10	ND9043	2=	2=	2=	2-	2=	2-	S	Tmp
11	ND9064	2-CN	2-CN	S:2-CN	0;	0;	S	S	17,+
12	ND9257	0	0;	S	0	0;	S	0	5,6,17
13	ND9272	2=	0;	2-CN	;	0;	S	0;	6,17,+
14	ND9274	2=	0;	2-	0;-	0;	2	0	6,17.24
15	NE91631	2-	0;	2-	;	0;	2	0	6,17,24
16	NE91648	0	0;	S	0	0;	S	;	5,6,17
17	NE90479	2-	0;,2=	2-	;,2	0;	2	0,S	seg6,17,+
18	NE92522	0	0;	S	0	0;	S	0	6,17
19	NE92628	2-CN	0;	2-CN	0	0;	2	0	6,17,+
20	NE92662	2-CN	0	S	0	0;	2-	0	6,17,+
21	XH1752	2=	0;	2-	;	2-	2-	0;,2=	6,+
22	XNH1773	2-	0;	2=	;	0;	2	0	6,17,+
23	XNH1798	2=	2=	2=	2=	2=	2=	2=	24
24	XNH1799	0	S	S	S	S	S	S	5
25	XNH1802	0	S	S	S	S	S	S	5
26	XH1689A	2=	1	2=	0	2=	2=	0	6,24
27	MT88046	0:2-	1	S	;1N	;1N	XN	2-	10,+
28	MTSF2238	0	S	S	S	S	S	S	5
29	W259	2-	-	2	S	2	2	S	+
30	AMN4VL	S	S	S	S	S	S	S	None

		Sr Lines		
First letter of Code	5	9d	9e	7b
Second letter of Code	11	6	8	9a
Third Letter of Code	36	9b	13	10
Fourth letter of Code	15	16	17	Tmp

Resistant reaction to isolate TNMK is important at this present time.

Table 27. Seedling infection type of entries in the 1995 Northern Regional Performance Nursery to selected isolates of Puccinia recondita. (Cereal Rust Laboratory, University of Minnesota, St. Paul, MN 55108, by D.V. McVey.

No.	Sel. No.	TBCS	TCBK	TCSC	TDBP	PLRR	LBGT	JCD	SCDC
		Infection Type							
01	Kharkof	S	S	S	S	S	S	S	S
02	RR	S	S	S	S	S	S	S	S
03	Abilene	0	;	0;	0	0	;	;	;
04	SD89119	S	S	S	0	S	S	S	S
05	SD89153	S	S	S	S	S	S	S	S
06	SD89180	S	S	S	S	S	S	S	S
07	SD89186	1C	;1C	1C,S	0	;1	1C	1C	2C
08	SD89205	;,S	;1	;1,S	0	;	0	;,S	;,S
09	ND8974	;	0	;	S	0;,S	S	;,S	;
10	ND9043	1C	1C	1C	2CN	S	1C	1CN	1CN
11	ND9064	;1C	;1C	1C	1C	;1	;1C	;1-	;1
12	ND9257	;	;	;	1C	;	;	0	;
13	ND9272	;,S	S	1C	S	-	S	-	;
14	ND9274	2CN,S	1-,S	1C,S	1C	S	1,S	S,;1-	1C
15	NE91631	;1-C	1C,S	;1C	0	;1	;1-	;	;
16	NE91648	1C	1C	1C	0	1C	1C	;	;
17	NE90479	1C	2C	S,;1C	1C	;1	;1	2C,;1-	;1C
18	NE92522	;1-	1C	1C	2C	1C	;1-	;1-	0;
19	NE92628	1C	1C	1C	;1	;	;	;	;
20	NE92662	;	;1C	1C	;1	0	;	0	;
21	XH1752	;	;	;	1C	;1	;	;	;
22	XNH1773	;	;	;	1C	1C	;1-	;	0
23	XNH1798	;	S	S	-	0	S	S,;	-
24	XNH1799	S	S	S	S	S	;	;,S	1C,S
25	XNH1802	S	S	S	-	S	-	S	1S
26	XH1689A	;	0	;	0	;	;	;1,S	0
27	MT88046	S	S	S	S	S	0	;	0
28	MTSF2238	S	S	S	S	;	0	0,S	S
29	W259	S	S	S	S	S	S	S	S
30	AMN4VL	S	S	S	S	S	S	S,0	S

	Lr Lines			
First letter of Code	1	2a	2c	3
Second letter of Code	9	16	24	26
Third Letter of Code	3ka	11	17	30
Fourth letter of Code	10	18	21	14a

Table 28. Adult plant reaction of entries in the 1995 Northern Regional Performance Nursery to wheat stem rust at St. Paul, MN. (D.V. McVey, USDA-ARS, Cereal Rust Laboratory, St. Paul, MN)

No.	Line	Stem rust Reaction
1.	Kharkof	40s
2.	Roughrider	TR
3.	Abilene	TR-MR
4.	SD89119	60S
5.	SD89153	TMR
6.	SD89180	60S
7.	SD89186	60S
8.	SD89205	5MR-MS
9.	ND8974	5S
10.	ND9043	TMR
11.	ND9064	TMR
12.	ND9257	TS
13.	ND9272	0
14.	ND9274	TMS
15.	NE91631	TR
16.	NE91648	20S
17	NE90479	30S
18	NE92522	30S
19.	NE92628	10MS
20.	NE92662	5MS-S
21.	XH1752	TR
22.	XNH1773	TR
23.	XNH1798	TR
24.	XNH1799	-
25.	XNH1802	40S
26.	XH1689A	TR
27.	MT88046	40S
28.	MTSF2238	-
29.	W259	40S
30.	AMN4LV	40S

Table 29. Entries in the 1995 Northern Regional Performance Nursery that possess a 1RS Wheat-rye translocation. Data provided by Bob Graybosch, USDA-ARS, Lincoln, NE. Analytical methods were described in the 1993 Regional Report.

C.I. OR SEL. NO.	ENTRY NO.	Translocation
KHARKOF	1	-
ROUGHRIDER	2	-
ABILENE	3	-
SD89119	4	-
SD89153	5	-
SD89180	6	-
SD89186	7	-
SD89205	8	-
ND8974	9	-
ND9043	10	-
ND9064	11	-
ND9257	12	-
ND9272	13	-
ND9274	14	-
NE91631	15	-
NE91648	16	-
NE90479	17	-
NE92522	18	-
NE92628	19	-
NE92662	20	-
XH1752	21	-
XNH1773	22	-
XNH1798	23	1BL.1RS
XNH1799	24	-
XNH1802	25	-
XH1689A	26	1BL.1RS
MT88046	27	-
MTSF2238	28	-
W259	29	-
AMN4LV	30	-

Table 30. Reactions of entries in the 1995 Northern Regional Performance Nursery to soilborne mosaic and barley yellow dwarf viruses; plant height, seed number and seed weight from BYDV innoculated entries and controls. Data provided by George Gregerson, USDA-ARS, Urbana, IL.

C.I. OR SEL. NO.	ENTRY NO.	SBMV Rep 1 0-9	SBMV Rep 2 0-9	BYDV Rep 1 0-9	BYDV Rep 2 0-9	Plant height BYDV Inoc. Rep 1 cm	Plant height BYDV Inoc. Rep 2 cm	Plant height Control Rep 1 cm	Plant height Control Rep 2 cm	Seed Number BYDV Inoc. Rep 1 #	Seed Number BYDV Inoc. Rep 2 #	Seed Number Control Rep 1 #	Seed Number Control Rep 2 #	Seed Weight BYDV Inoc. Rep 1 g	Seed Weight BYDV Inoc. Rep 2 g	Seed Weight Control Rep 1 g	Seed Weight Control Rep 2 g
KHARKOF	1	6	6	7	7	52	60	42	48	102	90	7	16	2.96	1.99	0.1	0.28
ROUGHRIDER	2	5	6	6	6	58	58	78	50	152	147	490	102	4.37	3.69	14.78	2.62
ABILENE	3	5	5	6	6	56	58	74	70	378	317	2650	1887	7.93	7.83	60.78	45.96
SD89119	4	5	6	5	6	58	54	48	60	354	187	108	214	7.27	4.93	2.84	5.1
SD89153	5	5	6	6	5	58	58	78	66	285	322	1246	740	7.65	7.93	27.51	14.48
SD89180	6	5	6	6	6	54	48	76	70	320	170	840	662	4.5	2.94	19.85	15.28
SD89186	7	5	7	7	6	50	54	70	40	147	198	621	75	4.01	4.18	15.3	1.05
SD89205	8	5	6	8	5	44	64	80	70	101	379	921	659	1.71	8.81	24.72	14.75
ND8974	9	4	4	6	6	62	68	90	86	353	443	1516	1628	6.04	11.73	41.24	49.42
ND9043	10	6	6	8	7	42	56	68	78	49	106	195	713	0.9	2.52	5.45	17.47
ND9064	11	5	5	6	4	72	96	82	94	397	622	630	1129	8.01	21.23	17.13	31.35
ND9257	12	4	4	7	6	46	60	62	54	169	369	485	256	3.75	7.76	12.13	6.94
ND9272	13	7	6	8	7	38	46	60	66	44	98	566	507	0.96	2.17	12.68	12.03
ND9274	14	6	6	7	7	36	40	60	50	74	195	1162	390	1.42	4.15	24.76	6.7
NE91631	15	5	6	8	6	42	70	72	76	54	404	414	1167	1.13	11.77	11.71	24.38
NE91648	16	5	5	6	5	56	72	70	72	172	705	610	751	4.25	17.91	13.1	16.01
NE90479	17	4	3	7	6	54	68	74	78	53	177	1035	1087	1.55	5.77	36.04	38.98
NE92522	18	6	8	7	6	46	58	64	78	65	305	477	610	1.72	5.47	11.9	19.35
NE92628	19	3	6	5	5	64	72	76	84	348	571	1143	1536	11.69	18.42	35.29	44.69
NE92662	20	3	3	6	6	60	68	82	76	159	356	969	690	4.95	10.76	30.84	19.28
XH1752	21	3	2	4	4	66	78	80	84	933	560	1898	1728	27.31	14.33	51.1	50.2
XNH1773	22	4	4	4	5	72	76	86	94	586	502	1994	2376	17.95	16.14	61.45	76.04
XNH1798	23	3	3	5	5	66	68	76	80	504	737	1663	3195	15.75	21.14	46.65	82.01
XNH1799	24	6	6	7	6	58	62	56	62	174	339	309	430	3.93	5.73	5.01	8.06
XNH1802	25	5	3	6	6	56	58	74	64	469	264	1124	629	6.42	5.57	22.39	10.49
XH1689A	26	4	4	5	5	58	68	52	80	389	483	638	1298	8.03	14.91	12.17	34.55
MT88046	27	7	8	6	6	46	58	46	66	154	191	338	504	2.62	3.97	3.73	9.25
MTSF2238	28	5	4	8	8	46	52	64	44	79	121	428	130	1.59	2.31	7.72	3.14
W259	29	6	6	8	7	42	60	74	90	22	86	391	907	0.38	1.95	8.28	20.35
AMN4LV	30	6	6	8	7	42	76	80	78	10	263	943	390	0.2	5.61	18.67	7.67

Table 31. Seedling reaction of entries in the 1995 Northern Regional Performance Nursery to leaf rust and tan spot. Data provided by R.M. Hunger and W.C. Siegerist, Oklahoma State University, Stillwater, OK.

Entry and Selection	Leaf rust reaction			Tan spot reaction		
	Race 1	Race 2	Bulk	Rep 1	Rep 2	Rep 3
01 CI1442	3+	3+	3+	2	2	2
02 CI17439	3+	3+	3+	2	2	2
03 PI511307	3	3+	3+	3	3	3
04 SD89119	3+	3	3	3	2	2
05 SD89153	3	3	3+	2	1	1
06 SD89180	3	3	3+	3	3	3
07 SD89186	3	3	3	2	3	3
08 SD89205	3	3-c	3c	2	2	3
09 ND8974	3	3	3+	2	3	3
10 ND9043	3c	3cn	3n	3	3	3
11 ND9064	3-nc	3cn	X0;3-n	3	3	3
12 ND9257	3-cn	3-nc	3-n	4	4	4
13 ND9272	3c	3c	3cn	4	4	4
14 ND9274	3-cn	3	3n	2	2	3
15 NE91631	3	3	3+	4	4	4
16 NE91648	3	3c	3c	2	3	3
17 NE90479	3c	3-c	X0;3-c	3	3	3
18 NE92522	3	3	3+	4	4	4
19 NE92628	3-cn	3-cn	X0;3-c	4	4	4
20 NE92662	3=cn	0;	0;	3	3	3
21 XH1752	3-cn	3-cn	X0;3=c	3	3	3
22 XNH1773	3	3c	3	4	4	3
23 XNH1798	3-cn	X0;3-	X0;3-	2	2	2
24 XNH1799	3	3	3+	2	2	2
25 XNH1802	3	3	3+	4	4	4
26 XH1689A	3c	X0;1	0;	3	3	3
27 MT88046	3	3	3+	2	2	2
28 MTSF2238	3c	3	3+	3	2	2
29 W259	3	3	3+	4	4	4
30 AMN4LV	3	3+	3+	4	4	4

The avirulence/virulence formula of each race was: Race 1 = 2a 3ka 9 16 19 / 1 2c 3 11 17 24 26 30; Race 2 = 2a 3ka 9 16 19 26 30 / 1 2c 3 11 17 24; Bulk (a mixture of urediniospores collected from 'Vona', 'Chisholm' and 'Danne') = 9 16 19 26 / 1 2a 2c 3 3ka 11 17 24 30. Leaf rust reactions were obtained using Stakeman's system (USDA Bull. #E617, 1962, 53 pp) of coding rust reactions. Seedlings of Danne, 'Century', and 'Siouxland' were included to demonstrate adequate inoculation and consistent reaction to each race of leaf rust.

Seedlings were inoculated with equal numbers of conidia obtained from three isolates of Pyrenophora tritici-repentis at a final concentration of 2000 conidia/ml. Reaction to tan spot was determined using a scale where, 1=small (1-2 mm), dark lesions with no or little chlorosis, 2=lesions 2-3 mm with some chlorosis, 3=lesions 2-3 mm with extensive chlorosis, and 4=lesions >3 mm with coalescing chlorosis and/or necrosis. A reaction of '1' typically occurred on 'Red Chief' checks, and a reaction of '4' typically occurred on 'Tam-105' checks.

Table 32. Hessian fly reaction, Great Plains Biotype, for entries in the 1995 Northern Regional Performance Nursery. Data provided by J.H. Hatchett, USDA-ARS, Manhattan, KS.

C.I. OR SEL. NO.	ENTRY: NO.	Hessian fly R-S
KHARKOF	1	S
ROUGHRIDER	2	R
ABILENE	3	S
SD89119	4	H
SD89153	5	S
SD89180	6	S
SD89186	7	S
SD89205	8	H
ND8974	9	S
ND9043	10	S
ND9064	11	H
ND9257	12	S
ND9272	13	S
ND9274	14	S
NE91631	15	R
NE91648	16	H
NE90479	17	S
NE92522	18	R
NE92628	19	S
NE92662	20	H
XH1752	21	S
XNH1773	22	S
XNH1798	23	S
XNH1799	24	S
XNH1802	25	S
XH1689A	26	S
MT88046	27	S
MTSF2238	28	S
W259	29	S
AMN4LV	30	S

Table 33. Aluminum tolerance of entries in the 1995 Northern Regional Performance Nursery based on hematoxylin staining of seedling roots. Data provided by B.F. Carver, Oklahoma State University, Stillwater, OK.

C.I. OR SEL. NO.	ENTRY NO.	Stain intensity Al Concentration (mM) 0.18	0.36	0.72	Rating
KHARKOF	1	C	C	C	VS
ROUGHRIDER	2	C	C	C	VS
ABILENE	3	P	P	C	I
SD89119	4	P	C	C	MS
SD89153	5	C	C	C	VS
SD89180	6	C	C	C	VS
SD89186	7	C	C	C	VS
SD89205	8	N	N	P	T
ND8974	9	N/C	N/C	P/C	VS-T
ND9043	10	C	C	C	VS
ND9064	11	C	C	C	VS
ND9257	12	P	C	C	MS
ND9272	13	N	P-	P+	T
ND9274	14	N	N	P	T
NE91631	15	P-	P+	C	I
NE91648	16	P	C	C	MS
NE90479	17	P+	C	C	MS
NE92522	18	P+	C	C	MS
NE92628	19	P+	C	C	MS
NE92662	20	P	C	C	MS
XH1752	21	N	P-	C	I
XNH1773	22	N/P-	P-	P+/C	I-T
XNH1798	23	C	C	C	VS
XNH1799	24	-	-	-	-
XNH1802	25	N	P-	C	I
XH1689A	26	P-	P	C	I
MT88046	27	C	C	C	VS
MTSF2238	28	C	C	C	VS
W259	29	C	C	C	VS
AMN4LV	30	N	N/P-	P/P+	T

C, P, and N = complete, partial, and no staining of root tips, respectively; P- and P+ indicate light and dark intensity, resp.

VS=very susceptible, MS=moderately susceptible, I=intermediate, and T=tolerant (0.72 mM Al); *=heterogeneous response with predominant stain intensity listed first.

1995

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	TAM-200/TAM-107	CO890323	Colorado
6	TAM-107/Bennett	CO900777	"
7	Sumner/CO820026, F1//PI372129, F1/3/TAM-107	CO910927	"
8*	" "	CO910929	"
9*	" "	CO910944	"
10***	NE82671/NE80413(Ctk78*2/Lov 13)	NE91648	Nebraska
11*	OK83201/Redland	NE92458	"
12*	Redland/NE82419	NE92662	"
13*	Arapahoe/NE87U121	N92L005	NE, USDA
14*	KS831024/4/Aur/Lanc 's'/3/NE7060/2/Ran12/Bez4	N92V112	"
15*	PlV/2/NE76702/NE7060/3/KS831936-3	N92V155	"
16	(TX71A562-6*4/Amigo)*4/Largo	TXGH12588-26	Texas
17	" "	TXGH12588-105	"
18	" "	TXGH12588-120	"
19*	TX79A2729/TAM-108	TX88A6558	"
20*	TAM-108/Balkan	TX91A346	"
21*	TAM-105/10334	TX90A9528	"
22*	TAM-108/Vee 's'	TX88V4122	"
23*	TAM-105/Concho	TX90A9516	"
24*	TAM W-101/Siouxland	TX91A207	"
25*	Ctk78*6/CI9321	TX91A590	"
26*	Quantum Hybrid Wheat	XNH1774	Hybritech
27*	NE74736/MN72316//Huenufen/3/NK77W4593	CRL83034	USDA,MN
28	UT 216c-12-10/Cnn/5/SM 4/4/Burt/3/R/R//Nbr/6/ 2*It/Ut 175a-53//Bdls Burt/3/CI13438/4/Bh/Rex// R/R/3/UT 175a-53/7/Weston	IDO445	Idaho

* New Entries
** New seed provided
*** Entered from NRPN

Test Site Information - WPRPN

Bushland, TX -- No additional information.

Goowell, OK -- Nursery was abandoned due to dry conditions and variable emergence, spring freeze damage, and very poor yield potential.

Colby, KS -- No additional information.

Akron, CO -- No additional information.

Archer, WY -- See information for the NRPN.

Scottbluff, NE -- The nursery was located approximately 6 miles south of Morrill, NE, near the Wyoming border.

Pierre, SD -- See information for SRPN.

Table 34. Yield and agronomic data for 28 wheats grown in the 1995 Western Plains Regional Performance Nursery.

BUSHLAND (DRYL.)

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA
CO900777	6	2215
N92L005	13	1941
TX88A6558	19	1901
CRL83034	27	1800
CO910944	9	1780
TX88V4122	22	1744
TX90A9528	21	1659
NE91648	10	1587
TX91A346	20	1574
TX90A9516	23	1553
XNH1774	26	1455
NE92662	12	1417
LAMAR	3	1414
TX91A207	24	1307
N92V155	15	1273
TX91A590	25	1235
CO890323	5	1188
IDO445	28	1094
N92V112	14	1015
SIOUXLAND	2	995
CO910929	8	973
LARNED	1	944
ARAPAHOE	4	933
TXGH12588-26	16	699
TXGH12588-105	17	695
NE92458	11	675
TXGH12588-120	18	572
CO910927	7	569
MEAN		1293
LSD(.05)		336
C.V.		15.9

COLBY

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 %
TX88A6558	19	4291	79.8	91	148	0
TX91A346	20	4286	76.9	91	151	0
XNH1774	26	4131	78.4	112	149	0
TX88V4122	22	4113	75.3	91	151	0
ARAPAHOE	4	4066	78.4	105	151	0
NE92662	12	3981	77.3	105	151	0
CO890323	5	3892	81.8	91	147	0
N92L005	13	3829	78.3	107	153	0
TX90A9528	21	3782	78.9	97	152	0
N92V112	14	3701	79.7	108	151	0
TX91A207	24	3681	77.9	87	153	0
NE92458	11	3667	80	96	149	7
LAMAR	3	3540	80.1	110	151	0
NE91648	10	3515	79.2	105	152	0
TXGH12588-105	17	3396	78.6	87	145	0
TX91A590	25	3389	78.8	120	152	7
CO900777	6	3291	78.4	107	147	3
TXGH12588-26	16	3232	77.4	86	144	0
TX90A9516	23	3174	79	90	146	0
N92V155	15	3143	78.3	113	151	0
LARNED	1	3094	79.6	107	148	0
CO910927	7	3033	75.9	87	146	0
CRL83034	27	2937	77.3	119	157	0
TXGH12588-120	18	2925	77.5	83	144	3
SIOUXLAND	2	2923	77.1	112	152	0
IDO445	28	2807	77.1	127	157	0
CO910944	9	2751	77.3	120	150	3
CO910929	8	2470	73.5	93	146	3
MEAN		3466				
LSD(.05)		467				
C.V.		8.2				

AKRON

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TX91A207	24	5401	75.2	80	159
TX88A6558	19	5233	77.4	90	157
ARAPAHOE	4	5130	76	100	159
NE92662	12	5118	75.9	110	158
N92L005	13	5115	76.4	100	159
TX90A9528	21	5025	75.8	90	157
NE91648	10	4965	76.6	110	159
CO900777	6	4788	76.2	100	158
NE92458	11	4783	77.2	100	159
TX88V4122	22	4637	70.4	85	157
XNH1774	26	4611	75.7	115	157
SIOUXLAND	2	4350	75.6	110	158
CRL83034	27	4292	76	105	157
LAMAR	3	4051	75.4	100	158
TX90A9516	23	4000	74.4	85	160
N92V112	14	3886	77.8	110	158
CO910927	7	3709	70.3	90	157
TX91A346	20	3667	71.8	95	158
TXGH12588-105	17	3633	72.2	90	158
IDO445	28	3560	75.4	115	160
TXGH12588-26	16	3496	71.7	85	159
N92V155	15	3377	73.9	95	158
CO890323	5	3336	74.7	90	158
TXGH12588-120	18	3241	70.9	85	159
LARNED	1	3214	74.9	95	158
TX91A590	25	3188	74.9	115	157
CO910929	8	3108	70.8	95	157
CO910944	9	2660	73.1	115	158
MEAN		4056			
LSD(.05)		704			
C.V.		10.6			

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 %
NE92458	11	4972	81.1	64	166	97
TX91A346	20	4889	79.2	63	166	96
CO910927	7	4864	80.3	61	165	97
XNH1774	26	4593	79.4	66	166	97
TX88V4122	22	4553	79.3	58	167	95
TX91A207	24	4544	81.8	58	166	97
NE91648	10	4512	80.9	64	167	97
CO910929	8	4483	79.9	62	165	97
TX90A9528	21	4423	79.6	59	165	97
NE92662	12	4412	78.9	64	166	96
TXGH12588-120	18	4391	79.4	60	165	97
TX88A6558	19	4353	82.4	60	165	96
CO900777	6	4347	81.3	64	165	97
ARAPAHOE	4	4297	79.2	62	166	98
CO890323	5	4243	81.9	60	166	96
N92V155	15	4221	81.3	73	166	97
LAMAR	3	4165	81.8	69	166	98
TX90A9516	23	4118	81.4	58	165	96
IDO445	28	4098	80.5	71	169	98
N92L005	13	4060	79.2	64	167	98
BUCKSKIN	29	3977	81.5	64	165	96
SIOUXLAND	2	3950	79.3	66	167	97
CRL83034	27	3941	79	68	168	97
TXGH12588-105	17	3916	79.3	59	165	96
CO910944	9	3909	80.1	73	165	97
TXGH12588-26	16	3833	79.5	59	165	97
N92V112	14	3553	81.7	65	165	97
TX91A590	25	3540	76.2	69	167	97
LARNED	1	3311	80.5	67	165	97
MEAN		4223				
LSD(.05)		628				
C.V.		9.1				

SCOTTSBLUFF

NEBRASKA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-9
CO910927	7	3418	78.5	82	0.5
XNH1774	26	3211	79.3	102	1.8
NE92662	12	3208	77.5	94	0.5
CO890323	5	3194	81.3	88	1.5
N92L005	13	3119	79.9	93	0.3
TX91A346	20	3066	78.2	85	0.5
ARAPAHOE	4	3054	77.6	97	1.8
TX91A207	24	3039	81.7	80	0.3
TX90A9528	21	3026	79.9	86	1
CO910944	9	2983	79.2	120	2.5
LAMAR	3	2944	81.6	94	0.5
CO910929	8	2910	77.7	94	0.8
TXGH12588-26	16	2886	78.5	81	1.8
NE91648	10	2858	80.1	92	1
TX88V4122	22	2789	78.9	79	0.5
CO900777	6	2769	80.2	97	1.5
IDO445	28	2743	81.1	102	0.3
SIOUXLAND	2	2739	79.9	97	1
TXGH12588-120	18	2673	78.7	78	1.3
TXGH12588-105	17	2642	78.8	79	1.5
CRL83034	27	2544	81.2	101	0
NE92458	11	2543	80.8	86	1.3
N92V112	14	2531	81.5	98	0.5
TX88A6558	19	2508	80.4	80	0.8
N92V155	15	2496	80.4	99	2
TX90A9516	23	2381	79.9	83	1.3
LARNED	1	2355	79.9	98	1.5
TX91A590	25	2247	78.6	104	1
MEAN		2817			
LSD(.05)		381			
C.V.		9.6			

PIERRE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
TXGH12588-26	16	3663	75.9	99	158
TXGH12588-105	17	3432	76.7	100	158
N92V112	14	3387	78.3	104	161
TX90A9516	23	3378	76.5	97	158
CO890323	5	3190	78.2	102	160
NE92662	12	2977	74.8	102	160
TX88V4122	22	2923	73.3	84	160
CO910927	7	2910	74.1	93	159
NE91648	10	2890	78.3	104	161
N92V155	15	2813	78.3	103	160
TX91A346	20	2795	74.3	97	160
NE92458	11	2784	76.8	100	160
TX91A207	24	2775	73.8	91	160
CO910929	8	2735	75.8	100	159
TX90A9528	21	2641	74.6	97	160
CO900777	6	2607	78.7	106	160
TXGH12588-120	18	2562	76.5	97	158
ROSE	29	2535	79.7	107	162
XNH1774	26	2468	77.7	105	160
TX88A6558	19	2347	75.7	92	159
ARAPAHOE	4	2340	76.8	102	161
LARNED	1	2248	77	108	159
CRL83034	27	2183	69.2	107	163
SIOUXLAND	2	2139	76.7	106	161
LAMAR	3	1912	79.1	101	161
ROUGHRIDER	30	1708	77.6	106	163
IDO445	28	1540	71.4	110	162
CO910944	9	1538	76.5	110	159
TX91A590	25	1522	77.8	113	161
N92L005	13	1233	74.4	97	162
MEAN		2539			
LSD(.05)		1056			
C.V.		25.5			

Table 35. Summary of mean yields (kg/ha) and ranks for 28 wheats grown in the 1995 Western Plains Regional Performance Nursery at 6 locations.

C.I. OR SEL. NO.	ENTRY NO.	BUSHLAND (DRYL.) TEXAS		AKRON COLORADO		COLBY KANSAS		ARCHER WYOMING		SCOTTS-BLUFF NEBRASKA		PIERRE S. DAKOTA		REGIONAL AVERAGE	
NE92662	12	1417	12	5118	4	3981	6	4412	10	3208	3	2977	6	3519	1
TX88V4122	22	1744	6	4637	10	4113	4	4553	5	2789	15	2923	7	3460	2
TX91A207	24	1307	14	5401	1	3681	11	4544	6	3039	8	2775	13	3458	3
TX88A6558	19	1901	3	5233	2	4291	1	4353	12	2508	24	2347	19	3439	4
TX90A9528	21	1659	7	5025	6	3782	9	4423	9	3026	9	2641	15	3426	5
XNH1774	26	1455	11	4611	11	4131	3	4593	4	3211	2	2468	18	3411	6
NE91648	10	1587	8	4965	7	3515	14	4512	7	2858	14	2890	9	3388	7
TX91A346	20	1574	9	3667	18	4286	2	4889	2	3066	6	2795	11	3379	8
CO900777	6	2215	1	4788	8	3291	17	4347	13	2769	16	2607	16	3336	9
ARAPAHOE	4	933	23	5130	3	4066	5	4297	14	3054	7	2340	20	3303	10
NE92458	11	675	26	4783	9	3667	12	4972	1	2543	22	2784	12	3237	11
N92L005	13	1941	2	5115	5	3829	8	4060	20	3119	5	1233	28	3216	12
CO890323	5	1188	17	3336	23	3892	7	4243	15	3194	4	3190	5	3174	13
TX90A9516	23	1553	10	4000	15	3174	19	4118	18	2381	26	3378	4	3101	14
CO910927	7	569	28	3709	17	3033	22	4864	3	3418	1	2910	8	3084	15
N92V112	14	1015	19	3886	16	3701	10	3553	26	2531	23	3387	3	3012	16
LAMAR	3	1414	13	4051	14	3540	13	4165	17	2944	11	1912	24	3004	17
TXGH12588-26	16	699	24	3496	21	3232	18	3833	25	2886	13	3663	1	2968	18
TXGH12588-105	17	695	25	3633	19	3396	15	3916	23	2642	20	3432	2	2952	19
CRL83034	27	1800	4	4292	13	2937	23	3941	22	2544	21	2183	22	2949	20
N92V155	15	1273	15	3377	22	3143	20	4221	16	2496	25	2813	10	2887	21
SIOUXLAND	2	995	20	4350	12	2923	25	3950	21	2739	18	2139	23	2849	22
CO910929	8	973	21	3108	27	2470	28	4483	8	2910	12	2735	14	2780	23
TXGH12588-120	18	572	27	3241	24	2925	24	4391	11	2673	19	2562	17	2727	24
IDO445	28	1094	18	3560	20	2807	26	4098	19	2743	17	1540	25	2640	25
CO910944	9	1780	5	2660	28	2751	27	3909	24	2983	10	1538	26	2604	26
LARNED	1	944	22	3214	25	3094	21	3311	28	2355	27	2248	21	2528	27
TX91A590	25	1235	16	3188	26	3389	16	3540	27	2247	28	1522	27	2520	28
MEAN		1293		4128		3466		4232		2817		2569		3084	
LSD(.05)		336		708		467		638		381		1047		539	
C.V.		15.9		10.5		8.2		9.2		9.6		25.0		12.7	

Table 36. Summary of agronomic and yield data for 28 wheats grown in the 1995 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		5	4	1	1	5	6
REDLAND/NE82419	NE92662	12	95	159	0.5	96	76.9	3519
TAM-108/VEE 'S'	TX88V4122	22	79	159	0.5	95	75.4	3460
TAM W-101/SIOUXLAND	TX91A207	24	79	160	0.3	97	78.1	3458
TX79A2729/TAM-108	TX88A6558	19	83	157	0.8	96	79.1	3439
TAM-105/10334	TX90A9528	21	86	159	1	97	77.8	3426
QUANTUM HYBRID WHEAT	XNH1774	26	100	158	1.8	97	78.1	3411
NE82671/NE80413(Ctk78*2/Lov 13)	NE91648	10	95	160	1	97	79	3388
TAM-108/BALKAN	TX91A346	20	86	159	0.5	96	76.1	3379
TAM-107/Bennett	CO900777	6	95	157	1.5	97	79	3336
Arapahoe	ARAPAHOE	4	93	159	1.8	98	77.6	3303
OK83201/REDLAND	NE92458	11	89	159	1.3	97	79.2	3237
ARAPAHOE/NE87U121	N92L005	13	92	160	0.3	98	77.7	3216
TAM-200/TAM-107	CO890323	5	86	158	1.5	96	79.6	3174
TAM-105/CONCHO	TX90A9516	23	83	157	1.3	96	78.3	3101
Sumner/CO820026, F1//PI372129, F1/3/T107	CO910927	7	83	157	0.5	97	75.8	3084
KS831024/4/AUR/LANC/3/NE7060/2/RAN12/BEZ	N92V112	14	97	159	0.5	97	79.8	3012
Lamar	LAMAR	3	95	159	0.5	98	79.6	3004
(TX71A562-6*4/Amigo)*4/Largo	TXGH12588-26	16	82	156	1.8	97	76.6	2968
(TX71A562-6*4/Amigo)*4/Largo	TXGH12588-105	17	83	157	1.5	96	77.1	2952
NE74736/MN72316//HUENUFEN/3/NK77W4593	CRL83034	27	100	161	0	97	76.6	2949
PLV/2/NE76702/NE7060/3/KS831936-3	N92V155	15	97	159	2	97	78.4	2887
Siouxland	SIOUXLAND	2	98	159	1	97	77.7	2849
SUMNER/CO820026, F1//PI372129, F1/3/T107	CO910929	8	89	157	0.8	97	75.5	2780
(TX71A562-6*4/Amigo)*4/Largo	TXGH12588-120	18	81	157	1.3	97	76.6	2727
Complex Pedigree	IDO445	28	105	162	0.3	98	77.1	2640
SUMNER/CO820026, F1//PI372129, F1/3/T107	CO910944	9	108	158	2.5	97	77.3	2604
Larned	LARNED	1	95	158	1.5	97	78.4	2528
CTK78*6/CI9321	TX91A590	25	104	159	1	97	77.3	2520

Table 37. Summary of mean yields (kg/ha) and ranks of 11 wheats grown in the 1994 and 1995 Western Plains Regional Performance Nursery at 5 locations.

C.I. OR SEL. NO.	ENTRY NO.	BUSHLAND (DRYL.) TEXAS		COLBY KANSAS		AKRON COLORADO		ARCHER WYOMING		SCOTTS-BLUFF NEBRASKA		REGIONAL AVERAGE	
CO900777	6	2411	1	3318	7	3613	1	2866	3	2740	6	2990	1
ARAPAHOE	4	1653	5	3636	1	3461	2	2912	2	2808	4	2894	2
LAMAR	3	1821	2	3371	6	3175	4	2758	5	2990	2	2823	3
CO910927	7	1267	11	3134	9	3098	6	3101	1	3204	1	2761	4
CO890323	5	1815	3	3545	2	2834	8	2691	6	2860	3	2749	5
TXGH12588-105	17	1471	9	3534	3	3108	5	2572	7	2716	7	2680	6
TXGH12588-120	18	1381	10	3467	5	3023	7	2840	4	2685	9	2679	7
SIOUXLAND	2	1579	6	3112	10	3401	3	2515	10	2690	8	2659	8
TXGH12588-26	16	1570	8	3512	4	2808	9	2570	8	2796	5	2651	9
LARNED	1	1760	4	3165	8	2740	11	2420	11	2646	11	2546	10
ID0445	28	1577	7	2428	11	2806	10	2516	9	2657	10	2397	11
MEAN		1664		3293		3097		2661		2802		2703	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.	
C.V.		10.5		7.8		13.8		8.4		8.0		10.0	

Table 38. Seedling reaction of entries in the 1995 Western Plains Regional Performance Nursery to selected isolates of Puccinia graminis f. sp. tritici. (Cereal Rust Laboratory, University of Minnesota, St. Paul, MN, 55108, by D.V.McVey)

No.	Sel.No.	HJCS	QFBS	QSHS	RPQQ	RTQQ	RKQS	TNMK	Postulated Sr Gene
		Infection type							
01	LARNED	2-	0	2	1-	0;	2+?	0	6
02	SIOUXLAND	0	2=	2=	2=	2=	2=	2=	5,24,31
03	LAMAR	2=	1	2-	0	0	2	2=	17,24
04	ARAPAHOE	2=	0;	2=	;	;1-	-	2	6,17,24
05	CO890323	0;	2=	2=	2=	1	2=	2=	5,Amigo
06	CO900777	0	0	2=	0;	1	1	0;	6,Amigo
07	CO910927	2=	1-	2-	2=	1	2=	2=	Amigo
08	CO910929	2=	2=	2=	1-	1	1	2=	Amigo
09	CO910944	2-,S	1-,S	S,2=	2=,S	2,S	2+,S	S,2	seg Amigo
10	NE91648	0;	0	2	0	2=	2=,S	0	5,6,+
11	NE92458	0	0	2	0	0	0	0	5,6,10.+
12	NE92662	2-	0	2-	0	2=	2=	0	6,+
13	N92L005	2=	0,S	2,S	;S	2=	S,2-	0,S,2=	seg 6,24
14	N92V112	1	2=	1	2=	2=	2=	0	?
15	N92V155	2=	0	2	0	0	2=	2=	?
16	TXGH12588-26	2=	2=	2=	1-	1	1	1	Amigo
17	TXGH12588-105	2=	2=	2=	1-	1-	2=	2=	Amigo
18	TXGH12588-120	2=	2=	2-	1-	1-	2=	1-	Amigo
19	TX88A6558	2=	0	2=	0	0	0	0	6,10,Amigo
20	TX91A346	2=	0	2-	0	0	2=	0	6,17,Amigo
21	TX90A9528	0	2-	S	2+	2	2	2	5,+
22	TX88V4122	0	0	2=	0	0	0	0;	5,6,10,Amigo
23	TX90A9516	2=	1-	2	1-	2	2-	0;,S	?
24	TX91A207	1-	0	2=	2=	2=	2=	0	?
25	TX91A590	0	S,1-	S	0;	0	S	0;	5,6,17
26	XNH1774	0	2=	2=	0	2=	2=	0;	5,6?,24/Amigo
27	CRL83034	0	0	0	0	0	0	0	6,17,36
28	ID0445	S	S	S	S	S	S	S	none

Table 39. Seedling reaction of entries in the 1995 Western Plains Regional Performance Nursery to selected isolates of Puccinia recondita. (Cereal Rust Laboratory, University of Minnesota, St. Paul, MN, 55108, by D.V.McVey)

		Infection type							
	SEL	SCDC	MFBM	TPRM	TBJM	JCDC	TCSC	LBGR	PLRR
1	LARNED	S	S	;	X	S	S	S	;1-
2	SLX	;	0	;	;	;	;	O;	;
3	LAMAR	;1C	0	;	X	;12CN	S	S	S
4	ARAPAHOE	;	0	;	;	;	;	0;	;
5	C0890323	;	X	;	;	;	;	0;	;
6	C0900777	S	S	S:;	S	S	S	X	S
7	C0910927	S	S	;	S	S	S	S	S
8	C0910929	S	S	;	S	S	S	S	S
9	C0910944	S	S	S	S	S	S	S	S
10	NE91648	;	1CN	2CN	2C	;	2CN	0;	12CN
11	NE92458	;	;1-	;	;1-	;	;+C	;1	;1-
12	NE92662	;	;1C	;	;1-	;1-	;1-C	0;	;1-C
13	N92L005	;	;1C	;1	;1-	;	;12	0	;
14	N92V112	;1-C	X	S	;1-	;1-	2C	0	;+C
15	N92V115	;	X+	;	S	;	X	0;	;
16	TXGH12588-	S	S	S	S	S	S	S	S
17	TXGH12588-	S	S	S	S	S	S	1C	S
18	TXGH12588-	S	S	S	S	S	S	S	S
19	TX88A6558	S	S	S	0	0	S	S	S
20	TX91A346	S	1C	2C	S	S	S	2	S
21	TX90A9528	;1	S	2C	3C	;	;3	2	;
22	TX88V4122	X	;1C	0	;	X	;1-	0	;1-
23	TX90A9516	;1-	S	2C	;3	;+	;3	S	S
24	TX91A207	;	1C	0	0	;	;	0	0
25	TX91A590	;1	;1C	;1	;1	;1	;1C	S	1C
26	XNH1774	;1-	S	;	;	;	;	0	;
27	CRL83034	0	S	;	;	;	;	0	;1-
28	ID0445	0	S	S	S	S	S	S	S
29	LR_1	S	S	S	S	;	S	S	S
30	LR_2a	S	0	S	S	S	S	;	1C
31	LR_2c	S	;	S	S	S	S	;	S
32	LR_3	;1	S	S	S	;+	S	;	S
33	LR_9	;	0	S	0	0	;	0	S
34	LR_16	2CN	2CN	2CN	2CN	1CN	2CN	1CN	2CN
35	LR_24	;	S	S	;	;	;	0	1-C
36	LR_26	S	S	S	;1	S	-	0	21C
37	LR_3ka	23	1	S	23	;1C	S	;1	S
38	LR_11	23C	23	S	S	23	S	S	S
39	LR_17	S	1-C	1CN	S	S	S	1C	2C
40	LR_30	;1-	;	S	;1	;1-	;12	;1	S
41	LR_10	;	S	S	S	;1	;3	S	S
42	LR_18	;1C	;1C	X	3;	;1-	;3	S	S
43	LR_21	;	;	X	X	;1-	;1C	;1	12
44	LR_28	S	S	S	S	S	S	S	S

Table 40. Adult plant reaction of entries in the 1995 Western Plains Regional Performance Nursery to stem rust at St. Paul, MN. (D.V. McVey, USDA-ARS, Cereal Rust Laboratory, St. Paul, MN, 55108).

No.	Line	Reaction
1.	Larned	10MR
2.	Siouxland	TR
3.	Lamar	TR-MR
4.	Arapahoe	TR
5.	CO890323	TR
6.	CO900777	TR
7.	CO910927	10MS-S
8.	CO910929	-
9.	CO910944	20S
10.	NE91648	-
11.	NE92458	5MS-S
12.	NE92662	5MS-S
13.	N92L005	TR
14.	N92V113	-
15.	N92V155	TMS
16.	TXGH12588-26	TMR
17.	TXGH12588-105	-
18.	TXGH12588-120	-
19.	TX88A6558	-
20.	TX91A346	-
21.	TX90A9528	TR
22.	TX88V4122	5S
23.	TX90A9516	0
24.	TX91A207	10S
25.	TX91A590	TR
26.	XNH1774	TR
27.	CRL83034	0
28.	ID0445	30S

Table 41. Entries in the 1995 Western Plains Regional Performance Nursery that possess a 1RS wheat-rye translocation. Data provided by Bob Graybosch, USDA-ARS, Lincoln, NE. Analytical methods were described in the 1993 Regional Report.

C.I. OR SEL. NO.	ENTRY: NO.	Translocation
LARNED	1	-
SIOUXLAND	2	1BL.1RS
LAMAR	3	-
ARAPAHOE	4	-
CO890323	5	1AL.1RS
CO900777	6	1AL.1RS
CO910927	7	1AL.1RS
CO910929	8	1AL.1RS
CO910944	9	1AL.1RS
NE91648	10	-
NE92458	11	-
NE92662	12	-
N92L005	13	-
N92V112	14	1BL.1RS
N92V155	15	1AL.1RS
TXGH12588-26	16	1AL.1RS
TXGH12588-105	17	1AL.1RS
TXGH12588-120	18	1AL.1RS
TX88A6558	19	-
TX91A346	20	-
TX90A9528	21	-
TX88V4122	22	1BL.1RS
TX90A9516	23	-
TX91A207	24	1BL.1RS
TX91A590	25	-
XNH1774	26	Not Determined
CRL83034	27	1BL.1RS
IDO445	28	-

UNIFORM WINTERHARDINESS NURSERIES

The nurseries were comprised of Southern and Northern Materials Sections. In 1995, the Southern Materials Section contained 163 entries and Northern Section 149 entries. Nursery lists and survival data from Watertown and Aurora, South Dakota; Rosemount, Minnesota; and Sidney, Montana are included in the following tables.

UNIFORM SOILBORNE MOSAIC NURSERY

There were 13 entries in the 1995 Soilborne Mosaic Nursery. There were no data obtained from the screening trials. The nursery list is included for completeness.

END-USE QUALITY DATA

Composites of 1-lb samples of each SRPN, NRPN, and WPRPN entry from harvested sites are evaluated at the U.S. Grain Marketing Research Laboratory at Manhattan, KS. Results are reported to cooperators by the laboratory and are not included in this report.

UNIFORM WINTERHARDINESS NURSERY
Southern Section

En	Pedigree	Seln.	Source
1	Warrior	CI13190	Check
2	KS87H22/Mesa	KS94H147	Kansas
3	KS87H103/KS87H337	KS94H161	"
4	KS87H103/KS87H337	KS94H163	"
5	KS87H66/KS87H22	KS94H238	"
6	KS87H103/KS87H326	KS94H167	"
7	KS87H66/TAM 200	KS94H257	"
8	KS84HW200/Bounty 203//KS87H22	KS94HW73	"
9	KS87H326/KS87H186	KS94H215	"
10	Scout 66	CI13996	Check
11	ND7719-33/Tow's'/3/Whegl/Led//KS75216/4/KS8H285	KS94HW1	Kansas
12	KS84HW200/Bounty 203//KS87H22	KS94HW74	"
13	KS84HW200/Bounty 203//KS87H22	KS94HW68	"
14	KS84HW200/Bounty 203//KS87H22	KS94HW66	"
15	ND7719-33/Tow's'/3/Whegl/Led//KS75216/4/KS85H185	KS94HW33	"
16	KS84HW196/Norkan//KS87H337	KS94HW86	"
17	KS84HW200/Bounty 203//KS87H22	KS94HW80	"
18	KS84HW196/Norkan//KS87H326	KS94HW91	"
19	KS84HW196/Norkan//KS87H337	KS94HW87	"
20	Vona	CI17441	Check
21	KS73H530/Vee's'//KS86H119	KS93H67	Kansas
22	HBY242F/TAM 200/HBY261B	KS92H363-2	"
23	KS73H530/Vee's'//KS86H119	KS93H66	"
24	KS87H22/2157	KS94H140	"
25	HBA142A/HBZ621A/Rio Blanco	KS94HW115	"
26	KS87H65//84WS164/2157	KS94HW101	"
27	KS82W408/HBA142A//TAM 200	KS94HW127	"
28	KS87H64/KS84HW200/KS82H238	KS94HW100	"
29	KS84HW196/Norkan/KS87H362	KS94HW98	"
30	Warrior	CI13190	Check
31	HBA142A/HBZ621A/Rio Blanco	KS94HW119	Kansas
32	KS84HW196/Norkan/KS87H326	KS94HW94	"
33	KS84HW196/Rio Blanco/HBY762A	KS94HW131	"
34	KS82W408/HBA142A//TAM 200	KS94HW123	"
35	KS84HW196/Norkan//KS87H326	KS94HW95	"
36	KS91HW29//KS90HW53/KS91H184	KS94HW297	"
37	KS91H184/3*Rio Blanco	KS94HW301	"
38	Oslo/TX82D5668//Mit	TX88D3318	Texas
39	Era/3/Len//Amigo/TX71A106-5	TX90D9692	"
40	Scout 66	CI13996	Check
41	Bulk Selection	TX91D6022	Texas
42	TAM 200/Caldwell//TX86D1310	TX91D6901	"
43	Pioneer 2551/Probrand 812//TAM 300	TX91D7002	"
44	Pioneer 2551/Probrand 812//TAM 300	TX91D7006	"
45	Siouxland/TAM 300//Caldwell/Era	TX91D7012	"
46	TAM 200//Siouxland/Tanager/3/Probrand 812	TX92D7488	"
47	Era/Kavkaz//Clark/TAM 202	TX92D8127	"

48	TX71C8130R/TAM 105//Collin	TX93D1001	"
49	Complex/KS831170	N92L088	NE,USDA
50	Vona	CI17441	Check
51	KS831672/3/Rannaya 12/Bez. 4/2/Lanc/F9-76	N92L250	NE,USDA
52	Complex pedigree	N92V013	"
53	MT8709/TX86V1109	N93L011	"
54	N86L250/NE87615	N93L026	"
55	N86L420/NE86488	N93L048	"
56	KS831936-3/NE86501	N93L058	"
57	KS831936-3/NE86501	N93L062	"
58	KS831936-3/NE86501	N93L064	"
59	KS831936-3/NE86501	N93L067	"
60	Warrior	CI13190	Check
61	KS831936-3/NE86501	N93L068	NE,USDA
62	KS831936-3/NE86501	N93L069	"
63	KS831936-3/NE86501	N93L071	"
64	ND643/NE87615	N93L106	"
65	ND643/NE87615	N93L107	"
66	ND643/NE87615	N93L111	"
67	NE87449/N86L200	N93L129	"
68	NE87449/N86L200	N93L138	"
69	N87V077/ABILENE	N93V006	"
70	Scout 66	CI13996	Check
71	N87V077/ABILENE	N93V013	NE,USDA
72	KS831936-3/NE86501	N93V014	"
73	NE86501/N87L024	N93V018	"
74	ARAPAHOE/NE87U121	N92L005	"
75	CENTURA/DAWN//COLTsib	NE88584	Nebraska
76	TAM105*4/AMIGO (TX80GH2679)//BRULE Fsel #3	NE89522	"
77	BRULE SEL/4/BEZ1/3/CTK78//ARTHUR/CTK78 NE81497/CODY	NE90524	"
78	TX79A2729//CALDWELL/BRULE SEL/3/SIOUXLAND	NE90625	"
79	TAM108/Arapahoe	NE91515	"
80	Vona	CI17441	Check
81	NE82702 purple/TAM 108	NE91518	Nebraska
82	KS831374 x NE82658	NE92456	"
83	NE84603 white x NE82419 x Victory	NE92466	"
84	Thunderbird x Redland	NE92477	"
85	NE84601 Wrr*5/Agent/Kavkaz//Bennett x Thunderbird	NE92603	"
86	NE82413 x Colt	NE92608	"
87	NE82413 x NE82533	NE92652	"
88	HIGH PROT. 04/NE82533//THUNDERBIRD	NE93403	"
89	NE85707 X THUNDERBIRD	NE93405	"
90	Warrior	CI13190	Check
91	KSXGH8010-1-4 X CODY	NE93406	Nebraska
92	NE85583 BEZ 1/CTK78//ARTHUR/CTK78/3/BENNETT X NORKAN	NE93427	"
93	NORKAN LONG SEED SEL. X REDLAND X TAM 108	NE93435	"
94	NE82656 X NE86509	NE93451	"
95	NE82656 X NE86509	NE93452	"
96	NE82656 X NA-HW81-170	NE93462	"
97	THUNDERBIRD X NE78488 X REDLAND	NE93473	"

UWHN, So. Section

98	UNKNOWN	NE93477	"
99	NE85707 X THUNDERBIRD	NE93496	"
100	Scout 66	CI13996	Check
101	NE82656 X TAM 108 X VICTORY	NE93522	Nebraska
102	NE88427	NE93535	"
103	NE88427	NE93536	"
104	NE82656 X VICTORY	NE93549	"
105	NE82419 X NE82656	NE93554	"
106	NE86501	NE93597	"
107	NE87451	NE93598	"
108	NE82419 X NE82656	NE93613	"
109	THUNDERBIRD X NE76418 X NE82565	NE93618	"
110	Vona	CI17441	Check
111	NE82656/VICTORY	NE93649	Nebraska
112	NE82419 X NE82656	NE93669	"
113	UNKNOWN	VBF0168	"
114	Kharkof	CI1442	Check
115	Scout 66	CI13996	"
116	TAM-107	PI495594	"
117	IL71-5662/PL145//2165	HBZ374C	Oklahoma
118	2555 sib/Vona//2180	OK91P648	"
119	HBY250A/HGF004	OK93P735	"
120	Warrior	CI13190	Check
121	W0405D/HGF112//W7469C/HGF012	OK93P656	Oklahoma
122	SGC008/W1060B//HBY242G2	OK93P727	"
123	Pro 812/Caldwell//TX86D1310	TX91D6913	Texas
124	TX86D1310/Kavkaz//TX86D1308	TX91D6991	"
125	TX81V6603/TX78A3345-V34	TX90V6313	"
126	Brule//Buc 's'/Bjy 's'/3/TX78V3924-5-3	TX92V4135	"
127	HRE LT-11(OR)*Homestead/W8447	HBE0726-1	"
128	TAM-200/Karl	TX92V3108	"
129	WVE047*2180/2157*HGE013	HBI0531-A2	"
130	Scout 66	CI13996	Check
131	TX85V1830/TX84V1307	TX93V5919	Texas
132	TX85V1830/TX84V1307	TX93V5922	"
133	TX87V1913/TAM-200	TX93V4927	"
134	OK82377/TX81V6603-2	TX92V2519	"
135	TAM-200/TAM-107	CO890323	Colorado
136	Harpool Sel./Sandy	CO900166	"
137	W2440/W9488A//2163	KS92PO263-137	Kansas
138	TAM-107*3/TA2460	KS93U206	KS, USDA
139	HF5761/TAM-105//Bounty Hybrid 203	KS91H153-2	Kansas
140	Vona	CI17441	Check
141	KS831936-3//Colt/Cody	N93L058	NE, USDA
142	NE82671/NE80413	NE91651	Nebraska
143	Bennett/Brule Composite	NE90476	"
144	OK83201/Redland	NE92458	"
145	Centura/RL820003	NE92614	"
146	NE82413/Colt	NE92646	"
147	Quantum Hybrid Wheat	XH1706	HybriTech

UWHN, So. Section

148	"	XH1752	"
149	"	XH1778	"
150	Warrior	CI13190	Check
151	Quantum Hybrid Wheat	XH1798	HybriTech
152	854552#3/Mesa sib	W91-091	AgriPro
153	W85-084/W85-225	W91-287	"
154	AgriPro Seeds Hybrid Wheat	AP 7501	"
155	AgriPro Seeds Hybrid Wheat	WX92-0408	"
156	N84-1104/Abilene	WI89-163W	"
157	Victory sib/2165	WI90-540W	"
158	W81-133-2/Rio Blanco	W88-2619W	"
159	Coker 68-15/TAM-107	T702	Trio
160	Scout 66	CI13996	Check
161	T213 sib *2/TAM-107	T834	Trio
162	TAM-107/T213 sib	T812	"
163	TAM-107/Caldwell	T861	"

UNIFORM WINTERHARDINESS NURSERY
Southern Section
% Survival

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
1	CI13190	90	100	95	100	100	100	100	100	100	95
2	KS94H147	70	80	75	100	90	95	100	100	100	90
3	KS94H161	80	100	90	100	90	95	100	100	100	90
4	KS94H163	100	100	100	60	70	65	100	100	100	90
5	KS94H238	70	30	50	100	100	100	60	100	80	90
6	KS94H167	80	40	60	100	80	90	80	100	90	85
7	KS94H257	80	50	65	90	90	90	90	100	95	95
8	KS94HW73	90	50	70	100	100	100	100	100	100	90
9	KS94H215	80	80	80	100	100	100	100	100	100	95
10	CI13996	100	70	85	100	100	100	10	100	55	90
11	KS94HW1	80	70	75	50	50	50	100	30	65	85
12	KS94HW74	90	90	90	90	100	95	90	100	95	85
13	KS94HW68	90	60	75	100	100	100	100	100	100	85
14	KS94HW66	90	70	80	100	100	100	100	100	100	90
15	KS94HW33	90	90	90	100	100	100	90	100	95	85
16	KS94HW86	100	90	95	90	90	90	100	100	100	85
17	KS94HW80	100	90	95	100	90	95	100	100	100	80
18	KS94HW91	80	80	80	100	60	80	100	100	100	90
19	KS94HW87	80	80	80	100	80	90	100	100	100	85
20	CI17441	90	90	90	80	80	80	100	100	100	85
21	KS93H67	100	90	95	100	100	100	100	100	100	85
22	KS92H363-2	80	90	85	100	100	100	100	100	100	85
23	KS93H66	90	100	95	100	90	95	90	100	95	80
24	KS94H140	90	100	95	70	100	85	100	100	100	95
25	KS94HW115	90	80	85	100	100	100	100	100	100	90
26	KS94HW101	70	80	75	90	80	85	90	100	95	90
27	KS94HW127	90	90	90	100	100	100	090	100	95	80
28	KS94HW100	90	90	90	100	90	95	30	100	65	90
29	KS94HW98	70	70	70	80	90	85	15	100	58	85
30	CI13190	50	70	60	100	90	95	15	100	58	90

UWHN, So. Section

		Watertown			Aurora			Rosemount			Sidney
En	Seln.	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
31	KS94HW119	80	80	80	90	90	90	20	100	60	95
32	KS94HW94	100	80	90	100	100	100	100	100	100	95
33	KS94HW131	100	90	95	90	100	95	100	100	100	90
34	KS94HW123	80	90	85	100	60	80	100	100	100	90
35	KS94HW95	80	90	85	100	80	90	100	100	100	85
36	KS94HW297	100	90	95	60	70	65	90	100	95	75
37	KS94HW301	60	80	70	50	90	70	100	100	100	90
38	TX88D3318	80	90	85	60	100	80	100	100	100	85
39	TX90D9692	90	90	90	70	100	85	100	100	100	85
40	CI13996	90	90	90	100	100	100	100	100	100	90
41	TX91D6022	90	90	90	90	90	90	100	100	100	75
42	TX91D6901	70	80	75	100	100	100	100	100	100	75
43	TX91D7002	70	100	85	80	100	90	90	100	95	75
44	TX91D7006	100	100	100	50	80	65	80	100	90	85
45	TX91D7012	80	90	85	100	70	85	100	100	100	85
46	TX92D7488	90	90	90	100	90	95	80	100	90	85
47	TX92D8127	90	100	95	100	100	100	100	100	100	80
48	TX93D1001	100	100	100	70	100	85	90	100	95	85
49	N92L088	80	100	90	100	100	100	100	100	100	85
50	CI17441	50	60	55	80	100	90	60	100	80	85
51	N92L250	70	70	70	100	90	95	80	100	90	80
52	N92V013	90	80	85	60	100	80	20	100	60	85
53	N93L011	70	90	80	100	100	100	100	100	100	85
54	N93L026	60	60	60	90	100	95	100	100	100	85
55	N93L048	80	80	80	80	100	90	100	100	100	85
56	N93L058	90	80	85	90	100	95	100	100	100	85
57	N93L062	70	90	80	100	100	100	100	100	100	80
58	N93L064	70	80	75	80	100	90	100	100	100	80
59	N93L067	80	90	85	90	100	95	70	100	85	80
60	CI13190	100	100	100	100	100	100	80	100	90	95
61	N93L068	80	80	80	100	90	95	100	100	100	95
62	N93L069	80	90	85	70	90	80	100	100	100	90

UWHN, So. Section

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
63	N93L071	90	90	90	80	100	90	100	100	100	95
64	N93L106	100	90	95	90	100	95	100	100	100	90
65	N93L107	90	80	85	90	90	90	100	100	100	90
66	N93L111	60	90	75	80	80	80	100	100	100	90
67	N93L129	80	90	85	80	40	60	100	100	100	90
68	N93L138	90	90	90	100	90	95	100	100	100	85
69	N93V006	100	80	90	100	90	95	90	100	95	80
70	CI13996	90	90	90	100	100	100	100	100	100	80
71	N93V013	80	90	85	40	70	55	100	100	100	75
72	N93V014	80	90	85	60	80	70	100	100	100	85
73	N93V018	30	100	65	100	100	100	90	100	95	80
74	N92L005	40	100	70	90	100	95	80	100	90	85
75	NE88584	60	100	80	100	100	100	100	100	100	90
76	NE89522	70	90	80	100	90	95	100	100	100	85
77	NE90524	80	100	90	100	100	100	90	100	95	90
78	NE90625	70	100	85	100	100	100	100	100	100	90
79	NE91515	80	100	90	60	100	80	70	100	85	90
80	CI17441	80	90	85	100	100	100	0	100	50	80
81	NE91518	80	70	75	100	100	100	70	100	85	70
82	NE92456	60	60	60	90	100	95	90	100	95	70
83	NE92466	90	90	90	100	100	100	100	100	100	85
84	NE92477	90	80	85	100	100	100	90	100	95	85
85	NE92603	50	90	70	80	100	90	90	100	95	90
86	NE92608	50	30	40	50	90	70	90	100	95	80
87	NE92652	70	70	70	90	100	95	100	100	100	85
88	NE93403	70	80	75	100	100	100	100	100	100	85
89	NE93405	90	80	85	80	100	90	100	100	100	90
90	CI13190	90	30	60	100	100	100	100	100	100	95
91	NE93406	80	90	85	90	100	95	100	100	100	95
92	NE93427	90	80	85	100	100	100	100	100	100	85
93	NE93435	90	70	80	80	20	50	100	100	100	90
94	NE93451	90	80	85	100	80	90	100	100	100	85

UWHN, So. Section

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
95	NE93452	90	100	95	70	100	85	100	100	100	85
96	NE93462	80	100	90	100	100	100	100	100	100	90
97	NE93473	90	90	90	60	100	80	100	100	100	85
98	NE93477	90	80	85	80	100	90	100	100	100	85
99	NE93496	70	100	85	60	90	75	100	100	100	90
100	CI13996	100	100	100	90	80	85	100	100	100	85
101	NE93522	100	90	95	90	100	95	100	100	100	90
102	NE93535	70	60	65	90	100	95	100	100	100	85
103	NE93536	70	100	85	90	100	95	100	100	100	85
104	NE93549	90	90	90	100	70	85	100	100	100	85
105	NE93554	80	70	75	100	100	100	100	100	100	90
106	NE93597	40	50	45	90	100	95	100	100	100	90
107	NE93598	90	90	90	100	90	95	100	100	100	90
108	NE93613	80	60	70	100	80	90	100	100	100	90
109	NE93618	70	70	70	90	100	95	100	100	100	95
110	CI17441	90	50	70	80	100	90	100	100	100	90
111	NE93649	90	90	90	90	100	95	100	100	100	100
112	NE93669	60	90	75	80	90	85	100	100	100	85
113	VBF0168	80	60	70	90	80	85	100	100	100	85
114	CI1442	100	80	90	100	100	100	100	100	100	90
115	CI13996	100	70	85	90	100	95	100	100	100	90
116	PI495594	90	30	60	70	80	75	100	80	90	80
117	HBZ374C	90	50	70	100	90	95	100	90	95	85
118	OK91P648	100	70	85	60	80	70	100	70	85	80
119	OK93P735	100	100	100	100	100	100	100	100	100	85
120	CI13190	100	90	95	100	100	100	100	100	100	90
121	OK93P656	90	90	90	60	80	70	100	90	95	80
122	OK93P727	40	90	65	40	80	60	100	40	70	80
123	TX91D6913	50	90	70	40	60	50	100	60	80	85
124	TX91D6991	70	80	75	100	90	95	100	60	80	85
125	TX90V6313	80	80	80	30	90	60	100	50	75	85
126	TX92V4135	70	90	80	60	90	75	100	80	90	90

UWHN, So. Section

En	Seln.	Watertown Rep 1	Watertown Rep 2	Watertown Mean	Aurora Rep 1	Aurora Rep 2	Aurora Mean	Rosemount Rep 1	Rosemount Rep 2	Rosemount Mean	Sidney Montana
127	HBE0726-1	60	80	70	100	70	85	100	100	100	85
128	TX92V3108	80	80	80	90	100	95	100	100	100	80
129	HBI0531-A2	50	50	50	80	30	55	100	100	100	50
130	CI13996	60	90	75	100	100	100	100	100	100	80
131	TX93V5919	30	70	50	10	30	20	70	50	60	25
132	TX93V5922	10	40	25	10	50	30	20	50	35	25
133	TX93V4927	70	40	55	10	40	25	15	5	10	50
134	TX92V2519	40	70	55	30	90	60	100	80	90	60
135	CO890323	80	90	85	100	100	100	100	100	100	60
136	CO900166	80	90	85	80	100	90	100	100	100	60
137	KS92PO263-137	90	70	80	100	100	100	100	100	100	60
138	KS93U206	80	90	85	50	100	75	100	100	100	70
139	KS91H153-2	90	90	90	60	100	80	100	100	100	80
140	CI17441	100	90	95	40	100	70	100	100	100	80
141	N93L058	70	90	80	100	100	100	100	100	100	85
142	NE91651	40	90	65	100	90	95	100	100	100	80
143	NE90476	50	100	75	100	90	95	100	100	100	85
144	NE92458	80	90	85	80	80	80	100	100	100	90
145	NE92614	70	100	85	100	100	100	100	100	100	90
146	NE92646	60	90	75	80	90	85	100	100	100	85
147	XH1706	80	100	90	100	100	100	100	100	100	90
148	XH1752	90	100	95	90	100	95	100	100	100	90
149	XH1778	90	60	75	90	100	95	100	100	100	80
150	CI13190	80	70	75	100	100	100	100	100	100	95
151	XH1798	80	80	80	100	100	100	100	100	100	80
152	W91-091	90	70	80	90	90	90	100	100	100	60
153	W91-287	90	50	70	80	100	90	100	100	100	70
154	AP 7501	80	80	80	70	100	85	100	100	100	80
155	WX92-0408	90	60	75	80	90	85	100	100	100	90
156	WI89-163W	90	80	85	90	80	85	100	100	100	80
157	WI90-540W	90	70	80	100	100	100	100	100	100	80
158	W88-2619W	100	90	95	100	100	100	100	100	100	85

UWHN, So. Section

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
159	T702	100	80	90	100	90	95	100	100	100	80
160	CI13996	100	80	90	100	90	95	100	100	100	90
161	T834	90	80	85	100	90	95	100	100	100	85
162	T812	70	70	70	90	100	95	100	100	100	80
163	T861	100	80	90	90	100	95	100	100	100	80

1995 Uniform Winterhardiness Nursery
Northern Section

En	Pedigree	Seln.	Source
1	Norstar	CI17735	Check
2	RDW/FRD//RRI(TT/BURT 7)	MT8949	Montana
3	ORSFTWHT/FRD//MT7811	MT91051	"
4	WWP4394/MT7811//MT7431/MT7978	MT91192	"
5	MT693017/MT7829//MT7811/NWN	MT9206	"
6	MT80194/MT7811//MT8001/NWN	MT9210	"
7	MT7811/MT7869//NWN/MT7840	MT9221	"
8	MT7811/MT7869//NWN/MT7840	MT9222	"
9	LEW/TBR//RDW	MTS92021	"
10	Warrior	CI13190	Check
11	LEW/TBR//RDW	MTS9204	Montana
12	LEW/TBR//RDW	MTS92045	"
13	LEW/TBR//RDW	MTS92055	"
14	LEW/TBR//RDW	MTS92057	"
15	LEW/TBR//RDW	MTS92078	"
16	LEW/TBR//RDW	MTS92135	"
17	SMN82118/TBR//NS26301/MT7961	MT9307	"
18	TBR/SMN82287//MT79111/NWN	MT9316	"
19	TBR/SMN82287//MT79111/NWN	MT9318	"
20	Centurk 78	CI17724	Check
21	NWN/SMN82118//MT7969/MT7863	MT9321	Montana
22	MT8095//NWN//MT7823/SMN82168	MT9330	"
23	MT7904/NWN//MT7823/MT7811	MT9342	"
24	MT7811/MT8030	MT9402	"
25	MT7811/MT8030	MT9403	"
26	TBR/MT8030	MT9409	"
27	JDH/LCO	MT9418	"
28	JDH/LCO	MT9420	"
29	JDH/ALAB	MT9422	"
30	Norstar	CI17735	Check
31	JDH/RRI	MT9423	Montana
32	JDN/NLY	MT9426	"
33	MT7811/TBR	MT9430	"
34	MT7811/TBR	MT9431	"
35	MT7811/TBR	MT9432	"
36	MT7811/TBR	MT9434	"
37	MT7811/TBR	MT9435	"
38	MT7811/TBR	MT9439	"
39	MT7811/TBR	MT9440	"
40	Warrior	CI13190	Check
41	MT8711/TBR	MT9441	Montana
42	TX784360/JDH//TAM 12399/MT7810	MT9446	"
43	TX784360/JDH//TAM 12399/MT7810	MT9450	"
44	BGH/RDW	MT9453	"
45	BGH/TBR	MT9455	"
46	CI 17795	Rose	So. Dakota

UWHN, No.	Section		
47	Brule/Agate	SD89119	"
48	Brule/Chisholm	SD89153	"
49	Nell/KS81H16 4063	SD89180	"
50	Centurk 78	CI17724	Check
51	Centurk/Nell	SD89186	So. Dakota
52	NE77682/Dawn	SD89205	"
53	Colt/Rita	SD91192	"
54	SD76598-7/SD82119	SD91329	"
55	SD82150//SD82195/SD82144	SD91335	"
56	Brule/SD74221-15	SD91338	"
57	Brule//(Bennett/Chisholm/Arapahoe)	SD92107	"
58	MT8030//Kanred/OK81322	SD92120	"
59	Brule/TAM105//NE82651	SD92124	"
60	Norstar	CI17735	Check
61	Brule/TAM105//NE82651	SD92127	So. Dakota
62	Brule/TAM105//NE82651	SD92132	"
63	NE82651//Roughrider/Brule	SD92135	"
64	(Norstar/SD76709)//(SD82144/SD82150)	SD92161	"
65	(Norstar/SD76709)//(SD82144/SD82150)	SD92162	"
66	MT8030/Centurk78	SD92167	"
67	MT8030/Centurk78	SD92168	"
68	(Brule//Bennett/Chisholm)//NE82651	SD92170	"
69	MT7877/Roughrider	SD92174	"
70	Warrior	CI13190	Check
71	SD82144/Vratza	SD92178	So. Dakota
72	SD82102/Brule	SD92182	"
73	OK81306//SD82102/MT7877	SD92191	"
74	Arapahoe/OK82377	SD92203	"
75	SD76463-16//SD82195/SD82144	SD92222	"
76	SD76463-16//SD82195/SD82144	SD92227	"
77	SD74221-15//(Ctk78/James)//(NAPB8300/Ctk78)	SD92239	"
78	Centurk78/NE82651	SD92244	"
79	Redland/Centurk78	SD92256	"
80	Centurk 78	CI17724	Check
81	MT8039/Redwin	SD92259	So. Dakota
82	Redland//Roughrider/SD82119	SD92263	"
83	NE82651/Redland	SD92266	"
84	ND8275/NE78488	ND9233	No. Dakota
85	Rri/ND7571//Arapahoe	ND9258	"
86	Rri/TX80GH3006//Rri/ND7571	ND92105	"
87	ND8286/SD76598-7	ND9302	"
88	ND8471/SD82102	ND9303	"
89	ND8471/NE82651	ND9304	"
90	Norstar	CI17735	Check
91	ND8479/NE82651	ND9307	No. Dakota
92	ND8382/Arapahoe	ND9310	"
93	ND8382/Arapahoe	ND9311	"
94	ND8382/Arapahoe	ND9312	"
95	ND8382/Arapahoe	ND9313	"
96	ND8382/Arapahoe	ND9314	"

UWHN, No. Section

97	ND8471/Arapahoe	ND9321	"
98	ND8408/NE82658	ND9324	"
99	ND8471/NE82658	ND9329	"
100	Warrior	CI13190	Check
101	ND8382/Redland	ND9331	No. Dakota
102	Nsr/3/ND811883/KS831957//ND8095	ND9346	"
103	Swd/Cody	ND9352	"
104	Swd//ND8374/Chisholm	ND9358	"
105	Swd//Rri/ND617	ND9364	"
106	Rri//ND8095/Redland	ND9366	"
107	Rri//ND8095/NE78488	ND9368	"
108	Swd//ND8212/Arapahoe	ND9374	"
109	Nsr//ND8375/Arapahoe	ND9376	"
110	Centurk 78	CI17724	Check
111	Swd/ND8212	ND9377	No. Dakota
112	Nsr/ND8408	ND9378	"
113	Swd/ND8415	ND9381	"
114	Swd/ND8415	ND9382	"
115	Nsr//ND8378/KS80H4200	ND9387	"
116	Kharkof	CI1442	Check
117	Roughrider	CI17439	"
118	Abilene	PI511307	"
119	Brule/Agate	SD89119	So. Dakota
120	Norstar	CI17735	Check
121	Brule/OK754615E	SD89153	So. Dakota
122	Nell/KS81H16 4063	SD89180	"
123	Centurk/Nell	SD89186	"
124	NE77682/Dawn	SD89205	"
125	Seward/Archer	ND8974	No. Dakota
126	Sdn*2/Bon//Frd/Nb68466	ND9043	"
127	Rri//Frd/SD6689/3/Frd/NB68466	ND9064	"
128	Rri/ND7571//Arapahoe	ND9257	"
129	Rri/ND7656//Arapahoe	ND9272	"
130	Warrior	CI13190	Check
131	Rri/ND7656//Arapahoe	ND9274	No. Dakota
132	NE82761/Brule 84	NE91631	Nebraska
133	NE82671/NE80413	NE91648	"
134	KS83H2510/Brule 83 composite	NE90479	"
135	Redland/NE82419	NE92522	"
136	MV11-85/Redland	NE92628	"
137	Redland/NE82419	NE92662	"
138	Quantum Hybrid Wheat	XH1752	HybriTech
139	" "	XNH1773	"
140	Centurk 78	CI17724	Check
141	" "	XNH1798	HybriTech
142	" "	XNH1799	"
143	" "	XNH1802	"
144	" "	XH1689A	"
145	PMN 5//Froid/Bez/3/HP394/Froid	MT88046	Montana
146	Lew/Tiber//Redwin	MTSF2238	"

UWHN, No.	Section		
147	Norstar*5/Tr1//ND7481(Froid/Lancer)	W259	Alberta
148	Norstar*5//A. squarrosa CI4/Novamichuriaka	AMN4LV	"
149	Norstar	CI17735	Check

1995 Uniform Winterhardiness Nursery
Northern Section
% Survival

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
1	CI17735	100	90	95	100	90	95	100	40	70	100
2	MT8949	90	90	90	100	90	95	80	0	40	90
3	MT91051	90	100	95	100	50	75	70	0	35	85
4	MT91192	90	100	95	100	20	60	100	0	50	95
5	MT9206	90	80	85	90	70	80	100	0	50	100
6	MT9210	90	80	85	90	70	80	100	0	50	95
7	MT9221	100	80	90	100	70	85	60	0	30	95
8	MT9222	90	100	95	100	70	85	80	0	40	95
9	MTS92021	60	70	65	60	50	55	10	0	5	85
10	CI13190	70	80	75	100	80	90	90	0	45	100
11	MTS9204	60	90	75	75	70	73	70	0	35	95
12	MTS92045	80	90	85	100	50	75	80	0	40	90
13	MTS92055	60	60	60	50	50	50	5	0	3	90
14	MTS92057	80	20	50	40	40	40	5	0	3	85
15	MTS92078	90	80	85	90	80	85	5	0	3	85
16	MTS92135	80	90	85	100	60	80	15	20	18	85
17	MT9307	70	80	75	100	70	85	10	0	5	90
18	MT9316	90	60	75	80	50	65	0	0	0	80
19	MT9318	80	70	75	100	80	90	5	0	3	80
20	CI17724	80	90	85	100	70	85	15	0	8	85
21	MT9321	80	90	85	80	80	80	50	0	25	80
22	MT9330	90	80	85	90	60	75	80	5	43	85
23	MT9342	80	80	80	100	100	100	20	0	10	85
24	MT9402	70	90	80	100	60	80	60	0	30	95
25	MT9403	80	100	90	90	90	90	90	10	50	95
26	MT9409	70	80	75	90	70	80	70	30	50	90
27	MT9418	60	90	75	90	100	95	70	5	38	30
28	MT9420	80	100	90	90	100	95	70	0	35	50
29	MT9422	90	80	85	80	90	85	100	10	55	60

UWHN, No. Section

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
30	CI17735	90	90	90	90	100	95	100	80	90	85
31	MT9423	60	90	75	100	70	85	100	20	60	80
32	MT9426	80	100	90	90	50	70	100	15	58	80
33	MT9430	90	70	80	80	70	75	100	5	53	80
34	MT9431	90	80	85	70	80	75	100	5	53	85
35	MT9432	80	100	90	90	100	95	100	10	55	80
36	MT9434	90	90	90	80	40	60	100	40	70	90
37	MT9435	90	100	95	90	70	80	100	60	80	90
38	MT9439	70	70	70	60	60	60	100	20	60	90
39	MT9440	80	80	80	80	100	90	100	30	65	85
40	CI13190	100	90	95	100	90	95	100	30	65	90
41	MT9441	90	80	85	90	60	75	100	0	50	80
42	MT9446	60	70	65	80	70	75	100	0	50	85
43	MT9450	80	90	85	90	100	95	100	0	50	85
44	MT9453	100	90	95	100	70	85	100	90	95	95
45	MT9455	100	80	90	90	70	80	100	0	50	85
46	Rose	70	80	75	90	60	75	100	15	58	85
47	SD89119	80	90	85	90	100	95	100	5	53	80
48	SD89153	60	90	75	100	90	95	100	70	85	90
49	SD89180	90	100	95	100	90	95	90	60	75	90
50	CI17724	50	100	75	90	90	90	90	80	85	90
51	SD89186	70	100	85	100	90	95	90	10	50	90
52	SD89205	80	100	90	100	80	90	80	20	50	95
53	SD91192	100	90	95	100	90	95	100	20	60	100
54	SD91329	70	80	75	90	90	90	100	5	53	100
55	SD91335	90	100	95	90	100	95	100	10	55	95
56	SD91338	100	80	90	90	70	80	100	15	58	95
57	SD92107	90	70	80	90	80	85	100	5	53	90
58	SD92120	90	70	80	90	80	85	100	15	58	90
59	SD92124	90	100	95	90	90	90	90	5	48	90
60	CI17735	100	100	100	100	100	100	100	60	80	100
61	SD92127	100	100	100	80	90	85	90	5	48	90

UWHN, No. Section

En	Seln.	Watertown			Aurora			Rosemount			Sidney
		Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
62	SD92132	80	100	90	70	80	75	100	5	53	90
63	SD92135	60	100	80	60	100	80	100	20	60	85
64	SD92161	100	100	100	90	100	95	100	20	60	95
65	SD92162	90	100	95	90	100	95	100	30	65	100
66	SD92167	70	90	80	90	80	85	100	15	58	90
67	SD92168	90	100	95	70	100	85	90	0	45	95
68	SD92170	100	100	100	80	100	90	90	10	50	90
69	SD92174	100	100	100	80	100	90	100	20	60	95
70	CI13190	100	100	100	90	100	95	90	30	60	90
71	SD92178	100	100	100	90	90	90	90	15	53	95
72	SD92182	90	100	95	100	80	90	90	5	48	90
73	SD92191	90	100	95	80	90	85	100	40	70	100
74	SD92203	100	90	95	90	90	90	100	5	53	95
75	SD92222	100	90	95	90	90	90	80	40	60	95
76	SD92227	100	100	100	90	100	95	50	5	28	100
77	SD92239	100	90	95	100	90	95	60	5	33	100
78	SD92244	100	80	90	100	100	100	30	5	18	95
79	SD92256	100	70	85	90	100	95	10	5	8	90
80	CI17724	100	80	90	80	90	85	20	5	13	90
81	SD92259	90	90	90	100	100	100	50	20	35	100
82	SD92263	90	80	85	100	100	100	60	20	40	95
83	SD92266	90	90	90	80	100	90	40	20	30	100
84	ND9233	70	60	65	60	70	65	30	60	45	80
85	ND9258	50	80	65	30	80	55	30	10	20	90
86	ND92105	70	90	80	80	100	90	15	30	23	90
87	ND9302	70	90	80	80	80	80	20	60	40	95
88	ND9303	40	90	65	90	60	75	10	20	15	85
89	ND9304	40	90	65	100	80	90	20	5	13	80
90	CI17735	50	90	70	100	100	100	80	15	48	100
91	ND9307	20	60	40	30	40	35	60	5	33	80
92	ND9310	40	100	70	60	60	60	80	5	23	80
93	ND9311	70	60	65	60	70	65	90	0	45	80

UWHN, No. Section

En	Seln.	Watertown Rep 1	Watertown Rep 2	Watertown Mean	Aurora Rep 1	Aurora Rep 2	Aurora Mean	Rosemount Rep 1	Rosemount Rep 2	Rosemount Mean	Sidney Montana
94	ND9312	80	20	50	80	100	90	100	5	53	85
95	ND9313	90	20	55	70	60	65	100	10	55	80
96	ND9314	90	50	70	70	60	65	100	40	70	80
97	ND9321	80	60	70	90	70	80	5	10	8	80
98	ND9324	90	50	70	90	90	90	0	15	8	80
99	ND9329	90	80	85	80	80	80	0	20	10	80
100	CI13190	80	100	90	90	80	85	0	15	8	85
101	ND9331	30	80	55	70	60	65	20	20	20	80
102	ND9346	50	80	65	70	80	75	50	30	40	90
103	ND9352	70	80	75	50	60	55	40	20	30	85
104	ND9358	80	90	85	90	70	80	30	20	25	95
105	ND9364	40	90	65	90	80	85	5	30	18	85
106	ND9366	30	70	50	90	100	95	20	15	18	90
107	ND9368	30	70	50	70	60	65	40	60	50	85
108	ND9374	50	80	65	80	60	70	10	40	25	85
109	ND9376	70	80	75	90	60	75	15	70	43	85
110	CI17724	80	60	70	90	80	85	5	15	10	80
111	ND9377	90	10	50	80	80	80	60	20	40	80
112	ND9378	70	90	80	90	60	75	60	40	50	85
113	ND9381	80	40	60	60	50	55	80	60	70	85
114	ND9382	80	40	60	40	80	60	80	30	55	80
115	ND9387	90	80	85	70	40	55	80	20	50	80
116	CI1442	100	100	100	80	80	80	100	60	80	70
117	CI17439	90	90	90	100	100	100	100	100	100	90
118	PI511307	70	80	75	70	100	85	80	50	65	80
119	SD89119	80	80	80	90	100	95	0	5	3	80
120	CI17735	100	90	95	100	100	100	70	80	75	90
121	SD89153	90	100	95	100	100	100	20	50	35	80
122	SD89180	90	90	90	90	100	95	20	70	45	85
123	SD89186	90	100	95	80	90	85	10	60	35	75
124	SD89205	100	90	95	90	80	85	10	50	30	95
125	ND8974	90	100	95	90	80	85	30	90	60	85

UWHN, No. Section

En Seln.	Watertown			Aurora			Rosemount			Sidney
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Montana
126 ND9043	80	100	90	80	100	90	60	80	70	90
127 ND9064	100	100	100	90	100	95	70	100	85	85
128 ND9257	100	100	100	90	80	85	70	90	80	90
129 ND9272	90	90	90	100	80	90	90	100	95	95
130 CI13190	90	90	90	90	90	90	50	100	75	100
131 ND9274	90	80	85	90	60	75	80	100	90	90
132 NE91631	90	90	90	80	80	80	30	100	65	80
133 NE91648	80	70	75	90	90	90	100	100	100	80
134 NE90479	90	60	75	80	80	80	70	100	85	85
135 NE92522	90	80	85	90	80	85	30	100	65	85
136 NE92628	100	80	90	90	70	80	0	90	45	90
137 NE92662	80	100	90	100	70	85	5	100	53	95
138 XH1752	100	100	100	100	90	95	60	100	80	90
139 XNH1773	90	100	95	90	100	95	15	100	58	90
140 CI17724	100	60	80	90	70	80	15	100	58	95
141 XNH1798	80	90	85	90	80	85	70	100	85	85
142 XNH1799	80	70	75	80	80	80	30	100	65	80
143 XNH1802	90	90	90	70	80	75	40	100	70	80
144 XH1689A	90	100	95	100	70	85	80	100	90	90
145 MT88046	90	90	90	90	80	85	10	100	55	85
146 MTSF2238	80	40	60	40	40	40	10	100	55	75
147 W259	80	90	85	60	90	75	70	100	85	85
148 AMN4LV	90	80	85	80	90	85	90	100	95	95
149 CI17735	100	70	85	100	100	100	70	100	85	100

1995 SOIL-BORNE MOSAIC NURSERY

En	Pedigree	Seln.	Source
1	Larned	CI17650	Check
2	Bulk Selection	TX91D6022	TX, Dallas
3	TX85V1326/TX86D1312	TX91D6564	"
4	TX90D9090/Pioneer 2548	TX91D6791	"
5	TX86D1312/TX86A7169	TX91D6841	"
6	TAM 200/Caldwell//TX86D1310	TX91D6901	"
7	TAM 300/Pioneer 2163	TX91D6960	"
8	TAM 200//Siouxland/Tanager/3/Probrand 812	TX92D7487	"
9	Pioneer 2548/Sturdy//TAM 300	TX92D8072	"
10	Mustang	PI477286	Check
11	W3420/P2165//P2180	HBG0289	TX, Dallas
12	Pioneer 2551/Vona//P2180	VBF0576-4	"
13	Karl	PI527480	Check