

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

COMPARISON OF
WINTER WHEAT VARIETIES GROWN IN COOPERATIVE
NURSERY EXPERIMENTS IN THE
HARD RED WINTER WHEAT REGION
IN 1987

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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 Central States 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
March, 1988

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CENTRAL STATES AREA

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By

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REGIONAL NOTES

The 1987 Hard Red Winter Wheat Breeders field day was held on May 28th at Hays, Kansas. Cooperators visited KSU nurseries at the Ft. Hays Experiment station and HybriTech nurseries at Wakeeney.

The 1988 Breeders Field Day is to be held at Lincoln, NE. The date is tentatively set for June 9.

Dr. E. E. Sebesta, USDA-ARS at Stillwater, OK, died on February 26, 1988. Dr. Sebesta had announced his retirement in January 1988. Dr. Sebesta was a major contributor to wheat germplasm enhancement, working with transferring desirable traits from wheat-related species. He is most renown for his development of the 'Amigo' germplasm line.

Dr. H. Jedlinski, USDA-ARS virologist at Urbana, IL, died of a sudden heart attack in early 1987.

Dr. Jim Krall has taken over responsibilities for winter cereals research in Wyoming, replacing Dr. B. J. Kolp who has retired. His work will emphasize production physiology research. Dr. Krall is stationed at the Torrington research station.

Dr. Neal B. Christensen, Soil Physicist, is the new research station superintendent for the Ag. Science Center at Clovis, New Mexico. Dr. Ralph Finkner, former superintendent, is currently in Egypt working with a cooperative research project.

Dr. Ann McKendry was hired in 1987 by the University of Missouri, replacing Dr. N. M. Cowen in wheat and oat breeding research efforts.

Dr. Ed Souza was recently hired as small grains breeder by the University of Idaho. Dr. Souza will be stationed at the Aberdeen experiment station.

Dr. Art Klatt has assumed new responsibilities as Assistant Dean of International Programs in the Division of Agriculture with Oklahoma State University. Dr. Klatt was Associate Director of the CIMMYT wheat program in Mexico.

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:

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

NEW VARIETIES AND GERMLASM

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 North Dakota Agricultural Experiment Station has announced release of the hard red winter wheat variety 'Seward'. Seward was tested in the 1985 and 1986 NRPN as ND8002 and was derived from the cross Centurk//Froid/Norstar. It is similar to Roughrider in heading date and plant height with improved straw strength and has demonstrated a 20% yield advantage over Roughrider.

The Nebraska Agricultural Experiment Station and the USDA-ARS has indicated the intent to release the hard red winter wheat experimental line NE82656 in 1988. NE82656 was tested in the NRPN in 1986 and 1987 and originates from the cross Brule/3/Pkr*4/Agent//Beloterkovskaja 198/Lancer. The line has tentatively been assigned the name 'Arapahoe'.

GERMLASM

USDA-ARS researchers at Stillwater, OK and Manhattan, KS have announced release of the Hessian fly resistant hard red winter wheat germplasm line P.I. 510693. It was developed from the cross Lathrop/Newton and derives resistance from Lathrop. P.I. 510693 is resistant to the Great Plains biotype and biotypes A, B, E, and J, but not to biotypes C, D, or L of Hessian fly.

USDA-ARS and the Oklahoma Agricultural Experiment Station announced the release of the wheat germplasm line 'YSCA-1' (P.I. 510665). YSCA-1 is tolerant to the yellow sugarcane aphid, Sipha flava (Forbes), as both seedlings and mature plants. Tolerance is inherited as a single dominant gene and is derived from the accession WIS 2001 of Triticum tauschii. YSCA-1 is similar to Chinese Spring in height, maturity, and general phenotype.

USDA-ARS, Kansas Agricultural Experiment Station, and the Wheat Genetics Resource Center at Kansas State University announced the release of two randomly-mated winter wheat populations, designated KS87UP9 and KS87UP9S1, segregating for the dominant male sterility gene Ms3. The source of male sterility was a euplastic line of the cultivar Len segregating for the mutagen-induced allele Ms3. Parent sources include hard red winter, soft red winter, and hard red spring classes, and experimental lines from the International Winter X Spring Screening Nursery.

1987
Southern Regional Performance Nursery

<u>Entry No.</u>	<u>Variety or Pedigree</u>	<u>C.I. or Sel. No.</u>	<u>Source</u>
1**	Kharkof	CI1442	Check
2**	Scout 66	CI13996	"
3**	TAM-105	CI17826	"
4**	Plainsman V/3/Kaw/Atl 50//Pkr*5/Ag	KS831374	Kansas
5	Winter Wheat Composite	KS82C2009	"
6*	Bulk Selection	KS82C2338	"
7*	Bison/Sterling//3*Scout/3/Eagle/4/ Pinnacle/2*Eagle	KS84HW196	"
8	Amigo sib/2*Newton	OK82377	Oklahoma
9*	Aurora/2*TAM W-101	OK84349	"
10*	" "	OK84343	"
11*	TAM W-101/Amigo	OK85347	"
12*	Payne//TAM W-101/Amigo	OK85310	"
13	TX73V203*3/Amigo	TX81V5581	Texas
14	TAM W-101/Ctk//Amigo	TX80A5901-1	"
15	TX68D5194/Osage	TX84V1227	"
16	MV-69-12/TAM W-103	TX84A7608	"
17*	" "	TX78A3345-V34	"
18*	TAM W-101*4/Amigo*4//Largo	TXGH10989	"
19*	Sturdy*3/Amigo	TX81V6582-2	"
20*	TAM-105*4/Amigo*4//Largo	TXGH10563B	"
21*	KS73146/TX71A1039	TX84V1336	"
22*	TX71A562-6*4/Amigo*4//Largo	TXGH13622	"
23*	TX71A374-4/TX71A1039-V1	TX84V1317	"
24*	TX71A1039-V1*3/Amigo	TX81V6607-2	"
25	Mex Dw/Baca//Vona	CO820026	Colorado
26*	74F878/Wings//Vona	CO82009	"
27*	74cb462/Trapper//Vona	CO830027	"
28*	CO5926//7C/Tobari63/3/Baca	CO830034	"
29	Wrr*5/Agent//Aurora/3/Centurk 78	NE78488	Nebraska
30*	KS73167/Agate//Sage sib	NE82533	"
31	Experimental Line	AGC-106	AgriGenetics
32	" "	AGC-110	"
33*	Bulk Selection	AGC-111	"
34**	Winter Wheat Hybrid	RH855001	Rohm & Haas
35*	" "	RH8606	"
36*	" "	RH8604	"
37	OK11252A/HW76-1226	NA-81-362-5	NAPB
38	" "	NA-81-171-14	"
39*	Bezostaya/TAM W-101//W558	XW141	Pioneer
40*	Winter Wheat Hybrid	XH669	HybriTech
41*	" "	XH682	"
42*	Bounty Hybrid Wheat	Bounty-122	Cargill
43**	" "	Bounty-205	"

* New entry in 1987.

** New seed provided.

TEST SITE INFORMATION - SRPN

Clovis, NM -- The dryland nursery was planted on 9/22/86 and 0.93 inches of rain was recorded on 9/29/86. There was high soil moisture at planting due to above average rainfall in the spring and late summer. In the two months prior to planting, 6.44 inches of rain was recorded. A total of 16.87 inches of rain was recorded during the growing season. Abnormally low temperatures, between 10 and 24 degrees F, were recorded for the last four days in March. Substantial freeze damage was observed in some plots.

The irrigated nursery was planted on 10/8/86 into high soil moisture. In the two months prior to planting 7.43 inches of rain was recorded. An additional 1.32 inches of rain fell on 10/10/86 with a total of 15.49 inches from planting to harvest. No freeze damage was observed after the abnormally low temperatures in late March.

Leaf rust did not appear until hard dough stage and likely did not affect yield. The Russian wheat aphid was detected at low population levels causing minimal damage and no treatment was applied.

Farlington, NM -- Average production conditions for the year.

Bushland, TX -- The irrigated nursery was sown at 65 lbs/A on 10/29/86 on summer fallowed land fertilized with 150 lbs/A N. No preplant irrigation was applied as summer and fall rainfall was sufficient for emergence and growth until mid-April. Emergence of irrigated plots was slow and adequate stands were not established until after 12/1/86 due to rain and cold soil temperatures. Weeds were controlled with 1/3 oz/A Glean on 3/13/87. Greenbugs and Russian wheat aphids were controlled with 1/2 lb/A Parathion on 4/18/87, and 3/4 lb/A Disyston was applied on 5/2/87 for added protection from the Russian wheat aphid. Temperatures were near normal for most of the winter. Abnormally low temperatures occurred on March 28, 29, and 30 with minimum, mean, and maximums of 17, 27, 36; 14, 20, 29; and 12, 30, 52, respectively. The cultivars had not jointed and growing points of most cultivars were at or just below ground level. Wheat that was planted early and not grazed had growing points 4 to 6 inches above ground and was severely damaged. Most of the damage occurred south of Amarillo. Many dryland fields in the area, including those with substantial damage, recovered sufficiently to produce excellent yields. The nursery was irrigated with 3 1/2 inches of water on 4/27/87 and 5/18/87. An additional irrigation about June 1 may have prevented low yields and test weights. Some barley yellow dwarf infection was observed but insufficient to take notes. Slouland, Victory, and Bounty 122 appeared to be among the more susceptible. Rust or other diseases did not appear to be important yield factors.

The dryland nursery was sown 10/17/86 at 32 lbs/A on summer fallowed land. No fertilizer was applied. There was little damage associated with the low temperatures in late March. Weed and insect control was the same as the irrigated nursery. Some moisture stress occurred during the fruiting period but this was not severe.

Chillicothe, TX -- Very wet conditions through March. No measurable precipitation during grain fill but rainfall was a problem at harvest. A late season frost may have affected some entries. Diseases and insects did not affect yield.

Dallas, TX -- No information.

Stillwater, OK -- Planted 10/18/86 into good soil moisture. A total of 26.5 inches of precipitation was received during the growing season with only 0.79 inches from March 25 to May 21. SBMV infection was present with the most damage occurring in the third replication. No other significant disease or insect problems.

Lahoma, OK -- Planted 10/8/86 into good soil moisture. Precipitation totaled 20.9 inches during the growing season with only 1.6 inches of precipitation from March 25 to May 19. No significant disease or insect problems.

Altus, OK -- Planted on 11/21/86 into good soil moisture. Precipitation totaled 21.3 inches during the growing season with only 0.07 inches falling during April. No significant disease or insect problems.

Goodwell, OK -- Seeded on 10/8/86 into good soil moisture. Sixteen inches of precipitation were received during the growing season. There was no precipitation in April. No significant disease or insect problems.

Hutchinson, KS -- Planted 10/18/86. Mild fall and winter conditions. Heavy disease pressure, especially Tan Spot, defoliated many entries prematurely. Yields were low, primarily due to heavy Tan Spot infection. Harvested 6/25/87.

Manhattan, KS -- Planted 10/8/86. The nursery had good fall establishment and the winter was mild. Severe frost occurred at double ridge but damage was minimal. Heavy disease damage, mostly Tan Spot, BYDV, and leaf rust. Tan Spot infections were significant. BYDV infection was erratic and contributed to a higher than normal C.V. Harvested 6/28/87.

Hays, KS -- Fall growth was excellent and the winter was fairly mild. Some drought stress occurred during grain fill but it was not severe. The nursery had a slight infection of BYDV with about a 2% incidence. BYDV did not significantly affect yields, but probably was responsible for a slightly higher than average C.V. Trace infections of leaf rust and wheat streak mosaic were present.

Garden City, KS -- Good fall moisture was present for emergence. Winter was warm and mild and no winter injury occurred. Mustard was sprayed with 2,4-D on 3/5/87. Some damage and shattering from hail and high winds on May 25 and June 17. No insect problems.

Colby, KS -- September and October moisture was above normal. Fall growth was excellent, but not excessive. Winter was mild, but dry, and spring growth was initiated in February without any evidence of winter damage. Low temperatures of 4 and -4 degrees on March 29 and 30, respectively, resulted in considerable top kill and some plant loss. Moisture was below normal through April but above normal in May and June. Heading occurred 7 to 10 days early. Some leaf rust infection started in mid-June but no severe disease problems. Harvest was delayed by wet conditions in late June.

Ft. Collins, CO -- Some Russian aphid damage occurred. Plots were sprayed twice with Cygon and twice with Disyston. Three hundred pounds of 34-0-0 fertilizer was applied in early spring for a yield goal of 120 bu/A. Some covered smut was observed. A total of 14 inches of precipitation fell from 9/86 through 7/87. It was a very good crop season.

Akron, CO -- The nursery was harvested but data not presented due to severe cheatgrass infestation.

Burlington, CO -- Severely hail damaged and not harvested.

Walsh, CO -- Moisture levels near to above average. Significant Russian aphid damage.

Julesburg, CO -- Precipitation adequate for good growing conditions. Root rot infection severely damaged some plots. There was about 10-20% hail damage. Grain protein content was quite low.

Lincoln, NE -- Planting was delayed by inclement weather. The winter was generally mild with the exception of record breaking cold in November and a March blizzard. The spring growing season was hot, dry, and very early. Leaf rust was prevalent in the nursery. Harvest was one of the earliest in memory.

Clay Center, NE -- The nursery was planted at the optimal time and had excellent survival. The spring season had above average rainfall and the wheat crop was one of the best in recent history. Short statured lines with good straw were favored. Lodging was present in some plots.

North Platte, NE -- The nursery was planted at the optimal time and had excellent survival. The spring season had above average rainfall. In general, there was little disease present. Cephalosporium stripe was present but did not cause significant losses.

Sidney, NE -- The nursery was planted at the optimal time and had excellent survival. The spring had above average rainfall and the wheat crop was one of the best in recent history. No diseases were significant.

Alliance, NE -- The nursery was planted at the optimal time and had excellent survival. The spring had above average rainfall and the wheat crop was one of the best in recent history. No diseases were significant.

Brookings, SD -- Not harvested due to poor stand establishment and fall crusting.

Presho, SD -- Planted 9/3/86. Good fall moisture for planting. Some fall stand reductions caused by washing. Very mild winter with excellent winter survival. Little or no disease pressure.

Casselton, ND -- Planted on 9/8/86 with good soil moisture. Winter survival was high due to mild winter conditions with warm temperatures and little snow. There was some flooding in the first rep early in the spring. Leaf rust was moderate. Harvested 7/20/87.

Clarkton, MO -- The nursery was planted in southeast Missouri on sandy soil, rather than at Columbia, due to extremely wet fall conditions and lateness of planting. Planted on 11/14/86 with a 40-0-0 starter fertilizer incorporated at planting time. Two additional N fertilizations of 40 lb/A each were applied 2/24/87 and 4/1/87. There were few disease problems in the fall due to cool temperatures and lateness of planting. Winter was very mild with several periods of snow cover. There was below normal rainfall after March 1 with only a couple 1 inch rains in April and May. Some plots had a high infection of mildew for a short period of time. Rust infection was late and environmental conditions were not favorable for production of heavy infections. Harvest was early due to mild winter and dry spring conditions.

Ames, IA -- Planted about 10 days later than normal on 10/8/86. Emerged 10/24/86 with good fall growth and plants were well established by winter. Spring season was dry, contributing to moderately short plants and early heading. Leaf rust was heavy on susceptible entries in early June. Septoria leaf blight, tan spot, and stem rust infections were relatively light. Very little winterkill occurred and the nursery had good yields with moderate to low test weights.

Urbana, IL -- Fall growth was excellent. Virtually no winterkill present due to mild winter conditions. Early spring warm-up resulting in heading dates about 1 week earlier than normal. The weather was very warm and dry following heading and harvest was about 10 days ahead of normal. Yields were excellent and well above average for this location.

Lind, WA -- Growing conditions were much less than ideal. Entry yields reflect ability to tolerate or avoid hazards rather than adaptability to the area. A rain between seeding on 9/15/86 and emergence limited stands in selections with weaker emergence ability. Temperatures of 90 degrees during the last of April and first part of May caused significant early plant stress. Frosts about May 18 caused considerable damage to some entries. Growth stage was the most important factor determining damage, although some entries were more tolerant than others at similar stages. Mouse damage was extensive on earlier maturing entries. This was the second dry year in a row.

Rockland, ID -- There was adequate moisture during the growing season and no disease pressure.

Aberdeen, ID -- Ideal growing conditions.

Table 1. Yield and agronomic data for 43 entries in the Southern Regional Performance Nursery in 1987.

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	LEAF RUST SEV.: RESP: % : 0-9:
RH855001	34	7096	77.9	93	127	33
C0830034	28	6922	78.1	91	130	43
C0830027	27	6524	78.5	93	128	27
TX78A3345-V34	17	6469	76.8	70	128	12
C082009	26	6183	78.3	97	131	23
XH682	41	6159	76.7	88	128	43
BOUNTY-205	43	6083	73.9	85	127	33
OK85347	11	5925	76.2	76	127	10
TX84V1317	23	5915	75	69	125	8
XW141	39	5914	72.9	72	131	4
TXGH13622	22	5904	76.6	80	128	27
BOUNTY-122	42	5866	75.5	83	127	18
CI17826	3	5854	78.4	78	127	37
KS82C2009	5	5801	76.4	95	131	17
CI13996	2	5754	79	86	127	13
XH669	40	5693	74.6	91	129	34
AGC-110	32	5654	74.3	84	130	27
OK85310	12	5617	75.8	89	131	15
KS831374	4	5581	77	78	127	13
TX81V6607-2	24	5485	77.1	69	127	8
TX84V1227	15	5469	76.6	93	128	13
TXGH105638	20	5440	75.7	80	125	30
RH8606	35	5346	70.5	78	128	7
TX84A7608	16	5303	72.8	76	127	7
NA-81-362-5	37	5282	79.5	73	130	5
OK84349	9	5213	72.3	71	127	4
OK84343	10	5186	74.4	73	127	5
C0820026	25	5126	78.2	83	129	33
TX80A5901-1	14	5122	77.5	75	130	27
CI1442	1	5017	74.4	113	135	22
NE78488	29	5006	73.6	98	133	12
AGC-111	33	4945	74.3	83	130	17
OK82377	8	4936	68.4	82	127	12
RH8604	36	4902	75.3	93	129	17
TXGH10989	18	4884	75.2	76	127	27
TX81V6582-2	19	4839	76.5	66	125	23
TX81V5581	13	4827	69.5	64	127	5
TX84V1336	21	4804	74.7	68	127	9
NE82533	30	4792	75.7	89	130	22
KS84HW196	7	4745	73	73	125	23
KS82C2338	6	4712	76.6	75	125	40
AGC-106	31	4563	76	79	129	28
NA-81-171-14	38	4488	75.4	67	125	5
MEAN		5473				
LSD(.05)		953				
C.V.		10.7				

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:	: FREEZE : : DAMAGE : : % :
KS82C2009	5	5836	77.3	81	128	0
C0830034	28	5422	77.8	82	128	0
XH682	41	5280	76	80	125	0
TXGH10563B	20	5192	74.9	77	123	0
BOUNTY-122	42	5174	72.5	77	125	27
C0820026	25	5102	76.3	79	127	0
CI17826	3	5096	77.3	78	123	0
AGC-110	32	4981	78	72	127	0
TXGH13622	22	4907	78.2	74	125	0
TX78A3345-V34	17	4876	74.4	69	127	0
CI13996	2	4832	76.6	94	124	0
NA-81-362-5	37	4686	78.7	70	127	0
NA-81-171-14	38	4551	76.5	68	123	0
XW141	39	4443	75.3	67	128	0
RH855001	34	4423	78.5	81	124	0
C082009	26	4406	78.1	87	129	0
NE78488	29	4388	74.8	85	130	0
BOUNTY-205	43	4361	71.8	79	127	30
TX84A7608	16	4293	73.2	70	124	0
TX80A5901-1	14	4164	78.7	70	125	0
KS831374	4	4150	73.5	76	125	0
XH669	40	4080	73.9	81	125	0
RH8604	36	4063	76.6	77	127	0
KS84HW196	7	4042	76.1	72	121	20
C0830027	27	4025	78.9	80	127	0
OK85347	11	3880	74.4	70	125	63
RH8606	35	3848	70.8	70	127	10
OK85310	12	3809	75.6	77	129	0
CI1442	1	3769	74.7	107	134	0
OK84343	10	3731	70.4	68	127	57
AGC-111	33	3726	74.2	70	127	0
NE82533	30	3712	76.1	73	127	0
AGC-106	31	3671	71.7	77	127	0
TX84V1317	23	3533	75.2	66	124	0
KS82C2338	6	3504	75.8	73	124	10
TX84V1336	21	3439	73.5	64	124	10
TXGH10989	18	3302	70.8	71	127	70
OK82377	8	3209	74.1	67	127	53
TX81V6607-2	24	3177	78.7	59	125	13
TX81V6582-2	19	3075	76.6	58	124	27
TX81V5581	13	2732	68.6	57	127	53
OK84349	9	2581	67.5	63	128	63
TX84V1227	15	2496	69.7	69	127	67
MEAN		4139				
LSD(.05)		764				
C.V.		11.3				

FARMINGTON
NEW MEXICO
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:
RH855001	34	7509	76.1	93	134
TX84V1336	21	7490	79	78	132
TX81V6582-2	19	7314	79.7	72	132
NE78488	29	7255	79	104	138
RH8604	36	7255	78.4	96	134
TX84A7608	16	7235	77.1	82	132
AGC-111	33	7235	76.4	86	137
C0830034	28	7216	76.4	102	135
C0830027	27	7177	79	92	133
AGC-110	32	7157	76.1	86	133
NA-81-362-5	37	7138	78.4	79	135
NE82533	30	7001	78.4	91	134
KS82C2009	5	6981	78.4	101	139
BOUNTY-122	42	6962	75.8	89	133
XW141	39	6942	74.2	82	136
TX84V1317	23	6746	79	72	132
TX80A5901-1	14	6727	79	90	135
TX81V5581	13	6707	77.4	72	132
TX78A3345-V34	17	6668	79	80	134
CI13996	2	6649	79.7	108	131
OK85347	11	6649	77.1	88	133
TXGH13622	22	6629	77.4	88	133
OK84349	9	6590	77.1	78	132
BOUNTY-205	43	6531	76.8	91	133
OK85310	12	6434	78	94	138
C082009	26	6414	80.3	99	137
NA-81-171-14	38	6394	79.3	79	133
OK82377	8	6355	78.4	88	132
AGC-106	31	6336	78.4	86	134
RH8606	35	6316	76.1	86	133
XH682	41	6316	77.4	86	133
KS82C2338	6	6277	78.7	84	132
TXGH105638	20	6218	75.8	85	133
XH669	40	6179	75.8	92	133
TXGH10989	18	6101	77.7	89	133
TX81V6607-2	24	5886	79.3	74	133
CI17826	3	5827	75.8	83	132
TX84V1227	15	5808	78.7	91	133
KS84HW196	7	5749	77.7	74	132
KS831374	4	5671	77.7	86	134
OK84343	10	5475	76.4	83	134
G0820026	25	5475	76.8	89	136
CI1442	1	4869	76.4	123	140

MEAN	6555
LSD(.05)	983
C.V.	10.7

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:	LODGING %
OK85347	11	4952	74.2	74	131	48
TX81V5581	13	4867	69.9	64	130	18
NA-81-362-5	37	4833	71.6	74	134	7
TX81V6607-2	24	4777	75.7	65	131	10
TX84V1317	23	4761	72.8	66	130	13
C0830027	27	4676	74.7	84	130	67
OK84343	10	4638	72.1	73	134	0
BOUNTY-205	43	4631	70.6	79	133	28
TX84V1336	21	4595	73.7	64	129	22
OK85310	12	4573	71.1	80	133	28
TX81V6582-2	19	4570	73.8	66	130	3
AGC-111	33	4557	69.8	75	132	18
OK84349	9	4546	71.5	73	131	5
TX80A5901-1	14	4543	72.9	72	131	50
RH8606	35	4501	67.6	70	130	5
RH855001	34	4492	70.7	75	131	25
TXGH105638	20	4474	71.2	76	130	32
TX78A3345-V34	17	4456	71.2	74	131	10
TX84V1227	15	4447	71.7	86	133	45
NA-81-171-14	38	4431	74.2	65	130	10
TXGH13622	22	4416	71.4	74	131	55
C0820026	25	4335	72	73	130	3
RH8604	36	4335	72.8	83	132	8
KS82C2009	5	4310	70	88	134	15
KS82C2338	6	4270	74.8	74	129	28
TXGH10989	18	4209	70.8	76	133	37
TX84A7608	16	4204	69	66	131	17
BOUNTY-122	42	4200	69	76	131	17
OK82377	8	4131	72.8	77	131	18
XH682	41	4099	69.2	79	131	15
KS84HW196	7	4045	73	70	130	50
KS831374	4	4034	71.3	75	131	8
XH669	40	4032	68.3	76	131	12
CI17826	3	4028	68.3	81	131	25
NE82533	30	3989	70.5	81	134	10
AGC-110	32	3940	67.4	79	133	15
NE78488	29	3911	71.1	84	135	8
AGC-106	31	3853	70.1	71	132	20
C0830034	28	3704	70.6	81	132	43
XW141	39	3588	67	72	133	2
C082009	26	3271	70.7	80	134	38
CI13996	2	3110	70.8	88	133	90
CI1442	1	1737	67.6	98	139	80

MEAN	4234
LSD(.05)	562
C.V.	8.1

BUSHLAND

(DRYL.)

TEXAS

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	LODGING %
TX84V1227	15	3988	76.5	74	128	0
RH8606	35	3973	71.2	70	127	0
TX84V1317	23	3927	75.5	68	127	0
OK85347	11	3907	75.5	68	128	4
AGC-111	33	3887	75.2	66	129	0
TX81V6607-2	24	3865	78.7	63	127	0
TX78A3345-V34	17	3847	73.4	64	129	0
C0830027	27	3845	77.2	79	127	3
TX84A7608	16	3776	74.1	66	127	0
TX81V5581	13	3747	74.1	55	127	0
TX81V6582-2	19	3736	76.6	62	125	0
TXGH105638	20	3729	74.7	73	126	14
BOUNTY-205	43	3719	73	80	129	0
C0820026	25	3672	75.6	72	128	0
TXGH13622	22	3660	75.7	69	128	3
XH682	41	3632	75.1	73	127	0
OK85310	12	3611	75.1	71	130	0
TX84V1336	21	3595	75.7	65	127	0
BOUNTY-122	42	3531	72.9	72	128	0
OK84343	10	3520	73.5	66	129	0
TX80A5901-1	14	3499	76.9	66	128	0
RH855001	34	3495	73.9	74	127	0
AGC-110	32	3484	74.1	67	130	0
TXGH10989	18	3448	72.5	76	128	0
KS82C2338	6	3408	75.7	70	126	0
CI17826	3	3384	72.2	69	128	0
OK84349	9	3377	72.9	67	128	0
NA-81-171-14	38	3370	76.2	63	126	0
KS84HW196	7	3352	76	69	126	9
RH8604	36	3350	75.9	76	129	0
CI13996	2	3324	75.7	83	129	51
XW141	39	3253	72.4	64	130	0
C0830034	28	3234	75	78	130	0
NA-81-362-5	37	3209	77.3	63	130	0
KS82C2009	5	3125	75.1	76	131	0
NE82533	30	3048	74.1	72	131	0
NE78488	29	3033	75	78	131	0
AGC-106	31	2955	71.9	73	128	1
XH669	40	2932	72.6	74	128	0
KS831374	4	2888	72.3	68	127	1
OK82377	8	2888	75	71	128	1
CI1442	1	2759	73	85	136	10
C082009	26	2679	76	80	131	0

MEAN 3457
LSD(.05) 326
C.V. 6.7

CHILLICOTHE
TEXAS
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: : NO. :	: YIELD : : KG/HA :	: VOLUME : : WEIGHT : : KG/HL :	: PLANT : : HEIGHT : : CM :	: DAYS TO : : HEADING : : FROM 1/1 :	: STRAW : : BREAKAGE : : % :
TX81V5581	13	2538	72	64	109	20
TX84V1317	23	2491	75.4	67	113	15
TX78A3345-V34	17	2421	74.5	68	113	0
OK84349	9	2419	73.7	70	113	5
C0820026	25	2403	74.8	75	112	5
TX84A7608	16	2338	73.1	75	109	0
KS84HW196	7	2304	72.5	70	114	10
TXGH13622	22	2244	76.1	71	112	5
TXGH105638	20	2239	74.5	73	110	20
TX81V6607-2	24	2224	78.2	64	112	40
TX81V6582-2	19	2219	75.9	67	110	50
XH682	41	2188	74.2	74	113	5
OK84343	10	2181	72.9	70	116	0
RH8606	35	2163	71.7	70	106	15
KS831374	4	2152	76.2	68	113	0
NA-81-362-5	37	2136	75.3	62	117	0
KS82C2009	5	2130	76	74	116	10
NA-81-171-14	38	2109	77.9	68	108	5
AGC-111	33	2089	71.1	62	114	0
KS82C2338	6	2087	74.8	70	108	0
RH855001	34	2076	76.9	72	113	5
OK85347	11	2056	75.1	72	116	20
TX84V1336	21	2056	74.9	66	112	15
CI17826	3	1975	72.6	70	119	20
C0830034	28	1959	75.6	80	116	5
BOUNTY-205	43	1946	72.6	76	117	5
OK85310	12	1899	75.6	72	116	30
OK82377	8	1894	73.3	68	116	90
RH8604	36	1885	74	71	115	0
XH669	40	1881	73.7	72	113	5
TXGH10989	18	1863	73	73	114	75
BOUNTY-122	42	1861	73.3	77	110	5
TX84V1227	15	1852	74.1	73	119	10
C0830027	27	1787	76.7	75	111	20
XW141	39	1760	70.6	59	115	0
TX80A5901-1	14	1704	74.4	66	113	60
AGC-110	32	1704	73.1	58	120	0
NE82533	30	1664	73.7	71	120	0
NE78488	29	1661	76.5	73	116	5
C082009	26	1648	75.7	76	120	0
AGC-106	31	1612	74.6	75	111	0
CI13996	2	1533	74.1	80	119	25
CI1442	1	998	70.4	79	129	5

MEAN	2008
LSD(.05)	300
C.V.	9.2

DALLAS
TEXAS
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV.: %	GREENBUG RESP: 0-9	GREENBUG /BYDV 0-9
TX81V6607-2	24	4612	74.8	74	99	8	8	2.5
OK84349	9	4495	72.2	70	109	1	1	0.8
TX81V6582-2	19	4373	74.4	80	98	15	8	1
BOUNTY-122	42	4305	75.7	81	96	12	8	2.3
OK84343	10	4252	74	72	110	1	1	1
TXGH10989	18	4234	72.7	83	106	13	8	0.3
TX84V1317	23	4139	74.4	75	102	4	6	2.3
OK82377	8	4086	74.4	77	108	6	8	3.5
TX84V1336	21	4066	74.8	72	101	8	6	1.8
BOUNTY-205	43	4054	75.3	85	108	4	8	2.3
RH855001	34	4019	74.8	77	104	5	8	1.8
XH682	41	4014	76.5	83	101	18	8	2.3
NA-81-171-14	38	3934	77.4	76	100	8	8	0.8
OK85347	11	3899	74.4	81	110	8	8	3.3
TXGH10563B	20	3854	74.8	80	99	25	8	0.8
RH8604	36	3843	74.4	88	102	13	8	0.8
TX81V5581	13	3813	71.8	67	97	35	8	1.8
NA-81-362-5	37	3728	75.7	71	110	6	8	0.8
TX84A7608	16	3676	75.3	77	96	7	8	1.8
C0820026	25	3650	75.3	71	103	2	5	3.3
NE78488	29	3639	75.3	85	103	4	8	1.5
TXGH13622	22	3632	74	81	100	25	8	0
OK85310	12	3600	74.8	80	104	20	8	1.5
KS82C2009	5	3594	75.7	83	110	10	8	3.3
TX78A3345-V34	17	3538	74.4	71	102	7	8	1
TX84V1227	15	3460	74.8	79	111	8	8	1.3
C0830034	28	3448	74.4	81	109	13	8	3
KS831374	4	3435	75.3	74	101	2	7	1
RH8606	35	3430	74.4	81	98	4	8	1.5
C0830027	27	3404	77	77	102	15	8	2
KS84HW196	7	3355	73.5	74	110	4	8	5
AGC-110	32	3304	72.2	66	115	8	8	2.5
TX80A5901-1	14	3281	76.1	83	100	20	8	2
XH669	40	3266	74.4	75	101	5	4	2.8
AGC-111	33	3234	73.5	75	104	30	8	1.8
CI17826	3	3192	72.2	71	113	8	8	4.5
KS82C2338	6	3154	76.5	79	96	15	8	3
NE82533	30	3145	74.8	83	113	5	8	0.5
AGC-106	31	3014	74.4	75	103	15	8	1.8
C082009	26	2939	75.3	79	113	3	4	4.5
CI13996	2	2621	74.4	80	116	3	8	3
XW141	39	1914	71.4	55	104	15	8	4.8
CI1442	1	1757	72.2	89	133	15	8	2.8

MEAN 3591
LSD(.05) 493
C.V. 8.4

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:	: SBM : : VIRUS : : 0-9 :
TX84V1317	23	3203	75.5	66	115	2
NA-81-362-5	37	2963	74.7	63	119	4
NA-81-171-14	38	2928	77.3	64	115	4
KS831374	4	2673	76.4	72	114	2
KS82C2338	6	2625	74.7	71	111	2
OK82377	8	2568	72.6	69	118	2
AGC-110	32	2468	71	66	121	2
RH8604	36	2466	73.3	72	117	3
RH8606	35	2450	68.8	71	115	2
TXGH13622	22	2340	74.2	72	116	5
NE82533	30	2295	73.3	74	121	2
XW141	39	2174	66.8	64	117	4
OK84343	10	2156	64.9	57	123	7
XH682	41	2145	72.4	69	116	4
TXGH10563B	20	1961	70.4	66	117	7
OK85310	12	1947	73.7	64	122	8
RH855001	34	1925	74.7	72	116	5
XH669	40	1871	73.7	72	117	5
TX81V5581	13	1865	67.2	51	119	7
TX84A7608	16	1788	70.8	63	117	6
NE78488	29	1786	75.7	71	121	8
OK85347	11	1766	72.2	60	122	8
TX78A3345-V34	17	1760	73.1	58	120	7
TXGH10989	18	1707	69.4	64	121	6
TX80A5901-1	14	1706	71.5	57	119	8
TX81V6607-2	24	1705	74.9	53	121	8
BOUNTY-205	43	1693	69.7	72	121	6
KS82C2009	5	1685	74.7	65	122	8
CO820026	25	1677	72.9	62	119	8
TX81V6582-2	19	1675	74.6	56	118	7
KS84HW196	7	1566	69	58	120	8
CI17826	3	1547	70	62	123	8
OK84349	9	1540	67.9	57	122	8
TX84V1336	21	1540	71.3	60	119	8
TX84V1227	15	1537	73.9	66	123	8
AGC-111	33	1506	69.5	56	122	8
CO830034	28	1497	71.5	69	123	8
CO830027	27	1387	73.3	65	120	8
BOUNTY-122	42	1341	68.6	61	120	8
CI13996	2	1289	72	66	125	8
AGC-106	31	1132	73.3	64	121	8
CO82009	26	942	65.9	59	127	8
CI1442	1	920	54.3	77	133	8

MEAN	1900
LSD(.05)	472
C.V.	15.2

LAHOMA
OKLAHOMA
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
OK84343	10	3053	73.4	67
OK84349	9	2982	69.3	71
TX84V1317	23	2810	70.7	65
KS831374	4	2755	72.9	66
NE78488	29	2631	72.5	80
NA-81-171-14	38	2630	73.1	62
CO830027	27	2629	71.1	76
OK85310	12	2623	71.1	71
NA-81-362-5	37	2619	72.6	62
RH8606	35	2604	67.1	67
CO820026	25	2590	66.2	72
KS82C2009	5	2583	71	79
TX78A3345-V34	17	2570	67.9	65
BOUNTY-205	43	2568	71.7	85
TX81V6607-2	24	2510	72.8	62
RH8604	36	2510	71.3	73
OK85347	11	2508	71	77
XH682	41	2484	68.9	75
TX84V1227	15	2481	71.6	79
TX84A7608	16	2469	66.6	63
TX81V5581	13	2449	63.7	62
KS82C2338	6	2426	71.9	66
BOUNTY-122	42	2421	67.9	77
TXGH105638	20	2419	66.3	71
TX80A5901-1	14	2413	71.6	64
XH669	40	2411	69.1	75
TX81V6582-2	19	2409	68.4	62
AGC-111	33	2402	67.3	68
KS84HW196	7	2398	67.7	69
TX84V1336	21	2393	67.9	60
OK82377	8	2389	70.3	72
RH855001	34	2386	68.9	68
CO830034	28	2378	67.9	80
AGC-106	31	2277	71.6	66
NE82533	30	2227	71	78
TXGH10989	18	2206	68.2	74
TXGH13622	22	2198	67.1	67
CI17826	3	2137	66.2	73
AGC-110	32	2129	64.6	71
CI13996	2	2046	70.8	90
XW141	39	2026	62.8	65
CO82009	26	1865	71.9	81
CI1442	1	1681	74.6	84

MEAN	2435
LSD(.05)	289
C.V.	7.3

ALTUS
OKLAHOMA
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: : NO. :	: YIELD : : KG/HA :	: VOLUME : : WEIGHT : : KG/HL :	: PLANT : : HEIGHT : : CM :
OK84349	9	2489	67.9	66
OK84343	10	2284	68.5	61
TX78A3345-V34	17	2216	67.1	66
KS831374	4	2036	70.7	63
TXGH10563B	20	1986	64.2	65
TX84V1317	23	1949	68.6	67
KS82C2338	6	1912	65	63
TX81V5581	13	1882	61.1	60
TX84A7608	16	1817	65.3	63
TX84V1336	21	1792	64	67
CO820026	25	1765	64.8	70
AGC-106	31	1754	69.1	70
CO830034	28	1695	66.8	75
OK85347	11	1687	65	64
RH855001	34	1661	67.9	69
TX81V6582-2	19	1653	62.7	67
KS82C2009	5	1631	70.7	80
CO830027	27	1630	68.1	82
TXGH13622	22	1606	67.1	65
CI17826	3	1587	64.8	65
XH682	41	1581	64.8	69
NA-81-171-14	38	1568	70.7	59
BOUNTY-122	42	1567	62.7	68
OK82377	8	1556	67.9	58
TX84V1227	15	1541	68.4	62
CI13996	2	1524	67.6	80
TXGH10989	18	1520	63.5	70
NE78488	29	1508	70.4	78
KS84HW196	7	1490	61.4	68
TX80A5901-1	14	1458	64.2	57
AGC-110	32	1439	65	62
RH8604	36	1424	67.1	65
RH8606	35	1406	61.1	68
NE82533	30	1395	69.4	76
CO82009	26	1388	68.4	73
TX81V6607-2	24	1374	66.3	58
XW141	39	1350	61.7	60
AGC-111	33	1330	63.2	51
XH669	40	1314	65.8	72
BOUNTY-205	43	1297	64.5	70
NA-81-362-5	37	1213	68.9	55
OK85310	12	1152	67.6	68
CI1442	1	594	68.4	85
MEAN		1605		
LSD(.05)		316		
C.V.		12.1		

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:
AGC-110	32	5833	74.2	93	127
XH682	41	5793	72.4	96	125
80UNTY-205	43	5750	71.5	99	129
RH855001	34	5728	73.8	94	124
NA-81-362-5	37	5726	76.6	90	127
C0820026	25	5692	74.3	89	124
KS831374	4	5580	74	88	125
BOUNTY-122	42	5481	69.9	96	126
TX81V6607-2	24	5464	77.5	77	122
RH8606	35	5346	69.8	88	126
CI17826	3	5305	73.1	91	124
RH8604	36	5266	76	101	128
NE78488	29	5250	74.6	105	130
TX80A5901-1	14	5229	75.6	83	124
TX84V1336	21	5184	72.8	80	123
XH669	40	5177	72.1	98	125
TXGH105638	20	5139	72.8	87	122
TX84A7608	16	5083	72.2	81	123
C0830027	27	5061	75.6	98	124
TX78A3345-V34	17	5045	73	81	126
XW141	39	5017	70.8	82	128
AGC-111	33	5010	71.3	90	128
TX84V1317	23	4979	72.9	76	122
NA-81-171-14	38	4936	74.6	81	123
TX81V6582-2	19	4929	75.3	74	123
OK84343	10	4920	74.2	82	128
TXGH13622	22	4908	74.3	91	124
OK85347	11	4862	73.3	87	127
AGC-106	31	4810	71.9	90	127
TXGH10989	18	4760	71.9	85	128
OK85310	12	4722	74.2	98	128
OK84349	9	4709	72.5	84	126
OK82377	8	4680	75.2	86	123
KS82C2009	5	4653	73.1	101	129
KS82C2338	6	4599	75.2	86	122
TX81V5581	13	4494	71.3	72	123
CI13996	2	4471	74.9	108	127
C082009	26	4366	75.3	104	131
NE82533	30	4314	72.9	98	128
KS84HW196	7	4255	73.3	82	122
C0830034	28	4039	73.3	100	129
TX84V1227	15	3562	73.9	92	124
CI1442	1	3352	69.7	115	135

MEAN	4965
LSD(.05)	727
C.V.	9.0

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:	: TAN SPOT 0-9
BOUNTY-205	43	3974	75.6	100	128	3
KS82C2009	5	3558	72.1	105	129	8
RH8604	36	3441	72.5	94	128	8
KS831374	4	3352	75.3	88	127	4
XH669	40	3342	75.2	88	126	4
OK84343	10	3296	65	78	128	8
TX84V1227	15	3277	74.7	99	128	8
OK82377	8	3210	73.5	88	127	7
OK85310	12	3157	76.6	88	129	7
NA-81-171-14	38	3095	74.3	78	127	8
RH855001	34	3047	71.5	91	126	9
OK84349	9	3042	66.4	80	127	8
TX80A5901-1	14	3036	70	81	128	8
NE78488	29	3025	72.9	100	129	8
KS82C2338	6	2977	73.7	86	123	8
NA-81-362-5	37	2939	72.2	81	129	6
TX81V6607-2	24	2925	76.1	73	128	8
XH682	41	2922	74.2	93	127	8
OK85347	11	2920	68.6	84	128	7
TXGH13622	22	2902	69.7	88	127	9
C0830034	28	2894	70.3	106	130	8
C0830027	27	2830	72.4	93	127	8
C082009	26	2814	64.6	103	131	7
TX84V1317	23	2789	70.7	74	127	8
RH8606	35	2785	67.9	83	127	7
TX84A7608	16	2766	66.8	80	126	8
TXGH10563B	20	2658	70.7	82	124	9
TX78A3345-V34	17	2619	65.8	75	127	8
AGC-110	32	2584	66.3	86	130	9
CI17826	3	2573	68.1	91	128	9
CI13996	2	2564	72.2	109	128	8
TX81V6582-2	19	2512	71.3	72	123	9
BOUNTY-122	42	2501	67.6	87	127	7
C0820026	25	2467	68.5	86	127	8
NE82533	30	2444	63.3	102	130	9
KS84HW196	7	2441	71.2	88	125	9
TXGH10989	18	2237	61.7	89	128	7
XW141	39	2236	63.5	77	129	6
CI1442	1	2227	61.3	126	133	8
AGC-106	31	2175	68.4	83	127	7
TX81V5581	13	2159	60.5	73	125	9
AGC-111	33	1745	56.1	83	129	9
TX84V1336	21	1704	59.3	76	127	9
MEAN		2794				
LSD(.05)		482				
C.V.		10.6				

MANHATTAN
KANSAS
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	LODGING %	LEAF RUST: SEV.: RESP: % : 0-9:
NA-81-362-5	37	5567	73.5	90	129	0	10 3
TX84V1317	23	5499	70.3	85	124	3	5 3
OK85310	12	5387	68.8	100	129	47	5 3
KS831374	4	5265	74.2	92	124	37	30 7
RH855001	34	4966	68.1	102	125	2	80 9
RH8604	36	4935	66.7	105	128	17	10 3
NA-81-171-14	38	4865	72.9	83	124	5	20 7
OK84343	10	4818	73.4	85	129	0	5 3
OK82377	8	4749	66.7	110	128	0	20 7
XH669	40	4709	71.2	100	125	15	30 9
RH8606	35	4692	66.3	93	126	0	20 3
CO820026	25	4684	71.6	92	124	0	10 3
XH682	41	4664	68.5	98	125	0	50 9
TXGH13622	22	4609	68.5	102	125	25	70 9
KS82C2338	6	4581	73.4	93	123	0	80 9
TXGH105638	20	4479	66.2	92	124	0	70 9
TX84A7608	16	4338	67.3	87	124	3	5 3
BOUNTY-205	43	4265	67.6	108	130	45	10 3
NE82533	30	4260	71.9	108	131	0	40 9
AGC-110	32	4237	64.5	98	130	0	60 9
OK84349	9	4166	66	85	128	2	5 3
CO830027	27	4077	70.2	100	126	20	10 3
XW141	39	4028	62	87	128	0	5 3
NE78488	29	4018	66.8	103	129	0	5 3
TX81V6607-2	24	3957	71.7	80	126	0	10 3
AGC-106	31	3873	68.1	93	125	0	20 9
TX80A5901-1	14	3845	65.9	93	127	0	70 9
TX78A3345-V34	17	3834	64.9	88	125	28	20 9
TX84V1336	21	3683	67	82	125	0	10 9
BOUNTY-122	42	3635	66.3	93	125	0	80 9
CO830034	28	3616	67	105	130	8	60 9
KS82C2009	5	3540	70.4	95	130	27	50 9
TX84V1227	15	3529	70.8	100	132	17	40 9
TX81V6582-2	19	3470	67.5	73	125	0	20 9
OK85347	11	3400	67.5	88	131	3	10 3
TX81V5581	13	3317	64.6	75	126	0	60 9
KS84HW196	7	3171	67.1	93	127	3	90 9
CI17826	3	3057	66.8	90	128	0	90 9
TXGH10989	18	2825	57.7	90	130	18	30 9
CO82009	26	2716	70.2	98	132	2	20 9
CI13996	2	2540	69.7	113	130	55	50 9
AGC-111	33	2200	59.9	88	129	3	80 9
CI1442	1	1510	69.1	115	136	50	20 9

MEAN 4037
LSD(.05) 834
C.V. 12.7

HAYS
KANSAS
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: : NO. :	: YIELD : : KG/HA :	: VOLUME : : WEIGHT : : KG/HL :	: PLANT : : HEIGHT : : CM :	: DAYS TO : : HEADING : : FROM 1/1:	: LODGING : : % :
RH855001	34	5103	81.1	90	129	0
NA-81-171-14	38	4882	84.7	80	126	0
TXGH13622	22	4812	82	84	128	0
CI17826	3	4761	80.5	90	130	0
OK84349	9	4735	81.7	82	128	0
BOUNTY-205	43	4723	81.1	95	130	0
NA-81-362-5	37	4718	84.6	79	131	0
TXGH10563B	20	4671	80.2	85	127	0
KS85H136	44	4584	79.7	94	131	0
OK84343	10	4576	79.6	80	131	0
TX84V1317	23	4552	82.4	77	128	0
TX81V5581	13	4519	80.6	72	126	3
TX81V6582-2	19	4515	83.5	77	125	0
XH669	40	4383	80.3	97	129	25
RH8604	36	4369	81.1	91	130	0
TX78A3345-V34	17	4350	82.3	81	130	0
C0820026	25	4339	82	85	131	0
TX81V6607-2	24	4335	85.3	75	128	0
TX84A7608	16	4291	81.1	80	126	0
AGC-111	33	4271	76.6	81	131	0
BOUNTY-122	42	4260	79.3	86	130	0
OK85310	12	4226	82.6	89	132	0
OK82377	8	4217	83	84	126	0
TXGH10989	18	4202	79.1	84	130	0
AGC-110	32	4195	79	81	131	0
TX80A5901-1	14	4192	82.1	78	130	0
KS84HW196	7	4190	82.8	88	126	0
XH682	41	4152	79.7	87	131	0
KS831374	4	4128	82.6	86	127	0
TX84V1336	21	4112	81.7	79	126	0
OK85347	11	4087	82.5	86	131	10
C0830034	28	4074	82.9	94	132	0
KS82C2338	6	4060	82.6	87	126	7
CI13996	2	4017	82.3	109	130	57
C0830027	27	3989	83.5	94	130	0
KS82C2009	5	3963	81.4	92	133	0
TX84V1227	15	3850	83.5	91	130	0
NE78488	29	3806	82.3	95	132	0
RH8606	35	3713	80.5	83	130	0
AGC-106	31	3692	81.2	86	130	0
NE82533	30	3690	79.8	91	133	0
XW141	39	3496	76.8	73	131	0
C082009	26	3413	81.1	97	133	0
CI1442	1	2682	74.5	108	136	18

MEAN 4225
LSD(.05) 561
C.V. 8.1

GARDEN CITY
KANSAS
THREE REPLICATIONS

G.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:
TXGH13622	22	2210	73.1	73	135
TX81V5581	13	2033	69.7	63	135
TXGH10563B	20	2013	71.8	78	133
OK84349	9	2011	69.6	72	136
OK85347	11	1957	72.9	78	135
TX84V1336	21	1957	73.4	72	134
TX81V6582-2	19	1946	73.7	68	134
TX84V1317	23	1917	72.8	70	134
CI17826	3	1903	70.8	73	135
TX84V1227	15	1825	72.7	77	134
OK84343	10	1807	70.6	75	138
OK85310	12	1809	71.9	82	137
TX81V6607-2	24	1755	75.2	68	134
RH855001	34	1706	70	77	134
TX78A3345-V34	17	1675	69.3	70	136
BOUNTY-205	43	1601	70.2	85	135
AGC-111	33	1585	70.9	70	137
AGC-110	32	1576	70.8	70	135
TX80A5901-1	14	1565	72.7	73	136
XH682	41	1506	71.4	75	135
RH8604	36	1466	71.4	77	135
KS84HW196	7	1399	70.8	68	134
C082009	26	1399	71.8	82	139
C0830027	27	1397	73.1	82	135
CI13996	2	1374	72.2	84	137
TX84A7608	16	1327	69	73	135
KS82C2338	6	1311	71.7	75	135
OK82377	8	1280	73	75	134
TXGH10989	18	1280	70.1	70	135
RH8606	35	1264	69.1	75	136
C0820026	25	1213	72.1	80	135
KS82C2009	5	1202	72.3	77	137
CI1442	1	1188	69.3	92	141
KS831374	4	1172	71.4	77	134
NA-81-171-14	38	1172	74	70	134
NE78488	29	1170	71.9	80	138
BOUNTY-122	42	1166	67.9	77	136
C0830034	28	1161	72.3	77	137
XH669	40	1022	69.1	73	137
XW141	39	1018	69.1	65	136
NA-81-362-5	37	937	72.8	65	136
NE82533	30	865	70.7	75	137
AGC-106	31	782	67	75	137

MEAN 1486
LSD(.05) 424
C.V. 17.4

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 %
RH855001	34	5093	76.8	97	134	5
OK85310	12	4835	76.8	98	138	5
CI17826	3	4705	75.7	91	134	5
OK85347	11	4602	77.5	89	136	4
TX80A5901-1	14	4598	78	85	134	4
TXGH13622	22	4548	76.9	91	134	4
TX81V6607-2	24	4486	77.8	80	134	3
TXGH10563B	20	4481	75.8	92	133	6
TX81V5581	13	4474	74.8	77	132	6
NA-81-171-14	38	4441	76.5	93	133	6
C0830027	27	4418	79.5	96	134	4
TX84V1317	23	4409	76.5	80	134	3
TX78A3345-V34	17	4407	76	83	134	3
AGC-111	33	4387	76.8	91	136	6
KS82C2338	6	4367	77.5	87	132	3
RH8604	36	4331	77.6	95	135	4
TX84V1336	21	4317	76.2	85	132	8
BOUNTY-205	43	4315	75.4	97	134	2
TX81V6582-2	19	4304	77.5	80	132	2
XW141	39	4302	74.1	80	135	1
NA-81-362-5	37	4284	78.3	86	136	2
KS84HW196	7	4282	77.4	86	131	8
NE82533	30	4199	77.5	98	136	4
KS831374	4	4154	75.6	88	133	3
OK82377	8	4113	77.2	88	133	5
BOUNTY-122	42	4091	75.8	96	135	3
CI13996	2	4071	78	115	138	22
C0830034	28	4064	76.8	106	137	8
AGC-110	32	4033	76.8	93	135	10
TXGH10989	18	4024	75.6	93	136	6
C0820026	25	3959	77.5	86	135	2
TX84A7608	16	3909	74.4	85	133	4
XH682	41	3901	76.5	90	135	3
C082009	26	3835	79.5	101	138	2
OK84349	9	3815	75.9	81	133	1
TX84V1227	15	3685	78.4	97	136	4
KS82C2009	5	3681	78.9	98	138	3
NE78488	29	3623	77.6	110	138	5
OK84343	10	3605	76.3	83	136	1
XH669	40	3479	76.2	96	134	2
AGC-106	31	3477	73.9	88	134	2
CI1442	1	3291	77.1	129	140	13
RH8606	35	3013	74.7	86	136	3

MEAN	4149
LSD(.05)	600
C.V.	8.9

FORT COLLINS
COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING 0-9	LEAF RUST: SEV.:RESP: % : 0-9:
RH855001	34	9445	79.5	102	149	0	70
C0820026	25	9109	79.7	102	152	0	10
C0830027	27	9027	81.8	112	150	5	20
KS82C2009	5	8900	81	112	154	0	50
XH682	41	8863	78.9	99	152	0	60
C0830034	28	8833	80.2	122	154	4	70
BOUNTY-205	43	8646	79.5	102	152	0	70
TX81V5581	13	8579	78.7	84	150	0	0
CI17826	3	8445	78.9	91	150	0	90
TX84A7608	16	8445	78.9	94	152	0	10
TXGH13622	22	8415	79.5	84	150	0	30
OK85310	12	8355	79.5	99	155	0	30
AGC-111	33	8258	78.3	97	153	3	50
BOUNTY-122	42	8258	80.2	99	152	0	70
TX81V6607-2	24	8206	82.3	86	150	0	70
C082009	26	8191	81	127	154	3	70
TX78A3345-V34	17	8183	79.9	86	152	0	50
OK85347	11	8124	78.9	89	152	0	40
NA-81-362-5	37	8086	81	99	153	0	0
TXGH10989	18	8042	78.3	94	152	0	70
TX80A5901-1	14	8019	80.5	94	152	2	50
NA-81-171-14	38	7982	80.8	86	150	0	0
AGC-110	32	7967	79.7	97	153	0	0
TX84V1317	23	7959	80.5	74	150	0	10
TX84V1336	21	7937	80.5	81	149	0	30
XH669	40	7937	77.4	109	152	0	80
NE78488	29	7862	79.2	124	155	0	10
RH8604	36	7788	79.2	114	154	4	30
RH8606	35	7780	78.3	97	152	0	5
KS82C2338	6	7698	80.5	84	150	0	70
OK82377	8	7638	79.9	94	150	0	20
TXGH10563B	20	7623	78.3	89	149	0	90
TX81V6582-2	19	7459	80.8	79	149	0	10
TX84V1227	15	7392	79.5	107	152	1	10
KS84HW196	7	7056	79.2	84	149	0	70
XW141	39	6966	77.1	86	153	0	10
OK84349	9	6750	76.4	76	150	0	5
NE82533	30	6391	78.9	107	153	0	80
CI13996	2	6257	79.2	119	150	4	50
AGC-106	31	6138	78.3	91	150	0	10
KS831374	4	6055	77.7	89	152	0	30
OK84343	10	5958	76.4	81	151	0	0
CI1442	1	4585	75.9	132	158	8	90

MEAN	7805
LSD(.05)	808
C.V.	6.3

WALSH
COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
KS831374	4	3168	75.1	86
KS84HW196	7	3011	74	81
CO830027	27	2968	74.6	91
CI17826	3	2955	72.5	86
NA-81-171-14	38	2889	71.5	76
RH8604	36	2884	71	91
TX84V1317	23	2877	73.3	76
AGC-110	32	2877	72.5	86
TXGH13622	22	2810	74.3	86
CO82009	26	2757	71.5	91
RH855001	34	2712	71.7	89
CI13996	2	2698	74.6	97
TX80A5901-1	14	2682	71.2	81
AGC-111	33	2629	70.4	81
NE82533	30	2565	71.2	86
TXGH10563B	20	2558	72.2	81
KS82C2009	5	2547	70.3	91
AGC-106	31	2544	66.6	86
KS82C2338	6	2495	73.3	76
NE78488	29	2494	71.2	91
TX84V1227	15	2480	72.4	76
XW141	39	2463	66.8	76
TX81V6582-2	19	2454	74.8	76
OK82377	8	2448	74	74
BOUNTY-122	42	2436	67.1	81
TX84V1336	21	2410	72.2	71
OK85310	12	2399	71.7	71
TX78A3345-V34	17	2385	72.4	76
CO830034	28	2342	71.6	91
TX81V6607-2	24	2335	75.6	71
TXGH10989	18	2332	71.2	81
XH669	40	2327	68.1	81
BOUNTY-205	43	2285	70.2	86
OK85347	11	2259	72.5	86
XH682	41	2245	71.2	86
NA-81-362-5	37	2215	70.2	81
OK84343	10	2198	69.1	76
TX81V5581	13	2185	68.1	76
OK84349	9	2082	69.7	76
RH8606	35	2031	66.3	76
CI1442	1	1897	71.2	102
TX84A7608	16	1754	65.5	76
CO820026	25	1674	68.9	76
MEAN		2483		
LSD(.05)		N.S.		
C.V.		20.2		

JULESBURG
COLORADO
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING 0-9
TXGH105638	20	2898	73.8	89	0
RH855001	34	2838	75.2	89	2
BOUNTY-122	42	2806	74.6	89	0
TX81V5581	13	2789	71.5	66	2
TXGH13622	22	2670	76.9	89	2
TXGH10989	18	2666	72.8	81	0
OK85347	11	2608	74.9	76	0
CI17826	3	2597	75.3	81	3
KS82C2338	6	2527	78.4	81	1
KS82C2009	5	2493	76.9	97	1
TX78A3345-V34	17	2475	74.4	69	0
AGC-111	33	2448	75.1	81	0
BOUNTY-205	43	2338	74	91	1
OK84343	10	2297	73.9	76	0
TX81V6582-2	19	2285	75.6	71	0
RH8604	36	2272	76.4	89	0
XH669	40	2242	73.3	94	0
TX80A5901-1	14	2239	76.1	76	3
KS831374	4	2230	76.2	81	1
XW141	39	2228	72.8	76	0
XH682	41	2210	74.3	81	0
OK85310	12	2164	74.6	76	0
KS84HW196	7	2137	74.8	84	2
C082009	26	2131	76.4	109	2
C0830027	27	2118	76.6	84	4
TX81V6607-2	24	2115	75.9	81	5
OK82377	8	2112	75.1	89	0
OK84349	9	2062	73.5	79	0
TX84A7608	16	2052	73	79	0
AGC-110	32	2042	73.9	84	0
TX84V1227	15	2024	77.3	97	0
NA-81-171-14	38	2007	75.5	76	0
CI13996	2	1983	75.5	114	7
C0820026	25	1901	73.8	79	0
TX84V1317	23	1864	73.8	69	6
NE82533	30	1821	76.4	84	0
AGC-106	31	1818	74.2	89	0
RH8606	35	1808	72.6	89	1
NA-81-362-5	37	1782	77.1	74	0
C0830034	28	1730	74.3	97	3
NE78488	29	1696	75.6	109	0
TX84V1336	21	1222	72.8	81	8
CI1442	1	857	76.9	127	5

MEAN	2177
LSD(.05)	420
C.V.	11.8

LINCOLN
NEBRASKA
THREE REPLICATIONS

C.I. DR SEL. NO.	: ENTRY: : NO. :	: YIELD : : KG/HA :	: PLANT : : HEIGHT : : CM :
BOUNTY-205	43	3333	73
OK84343	10	3289	57
TX84V1317	23	3215	56
KS84HW196	7	3071	62
NA-81-362-5	37	3069	56
CI13996	2	2959	85
OK84349	9	2910	57
CO830034	28	2881	71
KS82C2009	5	2878	66
TX84A7608	16	2818	59
OK85310	12	2813	60
TX78A3345-V34	17	2764	56
CI17826	3	2739	62
XH669	40	2674	66
TXGH10563B	20	2627	60
OK85347	11	2607	59
TX80A5901-1	14	2598	56
TXGH13622	22	2573	62
TX84V1227	15	2567	70
TX84V1336	21	2556	58
TXGH10989	18	2531	61
AGC-110	32	2468	59
AGC-111	33	2434	59
CO830027	27	2387	66
TX81V5581	13	2385	50
TX81V6582-2	19	2383	50
CO820026	25	2365	58
BOUNTY-122	42	2358	60
NE82533	30	2309	65
OK82377	8	2307	60
RH8604	36	2287	64
XH682	41	2251	60
KS831374	4	2248	60
XW141	39	2242	50
KS82C2338	6	2170	61
NE78488	29	2150	65
TX81V6607-2	24	2109	52
NA-81-171-14	38	2103	53
RH8606	35	2033	58
RH855001	34	2018	62
CI1442	1	2013	95
AGC-106	31	1982	59
CO82009	26	1921	66
MEAN		2521	
LSD(.05)		642	
C.V.		15.6	

CLAY CENTER
NEBRASKA
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
TX84V1317	23	4396	74.7	77
KS82C2009	5	4168	75.2	102
TX81V6607-2	24	4108	77.4	83
RH855001	34	4044	73.5	97
OK85310	12	4027	73.9	95
RH8604	36	4007	74.7	102
NA-81-362-5	37	3967	76.1	84
TX81V5581	13	3954	73.4	76
AGC-110	32	3937	72.9	94
NE82533	30	3926	73	102
BOUNTY-205	43	3926	73.4	102
TX81V6582-2	19	3921	76.1	77
XW141	39	3912	70	85
NE78488	29	3909	73.9	112
OK82377	8	3885	74.8	90
NA-81-171-14	38	3788	76.1	83
TXGH10563B	20	3770	74.8	91
CI17826	3	3710	72.2	93
C0830034	28	3635	72.9	109
TX84A7608	16	3614	73.3	85
AGC-111	33	3611	71	91
TXGH13622	22	3596	74.6	95
C0820026	25	3595	74	88
OK85347	11	3541	74.8	89
OK84349	9	3488	73.1	84
XH682	41	3423	74.4	91
TX80A5901-1	14	3352	72.9	89
KS831374	4	3347	73.5	90
TX78A3345-V34	17	3328	72.8	80
KS82C2338	6	3309	76.1	90
C0830027	27	3291	76.1	99
KS84HW196	7	3282	75.6	88
BOUNTY-122	42	3276	73.3	94
TX84V1336	21	3204	74.8	89
XH669	40	3197	72.9	95
TX84V1227	15	3102	75.6	103
C082009	26	3043	74.6	104
RH8606	35	3004	71	90
OK84343	10	2911	73.5	85
CI13996	2	2886	73.8	121
TXGH10989	18	2755	72.4	90
CI1442	1	2724	73.1	131
AGC-106	31	2655	71	89

MEAN 3547
LSD(.05) 635
C.V. 11.0

NORTH PLATTE
NEBRASKA
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL
TXGH10563B	20	4368	75.7
BOUNTY-205	43	4212	74.4
TXGH13622	22	4170	76.6
AGC-111	33	4091	74.8
KS82C2338	6	4009	76
NE78488	29	3964	76.2
OK84349	9	3886	73.8
RH8604	36	3867	75.3
AGC-110	32	3835	75.7
RH855001	34	3824	75.2
CI17826	3	3804	74.6
TX84A7608	16	3795	71.9
TX84V1317	23	3793	75.6
NE82533	30	3749	75.9
TX84V1336	21	3740	75.9
NA-81-362-5	37	3666	76.8
CI13996	2	3647	76.2
TX81V5581	13	3633	72.9
XH682	41	3628	74.2
KS84HW196	7	3618	76.1
TX80A5901-1	14	3600	76
BOUNTY-122	42	3597	72.6
KS82C2009	5	3596	76
NA-81-171-14	38	3561	76.1
TX81V6607-2	24	3544	76.5
OK84343	10	3531	73.3
TX78A3345-V34	17	3517	74.7
KS831374	4	3473	74.7
OK82377	8	3470	75.9
CO820026	25	3449	74.7
AGC-106	31	3361	72.4
CO830034	28	3354	73.5
TX81V6582-2	19	3348	76.6
OK85347	11	3273	74
XW141	39	3262	71
XH669	40	3188	72.8
CO82009	26	3090	74.8
TX84V1227	15	2968	75.1
TXGH10989	18	2924	74.8
RH8606	35	2914	72.2
OK85310	12	2866	71.9
CI1442	1	2740	74.8
CO830027	27	2650	72
MEAN		3548	
LSD(.05)		604	
C.V.		10.4	

SIDNEY
NEBRASKA
THREE REPLICATIONS

C. I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL	: DAYS TO : HEADING : FROM 1/1:
TXGH13622	22	5500	78.7	152
TX81V6582-2	19	5297	76.8	148
TXGH105638	20	5152	77.1	151
AGC-111	33	5112	77.4	155
RH855001	34	5084	77.4	152
C0830034	28	5000	77.3	154
BOUNTY-122	42	4999	75.3	153
CI17826	3	4979	76.4	150
TX81V6607-2	24	4959	79.7	152
OK85347	11	4929	77.3	152
OK85310	12	4908	77.3	154
C0820026	25	4878	76.1	153
RH8604	36	4848	78.7	152
NA-81-171-14	38	4826	77.3	149
OK84349	9	4820	74.2	153
OK84343	10	4771	75.5	152
KS82C2338	6	4737	77.7	150
TX80A5901-1	14	4721	78.7	153
BOUNTY-205	43	4718	.	152
TX81V5581	13	4716	72.2	150
XH682	41	4686	76.1	152
TX78A3345-V34	17	4637	76.1	152
TXGH10989	18	4618	75.1	152
TX84V1317	23	4608	76	149
TX84A7608	16	4583	74.7	151
NA-81-362-5	37	4543	79.3	152
NE82533	30	4517	76.2	151
XW141	39	4446	74.8	155
C082009	26	4424	78.7	157
KS82C2009	5	4403	78.3	157
AGC-110	32	4361	76.4	153
OK82377	8	4297	77.3	149
KS831374	4	4284	76.1	152
C0830027	27	4283	79.9	155
KS84HW196	7	4259	76	151
NE78488	29	4177	77.4	157
XH669	40	4145	74.4	152
AGC-106	31	4100	73.5	152
TX84V1336	21	4059	76	149
CI13996	2	3987	77.4	151
RH8606	35	3695	74.7	153
TX84V1227	15	3268	78.7	154
CI1442	1	2910	77.4	159
MEAN		4564		
LSD(.05)		568		
C.V.		7.6		

ALLIANCE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
RH855001	34	5797	77.3	73	150
AGC-110	32	5327	77	69	150
AGC-111	33	5322	76.4	65	151
TX81V5581	13	5248	74.8	58	149
TXGH10563B	20	5132	76.2	68	151
NA-81-362-5	37	5079	78.2	63	150
BOUNTY-205	43	5065	74.7	80	149
OK85310	12	5052	75.6	67	153
TX81V6582-2	19	5015	78.4	60	149
TX84V1317	23	4998	77.4	62	149
C0820026	25	4998	76.8	70	150
CI17826	3	4996	76.2	74	150
TX81V6607-2	24	4943	79.2	63	150
XH682	41	4941	74.8	75	150
OK84349	9	4907	72.9	63	149
C0830034	28	4864	75.7	73	153
NA-81-171-14	38	4854	77.3	63	150
TX84A7608	16	4824	74.7	64	151
TX80A5901-1	14	4781	77.4	63	149
C0830027	27	4699	77.4	76	149
TXGH13622	22	4678	77.5	65	150
OK84343	10	4655	73.8	63	149
TX84V1336	21	4634	77.4	63	150
KS82C2009	5	4623	77.4	70	153
BOUNTY-122	42	4574	73.1	72	150
KS82C2338	6	4537	77.8	68	150
XH669	40	4505	73.3	75	149
TX78A3345-V34	17	4497	74.8	66	152
XW141	39	4415	76.1	64	150
OK82377	8	4404	76.1	74	149
OK85347	11	4368	76.5	67	150
TXGH10989	18	4345	74.8	70	148
RH8604	36	4334	76	73	150
NE82533	30	4328	76.1	73	150
KS831374	4	4292	74.7	68	149
RH8606	35	4025	73.5	65	150
C082009	26	3920	76.9	78	154
AGC-106	31	3914	73.8	70	150
NE78488	29	3847	76.8	82	152
CI13996	2	3665	77.4	88	151
KS84HW196	7	3558	77.5	62	149
CI1442	1	3315	74.9	90	154
TX84V1227	15	2658	79.5	68	153

MEAN 4580
LSD(.05) 686
C.V. 9.2

PRESHO
S. DAKOTA
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	STAND %
NE78488	29	3986	80.4	75	157	100
AGC-111	33	3912	78.2	65	157	100
TXGH13622	22	3812	78.9	67	156	93
KS82C2009	5	3797	77.5	77	168	93
OK85310	12	3771	80	74	158	100
RH855001	34	3753	79.5	71	155	100
NA-81-362-5	37	3643	77.3	67	156	100
TXGH10563B	20	3623	78.7	67	167	100
TX80A5901-1	14	3574	81.3	65	166	100
BOUNTY-205	43	3473	78.9	73	159	100
C113996	2	3420	79.5	87	175	100
C0830027	27	3406	81.3	73	156	100
NA-81-171-14	38	3398	80.9	65	155	93
TX78A3345-V34	17	3391	78.6	63	156	93
RH8604	36	3391	78.7	73	169	100
AGC-110	32	3298	77.8	65	157	93
C0820026	25	3217	79.8	65	164	93
OK84349	9	3205	76.7	71	156	77
TX81V6582-2	19	3184	80.2	68	157	70
C082009	26	3179	78.9	73	168	93
XH682	41	3164	79.5	63	155	93
TX81V5581	13	3155	78.7	60	156	93
TX84A7608	16	3128	77.8	63	157	100
XW141	39	3119	73.7	62	153	93
NE82533	30	3085	75.8	71	165	87
C0830034	28	3053	78	73	169	83
AGC-106	31	3020	77.3	67	168	83
OK85347	11	2998	80.2	70	155	73
TXGH10989	18	2906	75.3	70	166	73
KS831374	4	2810	80	67	155	100
C11442	1	2758	75.5	102	151	100
C117826	3	2723	77.1	66	156	93
KS84HW196	7	2722	80	65	155	93
XH669	40	2715	75.5	69	158	80
RH8606	35	2668	78	63	165	77
TX84V1317	23	2658	79.5	59	156	100
OK84343	10	2597	76.9	66	159	67
OK82377	8	2465	74	69	153	60
KS82C2338	6	2393	78.4	62	162	80
BOUNTY-122	42	2369	75.3	69	170	93
TX84V1336	21	2284	76	61	155	73
TX81V6607-2	24	2139	78.9	59	152	62
TX84V1227	15	1581	63.4	76	151	10

MEAN	3092
LSD(.05)	846
C.V.	16.8

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:	: WINTER SURVIVAL %
NA-81-362-5	37	4984	78.4	76	150	92
NE78488	29	4925	77.9	86	151	92
AGC-111	33	4649	73.7	80	151	87
XW141	39	4530	71.2	73	153	85
RH8604	36	4522	76.8	79	150	88
NE82533	30	4500	77.4	81	150	90
CO82009	26	4436	77.3	91	152	85
XH682	41	4344	77	81	149	85
RH855001	34	4334	76.2	78	149	90
CO830034	28	4302	75.9	83	152	87
CI1442	1	4294	75.7	110	156	88
NORSTAR	45	4193	77.4	115	161	95
AGC-110	32	4188	74.3	77	149	87
ROUGH RIDER	44	4162	77.4	104	155	95
BOUNTY-205	43	4110	76.1	86	150	85
OK85310	12	4095	76.4	78	153	77
CI17826	3	4071	74.8	73	149	90
NA-81-171-14	38	4038	78.2	65	147	87
XH669	40	3886	75.7	84	148	75
TXGH13622	22	3619	76	73	150	85
TX84V1317	23	3601	77.4	63	149	88
CI13996	2	3595	75.7	94	151	78
TXGH10563B	20	3516	72.9	70	148	87
TX80A5901-1	14	3444	76.4	70	150	82
CO830027	27	3339	78.9	80	150	68
TX78A3345-V34	17	3232	73.7	68	151	68
CO820026	25	3216	76.6	71	149	65
KS82C2009	5	3128	75.9	84	154	65
TX81V6607-2	24	3095	78.2	63	151	77
TX84A7608	16	3086	74.6	68	149	80
KS84HW196	7	3027	76	68	148	75
KS82C2338	6	2994	77.1	68	147	80
BOUNTY-122	42	2911	75.9	74	150	63
OK84349	9	2811	73.5	69	150	62
OK84343	10	2685	75.6	74	151	58
KS831374	4	2658	74.9	71	149	78
AGC-106	31	2585	74.2	74	149	80
TX81V5581	13	2436	74	60	150	77
OK85347	11	1781	74	73	153	37
TX84V1336	21	1481	73.5	66	150	68
RH8606	35	1415	72.9	71	150	32
OK82377	8	1359	69.1	66	152	38
TX81V6582-2	19	1265	76.9	61	151	38
TXGH10989	18	683	70.3	66	153	25
TX84V1227	15	632	74.8	75	155	17
MEAN		3337				
LSD(.05)		1210				
C.V.		22.2				

CLARKTON MISSOURI, THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING %	: LEAF RUST: SEV.:RESP: % : 0-9:	: BYD VIRUS 0-9	: MILDEW %
OK84343	10	4407	77.4	82	125	3	0	0	1
AGC-111	33	4252	73.8	77	124	4	13	0	1
KS82C2009	5	4237	82.9	86	124	3	5	0	3
TX80A5901-1	14	4188	80.3	75	121	5	2	0	22
RH855001	34	4145	76.7	81	121	3	30	0	1
BOUNTY-205	43	4145	78.4	89	126	5	7	0	3
C0830034	28	4142	77.2	102	124	4	15	0	1
OK85310	12	4137	79.2	80	125	3	2	0	1
OK85347	11	4129	77.9	80	125	3	3	0	2
TX84V1317	23	4124	74.7	78	124	6	1	0	4
KS82C2338	6	4099	79.3	75	118	4	9	0	4
TX84A7608	16	4097	77.5	69	118	4	7	0	5
BOUNTY-122	42	4084	77.3	80	121	3	21	0	3
AGC-106	31	4077	78	88	123	5	8	0	1
RH8606	35	4077	76.2	80	121	3	11	0	1
TXGH10989	18	4069	76.7	82	124	2	9	0	3
XH682	41	4063	78.2	80	122	3	11	0	5
OK84349	9	4051	77.7	77	123	3	1	0	3
XH669	40	4004	78.7	80	121	4	15	0	3
TXGH13622	22	3996	76.9	78	120	5	18	0	2
PIKE	44	3936	75.7	88	124	2	6	0	5
TX81V5581	13	3933	75.7	69	119	3	4	0	5
RH8604	36	3919	79	78	122	3	5	3	11
OK82377	8	3882	78.4	83	124	3	0	0	2
TX78A3345-V34	17	3867	76.4	69	122	3	4	0	8
TX84V1227	15	3853	79.3	95	127	6	5	0	18
TXGH105638	20	3849	76.2	76	119	3	8	0	21
C082009	26	3779	78.4	63	123	3	1	0	2
KS831374	4	3766	84.4	75	122	3	1	0	5
NE78488	29	3683	81.6	91	123	5	2	0	3
AGC-110	32	3621	74.9	76	127	2	3	0	14
NA-81-171-14	38	3581	77.9	72	120	2	8	0	29
KS84HW196	7	3557	74.8	78	123	3	6	0	4
NE82533	30	3475	77.7	86	126	3	1	0	4
NA-81-362-5	37	3474	80.4	74	126	3	3	0	38
CALDWELL	45	3423	75.3	82	124	1	10	0	6
C0820026	25	3420	76.3	75	120	4	16	0	6
TX81V6582-2	19	3377	77.2	64	119	3	6	0	4
TX81V6607-2	24	3375	73.8	76	123	3	2	0	1
C0830027	27	3375	78.4	81	122	10	3	0	4
CI17826	3	3342	75.7	80	126	2	10	0	6
CI13996	2	3130	77.6	107	126	13	8	0	11
XW141	39	3054	73.3	68	123	2	3	0	3
TX84V1336	21	2949	72.2	70	121	5	1	0	1
CI1442	1	2867	65.4	113	128	10	4	0	3

MEAN 3800
LSD(.05) N.S.
C.V. 14.4

AMES
IOWA
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 RIPENING FROM 1/1	LODGING %	WINTER SURVIVAL %
OK85310	12	5532	73.8	78	138	173	0	98
BOUNTY-205	43	5526	73.1	86	140	174	1	96
NA-81-362-5	37	5523	73.8	70	139	173	0	99
OK84349	9	5472	74.4	76	139	176	0	93
RH8604	36	5418	74.9	78	138	173	0	100
NA-81-171-14	38	5360	73.9	69	136	173	1	98
NE78488	29	5205	75.5	80	138	174	1	100
OK84343	10	5017	74.8	73	140	176	0	94
CO830027	27	4983	75.9	77	136	171	1	98
CI17826	3	4900	68.9	78	138	175	0	99
XH669	40	4804	73.1	80	137	175	1	97
NE82533	30	4784	74.3	80	140	175	0	95
XH682	41	4773	72.4	75	137	173	1	99
CI13996	2	4687	74	97	140	175	18	97
TX84V1227	15	4607	75.1	88	143	176	3	97
TX80A5901-1	14	4564	73.3	69	138	173	0	97
OK82377	8	4537	72	77	139	175	1	92
AGC-110	32	4486	68.8	76	140	175	0	99
XW141	39	4481	70	69	140	176	0	99
BOUNTY-122	42	4477	70.7	79	137	175	0	97
TX84V1317	23	4472	73.5	66	136	171	1	100
OK85347	11	4416	73	80	142	175	3	90
TX84A7608	16	4340	72.2	70	137	174	0	85
TX81V6607-2	24	4302	75.5	62	138	174	0	93
KS84HW196	7	4246	71.7	75	138	170	4	100
KS831374	4	4230	74	69	137	173	1	88
KS82C2009	5	4212	72.2	84	141	176	1	91
TXGH13622	22	4208	71.9	73	137	171	3	99
TX78A3345-V34	17	4100	71	68	139	172	3	97
RH8606	35	4087	71.1	70	138	173	1	87
AGC-111	33	4084	69.1	71	139	173	0	97
CO830034	28	4071	70.7	80	139	173	1	97
AGC-106	31	3876	73.4	69	137	173	3	87
RH855001	34	3849	72.2	74	137	172	6	99
TX81V5581	13	3815	72.1	61	136	172	1	97
CI1442	1	3813	72	106	146	178	26	95
CO820026	25	3732	73.5	69	137	173	2	82
TX84V1336	21	3717	71.3	67	137	171	1	96
TXGH10563B	20	3632	69.9	70	135	170	7	95
KS82C2338	6	3625	73.8	70	135	170	7	97
TXGH10989	18	3625	71.5	77	141	177	1	83
TX81V6582-2	19	3569	73.4	64	138	173	0	84
CO82009	26	3354	72.5	82	141	176	0	88

MEAN 4430
LSD(.05) 700
C.V. 9.7

URBANA
ILLINOIS
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	LODGING %
TX81V6582-2	19	6779	72.5	79	134	0
OK84349	9	6492	71.8	81	136	5
NA-81-171-14	38	6339	73.1	76	134	2
RH8606	35	6295	68.9	90	136	0
KS831374	4	6263	72.9	86	134	12
NA-81-362-5	37	6252	74.2	80	138	0
TXGH105638	20	6189	70.2	82	133	0
RH855001	34	5987	71.6	86	135	3
BOUNTY-122	42	5914	71.8	90	136	0
AGC-110	32	5909	71.1	86	137	0
TX84A7608	16	5898	70.9	80	135	0
CI17826	3	5875	71	87	135	0
AGC-106	31	5828	71.2	89	134	3
XW141	39	5819	69	78	137	0
XH682	41	5819	71.8	90	136	5
XH669	40	5804	72.7	91	135	2
TX84V1227	15	5766	73.1	97	138	5
TXGH13622	22	5754	70.5	90	134	17
BOUNTY-205	43	5696	72.7	98	138	2
TXGH10989	18	5588	69.2	86	137	8
TX81V6607-2	24	5586	71.7	76	134	2
OK85310	12	5573	69.7	89	137	32
OK84343	10	5474	73	80	138	5
C0820026	25	5436	70.4	86	136	13
KS82C2009	5	5409	72.2	97	137	18
KS82C2338	6	5378	71.3	85	133	8
TX80A5901-1	14	5275	69.5	81	134	33
C0830027	27	5259	69.5	91	134	22
TX81V5581	13	5239	68.3	81	134	8
NE82533	30	5149	71.8	92	139	5
TX78A3345-V34	17	5068	71.3	80	137	2
OK82377	8	4985	70.8	96	137	37
RH8604	36	4965	71.8	95	137	7
TX84V1317	23	4963	68.1	78	134	13
AGC-111	33	4943	66.9	82	137	47
OK85347	11	4663	68	83	138	62
KS84HW196	7	4239	70.7	83	134	3
NE78488	29	4022	72.3	88	138	58
C0830034	28	3981	69.3	88	138	57
C082009	26	3948	72.4	89	138	45
CI1442	1	3712	69.6	100	141	57
CI13996	2	3450	68.9	97	138	53
TX84V1336	21	3419	61	80	133	8

MEAN	5358
LSD(.05)	678
C.V.	7.8

LIND
WASHINGTON
THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	STAND %
KS82C2009	5	1935	79.1	71	130	90
CI1442	1	1735	76.4	78	134	93
C082009	26	1722	78.4	73	130	93
CI13996	2	1627	78.4	78	129	95
TX84V1227	15	1488	78.9	74	129	86
C0830034	28	1475	78.4	74	129	92
XH682	41	1468	76.2	68	128	87
XH669	40	1343	76.6	68	129	91
TX78A3345-V34	17	1341	76.1	65	129	82
TX84A7608	16	1307	76.6	69	128	85
OK85310	12	1302	77.3	67	131	85
TXGH105638	20	1298	77	70	127	90
TX80A5901-1	14	1284	78.7	66	129	85
BOUNTY-122	42	1267	76.8	70	128	93
RH8604	36	1226	77.9	68	129	87
C0820026	25	1175	78.8	71	129	88
RH855001	34	1166	77.4	71	129	80
OK85347	11	1152	77	70	129	78
BOUNTY-205	43	1143	76	69	129	90
TXGH13622	22	1139	77.7	68	129	87
NE78488	29	1128	77.7	74	131	80
OK82377	8	1060	76.4	71	127	86
NA-81-362-5	37	1032	77.5	58	130	83
C0830027	27	1009	78.6	72	129	75
RH8606	35	984	75.3	67	127	82
CI17826	3	973	77.3	69	129	88
AGC-106	31	957	76.1	73	129	75
OK84343	10	944	75.5	66	129	75
TXGH10989	18	944	75.7	66	128	72
AGC-110	32	937	77	64	129	82
OK84349	9	906	75.6	68	128	83
TX84V1336	21	890	79.6	64	128	85
KS82C2338	6	845	77.5	68	127	72
TX84V1317	23	841	78.3	69	128	80
TX81V6607-2	24	820	79.2	57	129	75
TX81V6582-2	19	780	76.2	59	127	88
TX81V5581	13	778	76.9	64	127	77
AGC-111	33	773	76.6	63	131	80
NA-81-171-14	38	760	77.9	64	128	80
NE82533	30	659	75.9	65	131	85
XW141	39	623	75.6	64	130	80
KS831374	4	612	75.1	67	128	87
KS84HW196	7	464	77.9	67	127	98
MEAN		1101				
LSD(.05)		441				
C.V.		24.5				

ROCKLAND
IDAHO
ONE REPLICATION

C.I. OR SEL. NO.	ENTRY: NO.	YIELD KG/HA	PLANT HEIGHT CM	VOLUME WEIGHT KG/HL	LODGING 0-9
AGC-111	33	5172	89	81.4	3
XW141	39	4492	86	80.4	2
AGC-110	32	4486	86	82	2
TX84V1336	21	4459	79	80.1	1
CO830034	28	4371	102	81.9	2
RH8604	36	4317	94	81.4	2
TX84V1317	23	4311	79	82.3	2
CI17826	3	4284	91	80.1	2
KS82C2338	6	4277	86	77	2
TXGH10563B	20	4270	89	77.8	2
TX81V6607-2	24	4270	76	83.9	1
TX84A7608	16	4237	86	81	2
TX81V6582-2	19	4190	71	81.9	1
TX81V5581	13	4156	74	81.4	2
CO820026	25	4116	89	81.9	1
KS82C2009	5	3981	97	81.9	2
TX80A5901-1	14	3961	89	81.3	3
RH855001	34	3941	94	79.9	3
RH8606	35	3894	84	81.3	1
TX78A3345-V34	17	3860	84	81.4	2
XH682	41	3820	94	81.4	3
CO830027	27	3793	97	83.3	2
BOUNTY-122	42	3719	86	81.4	1
AGC-106	31	3524	89	81.3	2
NA-81-362-5	37	3517	79	82.7	1
TXGH13622	22	3369	86	80.1	2
KS831374	4	3315	89	79.3	2
BOUNTY-205	43	3295	89	79.2	3
TXGH10989	18	3275	86	78.8	2
NA-81-171-14	38	3241	74	81.3	1
CO82009	26	3188	104	81.4	3
OK84343	10	3167	79	79.9	1
NE82533	30	3161	89	81.9	2
KS84HW196	7	3154	76	81.7	2
OK84349	9	3087	79	79.7	1
OK85347	11	3053	86	80.5	2
CI13996	2	2858	97	79.9	3
NE78488	29	2851	99	81.7	2
OK85310	12	2818	94	80.6	3
XH669	40	2751	99	80	2
OK82377	8	2643	81	79.9	2
TX84V1227	15	2609	94	82.3	3
CI1442	1	1627	119	78.6	4

MEAN 3648
LSD(.05) --
C.V. --

ABERDEEN
IDAHO
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL	: PLANT HEIGHT CM	: LODGING 0-9	: DAYS TO HEADING FROM 1/1:	: STRAW STRENGTH 1-5	: STRIPE RUST SEV.:RESP:	:
CO820026	25	9083	80.6	110	4	145	3	50	5
BOUNTY-122	42	8873	79.7	113	6	144	3	35	7
NA-81-362-5	37	8805	81.7	109	5	147	4	50	6
KS82C2009	5	8693	81.4	118	8	148	5	50	7
TX81V6582-2	19	8604	82.3	85	3	142	3	10	4
TXGH10563B	20	8153	78.9	99	2	142	4	70	9
CI17826	3	8139	79.1	99	7	140	4	75	7
TX81V6607-2	24	8104	83.2	95	4	144	4	50	6
TX84A7608	16	7944	80.1	103	6	143	4	75	8
RH855001	34	7911	80.4	105	5	143	5	50	8
TX78A3345-V34	17	7900	81	95	7	144	4	5	4
AGC-106	31	7362	80.4	107	5	143	4	75	8
RH8606	35	7321	78.7	109	4	142	3	40	5
KS831374	4	7312	80.1	99	4	143	4	40	7
TX84V1317	23	7303	80	86	8	141	5	7	4
AGC-110	32	7265	80	100	4	144	4	75	8
TXGH13622	22	7084	78.8	95	5	144	4	50	9
DK84343	10	7066	78.3	94	2	142	3	.	0
NE78488	29	7055	80	122	6	150	4	65	9
NA-81-171-14	38	7043	81.3	85	2	140	4	35	4
OK84349	9	6996	77.4	88	2	140	3	3	4
BOUNTY-205	43	6954	79.7	107	9	144	5	50	8
TX81V5581	13	6877	79.1	88	7	142	5	40	7
TX84V1336	21	6812	80.6	89	7	140	5	15	3
RH8604	36	6808	81.3	104	6	144	4	50	8
OK85310	12	6786	79.7	116	7	147	5	50	6
KS82C2338	6	6669	81.7	98	8	140	5	30	7
XW141	39	6481	78.4	91	2	146	4	30	5
CO82009	26	6445	80.6	119	9	146	5	75	8
DK85347	11	6434	77.1	97	9	142	5	30	5
CO830034	28	6378	80	114	7	145	5	85	9
TXGH10989	18	6328	77.4	94	9	142	5	40	8
NE82533	30	6241	81	109	6	145	4	40	5
KS84HW196	7	6037	79.6	90	8	137	5	50	5
AGC-111	33	5718	80.4	88	9	146	5	65	9
XH682	41	5588	78.2	109	9	145	5	35	7
OK82377	8	5541	78.7	95	4	140	4	60	8
TX80A5901-1	14	5380	80.4	95	6	145	5	79	9
XH669	40	5299	78.8	104	7	145	5	75	8
CI13996	2	5140	77.8	105	9	142	5	50	6
TX84V1227	15	5100	81	105	7	139	5	70	9
CO830027	27	5033	81	104	8	144	5	60	8
CI1442	1	2488	78	103	9	150	5	50	6

MEAN	6850
LSD(.05)	1416
C.V.	12.7

Table 2. Summary of mean yields (kg/ha) of 43 wheats grown in the 1987 Southern Regional Performance Nursery at 32 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	BUSHLAND (DRYL.) TEXAS	BUSHLAND (IRR.) TEXAS	CHILLY-COTHE TEXAS	DALLAS TEXAS	TEXAS STATE MEAN					
WINTER WHEAT HYBRID	RH855001	34	3495	22	4492	16	2076	21	4019	11	3520	12
OK1125A/HW76-1226	NA-81-362-5	37	3209	34	4833	3	2136	16	3728	18	3476	18
BOUNTY HYBRID WHEAT	BOUNTY-205	43	3719	13	4631	8	1946	26	4054	10	3587	8
TX71A374-4/TX71A1039-V1	TX84V1317	23	3927	3	4761	5	2491	2	4139	7	3829	2
TX71A562-6*4/AMIGO*4//LARGO	TXGH13622	22	3660	15	4416	21	2244	8	3632	22	3488	16
TAM-105*4/AMIGO*4//LARGO	TXGH10563B	20	3729	12	4474	17	2239	9	3854	15	3574	10
PAYNE//TAM W-101/AMIGO	OK85310	12	3611	17	4573	10	1899	27	3600	23	3421	25
OK1125A/HW76-1226	NA-81-171-14	38	3370	28	4431	20	2109	18	3934	13	3461	20
WINTER WHEAT COMPOSITE	KS82C2009	5	3125	35	4310	24	2130	17	3594	24	3290	27
WINTER WHEAT HYBRID	RH8604	36	3350	30	4335	22	1885	29	3843	16	3353	26
WINTER WHEAT HYBRID	XH682	41	3632	16	4099	30	2188	12	4014	12	3483	17
EXPERIMENTAL LINE	AGC-110	32	3484	23	3940	36	1704	36	3304	32	3108	34
TAM-105	C117826	3	3384	26	4028	34	1975	24	3192	36	3145	32
MV-69-12/TAM W-103	TX78A3345-V34	17	3847	7	4456	18	2421	3	3538	25	3565	11
BOUNTY HYBRID WHEAT	BOUNTY-122	42	3531	19	4200	28	1861	32	4305	4	3474	19
MV-69-12/TAM W-103	TX84A7608	16	3776	9	4204	27	2338	6	3676	19	3499	15
AURORA/2*TAM W-101	OK84349	9	3377	27	4546	13	2419	4	4495	2	3709	5
MEX DW/BACA//VONA	C0820026	25	3672	14	4335	22	2403	5	3650	20	3515	14
TX71A1039-V1*3/AMIGO	TX81V6607-2	24	3865	6	4777	4	2224	10	4612	1	3870	1
STURDY*3/AMIGO	TX81V6582-2	19	3736	11	4570	11	2219	11	4373	3	3725	4
AURORA/2*TAM W-101	OK84343	10	3520	20	4638	7	2181	13	4252	5	3648	7
C05926//7C/TOBARI63/3/BACA	C0830034	28	3234	33	3704	39	1959	25	3448	27	3086	35
74CB462/TRAPPER//VONA	C0830027	27	3845	8	4676	6	1787	34	3404	30	3428	24
BULK SELECTION	AGC-111	33	3887	5	4557	12	2089	19	3234	35	3442	21
TAM W-101/CTK//AMIGO	TX80A5901-1	14	3499	21	4543	14	1704	36	3281	33	3257	29
TX73V203*3/AMIGO	TX81V5581	13	3747	10	4867	2	2538	1	3813	17	3741	3
TAM W-101/AMIGO	OK85347	11	3907	4	4952	1	2056	22	3899	14	3703	6
PLAINSMAN V/3/KAW/ATL50//PKR*5/AG	KS831374	4	2888	40	4034	32	2152	15	3435	28	3127	33
WRR*5/AGENT//AURORA/3/CTK 78	NE78488	29	3033	37	3911	37	1661	39	3639	21	3061	36
BULK SELECTION	KS82C2338	6	3408	25	4270	25	2087	20	3154	37	3230	31
WINTER WHEAT HYBRID	XH669	40	2932	39	4032	33	1881	30	3266	34	3028	37
BEZOSTAYA/TAM W-101//W558	XW141	39	3253	32	3588	40	1760	35	1914	42	2629	42
WINTER WHEAT HYBRID	RH8606	35	3973	2	4501	15	2163	14	3430	29	3517	13
KS73167/AGATE//SAGE SIB	NE82533	30	3048	36	3989	35	1664	38	3145	38	2961	38
AMIGO SIB/2*NEWTON	OK82377	8	2888	40	4131	29	1894	28	4086	8	3250	30
KS73146/TX71A1039	TX84V1336	21	3595	18	4595	9	2056	22	4066	9	3578	9
BSN/STRLG//3*SUT/3/EAGLE/4/PNCL/2*EAGLE	KS84HW196	7	3352	29	4045	31	2304	7	3355	31	3264	28
TAM W-101*4/AMIGO*4//LARGO	TXGH10989	18	3448	24	4209	26	1863	31	4234	6	3438	22
74F878/WINGS//VONA	C082009	26	2679	43	3271	41	1648	40	2939	40	2634	41
SCOUT 66	C113996	2	3324	31	3110	42	1533	42	2621	41	2647	40
EXPERIMENTAL LINE	AGC-106	31	2955	38	3853	38	1612	41	3014	39	2858	39
TX68D5194/OSAGE	TX84V1227	15	3988	1	4447	19	1852	33	3460	26	3437	23
KHARKOF	C11442	1	2759	42	1737	43	998	43	1757	43	1813	43
MEAN			3457		4234		2008		3591		3322	
LSD(.05)			326		562		300		493		424	
C.V.			6.7		8.1		9.2		8.4		8.1	

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	LINCOLN NEBRASKA	CLAY CENTER NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	ALLIANCE NEBRASKA	NEBRASKA STATE MEAN	PRESHO S. DAKOTA
RH855001	34	2018 40	4044 4	3824 10	5084 5	5797 1	4153 4	3753 6
NA-81-362-5	37	3069 5	3967 7	3666 16	4543 26	5079 6	4065 7	3643 7
BOUNTY-205	43	3333 1	3926 10	4212 2	4718 19	5065 7	4251 1	3473 10
TX84V1317	23	3215 3	4396 1	3793 13	4608 24	4998 10	4202 3	2658 36
TXGH13622	22	2573 18	3596 22	4170 3	5500 1	4678 21	4103 6	3812 3
TXGH105638	20	2627 15	3770 17	4368 1	5152 3	5132 5	4210 2	3623 8
OK85310	12	2813 11	4027 5	2866 41	4908 11	5052 8	3933 15	3771 5
NA-81-171-14	38	2103 38	3788 16	3561 24	4826 14	4854 17	3826 21	3398 13
KS82C2009	5	2878 9	4168 2	3596 23	4403 30	4623 24	3934 14	3797 4
RH8604	36	2287 31	4007 6	3867 8	4848 13	4334 33	3868 18	3391 14
XH682	41	2251 32	3423 26	3628 19	4686 21	4941 14	3786 23	3164 21
AGC-110	32	2468 22	3937 9	3835 9	4361 31	5327 2	3986 12	3298 16
CI17826	3	2739 13	3710 18	3804 11	4979 8	4996 12	4046 8	2723 32
TX78A3345-V34	17	2764 12	3328 29	3517 27	4637 22	4497 28	3748 27	3391 14
BOUNTY-122	42	2358 28	3276 33	3597 22	4999 7	4574 25	3761 25	2369 40
TX84A7608	16	2818 10	3614 20	3795 12	4583 25	4824 18	3927 17	3128 23
OK84349	9	2910 7	3488 25	3886 7	4820 15	4907 15	4002 9	3205 18
C0820026	25	2365 27	3595 23	3449 30	4878 12	4998 10	3857 19	3217 17
TX81V6607-2	24	2109 37	4108 3	3544 25	4959 9	4943 13	3932 16	2139 42
TX81V6582-2	19	2383 26	3921 12	3348 33	5297 2	5015 9	3993 10	3184 19
OK84343	10	3289 2	2911 39	3531 26	4771 16	4655 22	3831 20	2597 37
C0830034	28	2881 8	3635 19	3354 32	5000 6	4864 16	3947 13	3053 26
C0830027	27	2387 24	3291 31	2650 43	4283 34	4699 20	3462 36	3406 12
AGC-111	33	2434 23	3611 21	4091 4	5112 4	5322 3	4114 5	3912 2
TX80A5901-1	14	2598 17	3352 27	3600 21	4721 18	4781 19	3810 22	3574 9
TX81V5581	13	2385 25	3954 8	3633 18	4716 20	5248 4	3987 11	3155 22
OK85347	11	2607 16	3541 24	3273 34	4929 10	4368 31	3744 28	2998 28
KS831374	4	2248 33	3347 28	3473 28	4284 33	4292 35	3529 35	2810 30
NE78488	29	2150 36	3909 14	3964 6	4177 36	3847 39	3610 32	3986 1
KS82C2338	6	2170 35	3309 30	4009 5	4737 17	4537 26	3752 26	2393 39
XH669	40	2674 14	3197 35	3188 36	4145 37	4505 27	3542 34	2715 34
XW141	39	2242 34	3912 13	3262 35	4446 28	4415 29	3655 30	3119 24
RH8606	35	2033 39	3004 38	2914 40	3695 41	4025 36	3134 41	2668 35
NE82533	30	2309 29	3926 10	3749 14	4517 27	4328 34	3766 24	3085 25
OK82377	8	2307 30	3885 15	3470 29	4297 32	4404 30	3673 29	2465 38
TX84V1336	21	2556 20	3204 34	3740 15	4059 39	4634 23	3639 31	2284 41
KS84HW196	7	3071 4	3282 32	3618 20	4259 35	3558 41	3558 33	2722 33
TXGH10989	18	2531 21	2755 41	2924 39	4618 23	4345 32	3435 37	2906 29
C082009	26	1921 43	3043 37	3090 37	4424 29	3920 37	3280 39	3179 20
CI13996	2	2959 6	2886 40	3647 17	3987 40	3665 40	3429 38	3420 11
AGC-106	31	1982 42	2655 43	3361 31	4100 38	3914 38	3202 40	3020 27
TX84V1227	15	2567 19	3102 36	2968 38	3268 42	2658 43	2913 42	1581 43
CI1442	1	2013 41	2724 42	2740 42	2910 43	3315 42	2740 43	2758 31
MEAN		2521	3547	3548	4564	4580	3752	3092
LSD(.05)		642	635	604	568	686	447	846
C.V.		15.6	11.0	10.4	7.6	9.2	10.3	16.8

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	MANHATTAN KANSAS	HAYS KANSAS	COLBY KANSAS	GARDEN CITY KANSAS	HUTCHINSON KANSAS	KANSAS STATE MEAN	AMES IOWA
RH855001	34	4966 5	5103 1	5093 1	1706 14	3047 11	3983 1	3849 34
NA-81-362-5	37	5567 1	4718 7	4284 21	937 41	2939 16	3689 8	5523 3
BOUNTY-205	43	4265 18	4723 6	4315 18	1601 16	3974 1	3775 5	5526 2
TX84V1317	23	5499 2	4552 10	4409 12	1917 8	2789 24	3833 3	4472 21
TXGH13622	22	4609 14	4812 3	4548 6	2210 1	2902 20	3816 4	4208 28
TXGH10563B	20	4479 16	4671 8	4481 8	2013 3	2658 27	3661 9	3632 39
OK85310	12	5387 3	4226 21	4835 2	1805 12	3157 9	3882 2	5532 1
NA-81-171-14	38	4865 7	4882 2	4441 10	1172 34	3095 10	3691 7	5360 6
KS82C2009	5	3540 32	3963 35	3681 37	1202 32	3558 2	3189 29	4212 27
RH8604	36	4935 6	4369 14	4331 16	1466 21	3441 3	3708 6	5418 5
XH682	41	4664 13	4152 27	3901 33	1506 20	2922 18	3429 17	4773 13
AGC-110	32	4237 20	4195 24	4033 29	1576 18	2584 29	3325 26	4486 18
CI17826	3	3057 38	4761 4	4705 3	1903 9	2573 30	3400 18	4900 10
TX78A3345-V34	17	3834 28	4350 15	4407 13	1675 15	2619 28	3377 21	4100 29
BOUNTY-122	42	3635 30	4260 20	4091 26	1166 37	2501 33	3130 32	4477 20
TX84A7608	16	4338 17	4291 18	3909 32	1327 26	2766 26	3326 25	4340 23
OK84349	9	4166 21	4735 5	3815 35	2011 4	3042 12	3554 12	5472 4
C0820026	25	4684 12	4339 16	3959 31	1213 31	2467 34	3332 24	3732 37
TX81V6607-2	24	3957 25	4335 17	4486 7	1755 13	2925 17	3492 14	4302 24
TX81V6582-2	19	3470 34	4515 12	4304 19	1946 7	2512 32	3349 22	3569 42
OK84343	10	4818 8	4576 9	3605 39	1807 11	3296 6	3620 10	5017 8
C0830034	28	3616 31	4074 31	4064 28	1161 38	2894 21	3162 30	4071 32
C0830027	27	4077 22	3989 34	4418 11	1397 24	2830 22	3342 23	4983 9
AGC-111	33	2200 42	4271 19	4387 14	1585 17	1745 42	2838 40	4084 31
TX80A5901-1	14	3845 27	4192 25	4598 5	1565 19	3036 13	3447 16	4564 16
TX81V5581	13	3317 36	4519 11	4474 9	2033 2	2159 41	3300 27	3815 35
OK85347	11	3400 35	4087 30	4602 4	1957 5	2920 19	3393 19	4416 22
KS831374	4	5265 4	4128 28	4154 24	1172 34	3352 4	3614 11	4230 26
NE78488	29	4018 24	3806 37	3623 38	1170 36	3025 14	3128 33	5205 7
KS82C2338	6	4581 15	4060 32	4367 15	1311 27	2977 15	3459 15	3625 40
XH669	40	4709 10	4383 13	3479 40	1022 39	3342 5	3387 20	4804 11
XW141	39	4028 23	3496 41	4302 20	1018 40	2236 38	3016 37	4481 19
RH8606	35	4692 11	3713 38	3913 43	1264 30	2785 25	3094 35	4087 30
NE82533	30	4260 19	3690 40	4199 23	865 42	2444 35	3092 36	4784 12
OK82377	8	4749 9	4217 22	4113 25	1280 28	3210 8	3514 13	4537 17
TX84V1336	21	3683 29	4112 29	4317 17	1957 5	1704 43	3155 31	3717 38
KS84HW196	7	3171 37	4190 26	4282 22	1399 22	2441 36	3096 34	4246 25
TXGH10989	18	2825 39	4202 23	4024 30	1280 28	2237 37	2913 38	3625 41
C082009	26	2716 40	3413 42	3835 34	1399 22	2814 23	2835 41	3354 43
CI13996	2	2540 41	4017 33	4071 27	1374 25	2564 31	2913 39	4687 14
AGC-106	31	3873 26	3692 39	3477 41	782 43	2175 40	2800 42	3876 33
TX84V1227	15	3529 33	3850 36	3685 36	1825 10	3277 7	3233 28	4607 15
CI1442	1	1510 43	2682 43	3291 42	1188 33	2227 39	2179 43	3813 36
MEAN		4037	4217	4149	1486	2794	3337	4430
LSD(.05)		834	552	600	424	482	594	700
C.V.		12.7	8.0	8.9	17.4	10.6	10.9	9.7

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	STILLWATER OKLAHOMA	ALTUS OKLAHOMA	LAHOMA OKLAHOMA	GOODWELL OKLAHOMA	OKLAHOMA STATE MEAN	CLARKTON MISSOURI
RH855001	34	1925 17	1661 15	2386 32	5728 4	2925 11	4145 5
NA-81-362-5	37	2963 2	1213 41	2619 9	5726 5	3130 3	3474 34
BOUNTY-205	43	1693 27	1297 40	2568 14	5750 3	2827 16	4145 6
TX84V1317	23	3203 1	1949 6	2810 3	4979 23	3235 2	4124 10
TXGH13622	22	2340 10	1606 19	2198 37	4908 27	2763 21	3996 20
TXGH10563B	20	1961 15	1986 5	2419 24	5139 17	2876 15	3849 26
OK85310	12	1947 16	1152 42	2623 8	4722 31	2611 33	4137 8
NA-81-171-14	38	2928 3	1568 22	2630 6	4936 24	3015 5	3581 31
KS82C2009	5	1685 28	1631 17	2583 12	4653 34	2638 32	4237 3
RH8604	36	2466 8	1424 32	2510 15	5266 12	2916 12	3919 22
XH682	41	2145 14	1581 21	2484 18	5793 2	3001 6	4063 17
AGC-110	32	2468 7	1439 31	2129 39	5833 1	2967 7	3621 30
CI17826	3	1547 32	1587 20	2137 38	5305 11	2644 30	3342 39
TX78A3345-V34	17	1760 23	2216 3	2570 13	5045 20	2898 13	3867 24
BOUNTY-122	42	1341 39	1567 23	2421 23	5481 8	2703 24	4084 13
TX84A7608	16	1788 20	1817 9	2469 20	5083 18	2789 19	4097 12
OK84349	9	1540 33	2489 1	2982 2	4709 32	2930 10	4051 18
C0820026	25	1677 29	1765 11	2590 11	5692 6	2931 9	3420 35
TX81V6607-2	24	1705 26	1374 36	2510 15	5464 9	2763 20	3375 37
TX81V6582-2	19	1675 30	1653 16	2409 27	4929 25	2667 29	3377 36
OK84343	10	2156 13	2284 2	3053 1	4920 26	3103 4	4407 1
C0830034	28	1497 37	1695 13	2378 33	4039 41	2402 39	4142 7
C0830027	27	1387 38	1630 18	2629 7	5061 19	2677 27	3375 37
AGC-111	33	1506 36	1330 38	2402 28	5010 22	2562 34	4252 2
TX80A5901-1	14	1706 25	1458 30	2413 25	5229 14	2702 25	4188 4
TX81V5581	13	1865 19	1882 8	2449 21	4494 36	2673 28	3933 21
OK85347	11	1766 22	1687 14	2508 17	4862 28	2706 23	4129 9
KS831374	4	2673 4	2036 4	2755 4	5580 7	3261 1	3766 28
NE78488	29	1786 21	1508 28	2631 5	5250 13	2794 18	3683 29
KS82C2338	6	2625 5	1912 7	2426 22	4599 35	2891 14	4099 11
XH669	40	1871 18	1314 39	2411 26	5177 16	2693 26	4004 19
XW141	39	2174 12	1350 37	2026 41	5017 21	2642 31	3054 41
RH8606	35	2450 9	1406 33	2604 10	5346 10	2951 8	4077 14
NE82533	30	2295 11	1395 34	2227 35	4314 39	2558 35	3475 33
OK82377	8	2568 6	1556 24	2389 31	4680 33	2798 17	3882 23
TX84V1336	21	1540 34	1792 10	2393 30	5184 15	2727 22	2949 42
KS84HW196	7	1566 31	1490 29	2398 29	4255 40	2427 38	3557 32
TXGH10989	18	1707 24	1520 27	2206 36	4760 30	2548 36	4069 16
C082009	26	942 42	1388 35	1865 42	4366 38	2140 42	3779 27
CI13996	2	1289 40	1524 26	2046 40	4471 37	2333 40	3130 40
AGC-106	31	1132 41	1754 12	2277 34	4810 29	2493 37	4077 15
TX84V1227	15	1537 35	1541 25	2481 19	3562 42	2280 41	3853 25
CI1442	1	920 43	594 43	1681 43	3352 43	1637 43	2867 43
MEAN		1900	1605	2435	4965	2726	3806
LSD(.05)		472	316	289	727	519	N.S.
C.V.		15.2	12.1	7.3	9.0	10.9	14.3

Table 2. Continued.

C.I. OR SEL. NO.	ENTRY NO.	FARMINGTON NEW MEXICO	CLOVIS (DRYL.) NEW MEXICO	CLOVIS (IRR.) NEW MEXICO	NEW MEXICO STATE MEAN	FORT COLLINS COLORADO	WALSH COLORADO	JULESBURG COLORADO	COLORADO STATE MEAN
RH855001	34	7509 1	4423 15	7096 1	6343 2	9445 1	2712 11	2838 2	4998 1
NA-81-362-5	37	7138 11	4686 12	5282 25	5702 12	8086 19	2215 36	1782 39	4028 31
BOUNTY-205	43	6531 24	4361 18	6083 7	5658 14	8646 7	2285 33	2338 13	4423 10
TX84V1317	23	6746 16	3533 34	5915 9	5398 21	7959 24	2877 7	1864 35	4233 23
TXGH13622	22	6629 22	4907 9	5904 11	5813 9	8415 11	2810 9	2670 5	4632 5
TXGH10563B	20	6218 33	5192 4	5440 22	5617 15	7623 32	2558 16	2898 1	4360 11
OK85310	12	6434 25	3809 28	5617 18	5287 25	8355 12	2399 27	2164 22	4306 18
NA-81-171-14	38	6394 27	4551 13	4488 43	5144 30	7982 22	2889 5	2007 32	4293 21
KS82C2009	5	6981 13	5836 1	5801 14	6206 3	8900 4	2547 17	2493 10	4647 4
RH8604	36	7255 4	4063 23	4902 34	5407 20	7788 28	2884 6	2272 16	4314 16
XH682	41	6316 31	5280 3	6159 6	5919 7	8863 5	2245 35	2210 21	4439 9
AGC-110	32	7157 10	4981 8	5654 17	5931 6	7967 23	2877 8	2042 30	4295 20
CI17826	3	5827 37	5096 7	5854 13	5593 17	8445 9	2955 4	2597 8	4666 3
TX78A3345-V34	17	6668 19	4876 10	6469 4	6004 4	8183 17	2385 28	2475 11	4348 13
BOUNTY-122	42	6962 14	5174 5	5866 12	6001 5	8258 13	2436 25	2806 3	4500 7
TX84A7608	16	7235 6	4293 19	5303 24	5610 16	8445 9	1754 42	2052 29	4084 27
OK84349	9	6590 23	2581 42	5213 26	4795 39	6750 37	2082 39	2062 28	3632 39
CO820026	25	5475 41	5102 6	5126 28	5234 27	9109 2	1674 43	1901 34	4228 24
TX81V6607-2	24	5886 36	3177 39	5485 20	4849 34	8206 15	2335 30	2115 26	4218 25
TX81V6582-2	19	7314 3	3075 40	4839 36	5076 32	7459 33	2454 23	2285 15	4066 30
OK84343	10	5475 41	3731 30	5186 27	4798 38	5958 42	2198 37	2297 14	3485 42
CO830034	28	7216 8	5422 2	6922 2	6520 1	8833 6	2342 29	1730 40	4302 19
CO830027	27	7177 9	4025 25	6524 3	5909 8	9027 3	2968 3	2118 25	4704 2
AGC-111	33	7235 6	3726 31	4945 32	5302 24	8258 13	2629 14	2448 12	4445 8
TX80A5901-1	14	6727 17	4164 20	5122 29	5337 22	8019 21	2682 13	2239 18	4313 17
TX81V5581	13	6707 18	2732 41	4827 37	4755 41	8579 8	2185 38	2789 4	4518 6
OK85347	11	6649 20	3880 26	5925 8	5484 19	8124 18	2259 34	2608 7	4330 15
KS831374	4	5671 40	4150 21	5581 19	5134 31	6055 41	3168 1	2230 19	3818 37
NE78488	29	7255 4	4388 17	5006 31	5549 18	7862 27	2494 20	1696 41	4018 32
KS82C2338	6	6277 32	3504 35	4712 41	4831 37	7698 30	2495 19	2527 9	4240 22
XH669	40	6179 34	4080 22	5693 16	5317 23	7937 25	2327 32	2242 17	4169 26
XW141	39	6942 15	4443 14	5914 10	5766 10	6966 36	2463 22	2228 20	3886 34
RH8606	35	6316 30	3848 27	5346 23	5170 28	7780 29	2031 40	1808 38	3873 35
NE82533	30	7001 12	3712 32	4792 39	5168 29	6391 38	2565 15	1821 36	3592 40
OK82377	8	6355 28	3209 38	4936 33	4833 36	7638 31	2448 24	2112 27	4066 29
TX84V1336	21	7490 2	3439 36	4804 38	5244 26	7937 25	2410 26	1222 42	3856 36
KS84HW196	7	5749 39	4042 24	4745 40	4845 35	7056 35	3011 2	2137 23	4068 28
TXGH10989	18	6101 35	3302 37	4884 35	4762 40	8042 20	2332 31	2666 6	4346 14
CO82009	26	6414 26	4406 16	6183 5	5668 13	8191 16	2757 10	2131 24	4360 11
CI13996	2	6649 20	4832 11	5754 15	5745 11	6257 39	2698 12	1983 33	3646 38
AGC-106	31	6336 29	3671 33	4563 42	4856 33	6138 40	2544 18	1818 37	3500 41
TX84V1227	15	5808 38	2496 43	5469 21	4591 42	7392 34	2480 21	2024 31	3966 33
CI1442	1	4869 43	3769 29	5017 30	4552 43	4585 43	1897 41	857 43	2446 43
MEAN		6555	4139	5473	5389	7805	2483	2177	4155
LSD(.05)		983	764	953	945	808	N.S.	420	950
C.V.		10.7	11.3	10.7	11.1	6.3	20.2	11.8	10.4

Table 2. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	CASSELTON N. DAKOTA	URBANA ILLINOIS	ABERDEEN IDAHO	ROCKLAND* IDAHO	LIND* WASHINGTON	REGIONAL AVERAGE
RH855001	34	4334 9	5987 8	7911 10	3941 18	1166 17	4349 1
NA-81-362-5	37	4984 1	6252 6	8805 3	3517 25	1032 23	4235 2
BOUNTY-205	43	4110 13	5696 19	6954 22	3295 28	1143 19	4198 3
TX84V1317	23	3601 19	4963 34	7303 15	4311 7	841 34	4148 4
TXGH13622	22	3619 18	5754 18	7084 17	3369 26	1139 20	4147 5
TXGH10563B	20	3516 21	6189 7	8153 6	4270 10	1298 12	4135 6
OK85310	12	4095 14	5573 22	6786 26	2818 39	1302 11	4062 7
NA-81-171-14	38	4038 16	6339 3	7043 20	3241 30	760 39	4052 8
KS82C2009	5	3128 26	5409 25	8693 4	3981 16	1935 1	4045 9
RH8604	36	4522 5	4965 33	6808 25	4317 6	1226 15	4038 10
XH682	41	4344 8	5819 14	5588 36	3820 21	1468 7	4028 11
AGC-110	32	4188 12	5909 10	7265 16	4486 3	937 30	4010 12
CI17826	3	4071 15	5875 12	8139 7	4284 8	973 26	4007 13
TX78A3345-V34	17	3232 24	5068 31	7900 11	3860 20	1341 9	4003 14
BOUNTY-122	42	2911 31	5914 9	8873 2	3719 23	1267 14	3976 15
TX84A7608	16	3086 28	5898 11	7944 9	4237 12	1307 10	3966 16
OK84349	9	2811 32	6492 2	6996 21	3087 35	906 31	3955 17
C0820026	25	3216 25	5436 24	9083 1	4116 15	1175 16	3941 18
TX81V6607-2	24	3095 27	5586 21	8104 8	4270 10	820 35	3915 19
TX81V6582-2	19	1265 41	6779 1	8604 5	4190 13	780 36	3883 20
OK84343	10	2685 33	5474 23	7066 18	3167 32	944 28	3878 21
C0830034	28	4302 10	3981 39	6378 31	4371 5	1475 6	3863 22
C0830027	27	3339 23	5259 28	5033 42	3793 22	1009 24	3856 23
AGC-111	33	4649 3	4943 35	5718 35	5172 1	773 38	3853 24
TX80A5901-1	14	3444 22	5275 27	5380 38	3961 17	1284 13	3850 25
TX81V5581	13	2436 36	5239 29	6877 23	4156 14	778 37	3846 26
OK85347	11	1781 37	4663 36	6434 30	3053 36	1152 18	3840 27
KS831374	4	2658 34	6263 5	7312 14	3315 27	612 42	3839 28
NE78488	29	4925 2	4022 38	7055 19	2851 38	1128 21	3823 29
KS82C2338	6	2994 30	5378 26	6669 27	4277 9	845 33	3764 30
XH669	40	3886 17	5804 16	5299 39	2751 40	1343 8	3750 31
XW141	39	4530 4	5819 14	6481 28	4492 2	623 41	3696 32
RH8606	35	1415 39	6295 4	7321 13	3894 19	984 25	3667 33
NE82533	30	4500 6	5149 30	6241 33	3161 33	659 40	3663 34
OK82377	8	1359 40	4985 32	5541 37	2643 41	1060 22	3653 35
TX84V1336	21	1481 38	3419 43	6812 24	4459 4	890 32	3572 36
KS84HW196	7	3027 29	4239 37	6037 34	3154 34	464 43	3553 37
TXGH10989	18	683 42	5588 20	6328 32	3275 29	944 28	3540 38
C082009	26	4436 7	3948 40	6445 29	3188 31	1722 3	3496 39
CI13996	2	3595 20	3450 42	5140 40	2858 37	1627 4	3441 41
AGC-106	31	2585 35	5828 13	7362 12	3524 24	957 27	3441 40
TX84V1227	15	632 43	5766 17	5100 41	2609 42	1488 5	3360 42
CI1442	1	4294 11	3712 41	2488 43	1627 43	1735 2	2644 43
MEAN		3298	5358	6850	3648	1101	3837
LSD(.05)		1221	678	1416	--	441	278
C.V.		22.7	7.8	12.7	--	24.5	11.6

* Not included in regional averages.

Table 3. Summary of mean yields (kg/ha) and ranks of 43 wheats grown in the 1987 Southern Regional Performance Nursery at 20 locations from the Midwest from which a CV of 13 or less and a significant F test for entries were obtained.

C.I. QR SEL. NO.	: ENTRY : : NO. :	: BUSHLAND : : (DRYL.) : : TEXAS :	: BUSHLAND : : (IRR.) : : TEXAS :	: CHILLI- : : COTHE : : TEXAS :	: DALLAS : : TEXAS :	: FARMINGTON : : NEW MEXICO :	: CLOVIS : : (DRYL.) : : NEW MEXICO :	: CLOVIS : : (IRR.) : : NEW MEXICO :
RH855001	34	3495 22	4492 16	2076 21	4019 11	7509 1	4423 15	7096 1
BOUNTY-205	43	3719 13	4631 8	1946 26	4054 10	6531 24	4361 18	6083 7
TX84V1317	23	3927 3	4761 5	2491 2	4139 7	6746 16	3533 34	5915 9
TXGH13622	22	3660 15	4416 21	2244 8	3632 22	6629 22	4907 9	5904 11
TXGH10563B	20	3729 12	4474 17	2239 9	3854 15	6218 33	5192 4	5440 22
NA-81-362-5	37	3209 34	4833 3	2136 16	3728 18	7138 11	4686 12	5282 25
XH682	41	3632 16	4099 30	2188 12	4014 12	6316 31	5280 3	6159 6
TX78A3345-V34	17	3847 7	4456 18	2421 3	3538 25	6668 19	4876 10	6469 4
KS82C2009	5	3125 35	4310 24	2130 17	3594 24	6981 13	5836 1	5801 14
BOUNTY-122	42	3531 19	4200 28	1861 32	4305 4	6962 14	5174 5	5866 12
C0820026	25	3672 14	4335 22	2403 5	3650 20	5475 41	5102 6	5126 28
OK85310	12	3611 17	4573 10	1899 27	3600 23	6434 25	3809 28	5617 18
RH8604	36	3350 30	4335 22	1885 29	3843 16	7255 4	4063 23	4902 34
TX81V6607-2	24	3865 6	4777 4	2224 10	4612 1	5886 36	3177 39	5485 20
TX84A7608	16	3776 9	4204 27	2338 6	3676 19	7235 6	4293 19	5303 24
NA-81-171-14	38	3370 28	4431 20	2109 18	3934 13	6394 27	4551 13	4488 43
OK85347	11	3907 4	4952 1	2056 22	3899 14	6649 20	3880 26	5925 8
C0830027	27	3845 8	4676 6	1787 34	3404 30	7177 9	4025 25	6524 3
AGC-110	32	3484 23	3940 36	1704 36	3304 32	7157 10	4981 8	5654 17
C0830034	28	3234 33	3704 39	1959 25	3448 27	7216 8	5422 2	6922 2
CI17826	3	3384 26	4028 34	1975 24	3192 36	5827 37	5096 7	5854 13
TX81V5581	13	3747 10	4867 2	2538 1	3813 17	6707 18	2732 41	4827 37
TX81V6582-2	19	3736 11	4570 11	2219 11	4373 3	7314 3	3075 40	4839 36
OK84349	9	3377 27	4546 13	2419 4	4495 2	6590 23	2581 42	5213 26
TX80A5901-1	14	3499 21	4543 14	1704 36	3281 33	6727 17	4164 20	5122 29
AGC-111	33	3887 5	4557 12	2089 19	3234 35	7235 6	3726 31	4945 32
OK84343	10	3520 20	4638 7	2181 13	4252 5	5475 41	3731 30	5186 27
KS82C2338	6	3408 25	4270 25	2087 20	3154 37	6277 32	3504 35	4712 41
KS831374	4	2888 40	4034 32	2152 15	3435 28	5671 40	4150 21	5581 19
OK82377	8	2888 40	4131 29	1894 28	4086 8	6355 28	3209 38	4936 33
NE78488	29	3033 37	3911 37	1661 39	3639 21	7255 4	4388 17	5006 31
XH669	40	2932 39	4032 33	1881 30	3266 34	6179 34	4080 22	5693 16
TX84V1336	21	3595 18	4595 9	2056 22	4066 9	7490 2	3439 36	4804 38
RH8606	35	3973 2	4501 15	2163 14	3430 29	6316 30	3848 27	5346 23
XW141	39	3253 32	3588 40	1760 35	1914 42	6942 15	4443 14	5914 10
TXGH10989	18	3448 24	4209 26	1863 31	4234 6	6101 35	3302 37	4884 35
NE82533	30	3048 36	3989 35	1664 38	3145 38	7001 12	3712 32	4792 39
KS84HW196	7	3352 29	4045 31	2304 7	3355 31	5749 39	4042 24	4745 40
C082009	26	2679 43	3271 41	1648 40	2939 40	6414 26	4406 16	6183 5
CI13996	2	3324 31	3110 42	1533 42	2621 41	6649 20	4832 11	5754 15
TX84V1227	15	3988 1	4447 19	1852 33	3460 26	5808 38	2496 43	5469 21
AGC-106	31	2955 38	3853 38	1612 41	3014 39	6336 29	3671 33	4563 42
CI1442	1	2759 42	1737 43	998 43	1757 43	4869 43	3769 29	5017 30
MEAN		3457	4234	2008	3591	6555	4139	5473
LSD(.05)		326	562	300	493	983	764	953
C.V.		6.7	8.1	9.2	8.4	10.7	11.3	10.7

Table 3. Continued.

C.I. OR SEL. NO.	ENTRY NO.	MANHATTAN KANSAS	HAYS KANSAS	COLBY KANSAS	HUTCHINSON KANSAS	ALTUS OKLAHOMA	LAHOMA OKLAHOMA	GOODWELL OKLAHOMA
RH855001	34	4966 5	5103 1	5093 1	3047 11	1661 15	2386 32	5728 4
BOUNTY-205	43	4265 18	4723 6	4315 18	3974 1	1297 40	2568 14	5750 3
TX84V1317	23	5499 2	4552 10	4409 12	2789 24	1949 6	2810 3	4979 23
TXGH13622	22	4609 14	4812 3	4548 6	2902 20	1606 19	2198 37	4908 27
TXGH10563B	20	4479 16	4671 8	4481 8	2658 27	1986 5	2419 24	5139 17
NA-81-362-5	37	5567 1	4718 7	4284 21	2939 16	1213 41	2619 9	5726 5
XH682	41	4664 13	4152 27	3901 33	2922 18	1581 21	2484 18	5793 2
TX78A3345-V34	17	3834 28	4350 15	4407 13	2619 28	2216 3	2570 13	5045 20
KS82C2009	5	3540 32	3963 35	3681 37	3558 2	1631 17	2583 12	4653 34
BOUNTY-122	42	3635 30	4260 20	4091 26	2501 33	1567 23	2421 23	5481 8
C0820026	25	4684 12	4339 16	3959 31	2467 34	1765 11	2590 11	5692 6
OK85310	12	5387 3	4226 21	4835 2	3157 9	1152 42	2623 8	4722 31
RH8604	36	4935 6	4369 14	4331 16	3441 3	1424 32	2510 15	5266 12
TX81V6607-2	24	3957 25	4335 17	4486 7	2925 17	1374 36	2510 15	5464 9
TX84A7608	16	4338 17	4291 18	3909 32	2766 26	1817 9	2469 20	5083 18
NA-81-171-14	38	4865 7	4882 2	4441 10	3095 10	1568 22	2630 6	4936 24
OK85347	11	3400 35	4087 30	4602 4	2920 19	1687 14	2508 17	4862 28
C0830027	27	4077 22	3989 34	4418 11	2830 22	1630 18	2629 7	5061 19
AGC-110	32	4237 20	4195 24	4033 29	2584 29	1439 31	2129 39	5833 1
C0830034	28	3616 31	4074 31	4064 28	2894 21	1695 13	2378 33	4039 41
CI17826	3	3057 38	4761 4	4705 3	2573 30	1587 20	2137 38	5305 11
TX81V5581	13	3317 36	4519 11	4474 9	2159 41	1882 8	2449 21	4494 36
TX81V6582-2	19	3470 34	4515 12	4304 19	2512 32	1653 16	2409 27	4929 25
OK84349	9	4166 21	4735 5	3815 35	3042 12	2489 1	2982 2	4709 32
TX80A5901-1	14	3845 27	4192 25	4598 5	3036 13	1458 30	2413 25	5229 14
AGC-111	33	2200 42	4271 19	4387 14	1745 42	1330 38	2402 28	5010 22
OK84343	10	4818 8	4576 9	3605 39	3296 6	2284 2	3053 1	4920 26
KS82C2338	6	4581 15	4060 32	4367 15	2977 15	1912 7	2426 22	4599 35
KS831374	4	5265 4	4128 28	4154 24	3352 4	2036 4	2755 4	5580 7
OK82377	8	4749 9	4217 22	4113 25	3210 8	1556 24	2389 31	4680 33
NE78488	29	4018 24	3806 37	3623 38	3025 14	1508 28	2631 5	5250 13
XH669	40	4709 10	4383 13	3479 40	3342 5	1314 39	2411 26	5177 16
TX84V1336	21	3683 29	4112 29	4317 17	1704 43	1792 10	2393 30	5184 15
RH8606	35	4692 11	3713 38	3013 43	2785 25	1406 33	2604 10	5346 10
XW141	39	4028 23	3496 41	4302 20	2236 38	1350 37	2026 41	5017 21
TXGH10989	18	2825 39	4202 23	4024 30	2237 37	1520 27	2206 36	4760 30
NE82533	30	4260 19	3690 40	4199 23	2444 35	1395 34	2227 35	4314 39
KS84HW196	7	3171 37	4190 26	4282 22	2441 36	1490 29	2398 29	4255 40
C082009	26	2716 40	3413 42	3835 34	2814 23	1388 35	1865 42	4366 38
CI13996	2	2540 41	4017 33	4071 27	2564 31	1524 26	2046 40	4471 37
TX84V1227	15	3529 33	3850 36	3685 36	3277 7	1541 25	2481 19	3562 42
AGC-106	31	3873 26	3692 39	3477 41	2175 40	1754 12	2277 34	4810 29
CI1442	1	1510 43	2682 43	3291 42	2227 39	594 43	1681 43	3352 43
MEAN		4037	4217	4149	2794	1605	2435	4965
LSD(.05)		834	552	600	482	316	289	727
C.V.		12.7	8.0	8.9	10.6	12.1	7.3	9.0

Table 3. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	CLAY CENTER NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	ALLIANCE NEBRASKA	FORT COLLINS COLORADO	JULESBURG COLORADO	REGIONAL AVERAGE
RH855001	34	4044 4	3824 10	5084 5	5797 1	9445 1	2838 2	4606 1
BOUNTY-205	43	3926 10	4212 2	4718 19	5065 7	8646 7	2338 13	4356 2
TX84V1317	23	4396 1	3793 13	4608 24	4998 10	7959 24	1864 35	4306 3
TXGH13622	22	3596 22	4170 3	5500 1	4678 21	8415 11	2670 5	4300 4
TXGH10563B	20	3770 17	4368 1	5152 3	5132 5	7623 32	2898 1	4296 5
NA-81-362-5	37	3967 7	3666 16	4543 26	5079 6	8086 19	1782 39	4260 6
XH682	41	3423 26	3628 19	4686 21	4941 14	8863 5	2210 21	4247 7
TX78A3345-V34	17	3328 29	3517 27	4637 22	4497 28	8183 17	2475 11	4198 8
KS82C2009	5	4168 2	3596 23	4403 30	4623 24	8900 4	2493 10	4178 9
BOUNTY-122	42	3276 33	3597 22	4999 7	4574 25	8258 13	2806 3	4168 10
C0820026	25	3595 23	3449 30	4878 12	4998 10	9109 2	1901 34	4159 11
OK85310	12	4027 5	2866 41	4908 11	5052 8	8355 12	2164 22	4151 13
RH8604	36	4007 6	3867 8	4848 13	4334 33	7788 28	2272 16	4151 12
TX81V6607-2	24	4108 3	3544 25	4959 9	4943 13	8206 15	2115 26	4148 14
TX84A7608	16	3614 20	3795 12	4583 25	4824 18	8445 9	2052 29	4141 15
NA-81-171-14	38	3788 16	3561 24	4826 14	4854 17	7982 22	2007 32	4136 16
OK85347	11	3541 24	3273 34	4929 10	4368 31	8124 18	2608 7	4109 17
C0830027	27	3291 31	2650 43	4283 34	4699 20	9027 3	2118 25	4107 19
AGC-110	32	3937 9	3835 9	4361 31	5327 2	7967 23	2042 30	4107 18
C0830034	28	3635 19	3354 32	5000 6	4864 16	8833 6	1730 40	4104 20
CI17826	3	3710 18	3804 11	4979 8	4996 12	8445 9	2597 8	4101 21
TX81V5581	13	3954 8	3633 18	4716 20	5248 4	8579 8	2789 4	4072 22
TX81V6582-2	19	3921 12	3348 33	5297 2	5015 9	7459 33	2285 15	4062 23
OK84349	9	3488 25	3886 7	4820 15	4907 15	6750 37	2062 28	4054 24
TX80A5901-1	14	3352 27	3600 21	4721 18	4781 19	8019 21	2239 18	4026 25
AGC-111	33	3611 21	4091 4	5112 4	5322 3	8258 13	2448 12	3993 26
OK84343	10	2911 39	3531 26	4771 16	4655 22	5958 42	2297 14	3983 27
KS82C2338	6	3309 30	4009 5	4737 17	4537 26	7698 30	2527 9	3958 28
KS831374	4	3347 28	3473 28	4284 33	4292 35	6055 41	2230 19	3943 29
OK82377	8	3885 15	3470 29	4297 32	4404 30	7638 31	2112 27	3911 30
NE78488	29	3909 14	3964 6	4177 36	3847 39	7862 27	1696 41	3910 31
XH669	40	3197 35	3188 36	4145 37	4505 27	7937 25	2242 17	3905 32
TX84V1336	21	3204 34	3740 15	4059 39	4634 23	7937 25	1222 42	3901 33
RH8606	35	3004 38	2914 40	3695 41	4025 36	7780 29	1808 38	3818 34
XW141	39	3912 13	3262 35	4446 28	4415 29	6966 36	2228 20	3775 35
TXGH10989	18	2755 41	2924 39	4618 23	4345 32	8042 20	2666 6	3758 36
NE82533	30	3926 10	3749 14	4517 27	4328 34	6391 38	1821 36	3731 37
KS84HW196	7	3282 32	3618 20	4259 35	3558 41	7056 35	2137 23	3686 38
C082009	26	3043 37	3090 37	4424 29	3920 37	8191 16	2131 24	3637 39
CI13996	2	2886 40	3647 17	3987 40	3665 40	6257 39	1983 33	3574 40
TX84V1227	15	3102 36	2968 38	3268 42	2658 43	7392 34	2024 31	3543 41
AGC-106	31	2655 43	3361 31	4100 38	3914 38	6138 40	1818 37	3502 42
CI1442	1	2724 42	2740 42	2910 43	3315 42	4585 43	857 43	2669 43
MEAN		3547	3548	4564	4580	7805	2177	3994
LSD(.05)		635	604	568	686	808	420	295
C.V.		11.0	10.4	7.6	9.2	6.3	11.8	10.0

Table 4. Summary of mean yields (kg/ha) and ranks for 18 wheats grown in the Southern Regional Performance Nursery at 26 sites in 1986 and 1987 with state means and ranks.

VARIETY OR PEDIGREE	: : C.I. OR : SEL. NO.	: : ENTRY: : NO. :	: CLAY : CENTER : NEBRASKA	: NORTH : PLATTE : NEBRASKA	: : SIDNEY : NEBRASKA	: : ALLIANCE : NEBRASKA	: : NEBRASKA : STATE MEAN :
OK1125A/HW76-1226	NA-81-362-5	37	3118 2	4169 1	4606 3	4099 9	3998 2
WINTER WHEAT HYBRID	RH855001	34	2846 5	3620 4	4417 5	4676 1	3890 3
BOUNTY HYBRID WHEAT	BOUNTY-205	43	3244 1	3874 3	4642 2	4531 2	4073 1
MEX DW/BACA//VONA	C0820026	25	2423 11	3202 13	4951 1	4476 4	3763 5
WRR*5/AGENT//AURORA/3/CTK 78	NE78488	29	3019 3	4096 2	4319 8	3874 12	3827 4
OK1125A/HW76-1226	NA-81-171-14	38	2998 4	3432 9	4199 11	3983 11	3653 9
WINTER WHEAT COMPOSITE	KS82C2009	5	2505 9	3587 6	4474 4	4169 7	3684 7
EXPERIMENTAL LINE	AGC-110	32	2437 10	3134 14	4041 12	4484 3	3524 11
TAM-105	CI17826	3	2705 7	3371 10	4367 7	4340 6	3696 6
TX73V203*3/AMIGO	TX81V5581	13	2794 6	3608 5	4241 9	4073 10	3679 8
MV-69-12/TAM W-103	TX84A7608	16	2393 12	3094 15	3985 13	4442 5	3478 12
TAM W-101/CTK//AMIGO	TX80A5901-1	14	2391 13	3577 7	4413 6	4158 8	3635 10
PLAINSMAN V/3/KAW/ATL50//PKR*5/AG	KS831374	4	2348 14	3230 12	4207 10	3855 13	3410 13
AMIGO SIB/2*NEWTON	OK82377	8	2659 8	2984 16	3883 14	3352 16	3219 14
EXPERIMENTAL LINE	AGC-106	31	1841 17	3492 8	3795 15	3618 15	3186 16
SCOUT 66	CI13996	2	2298 15	3230 11	3638 16	3635 14	3200 15
TX68D5194/OSAGE	TX84V1227	15	1899 16	2657 17	3582 17	2599 18	2684 17
KHARKOF	CI1442	1	1836 18	2345 18	2903 18	3197 17	2570 18
MEAN			2542	3365	4148	3979	3509
LSD(.05)			822	870	903	N.S.	590
C.V.			13.5	13.6	9.9	10.4	11.7

Table 4. Continued.

C.I. OR SEL. NO.	: ENTRY: NO.	: DALLAS TEXAS	: CHILLI- COTHE TEXAS	: BUSHLAND (IRR.) TEXAS	: BUSHLAND (DRYL.) TEXAS	: TEXAS STATE MEAN	: CLOVIS (IRR.) NEW MEXICO	: CLOVIS (DRYL.) NEW MEXICO	: FARMINGTON NEW MEXICO	: NEW MEXICO STATE MEAN
NA-81-362-5	37	2695 6	2192 10	5781 1	2320 13	3247 3	5645 4	2985 10	7037 4	5222 6
RH855001	34	2944 4	2381 4	5064 8	2593 6	3246 4	6493 1	3455 5	6645 6	5531 3
BOUNTY-205	43	2899 5	2154 11	5304 3	2686 2	3261 2	5612 5	3213 8	7011 5	5279 4
C0820026	25	2638 7	2432 3	5105 7	2670 3	3211 5	5396 6	3796 3	5994 11	5062 8
NE78488	29	2596 9	2068 13	4809 12	2294 14	2942 13	5087 9	3162 9	7047 2	5099 7
NA-81-171-14	38	3028 3	2455 2	4792 13	2349 12	3156 6	4777 11	3330 7	5884 12	4663 10
KS82C2009	5	2365 13	2288 6	4917 9	2375 11	2986 11	5270 8	3979 1	7374 1	5541 2
AGC-110	32	2258 14	1983 15	5134 6	2497 7	2968 12	5712 3	3897 2	7039 3	5549 1
CI17826	3	2129 15	2194 9	4707 14	2422 9	2863 14	5717 2	3793 4	6292 10	5267 5
TX81V5581	13	3196 1	2660 1	5343 2	2657 4	3464 1	4249 17	2138 18	6390 8	4259 16
TX84A7608	16	2600 8	2374 5	4899 10	2655 5	3132 7	4605 15	2673 13	6451 7	4576 12
TX80A5901-1	14	2483 10	2001 14	5220 4	2465 8	3042 10	4734 12	2945 11	6335 9	4672 9
KS831374	4	2438 11	2216 7	4326 16	2140 17	2780 15	4725 13	2771 12	5400 17	4299 15
OK82377	8	3112 2	2200 8	4860 11	2143 16	3079 9	4695 14	2655 14	5661 14	4337 14
AGC-106	31	1919 16	1937 16	4442 15	2155 15	2613 16	3994 18	2455 16	5488 16	3979 17
CI13996	2	1881 17	1805 17	3867 17	2395 10	2487 17	4812 10	3419 6	5742 13	4658 11
TX84V1227	15	2424 12	2111 12	5143 5	2833 1	3127 8	5374 7	2308 17	5574 15	4419 13
CI1442	1	976 18	1389 18	2385 18	1888 18	1659 18	4395 16	2603 15	4568 18	3855 18
MEAN		2477	2158	4783	2419	2959	5072	3088	6218	4793
LSD(.05)		465	364	615	404	453	1204	N.S.	1417	889
C.V.		10.3	9.4	6.8	8.1	8.4	9.2	16.6	14.0	13.8

Table 4. Continued.

C.I. OR SEL. NO.	: : NO. :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :	: : KANSAS :
NA-81-362-5	37	4000 6	5131 3	4304 4	3515 5	1331 16	3656 4	7517 1	5116 1	1380 9				
RH855001	34	4038 5	4713 8	4519 1	4060 1	1766 3	3819 1	6360 7	4592 4	1072 14				
BOUNTY-205	43	4491 1	4759 7	4352 3	3284 9	1719 5	3721 2	5917 11	4962 2	1506 5				
CO820026	25	3704 9	5200 2	4212 5	3313 8	1569 9	3600 5	7137 2	4270 7	1438 7				
NE78488	29	4101 2	4786 6	4091 9	2987 13	1530 11	3499 8	6257 8	4871 3	1230 12				
NA-81-171-14	38	3926 7	5217 1	4391 2	3425 6	1406 13	3673 3	6519 6	4356 6	1010 16				
KS82C2009	5	3912 8	4131 11	3666 16	2906 15	1399 14	3203 13	6742 4	4166 8	2085 1				
AGC-110	32	3133 16	3514 15	3936 12	3377 7	1654 6	3123 15	7082 3	4472 5	1077 13				
CI17826	3	3087 17	3154 16	4136 7	3746 3	1779 2	3180 14	6620 5	3944 11	1386 8				
TX81V5581	13	3664 12	4190 9	4186 6	3739 4	2012 1	3558 6	5782 12	3733 14	1068 15				
TX84A7608	16	3460 13	4077 12	4083 10	3198 12	1586 8	3281 12	5661 13	3880 12	1524 4				
TX80A5901-1	14	3682 11	4065 13	4021 11	3890 2	1613 7	3454 9	5076 15	3971 10	1235 11				
KS831374	4	3683 10	4954 5	3898 14	3249 10	1339 15	3424 10	6075 10	3600 15	823 18				
OK82377	8	4057 3	5127 4	4102 8	2821 16	1509 12	3523 7	5229 14	3177 17	1256 10				
AGC-106	31	3264 15	4188 10	3620 17	2610 17	1192 18	2975 16	6111 9	3758 13	973 17				
CI13996	2	3400 14	2905 17	3899 13	2959 14	1545 10	2942 17	4177 16	4127 9	1463 6				
TX84V1227	15	4049 4	3969 14	3787 15	3201 11	1734 4	3348 11	3991 17	2767 18	1561 2				
CI1442	1	2447 18	1405 18	2616 18	2239 18	1200 17	1982 18	3373 18	3538 16	1530 3				
MEAN		3672	4194	3990	3251	1549	3331	5868	4072	1312				
LSD(.05)		N.S.	1315	648	622	N.S.	662	2206	N.S.	513				
C.V.		9.1	11.0	7.6	10.6	15.5	10.4	13.1	17.7	19.9				

* Not included in regional averages.

Table 4. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	ALTUS OKLAHOMA	STILLWATER OKLAHOMA	GOODWELL OKLAHOMA	LAHOMA OKLAHOMA	OKLAHOMA STATE MEAN	PRESHO S. DAKOTA	FORT COLLINS COLORADO	URBANA ILLINOIS	REGIONAL AVERAGE
NA-81-362-5	37	1741 14	3252 1	5135 3	3199 7	3332 1	3167 2	6891 10	5819 1	4191 1
RH855001	34	1832 8	2427 11	5341 1	2854 13	3113 7	3204 1	7618 2	5315 2	4151 2
BOUNTY-205	43	1783 11	2701 6	5162 2	3198 8	3211 4	2765 6	6955 7	5087 6	4092 3
C0820026	25	1748 12	2271 13	4969 6	3377 3	3091 8	2250 15	7596 3	3533 16	3929 4
NE78488	29	1862 7	2704 5	4809 9	3407 2	3196 5	3016 3	6914 9	4277 10	3919 5
NA-81-171-14	38	1822 9	3056 2	4644 11	3514 1	3259 3	2894 5	6084 14	5302 3	3911 6
KS82C2009	5	1894 5	2428 10	4517 12	3018 11	2964 12	2611 7	7672 1	3940 12	3852 7
AGC-110	32	1625 17	2634 8	5040 4	2591 16	2973 11	2303 14	6977 4	5128 5	3843 8
CI17826	3	1679 16	2150 15	4903 7	2604 15	2834 15	2442 13	6973 5	5160 4	3777 9
TX81V5581	13	1992 2	2436 9	4497 13	3228 6	3038 10	2541 11	6940 8	3880 13	3767 10
TX84A7608	16	1877 6	2680 7	4736 10	3294 4	3147 6	2546 10	6960 6	4732 8	3718 11
TX80A5901-1	14	1803 10	2342 12	5038 5	2623 14	2951 13	2977 4	6380 12	4441 9	3706 12
KS831374	4	1971 4	3015 3	4891 8	3260 5	3284 2	2508 12	5064 16	5015 7	3607 13
OK82377	8	1991 3	2807 4	4280 16	3136 9	3053 9	1652 17	6321 13	3170 17	3503 14
AGC-106	31	1731 15	2002 16	4465 14	2934 12	2783 16	2548 9	4912 17	4234 11	3308 15
CI13996	2	1744 13	1842 17	4351 15	2590 17	2632 17	2579 8	5883 15	3651 14	3295 16
TX84V1227	15	1993 1	2240 14	4239 17	3054 10	2882 14	926 18	6686 11	2899 18	3281 17
CI1442	1	911 18	1366 18	3319 18	2071 18	1917 18	2206 16	4635 18	3574 15	2535 18
MEAN		1778	2464	4685	2997	2981	2504	6526	4398	3689
LSD(.05)		N.S.	786	N.S.	535	447	597	1518	N.S.	311
C.V.		9.5	12.7	6.8	7.5	8.9	11.7	7.5	10.4	12.0

Table 5. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 43 entries in the 1987 Southern Regional Performance Nursery grown at 32 locations.

C.I. OR SEL. NO.	: ENTRY: NO. :	: MEAN YIELD : OVER 32 : LOCATIONS : KG/HA :	: REGRESSION : COEFFICIENT : (b) :	: CORRELATION : COEFFICIENT : (r) :	: COEFFICIENT : OF : DETERMINATION : (r ²) :
RH855001	34	4349	1.23	0.98	0.96
NA-81-362-5	37	4235	1.16	0.95	0.91
BOUNTY-205	43	4198	1.07	0.98	0.96
TX84V1317	23	4148	0.95	0.96	0.92
TXGH13622	22	4147	1.01	0.98	0.96
TXGH105638	20	4135	1.00	0.96	0.93
OK85310	12	4062	1.03	0.96	0.93
NA-81-171-14	38	4052	1.00	0.96	0.92
KS82C2009	5	4045	1.14	0.96	0.92
RH8604	36	4038	0.98	0.97	0.93
XH682	41	4028	1.03	0.96	0.92
AGC-110	32	4010	1.08	0.98	0.96
CI17826	3	4007	1.09	0.96	0.92
TX78A3345-V34	17	4003	1.05	0.98	0.96
BOUNTY-122	42	3976	1.20	0.97	0.95
TX84A7608	16	3966	1.13	0.99	0.98
OK84349	9	3955	0.91	0.93	0.86
C0820026	25	3941	1.17	0.95	0.91
TX81V6607-2	24	3915	1.08	0.96	0.92
TX81V6582-2	19	3883	1.10	0.93	0.86
OK84343	10	3878	0.80	0.92	0.85
C0830034	28	3863	1.08	0.94	0.88
C0830027	27	3856	1.06	0.95	0.90
AGC-111	33	3853	0.99	0.92	0.85
TX80A5901-1	14	3850	0.96	0.97	0.95
TX81V5581	13	3846	0.99	0.95	0.90
OK85347	11	3840	0.98	0.96	0.92
KS831374	4	3839	0.87	0.93	0.86
NE78488	29	3823	1.01	0.94	0.88
KS82C2338	6	3764	0.92	0.97	0.94
XH669	40	3750	0.97	0.96	0.92
XW141	39	3696	1.01	0.95	0.90
RH8606	35	3667	1.05	0.94	0.89
NE82533	30	3663	0.91	0.95	0.91
OK82377	8	3653	0.91	0.94	0.88
TX84V1336	21	3572	1.02	0.93	0.86
KS84HW196	7	3553	0.82	0.97	0.94
TXGH10989	18	3540	0.99	0.93	0.87
C082009	26	3496	1.01	0.94	0.88
CI13996	2	3441	0.81	0.90	0.81
AGC-106	31	3441	0.97	0.96	0.92
TX84V1227	15	3360	0.85	0.86	0.74
CI1442	1	2644	0.60	0.76	0.58

Table 6. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 18 entries in the 1986 and 1987 Southern Regional Performance Nurseries grown at 26 locations:

C.I. OR SEL. NO.	: ENTRY: NO.	: MEAN YIELD : OVER 26 : LOCATIONS : KG/HA :	: REGRESSION : COEFFICIENT : (b) :	: CORRELATION : COEFFICIENT : (r) :	: COEFFICIENT : OF : DETERMINATION : (r ²) :
NA-81-362-5	37	4191	1.15	0.95	0.91
RH855001	34	4151	1.14	0.97	0.94
BOUNTY-205	43	4092	1.07	0.98	0.95
C0820026	25	3929	1.16	0.95	0.91
NE78488	29	3919	1.01	0.95	0.90
NA-81-171-14	38	3911	0.95	0.95	0.91
KS82C2009	5	3852	1.19	0.96	0.93
AGC-110	32	3843	1.13	0.95	0.90
CI17826	3	3777	1.07	0.95	0.91
TX81V5581	13	3767	0.97	0.94	0.88
TX84A7608	16	3718	1.06	0.97	0.93
TX80A5901-1	14	3706	0.95	0.97	0.94
KS831374	4	3607	0.88	0.94	0.88
OK82377	8	3503	0.93	0.91	0.83
AGC-106	31	3308	0.94	0.95	0.90
CI13996	2	3295	0.83	0.92	0.85
TX84V1227	15	3281	0.92	0.84	0.71
CI1442	1	2535	0.65	0.80	0.64

Table 7. Summary of agronomic and yield data for 43 wheats in the 1987 Southern Regional Performance Nursery.

VARIETY OR PEDIGREE	: C.I. OR SEL. NO.	: ENTRY: NO.	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: DAYS TO RIPENING: FROM 1/1:	: LODGING %	: WINTER SURVIVAL %
	NUMBER OF TRIALS		30	24	1	8	2
WINTER WHEAT HYBRID	RH855001	34	83	132	172	6	95
OK1125A/HW76-1226	NA-81-362-5	37	74	135	173	2	95
BOUNTY HYBRID WHEAT	BOUNTY-205	43	87	134	174	10	91
TX71A374-4/TX71A1039-V1	TX84V1317	23	71	131	171	5	94
TX71A562-6*4/AMIGO*4//LARGO	TXGH13622	22	79	132	171	14	92
TAM-105*4/AMIGO*4//LARGO	TXGH10563B	20	79	131	170	8	91
PAYNE//TAM W-101/AMIGO	OK85310	12	82	135	173	14	87
OK1125A/HW76-1226	NA-81-171-14	38	72	131	173	3	92
WINTER WHEAT COMPOSITE	KS82C2009	5	88	136	176	8	78
WINTER WHEAT HYBRID	RH8604	36	85	134	173	5	94
WINTER WHEAT HYBRID	XH682	41	82	132	173	3	92
EXPERIMENTAL LINE	AGC-110	32	78	135	175	3	93
TAM-105	CI17826	3	80	133	175	4	95
MV-69-12/TAM W-103	TX78A3345-V34	17	73	133	172	6	83
BOUNTY HYBRID WHEAT	BOUNTY-122	42	82	133	175	3	80
MV-69-12/TAM W-103	TX84A7608	16	75	131	174	4	83
AURORA/2*TAM W-101	OK84349	9	74	133	176	2	78
MEX DW/BACA//VONA	C0820026	25	79	133	173	3	73
TX71A1039-V1*3/AMIGO	TX81V6607-2	24	70	132	174	2	85
STURDY*3/AMIGO	TX81V6582-2	19	69	131	173	1	61
AURORA/2*TAM W-101	OK84343	10	74	134	176	1	76
C05926//7C/TOBARI63/3/BACA	C0830034	28	89	136	173	15	92
74CB462/TRAPPER//VONA	C0830027	27	86	132	171	16	83
BULK SELECTION	AGC-111	33	76	134	173	10	92
TAM W-101/CTK//AMIGO	TX80A5901-1	14	75	133	173	12	90
TX73V203*3/AMIGO	TX81V5581	13	67	131	172	5	87
TAM W-101/AMIGO	OK85347	11	78	134	175	17	63
PLAINSMAN V/3/KAW/ATL50//PKR*5/AG	KS831374	4	78	132	173	8	83
WRR*5/AGENT//AURORA/3/CTK 78	NE78488	29	91	136	174	10	96
BULK SELECTION	KS82C2338	6	77	130	170	7	89
WINTER WHEAT HYBRID	XH669	40	84	132	175	8	86
BEZOSTAYA/TAM W-101//W558	XW141	39	72	134	176	1	92
WINTER WHEAT HYBRID	RH8606	35	78	132	173	1	59
KS73167/AGATE//SAGE SIB	NE82533	30	85	136	175	3	93
AMIGO SIB/2*NEWTON	OK82377	8	79	132	175	8	65
KS73146/TX71A1039	TX84V1336	21	72	131	171	6	82
BSN/STRLG//3*SUT/3/EAGLE/4/PNCL/2*EAGLE	KS84HW196	7	75	131	170	10	88
TAM W-101*4/AMIGO*4//LARGO	TXGH10989	18	79	134	177	9	54
74F878/WINGS//VONA	C082009	26	89	137	176	11	87
SCOUT 66	CI13996	2	96	135	175	45	88
EXPERIMENTAL LINE	AGC-106	31	80	133	173	4	83
TX68D5194/OSAGE	TX84V1227	15	85	134	176	10	57
KHARKOF	CI1442	1	104	141	178	33	92

Table 7. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	STRAW BREAKAGE: %	LEAF RUST: SEVERITY: %	STRIPE RUST SEVERITY:	TAN SPOT 0-9	SBM VIRUS 0-9	GREENBUG /BYDV 0-9	MILDEW %	VOLUME WEIGHT KG/HL	YIELD KG/HA
NUMBER OF TRIALS	1	5	1	1	1	1	1	1	31	30
RH855001	34	5	44	50	9	5	1.8	1	75	4349
NA-81-362-5	37	0	5	50	6	4	0.8	38	76.6	4235
BOUNTY-205	43	5	25	50	3	6	2.3	3	74.1	4198
TX84V1317	23	15	6	7	8	2	2.3	4	75.2	4148
TXGH13622	22	5	34	50	9	5	0	2	75.2	4147
TXGH10563B	20	20	45	70	9	7	0.8	21	73.9	4135
OK85310	12	30	14	50	7	8	1.5	1	75.2	4062
NA-81-171-14	38	5	8	35	8	4	0.8	29	76.6	4052
KS82C2009	5	10	26	50	8	8	3.3	3	75.9	4045
RH8604	36	0	15	50	8	3	0.8	11	75.4	4038
XH682	41	5	36	35	8	4	2.3	5	74.6	4028
AGC-110	32	0	20	75	9	2	2.5	14	73.6	4010
CI17826	3	20	47	75	9	8	4.5	6	73.6	4007
TX78A3345-V34	17	0	19	5	8	7	1	8	74.1	4003
BOUNTY-122	42	5	40	35	7	8	2.3	3	73.1	3976
TX84A7608	16	0	7	75	8	6	1.8	5	73.3	3966
OK84349	9	5	3	3	8	8	0.8	3	73.1	3955
C0820026	25	5	14	50	8	8	3.3	6	74.9	3941
TX81V6607-2	24	40	20	50	8	8	2.5	1	77.1	3915
TX81V6582-2	19	50	15	10	9	7	1	4	75.7	3883
OK84343	10	0	2	.	8	7	1	1	73.8	3878
C0830034	28	5	40	85	8	8	3	1	74.6	3863
C0830027	27	20	15	60	8	8	2	4	76.6	3856
AGC-111	33	0	38	65	9	8	1.8	1	72.6	3853
TX80A5901-1	14	60	34	79	8	8	2	22	75.5	3850
TX81V5581	13	20	21	40	9	7	1.8	5	72.1	3846
OK85347	11	20	14	30	7	8	3.3	2	74.7	3840
KS831374	4	0	15	40	4	2	1	5	75.6	3839
NE78488	29	5	6	65	8	8	1.5	3	75.7	3823
KS82C2338	6	0	43	30	8	2	3	4	75.9	3764
XH669	40	5	33	75	4	5	2.8	3	73.9	3750
XW141	39	0	7	30	6	4	4.8	3	71.3	3696
RH8606	35	15	9	40	7	2	1.5	1	72.2	3667
NE82533	30	0	30	40	9	2	0.5	4	74.7	3663
OK82377	8	90	12	60	7	2	3.5	2	74.5	3653
TX84V1336	21	15	11	15	9	8	1.8	1	73.7	3572
KS84HW196	7	10	39	50	9	8	5	4	74.5	3553
TXGH10989	18	75	30	40	7	6	0.3	3	72.4	3540
C082009	26	0	23	75	7	8	4.5	2	75.4	3496
CI13996	2	25	25	50	8	8	3	11	75.3	3441
AGC-106	31	0	16	75	7	8	1.8	1	73.6	3441
TX84V1227	45	10	15	70	8	8	1.3	18	75.4	3360
CI1442	1	5	30	50	8	8	2.8	3	72.3	2644

Table 8. Seedling reaction of the 1987 Uniform Southern Regional Hard Red Winter Wheat Performance Nursery to selected isolates of *Puccinia graminis* f. sp. *tritici*. (By D. V. McVey, USDA, ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN.)

No.	Name or Sel. No.	Reaction Produced by Isolates							Spec. Sr Gene
		72-00-1370C QFBS	69-21-399 QSHS	71-21-584B RHRS	72-25-639C RKQS	72-00-53A RTQQ	72-01-4A TNMH	74-21-1409A TNMK	
		151		11-32-113			15B-2		
1	Kharkof	S	S	S	S	S	S	S	None
2	Scout 66	S	S	S	S	;	;	S	17
3	TAM 105	2=	2	2-	2	2	S	S	TMP
4	KS 831374	2=	2-	2=	2-	2-	S	S	TMP
5	KS 82C2009	2=	2	1	2	0;	1	2-	17,24
6	KS 82C2338	0;	S	2	S	;1	0;	0;	6,8,17
7	KS 84HW196	2	2-	S	S	S	S	S	7b
8	OK 82377	2	2=	2=	2=	2=	2=	2=	Amigo
9	OK 84349	;1	2=	;1	1	2=	1	;1	31
10	OK 84343	;1	2=	;1	1	0;	1	;1	31
11	OK 85347	2=	2=	2-	2=	2=	2=	2=	Amigo
12	OK 85310G			NO SEED, NOT TESTED					
13	TX 71V5581	;	2=	1	2=	2=	;	;	6,Amigo
14	TX 80A5901-1	;	2-	2=	2-	2-	;	;	6,Amigo
15	TX 84V1227	2=	2=	2=	2	2-	2-	2=	24
16	TX 84A7608	S	S	S	S	S	S	S	None
17	TX 84A3345-V34	2-	2	2-	S	S	S	S	7b,8
18	TX GH10989	2=	2=	2	2=	2=	2=	2=	Amigo
19	TX 81V6582-2	2=	2=	2	2=	2=	2=	2=	Amigo
20	TX GH10563B	2-	2-	2-	2=	2=	2-	2-	Amigo
21	TX 84V1336	S	S	S	S	S	S	S	None
22	TX GH13622	2=	2-	2	2=	;	;	2=	17,Amigo
23	TX 84V1317	S	S	S	S	S	S	S	None
24	TX 81V6607-2	2=	2=	2-	2-	2=	2=	2=	Amigo
25	CO 820026	2-	2=	2-	2-	;	0;	2-	17,+

Table 8. Concluded.

No.	Name or Sel. No.	Reaction Produced by Isolates							Spec. Sr Gene
		72- 00- 1370C QFBS	69- 21- 399 QSHS	71- 21- 584B RHRS	72- 25- 639C RKQS	72- 00- 53A RTQQ	72- 01- 4A TNMH	74- 21- 1409A TNMK	
		151		11-32-113			15B-2		
26	CO 82009	2=	2=	1	2-	0;	0;	2-	17,+
27	CO 830027	2=	2	2=	1	0;	0;	2=	17,+
28	CO 830034	2=	2=	2=	2=	0;	0;	2-	17,+
29	NE 78488	2=	2-	1	2	0;	0;	2-	17,24 &or 31
30	NE 82533	2-	2=	2=	2-	0;	0;	2	17,24
31	AGC 106	2=	S	2=	S	S	2-	2-	8,9b
32	AGC 110	2	2	2	2	2	S	S	TMP
33	AGC 111	2-	2=	1	2=	2-	;1	2-	+
34	RH 855001	0;	2-	2	2=	2=	;1	;1	6,+
35	RH 8606	;1	S	23CN	;1N	;1N	;1N	S	10,17
36	RH 8604	;	S	S	S	;1	;	;1	6,17
37	NA-81-362-5	1	2-	2=	2=	2=	2	2	+
38	NA-81-171-14	2-	2=	2	2	0;	;	2	17,+
39	XW 141	2	2	2	2	2+	2-	2	+
40	XH 669	S	S	S	S	S	S	S	None
41	XH 682	2-	2	S	23	2	S	S	+
42	Bounty 122	;1	2=	2	2-	2-	;1	;1	6,+
43	Bounty 205	;1-	S	2	S	S	;1	;1	6,8

Table 9.
Field reaction of the 1987 Southern Regional
Performance Nursery to Puccinia Graminis f. sp.
tritici. (Data provided by D. V. McVey, USDA-ARS,
St. Paul, MN.)

ENTRY NO.	C.I. OR SEL. NO.	STEM RUST	
		SEVERITY %	RESPONSE R-S
1	CI1442	10	S
2	CI13996	10	S
3	CI17826	40	S
4	KS831374	60	S
5	KS82C2009	30	MS-S
6	KS82C2338	40	S
7	KS84HW196	40	S
8	OK82377	10	MS-S
9	OK84349	--	-
10	OK84343	30	MS-S
11	OK85347	20	MS-S
12	OK85310	--	-
13	TX81V5581	T	MR
14	TX80A5901-1	30	S
15	TX84V1227	--	-
16	TX84A7608	60	S
17	TX78A3345-V34	60	S
18	TXGH10989	30	S
19	TX81V6582-2	T	MR
20	TXGH10563B	T	MR
21	TX84V1336	T	MR
22	TXGH13622	40	MS-S
23	TX84V1317	60	S
24	TX81V6607-2	40	S
25	C0820026	40	S
26	C082009	T	MR
27	C0830027	30	MS-S
28	C0830034	60	S
29	NE78488	T	MR
30	NE82533	T	MR
31	AGC-106	60	S
32	AGC-110	80	S
33	AGC-111	20	MS
34	RH855001	40	S
35	RH8606	30	MS-S
36	RH8604	20	MS-S
37	NA-81-362-5	10	MS
38	NA-81-171-14	10	MS
39	XW141	30	S
40	XH669	60	S
41	XH682	40	S
42	BOUNTY-122	T	MS-S
43	BOUNTY-205	30	S

Table 10. Hessian fly reaction, Great Plains biotype,
1987 Southern Regional Performance Nursery.
(Data provided by J. H. Hatchett, USDA-ARS,
Manhattan, KS.)

ENTRY NO.	C.I. OR SEL. NO.	REACTION TYPE	NO. OF PLANTS	
			R	S
1	CI1442	S		
2	CI13996	S		
3	CI17826	S		
4	KS831374	S		
5	KS82C2009	H	5	15
6	KS82C2338	S		
7	KS84HW196	S		
8	OK82377	S		
9	OK84349	S		
10	OK84343	S		
11	OK85347	S	3	17
12	OK85310	H	8	15
13	TX81V5581	S		
14	TX80A5901-1	S		
15	TX84V1227	S		
16	TX84A7608	S		
17	TX78A3345-V34	S		
18	TXGH10989	S		
19	TX81V6582-2	H	5	18
20	TXGH10563B	S		
21	TX84V1336	S		
22	TXGH13622	S		
23	TX84V1317	S		
24	TX81V6607-2	H	5	12
25	C0820026	S		
26	C082009	H	11	11
27	C0830027	S		
28	C0830034	S		
29	NE78488	S		
30	NE82533	S		
31	AGC-106	S		
32	AGC-110	S		
33	AGC-111	S	3	19
34	RH855001	S		
35	RH8606	S		
36	RH8604	S		
37	NA-81-362-5	S		
38	NA-81-171-14	H	6	16
39	XW141	R		
40	XH669	S		
41	XH682	S		
42	BOUNTY-122	S		
43	BOUNTY-205	S		
	NEWTON	S		
	ARKAN	R		
	KNOX 62	R		
	SENECA	R		

Table 11. Virus reactions of entries in the 1987 Southern Regional Performance Nursery. (Data provided by F. L. Kolb, Urbana, Illinois.)

ENTRY	C.I. OR	: BARLEY YELLOW :	SOILBORNE :
NO.	SEL. NO.	: DWARF* :	MOSAIC** :
		: 0-9 :	0-9 :
1	CI1442	5	6
2	CI13996	4	6.5
3	CI17826	4	6.5
4	KS831374	4	3
5	KS82C2009	3	6
6	KS82C2338	4	5
7	KS84HW196	2	6
8	OK82377	3	4.5
9	OK84349	3	4
10	OK84343	2	4
11	OK85347	3	6
12	OK85310	3	6
13	TX81V5581	4	6
14	TX80A5901-1	4	6
15	TX84V1227	4	6
16	TX84A7608	3	4
17	TX78A3345-V34	3	5
18	TXGH10989	3	7
19	TX81V6582-2	4	6
20	TXGH10563B	2	6
21	TX84V1336	6	6
22	TXGH13622	4	2.5
23	TX84V1317	6	3.5
24	TX81V6607-2	4	6
25	C0820026	5	6
26	C082009	5	6.5
27	C0830027	6	6
28	C0830034	5	6
29	NE78488	4	5.5
30	NE82533	5	5
31	AGC-106	5	5
32	AGC-110	3	4.5
33	AGC-111	4	6
34	RH855001	3	3
35	RH8606	4	4
36	RH8604	5	3
37	NA-81-362-5	3	3.5
38	NA-81-171-14	3	4
39	XW141	3	3.5
40	XH669	3	4.5
41	XH682	2	3
42	BOUNTY-122	6	6
43	BOUNTY-205	3	5.5

*,** ONE OR TWO REPS, RESPECTIVELY.

Table 12. Aluminum tolerance based on hematoxylin staining of seedling roots from lines tested in the 1987 SRPN. (Data provided by B. F. Carver, Stillwater, OK)

Entry No.	Selection No.	Stain Intensity ^a			Rating ^b
		Al Concentration (mM)			
		0.18	0.36	0.72	
1	Kharkof	C/P	C	C	VS-MS *
2	Scout 66	C	C	C	VS
3	TAM 105	C	C	C	VS
4	KS831374	C	C	C	VS
5	KS82C2009	N	P/C	C	MS-I *
6	KS82C2338	P	C	C	MS
7	KS84HW196	P/C	C/P	C	VS-I *
8	OK82377	C	C	C	VS
9	OK84349	P	P	C	I
10	OK84343	P	P	C	I
11	OK85347	P	C	C	MS
12	OK85310	P	C	C	MS
13	TX81V5581	P	C	C	MS
14	TX80A5901-1	P	C	C	MS
15	TX84V1227	C	C	C	VS
16	TX84A7608	N	P	P	T
17	TX78A3345-V34	C	C	C	VS
18	TXGH10989	P	P	C	I
19	TX81V6582-2	P	C/P	C	MS-I *
20	TXGH10563B	C	C	C	VS
21	TX84V1336	N	P	P	T
22	TXGH13622	P/C	C	C	VS-MS *
23	TX84V1317	N	P	P	T
24	TX81V6607-2	N	P	P	T
25	CO820026	C	C	C	VS
26	CO82009	P	P	C	I
27	CO830027	P	C	C	MS
28	CO830034	P	P	C	I
29	NE78488	C/N	C/N	C/P	VS-T *
30	NE82533	C	C	C	VS
31	AGC-106	C	C	C	VS
32	AGC-110	C	C	C	VS
33	AGC-111	P	C	C	MS
34	RH855001	P	C	C	MS
35	RH8606	C	C	C	VS
36	RH8604	P	C	C	MS
37	NA-81-362-5	P	P/C	C	MS-I *
38	NA-81-171-14	P	P/C	C	MS-I *
39	XW141	N	N	P	T
40	XH669	P	C	C	MS
41	XH682	N/P	N/P/C	C/P	MS-T *
42	Bounty-122	N	N	P	T
43	Bounty-205	N	N	P	T

^aStain intensity scores: C, P, and N = complete, partial, and no staining of root tips, respectively.

^bVS = very susceptible, MS = moderately susceptible, I = intermediate, and T = tolerant (≤ 0.72 mM Al); * = segregating for tolerance -- predominant stain intensity listed first for each Al concentration.

1987
Northern Regional Performance Nursery

<u>Entry No.</u>	<u>Variety or Pedigree</u>	<u>C.I. or Sel. No.</u>	<u>Source</u>
1**	Kharkof	CI1442	Check
2*	Roughrider	CI17439	"
3**	Colt	PI476975	"
4	CI15322//Agate/4*Scout 66/3/Ctk 78/4/ SD74221	SD82144	So. Dakota
5	CI15322//3*(Agent/4*Scout 66)	SD76463-16	"
6	SD75375/OK711248-1	SD791117	"
7	SD74221*2/Lathrop	SD82114	"
8	CI15322//4*(Agent/4*Scout 66)	SD79892	"
9*	SD76109/Rose	SD78207-4	"
10*	SD76669*2/KS71591	SD791231	"
11	Brule//Sentinel/Centurk	NE82652	Nebraska
12	Brule/3/Pkr*4/Agent//Beloterkovskaia 198 /Lancer	NE82656	"
13	"	NE82658	"
14*	HiPlains/Wings/3/Pkr*4/Agent// Beloterkovskaia 198/Lancer	NE82438	"
15*	Rrr//Yogo/Trapper	ND8212	No. Dakota
16*	Rrr/3/Froid//Winoka/WW8	ND8215	"
17*	Rrr*2/1809	ND8286	"
18*	Winoka/XR77234	ND8382	"
19*	Ctk/3/Froid*2//ND363/ND269	ND8407	"
20*	77W4593 Sib/HiPlains	RL845496	Rohm & Haas
21*	77W4593 Sib/Froid	RL845504	"
22*	Froid/76W167	RL845457	"
23*	Bighorn Sib/76W167	RL845455	"
24*	OK11252A/W76-1226	NA-81-362-5	NAPB
25*	Winter Wheat Hybrid	XH696	HybriTech
26*	" " "	XNH1359	"
27*	Bounty Hybrid Wheat	Bounty-301	Cargill
28*	" " "	Bounty-205	"
29	TX65A268/Froid//YTO 117-20/Ctk	MT8030	Montana
30	Lancota/Froid//NE69559/Wnk	MT8039	"
31	Norwin	MT7877	"
32*	Kharkov 22 MC/Bezostaya 1	WT176	Lethbridge
33*	Norstar/Rrr	WT177	"
34*	"	WT179	"
35*	Turkey/Burt//Bezostaya 1	ID0180	"
36***	Norkan (Plainsman V/3/2*Larned/Eagle// Sage)	KS82H4	Kansas

* New entry.

** New seed provided.

*** Entered from SRPN.

TEST SITE INFORMATION - NRPN

Clovis, NM -- See information for SRPN.

Nebraska stations -- See information for SRPN.

Brookings, SD -- Abandoned due to poor stand establishment and fall crusting.

Presho, SD -- Planted 9/3/86. Good fall moisture for planting. Some fall stand reductions caused by washing. Very mild winter with excellent winter survival. Little or no disease pressure.

Highmore, SD -- Planted 9/8/86 into good soil moisture and excellent fall stands were obtained. The winter was mild and no winterkilling evident. A warm April and May resulted in early heading dates. There were no significant disease pressures.

Casselton, ND -- Planted on 9/8/86 with good soil moisture. Winter survival was high due to mild winter conditions with warm temperatures and little snow. There was some flooding in the first rep early in the spring. Leaf rust was moderate. Harvested 7/20/87.

Carrington, ND -- Planted into stubble in mid-September. Two weeks of rains followed planting. The winter was mild. Surface soil moisture was limiting and high temperatures in May and June stressed the crop.

Williston, ND -- Planted 9/8/86. Fall was generally wet with above average rainfall. Winter months were warm and dry and there was very little winterkill. Dormancy broke early, during the first week in April. April and most of May were dry and warm and the crop was stressed. There were no disease or insect problems. Harvested 7/14/87.

Rosemount, MN -- Winter temperatures were mild with little snow. Spring was early, very warm, and very dry. A BYDV infection developed in late April and early May. The infection was very uniform across entries and ratings were of little value. May and June remained dry and hot. Leaf and stem rust developed at senescence causing no damage. There was no lodging as the wheat was short and had reduced tillering.

Waseca, MN -- Similar weather and growing conditions as Rosemount. Leaf and stem rust developed late and caused little damage. BYDV symptoms were widespread.

Sheridan, WY -- The winter was mild with very little snowfall. The spring was dry and rains provided adequate moisture later in the season. There were no disease or insect problems.

Archer, WY -- Winter temperatures were mild and snowfall below normal. Spring and summer rains were timely and moisture was adequate. An infestation of Russian wheat aphid in early summer was the largest factor affecting overall nursery performance.

Moccasin, MT -- The nursery was seeded on 9/23/86, about a week later than normal due to wet fall conditions. Excellent stands were obtained. There was no winterkill even though snow cover was almost non-existent. Warm temperatures during March and April caused the nursery to break dormancy 3 to 4 weeks earlier than normal. Some entries were affected by the last killing frost on May 21. Growing season precipitation was above the 78 year mean totaling 11.5 inches and was well distributed. The highest yields on record were harvested.

Sidney, MT -- Planted 9/9/86. Excellent fall stands were obtained due to excellent soil moisture conditions at planting. Winter survival also was excellent. Diseases and insects were not a problem, although tan spot and septoria were present. The nursery was harvested July 2, 24 days ahead of normal, due to an early March warmup bringing record high temperatures. Above normal March rainfall further promoted early spring growth. A total 14.4 inches of precipitation were received during the growing season.

Bozeman, MT -- No information.

Idaho stations -- See information for SRPN.

Lind, WA -- See information for SRPN.

Table 13. Yield and agronomic data for entries in the 1987
Northern Regional Performance Nursery.

CLOVIS (IRR.)

NEW MEXICO

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL	: PLANT : HEIGHT : CM	: DAYS TO : HEADING : FROM 1/1:	: FREEZE : DAMAGE : %
XH696	25	7388	74	94	131	7
BOUNTY-205	28	7049	72.3	84	128	27
NE82652	11	7022	71.8	93	131	20
XNH1359	26	7012	72.8	102	131	18
NE82656	12	6557	72.4	91	130	7
SD82144	4	6509	74.5	98	132	12
SD791117	6	6352	75	87	130	18
NA-81-362-5	24	6277	77.9	73	130	7
KS82H4	36	6134	75.7	86	127	27
RL845496	20	6085	73	98	134	10
NE82658	13	6076	74.6	88	130	13
SD82114	7	6047	76.8	96	131	12
WT176	32	5848	69.8	114	137	8
RL845455	23	5833	74.9	89	132	7
BOUNTY-301	27	5820	71.5	94	130	8
ND8215	16	5754	71.9	111	136	7
SD791231	10	5628	73.2	95	134	5
RL845457	22	5531	73.9	102	133	4
RL845504	21	5507	73.2	102	135	7
SD76463-16	5	5496	75.4	102	132	7
MT8039	30	5345	70.8	93	132	20
SD79892	8	5128	72.8	96	134	13
SD78207-4	9	5106	73.5	101	134	7
ND8212	15	5102	70.6	107	136	23
MT8030	29	5049	72	94	132	20
PI476975	3	4984	70.6	80	127	14
ND8407	19	4864	74	103	134	23
ND8382	18	4743	70.3	105	135	20
CI17439	2	4700	74.5	107	135	12
ND8286	17	4481	70.9	107	136	10
WT179	34	4301	69.9	114	137	15
ID0180	35	4150	64.4	103	137	20
WT177	33	3945	70.1	108	136	33
CI1442	1	3876	69.5	109	135	22
NE82438	14	3442	63.9	89	134	23
MT7877	31	2792	64	72	136	15

MEAN	5443
LSD(.05)	790
C.V.	8.9

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:	: FREEZE : DAMAGE : % :
XNH1359	26	5328	76.2	90	130	0
SD791117	6	5032	78.3	89	128	0
NE82652	11	4697	73.6	76	128	0
KS82H4	36	4523	77	74	125	0
SD82144	4	4424	75	86	129	0
BOUNTY-301	27	4414	72.9	84	127	0
NA-81-362-5	24	4391	78.6	71	128	0
SD76463-16	5	4376	76.5	89	131	0
XH696	25	4225	75.3	78	127	0
MT8039	30	4219	74.2	87	129	0
SD82114	7	4204	76.7	78	128	0
ND8215	16	4044	74	98	135	0
CI17439	2	3986	75.7	88	132	0
NE82658	13	3855	74.9	76	127	0
ID0180	35	3840	66.7	76	135	0
ND8407	19	3790	75.9	93	132	0
ND8212	15	3772	73.5	93	134	0
WT179	34	3765	73.4	103	135	0
NE82656	12	3759	74.4	77	127	0
WT176	32	3752	73.2	94	134	0
PI476975	3	3696	75.6	69	127	0
RL845504	21	3656	71.7	93	133	0
RL845496	20	3637	74.7	87	132	0
BOUNTY-205	28	3602	71.3	76	127	30
SD79892	8	3578	75	81	131	0
SD791231	10	3576	74.2	81	131	0
RL845457	22	3549	72.6	94	131	0
CI1442	1	3463	72.7	101	134	0
ND8382	18	3392	72	87	134	0
ND8286	17	3312	74.2	76	133	0
WT177	33	3222	75.3	97	135	0
MT8030	29	3057	75	72	129	0
NE82438	14	2946	70.2	74	131	0
RL845455	23	2818	72.4	71	130	0
SD78207-4	9	2741	73.4	80	131	0
MT7877	31	677	69.6	65	133	0

MEAN	3759
LSD(.05)	767
C.V.	12.5

LINCOLN

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: PLANT : HEIGHT : CM
NA-81-362-5	24	3127	60
BOUNTY-205	28	2952	70
BOUNTY-301	27	2872	72
XH696	25	2773	72
ND8407	19	2573	87
XNH1359	26	2558	78
KS82H4	36	2466	66
ND8215	16	2372	87
SD82114	7	2369	79
ND8212	15	2322	82
SD791231	10	2320	72
ND8286	17	2260	79
SD791117	6	2251	74
SD76463-16	5	2244	79
RL845496	20	2237	78
NE82658	13	2127	67
SD82144	4	2076	82
PI476975	3	2060	57
WT176	32	2031	88
RL845457	22	2004	77
SD78207-4	9	1993	72
ND8382	18	1968	80
RL845504	21	1946	77
CI1442	1	1928	91
SD79892	8	1926	72
NE82438	14	1926	63
RL845455	23	1899	65
WT177	33	1894	87
MT8030	29	1867	70
NE82652	11	1852	68
CI17439	2	1791	83
MT8039	30	1789	71
NE82656	12	1724	68
WT179	34	1596	86
ID0180	35	1545	73
MT7877	31	1336	53

MEAN	2138
LSD(.05)	462
C.V.	13.2

NORTH PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO. :	: YIELD : KG/HA :	: VOLUME : WEIGHT : KG/HL :
BOUNTY-301	27	4558	.
NE82656	12	4384	73.4
BOUNTY-205	28	4371	73.8
XH696	25	4329	75.1
XNH1359	26	4325	75.9
NE82652	11	4053	73.3
NE82658	13	4050	72
PI476975	3	4044	71.9
KS82H4	36	3899	75.7
NE82438	14	3739	71.9
MT8039	30	3739	72.9
SD82144	4	3626	74.8
ND8286	17	3533	72.5
ID0180	35	3496	74.8
SD82114	7	3447	74.6
NA-81-362-5	24	3402	76.6
RL845504	21	3360	73.7
SD791231	10	3315	74.7
SD76463-16	5	3312	75.3
RL845455	23	3301	73.5
SD78207-4	9	3283	75.1
WT176	32	3255	74.2
SD79892	8	3226	73.5
ND8382	18	3146	70
RL845457	22	3104	74.4
RL845496	20	3013	72.5
WT179	34	3003	73.4
MT7877	31	2935	70.8
SD791117	6	2887	73.8
ND8212	15	2844	69.7
CI17439	2	2809	73.3
ND8407	19	2793	72.9
ND8215	16	2700	69.3
CI1442	1	2686	72.2
MT8030	29	2561	70
WT177	33	2551	72.2

MEAN	3419
LSD(.05)	607
C.V.	10.9

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : : KG/HA :	: VOLUME : : WEIGHT : : KG/HL :	: DAYS TO : : HEADING : : FROM 1/1:
BOUNTY-205	28	5045	74.9	156
XNH1359	26	4580	78.6	157
BOUNTY-301	27	4515	75.2	153
XH696	25	4492	76.1	159
KS82H4	36	4408	76.6	155
NA-81-362-5	24	4350	79.1	153
NE82656	12	4267	76.1	157
MT8039	30	4232	.	153
PI476975	3	4181	75.1	153
NE82438	14	4115	75.2	158
NE82658	13	4106	76.2	157
RL845455	23	4057	76.4	155
NE82652	11	4048	74.8	156
SD76463-16	5	3970	78.9	155
SD82114	7	3879	77.4	155
ND8286	17	3848	76.1	159
SD791231	10	3837	.	157
WT176	32	3804	77	157
MT8030	29	3727	76.1	158
RL845496	20	3709	74.9	159
SD791117	6	3703	77.4	158
SD78207-4	9	3666	77.8	158
SD79892	8	3615	76.6	157
ND8212	15	3584	74.8	160
CI17439	2	3574	77.5	158
RL845457	22	3568	76.9	155
SD82144	4	3549	78.2	155
ND8215	16	3505	73.5	160
ND8407	19	3414	76.5	158
WT179	34	3391	77.3	157
ID0180	35	3385	75.7	158
MT7877	31	3350	75.9	159
ND8382	18	3286	76	158
RL845504	21	3160	74.6	156
WT177	33	3059	77.4	160
CI1442	1	2907	77.4	160

MEAN	3830
LSD(.05)	424
C.V.	6.8

ALLIANCE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
NA-81-362-5	24	5214	77.5	63	151
BOUNTY-205	28	5116	74.8	83	151
BOUNTY-301	27	5001	74.8	80	152
XNH1359	26	4959	77.3	84	153
MT8039	30	4936	74.7	84	152
NE82656	12	4888	73.4	76	152
NE82652	11	4817	73.9	73	153
KS82H4	36	4743	76.1	74	151
PI476975	3	4527	74.8	68	151
NE82658	13	4410	73.9	75	152
XH696	25	4373	74.6	80	151
ND8286	17	4358	74.4	80	154
NE82438	14	4315	73.5	72	154
ID0180	35	4232	74.8	80	156
SD791117	6	4226	76.1	84	150
RL845496	20	4210	74.8	89	155
SD82114	7	4178	75.9	85	151
MT8030	29	4130	74.8	80	153
SD79892	8	4011	76.1	83	153
SD791231	10	3800	76	75	153
MT7877	31	3693	74.8	63	153
SD76463-16	5	3637	76.8	84	153
SD78207-4	9	3616	76.4	80	154
SD82144	4	3595	75.3	84	151
ND8382	18	3578	73.7	82	154
RL845504	21	3549	74.8	92	155
RL845455	23	3537	74.8	64	153
WT176	32	3523	74.2	99	156
CI17439	2	3506	77	87	154
WT179	34	3426	75.2	94	156
ND8215	16	3409	72.2	90	155
ND8407	19	3339	75.5	90	153
ND8212	15	3299	72.2	85	155
RL845457	22	3200	74.9	87	153
CI1442	1	2874	76.1	99	155
WT177	33	2669	74.9	97	156

MEAN	4025
LSD(.05)	674
C.V.	10.3

PRESHO

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL	: PLANT : HEIGHT : CM	: DAYS TO : HEADING : FROM 1/1:	: STAND : %
MT8039	30	3517	75.1	89	154	100
XH696	25	3436	78.4	71	152	100
NE82652	11	3416	77.3	78	158	87
NE82656	12	3380	78.7	77	153	100
XNH1359	26	3328	79.8	82	158	93
ND8286	17	3320	76.7	86	153	100
WT176	32	3288	76.2	92	152	87
ND8212	15	3264	76.2	97	156	100
MT8030	29	3202	77.8	76	159	93
NA-81-362-5	24	3161	81.6	61	155	90
SD76463-16	5	3159	79.1	79	153	100
SD82114	7	3143	78.9	74	156	100
SD79892	8	3139	79.8	81	156	100
SD78207-4	9	3137	79.6	77	152	100
SD791231	10	3087	77.5	81	156	87
PI476975	3	3061	79.3	66	149	100
ND8215	16	3025	76	96	153	100
SD82144	4	3000	79.1	83	156	100
BOUNTY-301	27	2981	78.6	72	157	83
BOUNTY-205	28	2971	79.1	78	157	87
SD791117	6	2967	78.2	76	152	100
NE82438	14	2928	78	70	155	93
ID0180	35	2924	74.2	79	152	93
WT179	34	2918	77.8	92	151	100
CI17439	2	2823	79.6	95	158	100
MT7877	31	2822	78.6	67	156	93
KS82H4	36	2814	79.5	72	149	100
NE82658	13	2745	78	75	157	87
WT177	33	2741	76.7	95	154	100
RL845457	22	2737	77.1	83	155	90
ND8407	19	2720	77.8	90	158	100
RL845455	23	2656	78.2	73	156	93
RL845504	21	2653	77.5	85	155	93
RL845496	20	2642	76	81	154	77
CI1442	1	2635	78.6	97	156	100
ND8382	18	2589	76	78	156	93

MEAN	3009
LSD(.05)	382
C.V.	7.8

HIGHMORE

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
NA-81-362-5	24	4140	80.7	70	144
XNH1359	26	4008	79.8	79	142
NE82656	12	3780	79.8	81	146
XH696	25	3773	78.6	76	145
SD76463-16	5	3666	79.8	76	144
MT8039	30	3580	76.9	79	143
BOUNTY-205	28	3524	80.4	78	144
ND8286	17	3498	78.9	78	146
ND8382	18	3420	78.9	77	145
SD791117	6	3382	78.4	78	145
SD82114	7	3372	79.6	78	145
NE82438	14	3372	80	73	144
ND8215	16	3347	77.5	86	145
ND8212	15	3331	78	83	147
KS82H4	36	3291	80.9	74	143
SD79892	8	3260	79.8	74	145
SD82144	4	3233	80.2	81	144
ND8407	19	3225	79.1	81	144
BOUNTY-301	27	3169	80.2	76	145
SD78207-4	9	3153	80	72	144
NE82658	13	3117	80.2	71	144
PI476975	3	3096	80	66	144
WT176	32	3086	76.6	87	148
WT179	34	3068	78.4	88	148
RL845457	22	3059	80.4	79	143
WT177	33	3052	78.2	87	148
NE82652	11	3033	78.2	71	143
RL845496	20	3013	80	78	144
CI17439	2	2996	79.8	87	146
MT8030	29	2991	79.1	75	145
MT7877	31	2969	79.8	68	145
CI1442	1	2946	78.6	89	147
RL845504	21	2912	78.9	83	144
ID0180	35	2900	77.8	78	148
RL845455	23	2870	80.2	70	144
SD791231	10	2768	80.2	75	143

MEAN	3261
LSD(.05)	414
C.V.	7.8

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:	: WINTER : SURVIVAL : %
NA-81-362-5	24	5492	78.4	82	150	90
NE82438	14	5360	74.8	86	153	93
XH696	25	5289	75.2	88	152	93
XNH1359	26	4872	75.7	88	151	87
MT8030	29	4727	75.3	91	153	85
NE82652	11	4648	73.1	87	153	80
ID0180	35	4633	73.1	92	155	92
ND8286	17	4542	75.2	97	154	98
SD82144	4	4540	71	87	150	95
MT7877	31	4456	74.3	74	154	97
KS82H4	36	4451	75.3	82	149	83
NE82656	12	4444	74.7	84	150	88
MT8039	30	4409	72.6	90	153	82
PI476975	3	4377	69.9	72	152	80
ND8215	16	4304	73.7	103	155	97
SD76463-16	5	4275	74	95	151	90
SD79892	8	4246	76.6	88	153	92
BOUNTY-301	27	4240	74.3	96	153	57
BOUNTY-205	28	4217	74.9	82	151	77
ND8382	18	4179	75.5	100	154	97
NE82658	13	4152	74	89	152	88
WT179	34	4140	74.8	95	156	100
ND8212	15	4064	73.5	100	155	98
WT176	32	4054	75.3	104	161	87
SD78207-4	9	4048	77.5	89	155	95
SD791231	10	4029	75.7	96	155	82
SD82114	7	3981	75.6	85	154	72
CI1442	1	3944	72.8	109	156	85
RL845455	23	3941	75.2	76	151	87
CI17439	2	3808	74.2	108	154	98
RL845496	20	3764	71.7	91	155	70
WT177	33	3755	75.3	98	159	98
RL845504	21	3727	75.2	96	153	87
ND8407	19	3413	74.6	102	154	83
RL845457	22	2841	73.4	97	153	80
SD791117	6	2770	74.3	81	152	78

MEAN	4226
LSD(.05)	827
C.V.	12.0

CARRINGTON

N. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING 0-9	: WINTER SURVIVAL %
ND8212	15	2933	76	156	0	93
NE82656	12	2931	65	153	0	92
ND8286	17	2847	72	156	1	95
ND8215	16	2828	74	156	0	92
XH696	25	2763	62	155	1	88
CI17439	2	2746	76	156	1	97
CI1442	1	2691	79	158	2	95
NE82652	11	2635	63	155	1	88
ND8407	19	2582	77	155	1	92
SD82144	4	2562	66	153	1	92
WT176	32	2518	81	160	1	93
SD82114	7	2485	61	155	1	92
ID0180	35	2482	72	158	0	93
SD76463-16	5	2460	70	154	1	92
SD78207-4	9	2456	61	156	1	83
SD79892	8	2441	63	156	1	87
RL845455	23	2415	59	154	0	87
SD791117	6	2385	67	154	1	90
SD791231	10	2354	67	156	1	92
NA-81-362-5	24	2336	53	154	0	90
MT7877	31	2319	59	155	0	95
ND8382	18	2292	71	156	0	88
WT179	34	2291	78	159	1	85
MT8039	30	2279	63	156	1	88
WT177	33	2235	77	158	1	95
XNH1359	26	2208	64	153	0	90
NE82658	13	2199	59	153	0	90
BOUNTY-205	28	2173	64	154	0	85
MT8030	29	2168	67	155	1	92
RL845457	22	2146	73	154	0	90
NE82438	14	2101	59	155	0	93
RL845504	21	2096	77	156	2	90
PI476975	3	1965	53	154	0	92
KS82H4	36	1873	57	153	1	92
RL845496	20	1839	65	156	0	90
BOUNTY-301	27	1331	61	154	0	90

MEAN	2371
LSD(.05)	N.S.
C.V.	26.8

WILLISTON

N. DAKOTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME WEIGHT KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
XH696	25	2105	74.1	74	144
NE82656	12	2082	74.5	72	145
XNH1359	26	2062	74	76	145
SD76463-16	5	1985	76.9	74	145
MT7877	31	1972	74.7	57	147
NA-81-362-5	24	1938	78.3	59	144
MT8039	30	1917	72.4	71	146
NE82652	11	1908	73.9	71	145
ND8407	19	1890	73.1	80	147
SD791117	6	1851	75.8	70	144
SD82114	7	1841	75.3	67	145
KS82H4	36	1820	77	67	143
ND8286	17	1784	73.7	72	149
CI17439	2	1778	73.8	76	148
RL845457	22	1772	75.5	72	146
MT8030	29	1766	73.4	67	146
WT176	32	1766	69.9	77	150
ND8382	18	1764	72.9	69	148
SD82144	4	1763	75.4	70	145
ND8215	16	1758	68.3	76	147
SD79892	8	1757	74.6	70	147
ID0180	35	1748	74.9	69	149
CI1442	1	1722	73.9	78	148
ND8212	15	1687	69.9	76	149
RL845504	21	1685	75.9	71	147
WT179	34	1678	70.7	73	150
SD78207-4	9	1668	78	67	147
NE82438	14	1666	76.7	61	147
WT177	33	1648	71.9	78	149
NE82658	13	1637	75.2	67	145
PI476975	3	1626	74.9	60	145
SD791231	10	1567	76.8	68	147
RL845496	20	1560	75.4	73	147
BOUNTY-205	28	1527	76.2	69	145
BOUNTY-301	27	1503	76.9	64	146
RL845455	23	1444	77	63	145

MEAN	1768
LSD(.05)	178
C.V.	7.2

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 %
XNH1359	26	2506	69.7	90	145	87
NE82656	12	2378	71	84	147	65
BOUNTY-205	28	2325	67.7	85	145	78
MT8039	30	2291	67.1	88	147	87
BOUNTY-301	27	2287	71.6	83	146	68
ND8286	17	2282	69.7	92	149	100
RL845455	23	2239	69.7	77	145	92
KS82H4	36	2233	69.7	81	144	83
NE82438	14	2215	69.7	79	147	83
NE82652	11	2179	71	85	147	78
PI476975	3	2174	68.4	72	144	93
SD76463-16	5	2148	74.2	92	147	63
SD82144	4	2091	69.7	91	146	72
ND8215	16	2089	67.1	97	149	100
NE82658	13	2060	72.2	79	148	57
SD79892	8	2047	72.2	87	149	85
RL845504	21	2024	69.7	93	147	85
NA-81-362-5	24	1986	69	73	145	98
CI17439	2	1977	71	94	148	100
SD791117	6	1970	73.5	89	146	55
ND8382	18	1968	69.7	86	150	100
XH696	25	1957	67.7	82	144	90
SD82114	7	1914	71	81	147	67
ND8407	19	1905	69	94	147	95
SD791231	10	1899	71.6	89	147	97
RL845457	22	1885	71	91	146	93
ND8212	15	1858	67.1	94	149	100
RL845496	20	1820	71	85	148	83
SD78207-4	9	1782	72.9	88	147	100
ID0180	35	1710	71	84	150	93
MT8030	29	1616	69.7	81	148	83
WT177	33	1574	72.9	90	152	100
WT176	32	1522	71	85	153	100
WT179	34	1495	71	85	152	93
CI1442	1	1385	69.7	90	149	100
MT7877	31	1262	67.1	66	151	82

MEAN	1974
LSD(.05)	423
C.V.	13.2

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:	: WINTER : SURVIVAL : %
NE82438	14	2973	77.4	69	144	92
ND8212	15	2851	74.8	85	147	95
XH696	25	2829	77.4	70	140	95
MT8039	30	2769	74.8	73	147	90
SD76463-16	5	2768	77.4	80	142	95
ND8286	17	2760	76.1	76	146	95
XNH1359	26	2735	77.4	70	141	92
SD79892	8	2718	77.4	73	146	92
ND8215	16	2672	73.5	84	145	92
NE82652	11	2665	74.8	71	143	93
PI476975	3	2648	75.5	65	141	97
NA-81-362-5	24	2646	78.7	60	139	92
WT176	32	2614	77.4	81	149	93
ND8382	18	2608	76.1	71	148	92
CI17439	2	2582	76.8	80	145	95
ID0180	35	2555	77.4	73	149	95
WT177	33	2489	74.8	82	147	98
WT179	34	2475	76.8	73	149	93
BOUNTY-301	27	2460	76.8	72	142	93
NE82656	12	2443	76.1	69	142	95
RL845455	23	2443	72.9	64	143	93
ND8407	19	2438	76.1	80	143	95
KS82H4	36	2421	78	67	138	95
SD791117	6	2325	76.1	67	138	93
SD82114	7	2312	77.4	67	141	88
MT8030	29	2299	77.4	70	146	93
RL845496	20	2260	76.1	73	143	93
SD78207-4	9	2252	78.7	71	147	92
SD791231	10	2175	76.1	70	146	92
BOUNTY-205	28	2130	76.1	69	141	95
RL845504	21	2121	75.5	77	144	95
NE82658	13	2067	74.8	68	141	92
SD82144	4	2063	76.1	75	140	92
RL845457	22	2037	74.2	77	141	92
MT7877	31	1982	76.1	58	147	87
CI1442	1	1835	77.4	83	147	90

MEAN	2456
LSD(.05)	374
C.V.	9.3

SHERIDAN

WYOMING

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:
SD791117	6	4036	79.3	75	143
XNH1359	26	3894	79.6	74	143
MT8030	29	3880	81.8	64	144
ND8212	15	3603	77.5	66	147
SD82144	4	3562	81.1	68	143
MT7877	31	3557	79.3	47	146
BOUNTY-301	27	3506	77.7	68	143
KS82H4	36	3443	79.2	71	141
SD79892	8	3363	79.6	61	145
ID0180	35	3349	82.3	57	149
XH696	25	3299	79.9	62	143
WT176	32	3288	79.3	67	148
SD76463-16	5	3260	78.7	74	143
NA-81-362-5	24	3258	78.3	59	142
ND8215	16	3240	78.4	65	147
ND8407	19	3229	78.7	75	143
NE82652	11	3216	74.9	64	144
NE82658	13	3105	76.8	64	143
RL845457	22	3087	76.5	72	145
CI1442	1	3002	81.4	66	148
ND8382	18	2971	81	62	145
WT177	33	2961	78	73	147
BOUNTY-205	28	2953	77.9	70	143
PI476975	3	2944	80.1	62	142
WT179	34	2935	79.7	65	149
RL845496	20	2691	77.4	62	147
MT8039	30	2689	78.9	63	145
RL845504	21	2688	77.5	69	146
NE82656	12	2646	76.2	70	142
NE82438	14	2640	78.9	55	145
ND8286	17	2401	79.9	66	146
SD82114	7	2290	79.6	66	143
CI17439	2	2235	80.8	68	146
SD78207-4	9	2215	81.9	59	146
SD791231	10	2118	78.4	64	145
RL845455	23	1733	77.9	59	145

MEAN	3036
LSD(.05)	1114
C.V.	22.5

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:
XH696	25	3090	80	52	156
SD78207-4	9	2934	81.3	58	158
ID0180	35	2819	73.5	56	160
ND8382	18	2812	80	56	161
XNH1359	26	2782	74.8	53	154
NE82656	12	2770	80	52	155
NA-81-362-5	24	2754	77.4	47	155
SD791117	6	2661	80	53	155
ND8407	19	2544	77.4	68	158
ND8212	15	2523	77.4	58	159
SD82144	4	2504	74.8	50	154
PI476975	3	2502	81.3	46	154
ND8215	16	2471	78.7	64	159
RL845496	20	2465	81.3	58	159
NE82658	13	2449	80	48	155
MT8030	29	2442	80	49	157
CI17439	2	2441	80	65	160
MT8039	30	2441	74.8	56	157
NE82652	11	2433	78.7	52	157
SD76463-16	5	2426	78.7	54	155
RL845455	23	2382	80	50	156
SD791231	10	2364	80	60	157
BOUNTY-205	28	2364	80	53	154
KS82H4	36	2362	81.3	47	153
CI1442	1	2327	80	63	158
WT177	33	2309	80	61	162
MT7877	31	2291	77.4	50	159
SD79892	8	2251	81.3	52	157
BOUNTY-301	27	2188	74.8	49	155
RL845457	22	2163	74.8	59	156
ND8286	17	2142	77.4	62	159
WT179	34	2126	78.7	59	164
WT176	32	2118	76.1	69	164
NE82438	14	1905	78.7	49	158
SD82114	7	1884	80	49	156
RL845504	21	1718	76.1	62	158

MEAN	2421
LSD(.05)	N.S.
C.V.	17.5

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:
ID0180	35	5538	81.1	92	159
ND8286	17	4924	80	93	158
NE82438	14	4697	79.1	81	154
WT176	32	4689	79.1	103	160
XNH1359	26	4617	81.1	97	155
ND8215	16	4570	77.8	101	158
MT8039	30	4487	78.6	87	155
ND8382	18	4455	78.7	90	158
RL845496	20	4425	78.8	91	157
ND8212	15	4408	77.9	91	158
WT177	33	4361	79.4	102	160
XH696	25	4334	80.2	83	154
WT179	34	4302	79.9	98	161
MT8030	29	4280	81.3	90	156
CI17439	2	4170	80	100	157
SD79892	8	4160	80.5	88	158
NE82652	11	4035	79.4	87	153
SD78207-4	9	4023	81.2	88	157
SD82144	4	3989	80.3	85	151
RL845504	21	3988	79.8	101	157
SD76463-16	5	3912	80.8	92	153
BOUNTY-301	27	3887	79.4	88	152
MT7877	31	3864	79	68	160
SD791117	6	3779	80.7	88	151
KS82H4	36	3633	80.8	76	148
BOUNTY-205	28	3508	79.1	77	150
NA-81-362-5	24	3447	80.9	67	154
PI476975	3	3444	79.7	71	150
CI1442	1	3420	79.7	112	157
RL845457	22	3320	78.2	89	155
ND8407	19	3247	78.4	107	157
SD82114	7	3205	79.5	84	156
SD791231	10	3157	79.3	89	157
NE82656	12	3094	78.4	83	150
NE82658	13	3020	78.7	79	150
RL845455	23	2687	76.3	73	153

MEAN	3974
LSD(.05)	602
C.V.	9.3

SIDNEY
MONTANA
FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: WINTER SURVIVAL %
XNH1359	26	3783	81.7	80	141	100
WT176	32	3458	80.3	89	153	100
MT8039	30	3363	79.8	75	143	100
XH696	25	3208	81	77	141	100
MT7877	31	3179	83.3	62	146	100
ND8407	19	3110	79.6	84	146	100
NA-81-362-5	24	3070	84.3	65	141	100
MT8030	29	3070	81.6	73	141	98
ND8212	15	3057	79.8	81	150	100
NE82652	11	3053	80	73	144	100
NE82438	14	3053	80.7	74	145	100
ND8215	16	3038	78.3	83	149	100
PI476975	3	3035	81.5	65	142	98
ID0180	35	3031	82.5	71	150	100
CI17439	2	3021	81.7	83	150	100
SD79892	8	3016	80.7	77	146	100
SD76463-16	5	3009	82.6	81	141	100
RL845504	21	2996	80.3	83	147	100
ND8382	18	2924	81.5	74	149	100
SD78207-4	9	2917	82.7	73	146	100
ND8286	17	2914	82.1	74	149	100
SD82144	4	2909	81.6	77	141	100
KS82H4	36	2907	83.7	72	141	100
NE82656	12	2882	80.8	74	143	100
RL845457	22	2875	81.1	86	144	100
WT179	34	2855	81	80	152	100
RL845496	20	2813	81.1	74	145	100
NE82658	13	2767	80.4	78	141	100
CI1442	1	2734	79.9	88	149	100
BOUNTY-301	27	2673	81.4	74	142	73
WT177	33	2663	80.7	84	150	100
SD82114	7	2656	79.9	76	141	100
SD791117	6	2512	81.8	74	141	100
BOUNTY-205	28	2503	81.7	70	141	100
SD791231	10	2381	80.3	74	147	100
RL845455	23	2313	81.9	69	144	83

MEAN	2937
LSD(.05)	436
C.V.	10.6

BOZEMAN

MONTANA

FOUR REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD KG/HA	: VOLUME KG/HL	: PLANT HEIGHT CM	: DAYS TO HEADING FROM 1/1:	: LODGING 0-9	: STEM RUST: SEV.:RESP:	: STRIPE RUST	: SEV.:RESP:
XNH1359	26	5810	78.4	108	158	2.5	70 8	5 4	
MT8039	30	5543	80	101	154	0	5 2	10 4	
BOUNTY-301	27	5405	78.9	98	154	1.5	5 3	70 8	
ID0180	35	5158	77.9	99	159	0.8	90 8	5 .	
SD791117	6	5048	78.4	96	153	0.8	10 8	90 8	
BOUNTY-205	28	4947	76.9	96	153	1	10 3	90 8	
RL845504	21	4945	78.9	109	156	1.8	5 2	3 3	
MT8030	29	4881	81	94	153	1.5	20 3	40 3	
SD76463-16	5	4815	78.9	101	157	1.8	80 8	20 4	
NE82656	12	4730	78.9	95	153	0	0 2	90 8	
XH696	25	4728	78.9	98	153	2.8	10 3	1 1	
ND8215	16	4716	78.4	111	156	1.8	10 3	1 1	
NE82652	11	4611	78.4	98	153	1	5 2	90 8	
RL845496	20	4586	75.3	102	158	2.3	10 2	0 2	
ND8286	17	4575	79.5	103	157	1.3	10 2	30 7	
WT179	34	4566	75.9	105	162	3.5	10 3	50 4	
WT176	32	4551	77.4	109	162	2	60 8	5 4	
PI476975	3	4482	77.4	80	151	0	0 2	70 5	
MT7877	31	4371	75.9	71	160	0	40 3	5 3	
ND8212	15	4364	77.4	108	157	1.8	5 2	90 8	
CI17439	2	4312	79.5	108	158	1.5	10 3	50 5	
ND8382	18	4304	77.9	99	157	2	5 2	30 3	
SD79892	8	4298	78.4	99	156	1.5	5 2	70 8	
NE82438	14	4283	78.9	89	157	0	0 2	90 8	
KS82H4	36	4241	77.9	88	151	0.3	20 2	5 3	
SD82114	7	4095	78.9	94	154	2.5	20 3	90 8	
SD78207-4	9	3956	78.4	102	156	1.3	10 2	5 4	
SD82144	4	3911	75.9	103	154	2	5 2	20 3	
SD791231	10	3871	77.4	99	156	1.5	20 3	0 5	
ND8407	19	3798	76.9	112	156	3.3	10 2	30 4	
NA-81-362-5	24	3748	80.5	78	153	0.3	30 8	50 3	
RL845457	22	3660	75.3	109	156	1	10 2	20 8	
RL845455	23	3608	75.3	89	154	0.8	5 2	30 8	
WT177	33	3517	75.9	104	160	4	5 3	50 4	
NE82658	13	3422	77.4	92	152	0	0 2	90 8	
CI1442	1	3297	77.9	107	158	3.8	80 8	40 4	

MEAN 4421
 LSD(.05) 679
 C.V. 11.0

ROCKLAND

IDAHO

THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL	: PLANT : HEIGHT : CM	: LODGING : 0-9
ID0180	35	4351	82.6	102	2
XNH1359	26	4304	80.5	109	3
SD82144	4	4223	81	104	3
XH696	25	4217	78.4	100	3
MT8039	30	3894	79.5	100	2
NA-81-362-5	24	3880	81.9	79	1
BOUNTY-205	28	3880	79.1	94	3
SD79892	8	3871	81.5	105	3
ND8382	18	3831	80.6	102	3
MT8030	29	3815	81.9	90	3
BOUNTY-301	27	3777	78.4	100	2
MT7877	31	3730	81.7	79	2
NE82652	11	3717	79.7	93	3
ND8286	17	3701	81.7	103	3
SD82114	7	3634	81	93	3
WT176	32	3587	80.1	119	3
KS82H4	36	3578	81	94	2
NE82656	12	3517	78.4	103	3
SD791117	6	3508	81.3	105	3
ND8215	16	3412	78.8	109	3
PI476975	3	3403	81	88	2
NE82438	14	3309	80.4	90	3
SD76463-16	5	3266	81.3	112	3
WT179	34	3257	80	118	3
NE82658	13	3181	79.7	95	3
ND8212	15	3161	78.4	109	3
SD78207-4	9	3042	82.9	103	3
RL845455	23	2836	80.1	93	3
SD791231	10	2789	80	103	2
RL845504	21	2694	79.3	112	3
CI17439	2	2634	80.4	108	3
CI1442	1	2499	80	119	4
RL845457	22	2410	79.1	112	3
RL845496	20	2318	80.4	100	3
WT177	33	2136	81.3	107	3
ND8407	19	2047	78.9	114	3

MEAN	3372
LSD(.05)	821
C.V.	14.9

ABERDEEN

IDAHO

TWO 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	: STRAW STRENGTH 1-5	: STRIPE RUST SEV.	: RESP:
NE82652	11	8023	79.1	103	147	2	3	40	4
BOUNTY-301	27	7841	80.1	104	146	5	4	75	9
MT8039	30	7660	79.7	116	149	3	4	25	6
MT7877	31	7344	80.4	86	153	2	3	10	4
XH696	25	7300	79.3	104	145	6	5	40	5
BOUNTY-205	28	7297	79.1	102	145	6	5	45	8
KS82H4	36	7273	80.9	95	144	3	4	50	6
ID0180	35	7260	80.6	117	156	4	4	20	6
XNH1359	26	7199	81	112	146	5	5	20	5
NE82438	14	6883	80	105	150	1	3	50	9
PI476975	3	6701	79.3	89	144	1	3	30	5
NA-81-362-5	24	6658	81.9	86	145	2	3	35	4
NE82658	13	6604	79.3	100	145	5	4	50	9
SD82114	7	6560	80.6	107	147	7	5	50	7
SD79892	8	6476	81.4	113	152	4	4	40	6
NE82656	12	6459	78.8	100	144	3	4	50	8
ND8382	18	6456	80.4	110	151	7	5	60	8
MT8030	29	6416	80.4	104	149	5	4	30	5
SD82144	4	6311	79.1	113	146	5	5	50	4
SD791117	6	6264	81	116	145	5	5	50	7
ND8286	17	6113	80.4	119	154	5	4	40	8
SD78207-4	9	5938	81.5	117	151	5	4	25	4
WT176	32	5797	80	123	156	3	4	7	4
ND8212	15	5531	79.1	119	153	5	4	75	8
ND8215	16	5309	78.4	128	152	6	4	30	7
RL845496	20	5289	79.1	118	153	4	4	25	5
CI17439	2	5138	80.1	114	150	4	5	40	6
SD791231	10	4940	79.6	113	149	4	4	10	4
RL845504	21	4882	79.7	122	151	3	3	20	4
RL845455	23	4872	78.4	99	146	2	4	30	8
SD76463-16	5	4613	80.1	109	147	7	5	40	6
WT177	33	4539	79.1	108	153	9	5	30	6
WT179	34	4502	78.8	112	155	8	5	25	4
CI1442	1	4469	78.9	119	153	9	5	40	5
ND8407	19	3998	79.3	123	153	7	5	40	7
RL845457	22	3655	77.8	116	149	1	3	20	7

MEAN 6071
LSD(.05) 1263
C.V. 10.3

LIND
WASHINGTON
THREE REPLICATIONS

C.I. OR SEL. NO.	: ENTRY: NO.	: YIELD : KG/HA	: VOLUME : WEIGHT : KG/HL	: PLANT : HEIGHT : CM	: DAYS TO : HEADING : FROM 1/1:	: STAND : %
XNH1359	26	2080	77.4	75	130	95
CI17439	2	1728	77	74	133	98
WT176	32	1657	75.3	75	135	82
SD76463-16	5	1648	77.7	74	132	93
RL845504	21	1598	76.8	73	132	87
RL845496	20	1569	76.4	70	132	93
CI1442	1	1511	76.2	78	134	80
ND8407	19	1509	76.4	75	132	88
WT179	34	1486	75.7	71	136	85
SD82144	4	1437	76.9	70	130	90
ND8215	16	1435	74.8	75	133	93
BOUNTY-301	27	1392	76.6	69	131	87
BOUNTY-205	28	1367	76.2	75	129	85
ND8212	15	1365	74.6	72	134	93
RL845457	22	1363	74.8	79	132	83
ND8286	17	1361	77.7	71	133	90
SD791117	6	1354	77.7	75	129	91
SD791231	10	1347	77	71	132	85
XH696	25	1302	76.2	69	131	82
SD79892	8	1269	77.5	69	133	83
ID0180	35	1235	76.8	70	135	77
WT177	33	1231	77.1	75	135	87
ND8382	18	1204	75.7	70	134	93
NE82652	11	1186	74.9	73	131	73
SD82114	7	1159	78	66	131	83
MT8039	30	1139	75.7	71	132	75
MT8030	29	989	77.4	69	132	80
PI476975	3	955	76.4	62	130	83
NE82656	12	930	74.3	74	131	73
NE82658	13	928	75.6	69	130	65
SD78207-4	9	910	78.3	70	133	87
NA-81-362-5	24	841	76.6	58	130	80
NE82438	14	762	76.2	64	132	58
MT7877	31	749	77.1	60	134	67
RL845455	23	540	74.8	64	132	90
KS82H4	36	536	76.6	65	129	87

MEAN	1252
LSD(.05)	449
C.V.	22.0

Table 14. Summary of mean yields (kg/ha) of 36 wheats grown in the 1987 Northern Regional Performance Nursery at 21 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	LINCOLN NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	ALLIANCE NEBRASKA	NEBRASKA STATE MEAN
WINTER WHEAT HYBRID	XNH1359	26	2558 6	4325 5	4580 2	4959 4	4106 3
WINTER WHEAT HYBRID	XH696	25	2773 4	4329 4	4492 4	4373 11	3992 5
BRULE//SENTINEL/CENTURK	NE82652	11	1852 30	4053 6	4048 13	4817 7	3693 9
OK11252A/W76-1226	NA-81-362-5	24	3127 1	3402 16	4350 6	5214 1	4023 4
LANCOTA/FROID//NE69559/WNK	MT8039	30	1789 32	3739 10	4232 8	4936 5	3674 10
BOUNTY HYBRID WHEAT	BOUNTY-205	28	2952 2	4371 3	5045 1	5116 2	4371 1
BOUNTY HYBRID WHEAT	BOUNTY-301	27	2872 3	4558 1	4515 3	5001 3	4236 2
BRULE/3/PKR*4/AGENT//BELOT. 198/LCR	NE82656	12	1724 33	4384 2	4267 7	4888 6	3816 7
NORKAN (PLV/3/2*LARNED/EAGLE//SAGE)	KS82H4	36	2466 7	3899 9	4408 5	4743 8	3879 6
TURKEY/BURT//BEZOSTAYA 1	ID0180	35	1545 35	3496 14	3385 31	4232 14	3164 22
CI15322//AGATE/4*SUT66/3/CTK78/4/SD74221	SD82144	4	2076 17	3626 12	3549 27	3595 24	3211 19
SD75375/OK711248-1	SD791117	6	2251 13	2887 29	3703 21	4226 15	3267 18
RRR*2/1809	ND8286	17	2260 12	3533 13	3848 16	4358 12	3499 13
COLT	PI476975	3	2060 18	4044 8	4181 9	4527 9	3703 8
CI15322//3*(AGENT/4*SCOUT 66)	SD76463-16	5	2244 14	3312 19	3970 14	3637 22	3291 17
RRR/3/FROID//WINOKA/WM8	ND8215	16	2372 8	2700 33	3505 28	3409 31	2996 29
KHARKOV 22 MC/BEZOSTAYA1	WT176	32	2031 19	3255 22	3804 18	3523 28	3153 23
CI15322//4*(AGENT/4*SCOUT 66)	SD79892	8	1926 25	3226 23	3615 23	4011 19	3194 21
TX65A268/FROID//YTO 117-20/CTK	MT8030	29	1867 29	2561 35	3727 19	4130 18	3071 25
HPL/WINGS/3/PKR*4/AGENT//BEL.198/LCR	NE82438	14	1926 25	3739 11	4115 10	4315 13	3524 12
RRR//YOGO/TRAPPER	ND8212	15	2322 10	2844 30	3584 24	3299 33	3012 27
SD74221*2/LATHROP	SD82114	7	2369 9	3447 15	3879 15	4178 17	3468 14
BRULE/3/PKR*4/AGENT//BELOT. 198/LCR	NE82658	13	2127 16	4050 7	4106 11	4410 10	3673 11
WINOKA/XR77234	ND8382	18	1968 22	3146 24	3286 33	3578 25	2995 30
77W4593 SIB/HIPLAINS	RL845496	20	2237 15	3013 26	3709 20	4210 16	3292 16
SD76109/ROSE	SD7B207-4	9	1993 21	3283 21	3666 22	3616 23	3139 24
ROUGH RIDER	CI17439	2	1791 31	2809 31	3574 25	3506 29	2920 32
77W4593 SIB/FROID	RL845504	21	1946 23	3360 17	3160 34	3549 26	3004 28
NORSTAR/RRR	WT179	34	1596 34	3003 27	3391 30	3426 30	2854 33
SD76669*2/KS71591	SD791231	10	2320 11	3315 18	3837 17	3800 20	3318 15
CTK/3/FROID*2//ND363/ND269	ND8407	19	2573 5	2793 32	3414 29	3339 32	3030 26
NORWIN	MT7877	31	1336 36	2935 28	3350 32	3693 21	2829 34
BIGHORN SIB/76W167	RL845455	23	1899 27	3301 20	4057 12	3537 27	3198 20
FROID/76W167	RL845457	22	2004 20	3104 25	3568 26	3200 34	2969 31
NORSTAR/RRR	WT177	33	1894 28	2551 36	3059 35	2669 36	2543 36
KHARKOF	CI1442	1	1928 24	2686 34	2907 36	2874 35	2599 35
MEAN			2138	3419	3830	4025	3353
LSD(.05)			462	607	424	674	456
C.V.			13.2	10.9	6.8	10.3	10.1

Table 14. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	PRESHO S. DAKOTA	HIGHMORE S. DAKOTA	SOUTH DAKOTA STATE MEAN	WILLISTON N. DAKOTA	CASSELTON N. DAKOTA	CARRINGTON N. DAKOTA	NORTH DAKOTA STATE MEAN
XNH1359	26	3328 5	4008 2	3668 1	2062 3	4872 4	2208 26	3048 6
XH696	25	3436 2	3773 4	3605 3	2105 1	5289 3	2763 5	3386 1
NE82652	11	3416 3	3033 27	3225 11	1908 8	4648 6	2635 8	3063 4
NA-81-362-5	24	3161 10	4140 1	3651 2	1938 6	5492 1	2336 20	3255 2
MT8039	30	3517 1	3580 6	3548 5	1917 7	4409 13	2279 24	2868 15
BOUNTY-205	28	2971 20	3524 7	3247 10	1527 34	4217 19	2173 28	2639 28
BOUNTY-301	27	2981 19	3169 19	3075 21	1503 35	4240 18	1331 36	2358 34
NE82656	12	3380 4	3780 3	3580 4	2082 2	4444 12	2931 2	3152 3
KS82H4	36	2814 27	3291 15	3053 22	1820 12	4451 11	1873 34	2715 23
ID0180	35	2924 23	2900 34	2912 28	1748 22	4633 7	2482 13	2954 10
SD82144	4	3000 18	3233 17	3117 18	1763 19	4540 9	2562 10	2955 9
SD791117	6	2967 21	3382 10	3175 15	1851 10	2770 36	2385 18	2336 35
ND8286	17	3320 6	3498 8	3409 7	1784 13	4542 8	2847 3	3058 5
PI476975	3	3061 16	3096 22	3078 20	1626 31	4377 14	1965 33	2656 26
SD76463-16	5	3159 11	3666 5	3412 6	1985 4	4275 16	2460 14	2907 12
ND8215	16	3025 17	3347 13	3186 14	1758 20	4304 15	2828 4	2963 8
WT176	32	3288 7	3086 23	3187 13	1766 17	4054 24	2518 11	2779 18
SD79892	8	3139 13	3260 16	3200 12	1757 21	4246 17	2441 16	2815 16
MT8030	29	3202 9	2991 30	3096 19	1766 16	4727 5	2168 29	2887 14
NE82438	14	2928 22	3372 11	3150 16	1666 28	5360 2	2101 31	3042 7
ND8212	15	3264 8	3331 14	3298 8	1687 24	4064 23	2933 1	2895 13
SD82114	7	3143 12	3372 11	3257 9	1841 11	3981 27	2485 12	2769 20
NE82658	13	2745 28	3117 21	2931 26	1637 30	4152 21	2199 27	2662 25
ND8382	18	2589 36	3420 9	3005 23	1764 18	4179 20	2292 22	2745 21
RL845496	20	2642 34	3013 28	2827 33	1560 33	3764 31	1839 35	2388 33
SD78207-4	9	3137 14	3153 20	3145 17	1668 27	4048 25	2456 15	2724 22
CI17439	2	2823 25	2996 29	2909 29	1778 14	3808 30	2746 6	2777 19
RL845504	21	2653 33	2912 33	2783 35	1685 25	3727 33	2096 32	2503 32
WT179	34	2918 24	3068 24	2993 24	1678 26	4140 22	2291 23	2703 24
SD791231	10	3087 15	2768 36	2928 27	1567 32	4029 26	2354 19	2650 27
ND8407	19	2720 31	3225 18	2972 25	1890 9	3413 34	2582 9	2628 29
MT7877	31	2822 26	2969 31	2895 32	1972 5	4456 10	2319 21	2916 11
RL845455	23	2656 32	2870 35	2763 36	1444 36	3941 29	2415 17	2600 30
RL845457	22	2737 30	3059 25	2898 30	1772 15	2841 35	2146 30	2253 36
WT177	33	2741 29	3052 26	2896 31	1648 29	3755 32	2235 25	2546 31
CI1442	1	2635 35	2946 32	2790 34	1722 23	3944 28	2691 7	2786 17
MEAN		3009	3261	3135	1768	4226	2371	2788
LSD(.05)		382	414	416	178	827	N.S.	N.S.
C.V.		7.8	7.8	7.8	7.2	12.0	26.8	16.5

Table 14. Continued.

C.I. OR SEL. NO.	: ENTRY: NO.	: ROSEMOUNT MINNESOTA	: WASECA MINNESOTA	: MINNESOTA STATE MEAN	: BOZEMAN MONTANA	: MOCCASIN MONTANA	: SIDNEY MONTANA	: MONTANA STATE MEAN
XNH1359	26	2506 1	2735 7	2621 1	5810 1	4617 5	3783 1	4737 1
XH696	25	1957 22	2829 3	2393 9	4728 11	4334 12	3208 4	4090 7
NE82652	11	2179 10	2665 10	2422 6	4611 13	4035 17	3053 10	3900 16
NA-81-362-5	24	1986 18	2646 12	2316 16	3748 31	3447 27	3070 7	3422 29
MT8039	30	2291 4	2769 4	2530 3	5543 2	4487 7	3363 3	4464 3
BOUNTY-205	28	2325 3	2130 30	2227 19	4947 6	3508 26	2503 34	3653 23
BOUNTY-301	27	2287 5	2460 19	2373 12	5405 3	3887 22	2673 30	3988 10
NE82656	12	2378 2	2443 21	2410 8	4730 10	3094 34	2882 24	3569 27
KS82H4	36	2233 8	2421 23	2327 15	4241 25	3633 25	2907 23	3594 26
ID0180	35	1710 30	2555 16	2132 22	5158 4	5538 1	3031 14	4576 2
SD82144	4	2091 13	2063 33	2077 24	3911 28	3989 19	2909 22	3603 25
SD791117	6	1970 20	2325 24	2148 21	5048 5	3779 24	2512 33	3780 21
ND8286	17	2282 6	2760 6	2521 4	4575 15	4924 2	2914 21	4137 5
PI476975	3	2174 11	2648 11	2411 7	4482 18	3444 28	3035 13	3653 22
SD76463-16	5	2148 12	2768 5	2458 5	4815 9	3912 21	3009 17	3912 14
ND8215	16	2089 14	2672 9	2381 11	4716 12	4570 6	3038 12	4108 6
WT176	32	1522 33	2614 13	2068 26	4551 17	4689 4	3458 2	4233 4
SD79892	8	2047 16	2718 8	2382 10	4298 23	4160 16	3016 16	3825 19
MT8030	29	1616 31	2299 26	1958 34	4881 8	4280 14	3070 7	4077 8
NE82438	14	2215 9	2973 1	2594 2	4283 24	4697 3	3053 11	4011 9
ND8212	15	1858 27	2851 2	2354 13	4364 20	4408 10	3057 9	3943 12
SD82114	7	1914 23	2312 25	2113 23	4095 26	3205 32	2656 32	3319 31
NE82658	13	2060 15	2067 32	2063 27	3422 35	3020 35	2767 28	3070 35
ND8382	18	1968 21	2608 14	2288 17	4304 22	4455 8	2924 19	3894 17
RL845496	20	1820 28	2260 27	2040 28	4586 14	4425 9	2813 27	3941 13
SD78207-4	9	1782 29	2252 28	2017 31	3956 27	4023 18	2917 20	3632 24
CI17439	2	1977 19	2582 15	2280 18	4312 21	4170 15	3021 15	3835 18
RL845504	21	2024 17	2121 31	2072 25	4945 7	3988 20	2996 18	3976 11
WT179	34	1495 34	2475 18	1985 32	4566 16	4302 13	2855 26	3908 15
SD791231	10	1899 25	2175 29	2037 29	3871 29	3157 33	2381 35	3136 34
ND8407	19	1905 24	2438 22	2172 20	3798 30	3247 31	3110 6	3385 30
MT7877	31	1262 36	1982 35	1622 35	4371 19	3864 23	3179 5	3805 20
RL845455	23	2239 7	2443 20	2341 14	3608 33	2687 36	2313 36	2869 36
RL845457	22	1885 26	2037 34	1961 33	3660 32	3320 30	2875 25	3285 32
WT177	33	1574 32	2489 17	2031 30	3517 34	4361 11	2663 31	3513 28
CI1442	1	1385 35	1835 36	1610 36	3297 36	3420 29	2734 29	3150 33
MEAN		1974	2456	2215	4421	3974	2937	3778
LSD(.05)		423	374	448	679	602	436	636
C.V.		13.2	9.3	11.0	11.0	9.3	10.6	10.6

Table 14. Continued.

C.I. OR SEL. NO.	ENTRY: NO.	ARCHER WYOMING	SHERIDAN WYOMING	WYOMING STATE MEAN	ABERDEEN IDAHO	ROCKLAND IDAHO	IDAHO STATE MEAN
XNH1359	26	2782 5	3894 2	3338 2	7199 9	4304 2	5752 6
XH696	25	3090 1	3299 11	3195 3	7300 5	4217 4	5758 5
NE82652	11	2433 19	3216 17	2825 16	8023 1	3717 13	5870 1
NA-81-362-5	24	2754 7	3258 14	3006 8	6658 12	3880 6	5269 10
MT8039	30	2441 17	2689 27	2565 28	7660 3	3894 5	5777 4
BOUNTY-205	28	2364 23	2953 23	2659 23	7297 6	3880 7	5588 7
BOUNTY-301	27	2188 29	3506 7	2847 14	7841 2	3777 11	5809 2
NE82656	12	2770 6	2646 29	2708 20	6459 16	3517 18	4988 18
KS82H4	36	2362 24	3443 8	2903 10	7273 7	3578 17	5425 9
ID0180	35	2819 3	3349 10	3084 5	7260 8	4351 1	5805 3
SD82144	4	2504 11	3562 5	3033 7	6311 19	4223 3	5267 11
SD791117	6	2661 8	4036 1	3348 1	6264 20	3508 19	4886 21
ND8286	17	2142 31	2401 31	2272 32	6113 21	3701 14	4907 19
PI476975	3	2502 12	2944 24	2723 19	6701 11	3403 21	5052 17
SD76463-16	5	2426 20	3260 13	2843 15	4613 31	3266 23	3940 26
ND8215	16	2471 13	3240 15	2856 13	5309 25	3412 20	4361 24
WT176	32	2118 33	3288 12	2703 21	5797 23	3587 16	4692 22
SD79892	8	2251 28	3363 9	2807 17	6476 15	3871 8	5174 12
MT8030	29	2442 16	3880 3	3161 4	6416 18	3815 10	5115 14
NE82438	14	1905 34	2640 30	2272 31	6883 10	3309 22	5096 16
ND8212	15	2523 10	3603 4	3063 6	5531 24	3161 26	4346 25
SD82114	7	1884 35	2290 32	2087 35	6560 14	3634 15	5097 15
NE82658	13	2449 15	3105 18	2777 18	6604 13	3181 25	4892 20
ND8382	18	2812 4	2971 21	2891 11	6456 17	3831 9	5144 13
RL845496	20	2465 14	2691 26	2578 26	5289 26	2318 34	3804 31
SD78207-4	9	2934 2	2215 34	2575 27	5938 22	3042 27	4490 23
CI17439	2	2441 17	2235 33	2338 30	5138 27	2634 31	3886 27
RL845504	21	1718 36	2688 28	2203 34	4882 29	2694 30	3788 32
WT179	34	2126 32	2935 25	2531 29	4502 33	3257 24	3880 28
SD791231	10	2364 22	2118 35	2241 33	4940 28	2789 29	3864 29
ND8407	19	2544 9	3229 16	2887 12	3998 35	2047 36	3022 36
MT7877	31	2291 27	3557 6	2924 9	7344 4	3730 12	5537 8
RL845455	23	2382 21	1733 36	2057 36	4872 30	2836 28	3854 30
RL845457	22	2163 30	3087 19	2625 25	3655 36	2410 33	3032 35
WT177	33	2309 26	2961 22	2635 24	4539 32	2136 35	3338 34
CI1442	1	2327 25	3002 20	2665 22	4469 34	2499 32	3484 33
MEAN		2421	3036	2728	6071	3372	4722
LSD(.05)		N.S.	1114	N.S.	1263	821	1063
C.V.		17.5	22.5	20.7	10.3	14.9	12.3

Table 14. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	CLOVIS (DRYL.) NEW MEXICO	CLOVIS (IRR.) NEW MEXICO	NEW MEXICO STATE MEAN	LIND* WASHINGTON	REGIONAL AVERAGE
XNH1359	26	5328 1	7012 4	6170 1	2080 1	4144 1
XH696	25	4225 9	7388 1	5806 3	1302 19	3995 2
NE82652	11	4697 3	7022 3	5860 2	1186 24	3803 3
NA-81-362-5	24	4391 7	6277 8	5334 6	841 32	3764 4
MT8039	30	4219 10	5345 21	4782 17	1139 26	3755 5
BOUNTY-205	28	3602 24	7049 2	5326 8	1367 13	3723 6
BOUNTY-301	27	4414 6	5820 15	5117 11	1392 12	3721 7
NE82656	12	3759 19	6557 5	5158 9	930 29	3656 8
KS82H4	36	4523 4	6134 9	5329 7	536 36	3626 9
IDO180	35	3840 15	4150 32	3995 30	1235 21	3555 10
SD82144	4	4424 5	6509 6	5467 5	1437 10	3522 11
SD791117	6	5032 2	6352 7	5692 4	1354 17	3496 12
ND8286	17	3312 30	4481 30	3897 32	1361 16	3480 13
PI476975	3	3696 21	4984 26	4340 24	955 28	3447 14
SD76463-16	5	4376 8	5496 20	4936 13	1648 4	3440 15
ND8215	16	4044 12	5754 16	4899 14	1435 11	3428 16
WT176	32	3752 20	5848 13	4800 16	1657 3	3427 17
SD79892	8	3578 25	5128 22	4353 22	1269 20	3426 18
MT8030	29	3057 32	5049 25	4053 28	989 27	3397 19
NE82438	14	2946 33	3442 35	3194 35	762 33	3393 20
ND8212	15	3772 17	5102 24	4437 21	1365 14	3378 21
SD82114	7	4204 11	6047 12	5126 10	1159 25	3375 22
NE82658	13	3855 14	6076 11	4966 12	928 30	3357 23
ND8382	18	3392 29	4743 28	4068 27	1204 23	3334 24
RL845496	20	3637 23	6085 10	4861 15	1569 6	3219 25
SD78207-4	9	2741 35	5106 23	3923 31	910 31	3196 26
CI17439	2	3986 13	4700 29	4343 23	1728 2	3151 27
RL845504	21	3656 22	5507 19	4581 19	1598 5	3115 28
WT179	34	3765 18	4301 31	4033 29	1486 9	3104 29
SD791231	10	3576 26	5628 17	4602 18	1347 18	3099 30
ND8407	19	3790 16	4864 27	4327 25	1509 8	3046 31
MT7877	31	677 36	2792 36	1735 36	749 34	3045 32
RL845455	23	2818 34	5833 14	4326 26	540 35	2994 33
RL845457	22	3549 27	5531 18	4540 20	1363 15	2930 34
WT177	33	3222 31	3945 33	3583 34	1231 22	2866 35
CI1442	1	3463 28	3876 34	3669 33	1511 7	2832 36
MEAN		3759	5443	4601	1252	3396
LSD(.05)		767	790	1117	449	299
C.V.		12.5	8.9	10.4	22.0	12.3

* Not included in regional averages.

Table 15. Summary of mean yields (kg/ha) and ranks of 36 wheats grown in the 1987 Northern Regional Performance Nursery at 13 central and northern locations from which a CV of less than 14 and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	LINCOLN NEBRASKA	NORTH PLATTE NEBRASKA	SIDNEY NEBRASKA	ALLIANCE NEBRASKA	PRESHO S. DAKOTA	HIGHMORE S. DAKOTA	CASSELTON N. DAKOTA
XNH1359	26	2558 6	4325 5	4580 2	4959 4	3328 5	4008 2	4872 4
XH696	25	2773 4	4329 4	4492 4	4373 11	3436 2	3773 4	5289 3
MT8039	30	1789 32	3739 10	4232 8	4936 5	3517 1	3580 6	4409 13
NA-81-362-5	24	3127 1	3402 16	4350 6	5214 1	3161 10	4140 1	5492 1
BOUNTY-301	27	2872 3	4558 1	4515 3	5001 3	2981 19	3169 19	4240 18
BOUNTY-205	28	2952 2	4371 3	5045 1	5116 2	2971 20	3524 7	4217 19
NE82438	14	1926 25	3739 11	4115 10	4315 13	2928 22	3372 11	5360 2
ND8286	17	2260 12	3533 13	3848 16	4358 12	3320 6	3498 8	4542 8
NE82656	12	1724 33	4384 2	4267 7	4888 6	3380 4	3780 3	4444 12
NE82652	11	1852 30	4053 6	4048 13	4817 7	3416 3	3033 27	4648 6
KS82H4	36	2466 7	3899 9	4408 5	4743 8	2814 27	3291 15	4451 11
SD76463-16	5	2244 14	3312 19	3970 14	3637 22	3159 11	3666 5	4275 16
ID0180	35	1545 35	3496 14	3385 31	4232 14	2924 23	2900 34	4633 7
PI476975	3	2060 18	4044 8	4181 9	4527 9	3061 16	3096 22	4377 14
WT176	32	2031 19	3255 22	3804 18	3523 28	3288 7	3086 23	4054 24
ND8215	16	2372 8	2700 33	3505 28	3409 31	3025 17	3347 13	4304 15
SD79892	8	1926 25	3226 23	3615 23	4011 19	3139 13	3260 16	4246 17
MT8030	29	1867 29	2561 35	3727 19	4130 18	3202 9	2991 30	4727 5
ND8212	15	2322 10	2844 30	3584 24	3299 33	3264 8	3331 14	4064 23
SD82114	7	2369 9	3447 15	3879 15	4178 17	3143 12	3372 11	3981 27
SD82144	4	2076 17	3626 12	3549 27	3595 24	3000 18	3233 17	4540 9
ND8382	18	1968 22	3146 24	3286 33	3578 25	2589 36	3420 9	4179 20
RL845496	20	2237 15	3013 26	3709 20	4210 16	2642 34	3013 28	3764 31
SD791117	6	2251 13	2887 29	3703 21	4226 15	2967 21	3382 10	2770 36
NE82658	13	2127 16	4050 7	4106 11	4410 10	2745 28	3117 21	4152 21
SD78207-4	9	1993 21	3283 21	3666 22	3616 23	3137 14	3153 20	4048 25
CI17439	2	1791 31	2809 31	3574 25	3506 29	2823 25	2996 29	3808 30
RL845504	21	1946 23	3360 17	3160 34	3549 26	2653 33	2912 33	3727 33
WT179	34	1596 34	3003 27	3391 30	3426 30	2918 24	3068 24	4140 22
SD791231	10	2320 11	3315 18	3837 17	3800 20	3087 15	2768 36	4029 26
MT7877	31	1336 36	2935 28	3350 32	3693 21	2822 26	2969 31	4456 10
ND8407	19	2573 5	2793 32	3414 29	3339 32	2720 31	3225 18	3413 34
RL845455	23	1899 27	3301 20	4057 12	3537 27	2656 32	2870 35	3941 29
RL845457	22	2004 20	3104 25	3568 26	3200 34	2737 30	3059 25	2841 35
WT177	33	1894 28	2551 36	3059 35	2669 36	2741 29	3052 26	3755 32
CI1442	1	1928 24	2686 34	2907 36	2874 35	2635 35	2946 32	3944 28
MEAN		2138	3419	3830	4025	3009	3261	4226
LSD(.05)		462	607	424	674	382	414	827
C.V.		13.2	10.9	6.8	10.3	7.8	7.8	12.0

Table 15. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	WILLISTON N. DAKOTA	ROSEMOUNT MINNESOTA	WASECA MINNESOTA	BOZEMAN MONTANA	MOCCASIN MONTANA	SIDNEY MONTANA	REGIONAL AVERAGE
XNH1359	26	2062 3	2506 1	2735 7	5810 1	4617 5	3783 1	3857 1
XH696	25	2105 1	1957 22	2829 3	4728 11	4334 12	3208 4	3664 2
MT8039	30	1917 7	2291 4	2769 4	5543 2	4487 7	3363 3	3582 3
NA-81-362-5	24	1938 6	1986 18	2646 12	3748 31	3447 27	3070 7	3517 4
BOUNTY-301	27	1503 35	2287 5	2460 19	5405 3	3887 22	2673 30	3504 5
BOUNTY-205	28	1527 34	2325 3	2130 30	4947 6	3508 26	2503 34	3472 6
NE82438	14	1666 28	2215 9	2973 1	4283 24	4697 3	3053 11	3434 7
ND8286	17	1784 13	2282 6	2760 6	4575 15	4924 2	2914 21	3431 8
NE82656	12	2082 2	2378 2	2443 21	4730 10	3094 34	2882 24	3421 9
NE82652	11	1908 8	2179 10	2665 10	4611 13	4035 17	3053 10	3409 10
KS82H4	36	1820 12	2233 8	2421 23	4241 25	3633 25	2907 23	3333 11
SD76463-16	5	1985 4	2148 12	2768 5	4815 9	3912 21	3009 17	3300 12
ID0180	35	1748 22	1710 30	2555 16	5158 4	5538 1	3031 14	3297 13
PI476975	3	1626 31	2174 11	2648 11	4482 18	3444 28	3035 13	3289 14
WT176	32	1766 17	1522 33	2614 13	4551 17	4689 4	3458 2	3203 15
ND8215	16	1758 20	2089 14	2672 9	4716 12	4570 6	3038 12	3193 16
SD79892	8	1757 21	2047 16	2718 8	4298 23	4160 16	3016 16	3186 17
MT8030	29	1766 16	1616 31	2299 26	4881 8	4280 14	3070 7	3163 18
ND8212	15	1687 24	1858 27	2851 2	4364 20	4408 10	3057 9	3149 19
SD82114	7	1841 11	1914 23	2312 25	4095 26	3205 32	2656 32	3107 20
SD82144	4	1763 19	2091 13	2063 33	3911 28	3989 19	2909 22	3103 21
ND8382	18	1764 18	1968 21	2608 14	4304 22	4455 8	2924 19	3092 22
RL845496	20	1560 33	1820 28	2260 27	4586 14	4425 9	2813 27	3081 23
SD791117	6	1851 10	1970 20	2325 24	5048 5	3779 24	2512 33	3052 25
NE82658	13	1637 30	2060 15	2067 32	3422 35	3020 35	2767 28	3052 24
SD78207-4	9	1668 27	1782 29	2252 28	3956 27	4023 18	2917 20	3038 26
CI17439	2	1778 14	1977 19	2582 15	4312 21	4170 15	3021 15	3011 27
RL845504	21	1685 25	2024 17	2121 31	4945 7	3988 20	2996 18	3005 28
WT179	34	1678 26	1495 34	2475 18	4566 16	4302 13	2855 26	2993 29
SD791231	10	1567 32	1899 25	2175 29	3871 29	3157 33	2381 35	2939 30
MT7877	31	1972 5	1262 36	1982 35	4371 19	3864 23	3179 5	2938 31
ND8407	19	1890 9	1905 24	2438 22	3798 30	3247 31	3110 6	2913 32
RL845455	23	1444 36	2239 7	2443 20	3608 33	2687 36	2313 36	2846 33
RL845457	22	1772 15	1885 26	2037 34	3660 32	3320 30	2875 25	2774 34
WT177	33	1648 29	1574 32	2489 17	3517 34	4361 11	2663 31	2767 35
CI1442	1	1722 23	1385 35	1835 36	3297 36	3420 29	2734 29	2639 36
MEAN		1768	1974	2456	4421	3974	2937	3188
LSD(.05)		178	423	374	679	602	436	290
C.V.		7.2	13.2	9.3	11.0	9.3	10.6	10.5

Table 16. Summary of mean yields (kg/ha) and ranks for 13 wheats grown in the Northern Regional Performance Nursery at 19 locations in 1986 and 1987 with state means and ranks.

VARIETY OR PEDIGREE	: : C.I. OR : SEL. NO.	: : ENTRY: : NO. :	: NORTH : PLATTE : NEBRASKA	: : SIDNEY : NEBRASKA	: : ALLIANCE : NEBRASKA	: : NEBRASKA : STATE MEAN	: : ABERDEEN : IDAHO	: :
BRULE/3/PKR*4/AGENT//BELOT. 198/LCR	NE82656	12	4309 1	4400 2	4373 2	4361 1	5503 7	
BRULE//SENTINEL/CENTURK	NE82652	11	3968 2	4293 3	4165 3	4142 2	6965 1	
LANCOTA/FROID//NE69559/WNK	MT8039	30	3538 5	4410 1	4457 1	4135 3	6558 4	
COLT	PI476975	3	3737 4	4128 4	4126 6	3997 5	6897 2	
BRULE/3/PKR*4/AGENT//BELOT. 198/LCR	NE82658	13	3907 3	4081 5	4130 5	4040 4	6080 5	
TX65A268/FROID//YTO 117-20/CTK	MT8030	29	3067 9	3950 7	4140 4	3719 6	5886 6	
CI15322//3*(AGENT/4*SCOUT 66)	SD76463-16	5	3210 7	3940 8	3627 10	3592 7	4354 12	
CI15322//AGATE/4*SUT66/3/CTK78/4/SD74221	SD82144	4	3259 6	3982 6	3520 11	3587 8	5271 9	
SD75375/OK711248-1	SD791117	6	2789 11	3915 9	4002 7	3568 9	5159 10	
SD74221*2/LATHROP	SD82114	7	3184 8	3603 11	3875 8	3554 10	5456 8	
CI15322//4*(AGENT/4*SCOUT 66)	SD79892	8	2904 10	3735 10	3701 9	3447 11	5073 11	
NORWIN	MT7877	31	2328 13	3160 12	3358 12	2949 12	6879 3	
KHARKOF	CI1442	1	2447 12	3133 13	2981 13	2854 13	3478 13	
	MEAN		3273	3902	3881	3685	5658	
	LSD(.05)		798	606	690	518	1369	
	C.V.		9.5	7.9	9.2	8.9	15.1	

Table 16. Continued.

C.I. OR	:	:	:	:	SOUTH	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
SEL. NO.	:	ENTRY:	PRESHO	:	HIGHMORE	:	DAKOTA	:	WILLISTON	:	CASSELTON	:	CARRINGTON	:	DAKOTA	:	STATE MEAN	:	STATE MEAN	:	:
	:	NO.	S. DAKOTA	:	S. DAKOTA	:	STATE MEAN	:	N. DAKOTA	:	N. DAKOTA	:	N. DAKOTA	:	STATE MEAN	:		:		:	:
NE82656	:	12	2989	1	5269	1	4129	1	2238	1	5009	1	2283	2	3177	1					
NE82652	:	11	2824	4	3919	8	3372	7	2104	4	4876	2	2091	7	3024	2					
MT8039	:	30	2963	2	4444	5	3703	2	2136	3	4410	8	1863	13	2803	8					
PI476975	:	3	2679	5	3600	9	3139	8	1825	13	4703	4	2068	10	2865	7					
NE82658	:	13	2462	6	4756	2	3609	3	1943	11	4691	5	2036	11	2890	6					
MT8030	:	29	2860	3	4011	6	3436	6	2155	2	4430	7	2172	5	2919	5					
SD76463-16	:	5	2459	7	4591	3	3525	4	2083	5	4537	6	2185	4	2935	4					
SD82144	:	4	2159	11	3427	10	2793	11	1938	12	4765	3	2284	1	2996	3					
SD791117	:	6	2164	10	3954	7	3059	9	1963	9	3627	12	2153	6	2581	12					
SD82114	:	7	2400	8	4530	4	3465	5	1963	8	4261	9	2088	8	2771	9					
SD79892	:	8	2358	9	3347	11	2852	10	1979	7	4188	10	2018	12	2728	10					
MT7877	:	31	2074	13	2580	13	2327	13	2077	6	3440	13	2077	9	2531	13					
CI1442	:	1	2117	12	2952	12	2535	12	1945	10	3709	11	2215	3	2623	11					
MEAN	:		2504		3948		3226		2027		4357		2118		2834						
LSD(.05)	:		597		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.						
C.V.	:		11.7		17.2		15.9		7.0		9.4		18.4		11.5						

Table 16. Continued.

C.I. OR SEL. NO.	: ENTRY: NO.	: ARCHER WYOMING	: SHERIDAN WYOMING	: WYOMING STATE MEAN	: MOCCASIN MONTANA	: SIDNEY MONTANA	: BOZEMAN MONTANA	: MONTANA STATE MEAN
NE82656	12	2064 2	2989 11	2526 10	3332 9	3218 5	4665 3	3738 5
NE82652	11	1977 7	3642 6	2809 4	3961 2	3129 8	4390 7	3827 4
MT8039	30	2035 6	3557 7	2796 5	4248 1	3501 2	5293 1	4348 1
PI476975	3	2040 5	3219 8	2630 8	3258 11	3446 3	4492 6	3732 6
NE82658	13	1746 11	3719 3	2733 7	3064 13	3139 6	3937 12	3380 12
MT8030	29	1916 8	3863 2	2889 2	3796 4	3336 4	4922 2	4018 2
SD76463-16	5	2043 4	3200 9	2622 9	3383 8	3660 1	4571 5	3872 3
SD82144	4	2046 3	3644 5	2845 3	3439 7	2818 12	4583 4	3613 8
SD791117	6	2136 1	4014 1	3075 1	3610 5	2360 13	4279 10	3416 11
SD82114	7	1618 13	2956 12	2287 12	3293 10	2852 10	4344 8	3496 10
SD79892	8	1829 10	3648 4	2738 6	3892 3	3075 9	4128 11	3698 7
MT7877	31	1733 12	3104 10	2418 11	3489 6	2826 11	4334 9	3550 9
CI1442	1	1894 9	2558 13	2226 13	3252 12	3137 7	3412 13	3267 13
MEAN		1927	3401	2664	3540	3115	4412	3689
LSD(.05)		N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
C.V.		15.2	17.8	17.8	11.7	21.2	14.6	16.2

Table 16. Concluded.

C.I. OR SEL. NO.	: : NO.	: CLOVIS (IRR.)	: CLOVIS (DRYL.)	: NEW MEXICO STATE MEAN	: ROSEMOUNT MINNESOTA	: WASECA MINNESOTA	: MINNESOTA STATE MEAN	: LIND* WASHINGTON	: REGIONAL AVERAGE
NE82656	12	5273 1	2881 6	4077 5	2740 4	3888 1	3314 1	1247 8	3746 1
NE82652	11	5258 2	3369 2	4314 1	2987 3	3289 2	3138 3	1518 3	3734 2
MT8039	30	4275 8	3104 5	3689 8	3230 2	3036 6	3133 4	1503 4	3726 3
PI476975	3	4246 9	2829 7	3537 9	3258 1	3271 3	3265 2	1204 9	3546 4
NE82658	13	4866 5	2754 9	3810 6	2414 6	3244 5	2829 5	1123 13	3498 5
MT8030	29	3989 10	2326 12	3157 11	2424 5	2664 11	2544 9	1184 11	3439 6
SD76463-16	5	4864 6	3317 4	4091 4	2320 8	3246 4	2783 6	1570 1	3422 7
SD82144	4	4936 4	3349 3	4142 3	2316 9	2738 10	2527 10	1330 6	3360 8
SD791117	6	5041 3	3512 1	4277 2	2054 11	2763 9	2409 11	1431 5	3305 9
SD82114	7	4796 7	2805 8	3801 7	2131 10	2972 7	2551 8	1156 12	3285 10
SD79892	8	3967 11	2717 10	3342 10	2401 7	2883 8	2642 7	1264 7	3213 11
MT7877	31	2523 13	843 13	1683 13	1873 12	2060 12	1966 12	1195 10	2820 12
CI1442	1	3542 12	2553 11	3048 12	1611 13	1733 13	1672 13	1552 2	2704 13
MEAN		4429	2797	3613	2443	2930	2687	1329	3370
LSD(.05)		1373	1275	1231	N.S.	N.S.	N.S.	N.S.	364
C.V.		11.1	13.9	12.3	15.6	11.6	13.5	18.2	14.0

* Not included in regional means.

Table 17. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 36 entries in the 1987 Northern Regional Performance Nursery grown at 21 locations.

C.I. OR SEL. NO.	ENTRY: NO.	MEAN YIELD : OVER 21 : LOCATIONS : KG/HA :	REGRESSION : COEFFICIENT : (b)	CORRELATION : COEFFICIENT : (r)	COEFFICIENT : OF : DETERMINATION : (r ²)
XNH1359	26	4144	1.29	0.98	0.96
XH696	25	3995	1.26	0.97	0.95
NE82652	11	3803	1.38	0.98	0.95
NA-81-362-5	24	3764	1.09	0.92	0.85
MT8039	30	3755	1.24	0.97	0.93
BOUNTY-205	28	3723	1.32	0.94	0.89
BOUNTY-301	27	3721	1.34	0.95	0.90
NE82656	12	3656	1.11	0.94	0.88
KS82H4	36	3626	1.21	0.97	0.94
ID0180	35	3555	1.12	0.90	0.80
SD82144	4	3522	1.09	0.95	0.91
SD791117	6	3496	1.07	0.90	0.81
ND8286	17	3480	0.92	0.93	0.86
PI476975	3	3447	1.05	0.97	0.93
SD76463-16	5	3440	0.80	0.93	0.87
ND8215	16	3428	0.90	0.94	0.89
WT176	32	3427	1.02	0.96	0.93
SD79892	8	3426	1.00	0.98	0.96
MT8030	29	3397	1.07	0.95	0.89
NE82438	14	3393	0.99	0.86	0.74
ND8212	15	3378	0.83	0.95	0.90
SD82114	7	3375	1.10	0.96	0.92
NE82658	13	3357	1.10	0.95	0.90
ND8382	18	3334	0.96	0.96	0.91
RL845496	20	3219	1.03	0.95	0.90
SD78207-4	9	3196	0.92	0.96	0.91
CI17439	2	3151	0.81	0.94	0.89
RL845504	21	3115	0.93	0.94	0.89
WT179	34	3104	0.80	0.92	0.85
SD791231	10	3099	0.88	0.94	0.89
ND8407	19	3046	0.58	0.86	0.74
MT7877	31	3045	0.94	0.73	0.54
RL845455	23	2994	0.86	0.89	0.80
RL845457	22	2930	0.66	0.85	0.72
WT177	33	2866	0.66	0.88	0.78
CI1442	1	2832	0.64	0.91	0.83

Table 18. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 13 entries in the 1986 and 1987 Northern Regional Performance Nursery grown at 19 locations.

C.I. OR SEL. NO.	: : NO. :	: MEAN YIELD : : OVER 19 : : KG/HA :	: : REGRESSION : : COEFFICIENT : : (b) :	: : CORRELATION : : COEFFICIENT : : (r) :	: COEFFICIENT : : OF : : DETERMINATION : : (r^2) :
NE82656	12	3746	1.10	0.91	0.82
NE82652	11	3734	1.24	0.97	0.94
MT8039	30	3726	1.14	0.96	0.92
PI476975	3	3546	1.04	0.92	0.84
NE82658	13	3498	1.15	0.94	0.88
MT8030	29	3439	1.01	0.94	0.89
SD76463-16	5	3422	0.84	0.89	0.80
SD82144	4	3360	1.02	0.93	0.87
SD791117	6	3305	0.99	0.90	0.81
SD82114	7	3285	1.09	0.96	0.93
SD79892	8	3213	0.90	0.95	0.90
MT7877	31	2820	0.90	0.73	0.54
CI1442	1	2704	0.58	0.81	0.66

Table 19. Summary of agronomic and yield data for 36 wheats in the Northern Regional Performance Nursery.

C.I. OR SEL. NO.	: ENTRY : : NO. :	PLANT : HEIGHT : CM :	LODGING : : 0-9 :	DAYS TO : : HEADING : FROM 1/1:	WINTER : : SURVIVAL : %	STRIPE : : RUST : : SEVERITY:	STEM RUST : : SEVERITY : %	VOLUME : : WEIGHT : KG/HL :	YIELD : : KG/HA :
NUMBER OF TRIALS	19	4	18	5	2	1	19	21	
XNH1359	26	85	3	146	91	13	70	77.5	4144
XH696	25	79	3	146	93	21	10	76.9	3995
NE82652	11	78	2	147	88	65	5	75.8	3803
NA-81-362-5	24	66	1	145	94	43	30	78.9	3764
MT8039	30	82	1	147	89	18	5	75.5	3755
BOUNTY-205	28	78	3	145	87	68	10	76.4	3723
BOUNTY-301	27	79	2	146	76	73	5	76.7	3721
NE82656	12	79	2	145	88	70	0	76.3	3656
KS82H4	36	74	1	144	91	28	20	78.1	3626
ID0180	35	81	2	151	95	13	90	75.9	3555
SD82144	4	83	3	146	90	35	5	76.8	3522
SD791117	6	81	2	145	83	70	10	77.7	3496
ND8286	17	85	2	150	98	35	10	76.7	3480
PI476975	3	68	1	145	92	50	0	76.5	3447
SD76463-16	5	85	3	146	88	30	80	78.1	3440
ND8215	16	92	3	149	96	16	10	74.8	3428
WT176	32	92	2	152	95	6	60	75.9	3427
SD79892	8	81	2	148	91	55	5	77.7	3426
MT8030	29	78	3	148	90	35	20	77.2	3397
NE82438	14	74	1	148	92	70	0	76	3393
ND8212	15	89	3	150	97	83	5	74.9	3378
SD82114	7	78	3	146	84	70	20	77.7	3375
NE82658	13	76	2	146	85	70	0	76.5	3357
ND8382	18	83	3	149	95	45	5	76.2	3334
RL845496	20	83	2	149	87	13	10	76.3	3219
SD78207-4	9	80	2	148	94	15	10	78.5	3196
CI17439	2	89	2	149	98	45	10	77.5	3151
RL845504	21	88	2	148	91	12	5	76.3	3115
WT179	34	89	4	152	94	38	10	76.2	3104
SD791231	10	81	2	148	92	5	20	77.1	3099
ND8407	19	91	3	148	93	35	10	76.3	3046
MT7877	31	65	1	150	92	8	40	75.8	3045
RL845455	23	72	1	147	88	30	5	76.3	2994
RL845457	22	87	1	147	91	20	10	75.9	2930
WT177	33	90	4	151	98	40	5	76.4	2866
CI1442	1	93	5	150	94	40	80	76.5	2832

Table 20. Seedling reaction of the 1987 Uniform Northern Regional Hard Red Winter Wheat Performance Nursery to selected isolates of *Puccinia graminis* f. sp. *tritici*. (By D. V. McVey, USDA, ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN.)

No.	Name or Sel. No.	Reaction Produced by Isolates							Spec. Sr Gene
		72-00-1370C QFBS	69-21-399 QSHS	71-21-584B RHRS	72-25-639C RKQS	72-00-53A RTQQ	72-01-4A TNMH	74-21-1409A TNMK	
		151		11-32-113			15B-2		
1	Kharkof	S	S	S	S	S	S	S	None
2	Roughrider	2=	0	S	S	S	S	S	36,+
3	Colt	0;	2=	2	2-	0;	;	;1	6,17,+
4	SD 82144	2	2-	2	S	2=	;;2	S	+
5	SD 76463-16	2	2-	2=	2	;	;;2-	2-	17,24
6	SD 79117	0;;2	2-	S	2-;;1N	;1	S	S	+,seg 10
7	SD 82114	;12-,S	0;;2	2-,S	2-,S	0;;S	S	S	+
8	SD 79892	2-	2-,S	2	2	;	;;S	1,S	seg 17,24
9	SD 78207-4	0	0,2	2	;1	;1	;	;	6,8,10,17,36
10	SD 791231	0	2=,S	2-	2=,S	2=;;	;;2	;1,2=	seg 6,17,+
11	NE 82652	0;	S	S	S	;1	0;	0;	6,17
12	NE 82656	0;	2=	2=	2	;	0;	0;	6,17,24
13	NE 82658	0;	2=	2-	2-	;	0;	0;	6,17,24
14	NE 82438	0;	2=	2-	2=	2=	0;	0;	6,24
15	ND 8212	0;	0;	S	S	S	0;	0;	6,36
16	ND 8215	0;	S	S	S	S	0;	0;	6
17	ND 8286	0;	0	S	S	S	S	S	36
18	ND 8382	0;	0	2+	S	S	0;	0;	6,36,+
19	ND 8407	0;	2-	S	S	1	0;	0;	6,7b,17
20	RL 84596	0;	;1	;	2=	0;	0;	0;	6,17,+
21	RL 845504	0;	2=	1	2=	0;	0;	0;	6,17,+
22	RL 845457	0;	2=	;1	2=	0;	0;	0;	6,17,+
23	RL 845455	0;	0	2	2-	0;	0;	0;	6,17,36,+
24	NA-81-362-5	1	2	2-	2=	2-	2-	2=	+
25	XH 696	2,S	S	S	S	S	;1,S	S	seg +

Table 20. Concluded.

No.	Name or Sel. No.	Reaction Produced by Isolates							Spec. Sr Gene
		72- 00- 1370C QFBS	69- 21- 399 QSHS	71- 21- 584B RHRS	72- 25- 639C RKQS	72- 00- 53A RTQQ	72- 01- 4A TNMH	74- 21- 1409A TNMK	
		151		11-32-113			15B-2		
26	XNH 1359	S	S	S	S	S	S	S	None
27	Bounty 301	2-	2=	2	2	;1	;1=N	2	17,+
28	Bounty 205	0;	S	2-	S	S	;1N	;1	6,8
29	MT 8030	0;	S	S	S	;1	0;	0;	6,17
30	MT 8039	0;	S	S	S	S	0;	0;	6
31	MT 7877	S	S	S	S	S	S	S	None
32	WT 176	S	S	S	S	S	S	S	None
33	WT 177	0	0;	S	S	S	X	2	36,+
34	WT 179	0	0	S	S	S	X-	X	36
35	ID 0180	2	2	S	S	S	S	S	7b
36	KS 82H4	2-	2=	2=	2=	2=	2-	2-	24

N = necrosis

Table 21.

Field reaction of the 1987 Northern Regional
Performance Nursery to *Puccinia Graminis* f. sp.
tritici. (Data provided by D. V. McVey, USDA-ARS,
St. Paul, MN.)

ENTRY NO.	C.I. OR SEL. NO.	STEM RUST	
		SEVERITY %	RESPONSE 0-9
1	CI1442	30	S
2	CI17439	0	-
3	PI476975	10	MS-S
4	SD82144	20	MS-S
5	SD76463-16	T	MR
6	SD791117	30	S
7	SD82114	30	MS-S
8	SD79892	T,30	R,MS-S
9	SD78207-4	T	R
10	SD791231	T	R
11	NE82652	20	MS-S
12	NE82656	5	MR
13	NE82658	5	MR
14	NE82438	T	R
15	ND8212	0	-
16	ND8215	T	R
17	ND8286	T	R
18	ND8382	0	-
19	ND8407	5	MS-S
20	RL845496	-	-
21	RL845504	-	-
22	RL845457	T	MS-S
23	RL845455	0	-
24	NA-81-362-5	0	-
25	XH696	10	S
26	XNH1359	40	S
27	BOUNTY-301	40	S
28	BOUNTY-205	30	S
29	MT8030	30	S
30	MT8039	30	S
31	MT7877	40	S
32	WT176	40	S
33	WT177	0	-
34	WT179	0	-
35	ID0180	40	S
36	KS82H4	-	-

Table 22. Hessian fly reaction, Great Plains biotype,
1987 Northern Regional Performance Nursery.
(Data provided by J. H. Hatchett, USDA-ARS,
Manhattan, KS.)

ENTRY NO.	C.I. OR SEL. NO.	REACTION TYPE	NO. OF PLANTS	
			R	S
1	CI1442	S		
2	CI17439	R		
3	PI476975	H	8	14
4	SD82144	S		
5	SD76463-16	S		
6	SD791117	S		
7	SD82114	S		
8	SD79892	S		
9	SD78207-4	S		
10	SD791231	S		
11	NE82652	S		
12	NE82656	H	15	6
13	NE82658	R		
14	NE82438	H	12	7
15	ND8212	S		
16	ND8215	S		
17	ND8286	R		
18	ND8382	S		
19	ND8407	S		
20	RL845496	H	4	15
21	RL845504	S		
22	RL845457	S		
23	RL845455	H	8	10
24	NA-81-362-5	S		
25	XH696	S		
26	XNH1359	S		
27	BOUNTY-301	S		
28	BOUNTY-205	S		
29	MT8030	S		
30	MT8039	S		
31	MT7877	S		
32	WT176	S		
33	WT177	R		
34	WT179	S		
35	ID0180	S		
36	KS82H4	R		

Table 23. Virus reactions of entries in the 1987 Northern Regional Performance Nursery. (Data provided by F. L. Kolb, Urbana Illinois.)

ENTRY NO.	C.I. OR SEL. NO.	: BARLEY YELLOW : : DWARF* : : 0-9 :	: SOILBORNE : : MOSAIC** : : 0-9 :
1	CI1442	6	6
2	CI17439	5	6
3	PI476975	5	5.5
4	SD82144	4	5.5
5	SD76463-16	3	6
6	SD791117	5	5.5
7	SD82114	5	5
8	SD79892	4	5
9	SD78207-4	5	5
10	SD791231	5	5.5
11	NE82652	5	4.5
12	NE82656	6	5
13	NE82658	6	6
14	NE82438	5	4
15	ND8212	4	5
16	ND8215	4	5
17	ND8286	4	4.5
18	ND8382	6	5.5
19	ND8407	3	6
20	RL845496	3	2.5
21	RL845504	3	5.5
22	RL845457	5	2.5
23	RL845455	3	7
24	NA-81-362-5	4	4
25	XH696	5	4
26	XNH1359	4	3
27	BOUNTY-301	3	5
28	BOUNTY-205	4	5.5
29	MT8030	6	4.5
30	MT8039	5	6
31	MT7877	7	6
32	WT176	4	5
33	WT177	3	6
34	WT179	4	5.5
35	ID0180	2	5.5
36	KS82H4	5	5.5

*,** ONE OR TWO REPS, RESPECTIVELY.

Table 24. Aluminum tolerance of lines tested in the 1987 NRPN based on hematoxylin staining of seedling roots. (Data provided by B. F. Carver, Stillwater, OK)

Entry No.	Selection No.	Stain Intensity ^a			Rating ^b
		Al Concentration (mM)	0.18	0.36	
1	Kharkof	C/P	C	C	VS-MS *
2	Roughrider	C	C	C	VS
3	Colt	P	C	C	MS
4	SD82144	C/P/N	C/P	C	VS-I *
5	SD76463-16	C	C	C	VS
6	SD791117	C/N/P	N/C	P/C	VS-T *
7	SD82114	C/N/P	C/P/N	C/P	VS-T *
8	SD79892	C/P/N	C/P	C	VS-I *
9	SD78207-4	C	C	C	VS
10	SD791231	C/P	C/P	C/P	VS-T *
11	NE82652	P	P	C	I
12	NE82656	P	C	C	MS
13	NE82658	C/P	C	C	VS-MS *
14	NE82438	C	C	C	VS
15	ND8212	C	C	C	VS
16	ND8215	P	C	C	MS
17	ND8286	C	C	C	VS
18	ND8382	C	C	C	VS
19	ND8407	N	P	P	T
20	RL845496	P	C	C	MS
21	RL845504	C/N	C/P	C/P	VS-T *
22	RL845457	C	C	C	VS
23	RL845455	C/P	C/P	C	VS-I *
24	NA-81-362-5	P	P	C	I
25	XH696	P	C/P	C	MS-I *
26	XNH1359	N	P	C	I
27	Bounty-301	N	P	P	T
28	Bounty-205	N	N	P	T
29	MT8030	C	C	C	VS
30	MT8039	C	C	C	VS
31	MT7877	C/P	C	C	VS-MS *
32	WT176	N	P	P	T
33	WT177	N	N	P	T
34	WT179	N/C	C/N	P/C	VS-T *
35	ID0180	P	P	P	T
36	Norkan	C	C	C	VS

^aStain intensity scores: C, P, and N = complete, partial, and no staining of root tips, respectively.

^bVS = very susceptible, MS = moderately susceptible, I = intermediate, and T = tolerant (≤ 0.72 mM Al); * = segregating for tolerance -- predominant stain intensity listed first for each Al concentration.

QUALITY DATA

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

UNIFORM WINTERHARDINESS NURSERIES

The nurseries are comprised of Southern and Northern Materials Sections. In 1987 the Southern Section contained 174 entries and the Northern Section 129 entries. Nursery lists and survival data from test sites at which differential winter survival occurred appear in the tabulations that follow.

SOIL-BORNE MOSAIC NURSERY

The nursery contained 99 entries in 1987. Infection data were reported only from Urbana, IL. The nursery list and reaction data are included herein.

1987
Uniform Winterhardiness Nursery
Southern Section

<u>Entry</u> <u>No.</u>	<u>Variety or Pedigree</u>	<u>C.I. or</u> <u>Sel. No.</u>	<u>Source</u>
1	Warrior	CI13190	Check
2	Bison/Sterling//3*Scout/3/Eagle/4/Pinnacle /2*Eagle	KS84HW196	Kansas (Hays)
3	Sage/Salmon//Larned/Eagle//Sage/3/TAM 105	KS85H22	"
4	Sage/Arthur//TAM 105	KS85H95	"
5	" "	KS85H136	"
6	" "	KS85H247	"
7	" "	KS85H274	"
8	" "	KS86H13	"
9	" "	KS86H18	"
10	Scout 66	CI13996	Check
11	TX73V203/Arkan Sib	KS86H187	Kansas (Hays)
12	GB5762//Sage/Arthur	KS86H189	"
13	" "	KS86H190	"
14	" "	KS86H191	"
15	Sage/Arthur//TAM 105	KS86H200	"
16	" "	KS86H203	"
17	KS79467/NE78668	KSGH8010-1-4	Kansas (Manhattan)
18	Bulk Selection	TB-107	"
19	KS79467/NE78668	XGH8010-1-12	"
20	Vona	CI17441	Check
21	KS79467/NE78668	XGH8010-1-20	Kansas (Manhattan)
22	T105/Vee"S"	X81580*-10	"
23	KS79467/NE78668	XGH8010*-34	"
24	" "	XGH8010*-71	"
25	" "	XGH8010*-73	"
26	" "	XGH8010*-38	"
27	" "	XGH8010*-72	"
28	" "	XGH8010-1-3-2	"
29	" "	XGH8010-1-4-2	"
30	Warrior	CI13190	Check
31	KS79483/KS75216	X811688-3	Kansas (Manhattan)
32	KS79483//KS75216/PV	X811733-2W	"
33	KS79467/NE78668//KS79371	X81109-4-2	"
34	" "	X81109-4-5	"
35	NWT//Pkr76/T105	X809-3-12	"
36	KS79467/NE78668	XGH8010-1-1	"
37	" "	XGH8010-1-6	"
38	KS79468/Nwt//ND7735-40/TX71A916-3	X81125-49	"
39	Cross Unknown	MB12	"
40	Scout 66	CI13996	Check
41	Cross Unknown	MB193	Kansas (Manhattan)
42	T105/Vee"S"	X81580*-9	"
43	" "	X81580*-13	"
44	" "	X81580*-14	"
45	KS73H530/Vee"S"	X81540*-3	"
46	" "	X81540*-7	"
47	Bulk	OXF4B-3	"

48	KS79468/NE78668	XGH8018-7	"
49	KS79467/NE78668	XGH8010*-4	"
50	Vona	CI17441	Check
51	KS79467/NE78668	XGH8010*-61	Kansas (Manhattan)
52	KS75210/Len//Ark	X82110I-2	"
53	KS79371/Vee"S"//Hawk	X82114F-1	"
54	Hawk/Vee"S"//Akn	X82130C-1	"
55	Csm/Mrl//Akn	X82173C-1	"
56	KS79205/4/T101/3/Syn19/Ami//T101	X811156-2	"
57	" "	X811156-4	"
58	Akn/Vee"S"	X81506*-5	"
59	Unknown	SB-59	"
60	Warrior	CI13190	Check
61	Unknown	SB-236	Kansas (Manhattan)
62	"	SB-239	"
63	"	SB-308	"
64	"	SB-356	"
65	"	SB-360	"
66	"	SB-404	"
67	KS79468/NE78668	XGH8018-38	"
68	" "	XGH8018-46	"
69	KS79467/NE78668	XGH8010*-13	"
70	Scout 66	CI13996	Check
71	KS79467/NE78668	XGH8010-1-2-3	Kansas (Manhattan)
72	KS79468/NE78668	XGH8018-26	"
73	KS79467/NE78668	XGH8010-2-2-2	"
74	" "	XGH8010-2-4-2	"
75	" "	XGH8010-1-3-3	"
76	" "	XGH8010-1-4-1	"
77	Unknown	TB-78-1	"
78	74F943/2*Trapper	CO820014	Colorado
79	74CB52/Vona//Baca	CO830014	"
80	Vona	CI17441	Check
81	CO724377/W332//CO533147	CO830094	Colorado
82	74CB570/Vona//Tpr	CO840004	"
83	Lov/Wng//W12H676	CO840015	"
84	" "	CO840016	"
85	" "	CO840018	"
86	Mir 808/Vona	CO840032	"
87	"	CO840050	"
88	NE73640/2*Vona	CO840062	"
89	Nwt/Baca//Vona	CO840073	"
90	Warrior	CI13190	Check
91	Nwt/Baca//Nwt	CO840082	Colorado
92	78F6596/Tpr//Baca/3/Na434	CO840104	"
93	78F6596/Duke//Vona	CO840111	"
94	Cnd/Lcr//Baca/3/Vona	CO840136	"
95	75F2041/2*Baca//Vona	CO840144	"
96	Emu/Ctk//Sandy/3/Vona	CO840160	"
97	Bjy's'/Ctk//CO3305/3/Nwt	CO840186	"
98	Wrr*5/Agent//Aurora/3/Ctk 78	NE78488	Nebraska
99	Tobari 66/2*(Wrr/Minn III-54-12)//Scout sel. /3/Lindon sel./4/Gage/Lancer//Homestead	NE82413	"
100	Scout 66	CI13996	Check

101	Trapper//Cmn/OT/3/CIMMYT/Sut/4/Buckskin sib /Homestead	NE82419	Nebraska
102	HiPlains/Wings/3/Parker*4/Agent// Beloterkovskaia 198/Lcr	NE82438	"
103	CIMMYT/Scout//Agate/Sage sib	NE82533	"
104	Vogel Sel. 14X53-101/Trapper//391-56-D8/Kaw /3/Parker*4/Agent//Belot. 198/Lcr	NE82565	"
105	Brule//Sentinel/Centurk	NE82652	"
106	Brule/3/Parker*4/Agent//Belot. 198/Lcr	NE82656	"
107	" "	NE82658	"
108	CIMMYT/Scout//Bennett Sib/4/Parker*4/Agent //Belot. 198/Lcr/3/Bezostaya 1/Centurk 78	NE83404	"
109	" "	NE83406	"
110	Vona	CI17441	Check
111	CIMMYT/Scout//Bennett Sib/4/Parker*4/Agent //Belot. 198/Lcr/3/Bezostaya 1/Centurk 78	NE83407	Nebraska
112	Wrr*5/Agent//Kavkaz/4/Parker*4/Agent// Belot. 198/Lcr/3/Vona	NE83498	"
113	CIMMYT/Scout/3/Gage/Lancer//Homestead/4/ 391-56-D1-8/Tcs//NE68405/3/Bez 1/Ctk 78	NE83703	"
114	Capitan//391-56-D1-8/Tsc/3/Sentinel/Ctk	NE82599	"
115	Wrr/Sut//MoW6811/3/Agate Sib/4/NE68475/Ctk 78	NE84557	"
116	Bez 1/Ctk 78//Arthur/Ctk 78/3/Bennett	NE84579	"
117	" "	NE84581	"
118	(FTN/MI/Hope)//Pnc/2*cnn/3/Pnc/3*Cnn// Ill#1-Cns-TT1(CTMH)/Sando 60/5/Vona/6/ Wrr*5/Agent//Kavkaz	NE83432	"
119	Od/Akn	W85-120	NAPB
120	Warrior	CI13190	Check
121	W79-227/Pyn	W85-400	NAPB
122	W79-011/Comp Seln N-1-158	W84-129	"
123	Warrior	CI13190	Check
124	Gen. Bulk Seln/BR	W84-161	"
125	Kharkof	CI1442	Check
126	Scout 66	CI13996	"
127	TAM-105	CI17826	"
128	Plainsman V/3/Kaw/Atl 50//Pkr*5/Ag	KS831374	Kansas
129	Winter Wheat Composite	KS82C2009	"
130	Scout 66	CI13996	Check
131	Bulk Selection	KS82C2338	Kansas
132	Bison/Sterling//3*Scout/3/Eagle/4/ Pinnacle/2*Eagle	KS84HW196	"
133	Amigo sib/2*Newton	OK82377	Oklahoma
134	Aurora/2*TAM W-101	OK84349	"
135	" "	OK84343	"
136	TAM W-101/Amigo	OK85347	"
137	Payne//TAM W-101/Amigo	OK85310	"
138	TX73V203*3/Amigo	TX81V5581	Texas
139	TAM W-101/Ctk//Amigo	TX80A5901-1	"
140	Vona	CI17441	Check
141	TX68D5194/Osage	TX84V1227	Texas
142	MV-69-12/TAM W-103	TX84A7608	"
143	" "	TX78A3345-V34	"
144	TAM W-101*4/Amigo*4//Largo	TXGH10989	"
145	Sturdy*3/Amigo	TX81V6582-2	"

146	TAM-105*4/Amigo*4//Largo	TXGH10563B	"
147	KS73146/TX71A1039	TX84V1336	"
148	TX71A562-6*4/Amigo*4//Largo	TXGH13622	"
149	TX71A374-4/TX71A1039-V1	TX84V1317	"
150	Warrior	CI13190	Check
151	TX71A1039-V1*3/Amigo	TX81V6607-2	Texas
152	Mex Dw/Baca//Vona	CO820026	Colorado
153	74F878/Wings//Vona	CO82009	"
154	74cb462/Trapper//Vona	CO830027	"
155	CO5926//7C/Tobari63/3/Baca	CO830034	"
156	Wrr*5/Agent//Aurora/3/Centurk 78	NE78488	Nebraska
157	KS73167/Agate//Sage sib	NE82533	"
158	Experimental Line	AGC-106	Agrigenetics
159	" "	AGC-110	"
160	Scout 66	CI13996	Check
161	Bulk Selection	AGC-111	Agrigenetics
162	Winter Wheat Hybrid	RH855001	Rohm & Haas
163	" "	RH8606	"
164	" "	RH8604	"
165	OK11252A/HW76-1226	NA-81-362-5	NAPB
166	" "	NA-81-171-14	"
167	Bezostaya/TAM W-101//W558	XW141	Pioneer
168	Winter Wheat Hybrid	XH669	HybriTech
169	" "	XH682	"
170	Vona	CI17441	Check
171	Bounty Hybrid Wheat	Bounty-122	Cargill
172	" "	Bounty-205	"
173	" "	Bounty-301	"
174	Warrior	CI13190	Check

1987 UNIFORM WINTERHARDINESS NURSERY - SOUTHERN SECTION

% Winter Survival

Entry No.	Mead, NE			Highmore, SD			St. Paul, MN			3-Site mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
1	60	60	60	100	100	100	100	80	90	83
2	60	80	70	100	100	100	80	70	75	82
3	100	95	98	100	100	100	95	80	88	95
4	90	50	70	90	100	95	75	70	73	79
5	80	95	88	90	100	95	90	70	80	88
6	80	100	90	90	100	95	100	85	93	93
7	70	95	83	90	90	90	100	80	90	88
8	60	100	80	70	90	80	100	70	85	82
9	70	95	83	80	90	85	90	65	78	82
10	80	100	90	100	100	100	100	95	98	96
11	80	95	88	30	100	65	100	100	100	84
12	60	70	65	10	90	50	80	90	85	67
13	40	60	50	90	100	95	80	40	60	68
14	90	80	85	90	100	95	75	50	63	81
15	80	100	90	90	100	95	100	80	90	92
16	70	70	70	90	100	95	95	75	85	83
17	40	60	50	90	100	95	70	70	70	72
18	30	50	40	90	100	95	50	40	45	60
19	60	70	65	90	90	90	100	55	78	78
20	5	20	13	100	100	100	5	5	5	39
21	10	60	35	90	100	95	75	80	78	69
22	20	70	45	40	90	65	60	60	60	57
23	20	80	50	100	100	100	40	60	50	67
24	10	80	45	100	100	100	90	65	78	74
25	30	60	45	100	100	100	80	75	78	74
26	30	40	35	100	100	100	5	35	20	52
27	40	50	45	20	100	60	10	40	25	43
28	5	35	20	90	100	95	5	25	15	43
29	5	35	20	30	100	65	25	65	45	43
30	90	90	90	90	100	95	100	80	90	92
31	20	40	30	50	100	75	25	40	33	46
32	30	30	30	80	100	90	5	15	10	43
33	40	40	40	100	100	100	30	85	58	66
34	30	40	35	20	100	60	80	85	83	59
35	90	80	85	60	100	80	90	90	90	85
36	20	60	40	30	100	65	80	70	75	60
37	40	50	45	5	100	53	65	75	70	56
38	50	70	60	70	100	85	50	90	70	72
39	40	60	50	30	100	65	90	95	93	69
40	40	80	60	30	100	65	100	100	100	75

Entry No.	Mead, NE			Highmore, SD			St. Paul, MN			3-Site mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
41	10	50	30	60	100	80	25	30	28	46
42	5	5	5	90	100	95	0	0	0	33
43	5	5	5	80	100	90	0	0	0	32
44	5	30	18	90	100	95	10	15	13	42
45	5	50	28	90	100	95	5	10	8	44
46	5	20	13	90	100	95	0	0	0	36
47	30	80	55	10	100	55	80	20	50	53
48	20	80	50	70	90	80	75	15	45	58
49	30	60	45	90	70	80	75	55	65	63
50	5	30	18	0	90	45	60	40	50	38
51	40	70	55	50	100	75	80	55	68	66
52	5	40	23	80	100	90	80	50	65	59
53	5	5	5	100	100	100	5	0	3	36
54	5	30	18	90	100	95	20	15	18	44
55	5	40	23	90	90	90	30	20	25	46
56	5	5	5	90	100	95	5	0	3	34
57	10	10	10	90	100	95	0	0	0	35
58	10	10	10	100	80	90	5	20	13	38
59	10	10	10	100	60	80	25	20	23	38
60	30	50	40	100	90	95	100	100	100	78
61	40	70	55	90	90	90	35	60	48	64
62	20	30	25	60	0	30	20	55	38	31
63	30	30	30	90	100	95	50	70	60	62
64	20	10	15	80	100	90	50	55	53	53
65	60	40	50	100	90	95	80	40	60	68
66	10	30	20	100	100	100	40	15	28	49
67	80	90	85	80	100	90	70	75	73	83
68	20	40	30	90	100	95	75	85	80	68
69	10	50	30	100	100	100	80	40	60	63
70	50	80	65	100	100	100	100	100	100	88
71	30	40	35	20	100	60	75	70	73	56
72	10	20	15	100	100	100	65	70	68	61
73	30	50	40	90	100	95	70	55	63	66
74	10	30	20	100	100	100	70	65	68	63
75	20	20	20	40	100	70	80	90	85	58
76	5	5	5	60	100	80	80	95	88	58
77	30	5	18	100	100	100	80	15	48	55
78	100	30	65	100	100	100	85	55	70	78
79	80	20	50	90	100	95	40	60	50	65
80	10	5	8	70	100	85	5	60	33	42
81	40	70	55	60	90	75	15	65	40	57
82	10	5	8	100	90	95	10	30	20	41
83	10	40	25	100	100	100	60	55	58	61
84	20	30	25	100	100	100	5	20	13	46
85	10	5	8	100	100	100	30	30	30	46
86	20	20	20	100	100	100	55	85	70	63
87	40	70	55	100	100	100	55	65	60	72
88	10	100	55	100	100	100	10	10	10	55
89	50	60	55	100	30	65	70	80	75	65
90	90	90	90	100	30	65	85	100	93	83

Entry No.	Mead, NE			Highmore, SD			St. Paul, MN			3-Site mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
91	80	30	55	90	70	80	80	100	90	75
92	30	20	25	100	80	90	10	10	10	42
93	20	20	20	100	90	95	100	95	98	71
94	10	20	15	90	80	85	20	65	43	48
95	40	40	40	70	60	65	35	80	58	54
96	10	20	15	100	100	100	0	5	3	39
97	10	5	8	100	100	100	0	0	0	36
98	30	20	25	90	100	95	90	85	88	69
99	5	10	8	100	100	100	100	100	100	69
100	50	30	40	100	100	100	100	100	100	80
101	5	5	5	100	100	100	65	95	80	62
102	40	30	35	100	100	100	85	100	93	76
103	50	80	65	90	100	95	80	90	85	82
104	20	50	35	90	100	95	80	85	83	71
105	10	30	20	90	100	95	85	90	88	68
106	30	60	45	100	100	100	75	95	85	77
107	40	50	45	100	100	100	70	90	80	75
108	30	40	35	100	100	100	60	55	58	64
109	30	50	40	100	90	95	55	60	58	64
110	5	5	5	70	100	85	50	65	58	49
111	30	40	35	100	100	100	80	70	75	70
112	10	10	10	100	90	95	80	55	68	58
113	30	10	20	100	80	90	65	70	68	59
114	70	50	60	100	100	100	95	85	90	83
115	40	40	40	100	100	100	90	85	88	76
116	20	30	25	100	100	100	95	90	93	73
117	10	30	20	100	100	100	100	95	98	73
118	20	40	30	90	100	95	90	90	90	72
119	30	40	35	90	100	95	80	70	75	68
120	70	70	70	100	100	100	90	100	95	88
121	40	40	40	100	100	100	5	20	13	51
122	60	80	70	100	100	100	85	75	80	83
123	50	80	65	100	100	100	100	100	100	88
124	40	5	23	100	100	100	85	95	90	71
125	30	40	35	100	100	100	100	100	100	78
126	80	50	65	100	100	100	95	100	98	88
127	40	40	40	90	90	90	40	100	70	67
128	20	30	25	100	100	100	15	10	13	46
129	5	10	8	100	90	95	15	10	13	39
130	90	60	75	100	100	100	80	95	88	88
131	70	5	38	100	100	100	60	90	75	71
132	50	20	35	100	100	100	50	85	68	68
133	10	10	10	90	100	95	40	5	23	43
134	10	20	15	40	100	70	50	30	40	42
135	5	40	23	30	100	65	65	30	48	45
136	5	5	5	60	100	80	5	20	13	33
137	20	10	15	60	100	80	75	15	45	47
138	20	20	20	70	90	80	65	50	58	53
139	30	30	30	90	90	90	75	75	75	65
140	5	5	5	30	100	65	50	15	33	34

Entry No.	Mead, NE			Highmore, SD			St. Paul, MN			3-Site mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
141	5	10	8	90	100	95	25	0	13	39
142	20	30	25	100	100	100	75	50	63	63
143	20	70	45	100	90	95	65	65	65	68
144	5	5	5	100	90	95	5	20	13	38
145	5	5	5	100	100	100	30	35	33	46
146	10	40	25	100	100	100	80	90	85	70
147	10	20	15	100	100	100	60	65	63	59
148	10	10	10	100	100	100	65	65	65	58
149	5	10	8	100	100	100	75	70	73	60
150	50	20	35	100	100	100	95	100	98	78
151	5	5	5	100	100	100	75	45	60	55
152	5	5	5	100	100	100	5	5	5	37
153	20	10	15	100	100	100	45	50	48	54
154	20	5	13	100	90	95	20	60	40	49
155	10	10	10	100	100	100	75	80	78	63
156	10	5	8	100	90	95	65	70	68	57
157	10	10	10	100	90	95	100	90	95	67
158	5	5	5	100	100	100	50	75	63	56
159	50	30	40	100	100	100	70	100	85	75
160	30	30	30	100	100	100	75	100	88	73
161	20	30	25	100	100	100	60	95	78	68
162	10	40	25	100	100	100	75	90	83	69
163	5	5	5	100	100	100	5	10	8	38
164	10	40	25	100	100	100	75	50	63	63
165	40	40	40	100	100	100	80	100	90	77
166	50	50	50	100	100	100	75	90	83	78
167	10	40	25	100	100	100	55	55	55	60
168	5	10	8	100	100	100	30	45	38	49
169	10	60	35	100	100	100	25	65	45	60
170	5	10	8	100	100	100	50	55	53	54
171	20	70	45	100	100	100	50	70	60	68
172	20	40	30	100	100	100	50	75	63	64
173	5	20	13	100	100	100	50	70	60	58
174	60	80	70	100	100	100	100	90	95	88

1987
Uniform Winterhardiness Nursery
Northern Section

<u>Entry No.</u>	<u>Variety or Pedigree</u>	<u>C.I. or Sel. No.</u>	<u>Source</u>
1	Norstar	CI17735	Check
2	NE70545/NE700537/CO672135/CO662079	SD82102	South Dakota
3	CI15322//Agent/4*Sut/3/Ctk78//SD74221	SD82147	"
4	Amigo/2*Ctk78//SD74221	SD82195	"
5	CI15322/3*(Agent/4*Scout)	SD7646316	"
6	Buckskin/MT7904	SD8027513	"
7	CI15322//Agent/4*Sut/3/Ctk	SD765987	"
8	CI15322//MT/4*Sut/3/SD713-11	SD76501281	"
9	Rocky/ND7628	SD802251	"
10	Warrior	CI13190	Check
11	Amigo/2*Ctk//Rose	SD82119	South Dakota
12	Centurk*2/Hand	SD7422115	"
13	Minter/PI117807//Ctk	SD75465108	"
14	CI15322//Agent/4*Sut/3/Ctk/4/SD74221	SD82150	"
15	SD75375/OK71248-1	SD791109	"
16	TX73V169/SD75284	SD802923	"
17	CI15322/T. spelt//Flr/3/6*Ctk	SD764634	"
18	Amigo/2*Ctk//Rose	SD82118	"
19	SD75375/OK711248-1	SD791117	"
20	Centurk 78	CI17724	Check
21	SD76109/Rose	SD782074	South Dakota
22	SD76669*2/KS71591	SD791231	"
23	MT7929/Rri/SD74221	SD805744	"
24	Ctk*2/Hand//TX71A911-3	SD801851	"
25	ND7747/Rose	SD8010471	"
26	Ctk*5/Hand	SD767092	"
27	SD76169/TX71A968-6	SD782151	"
28	Rri/SD74209	SD811345	"
29	SD75395/SD76367	SD772022	"
30	Norstar	CI17735	Check
31	Ellar/Bennett//SD75393/Rose	SD792153	South Dakota
32	Rri/CO778766	SD801077	"
33	OK78058/ND7593	SD8010731	"
34	Buckskin/ND7659	SD8026147	"
35	Denton/SD5681	SD8163954	"
36	Agate//Rri/Era	SD8029910	"
37	Rita/ND7597	SD804932	"
38	CI15322/T. spelt//Flr/3/6*Ctk	SD82176	"
39	Ctk/ND7633	ND8408	North Dakota
40	Warrior	CI13190	Check
41	Ctk/ND7712	ND8415	North Dakota
42	Rrr/ND7723	ND8442	"
43	Rrr/FO.1527	ND8460	"
44	Wnk/SD977568-4	ND8471	"
45	Frd/ND7620//Ctk/ND7771	ND8479	"
46	NE77663//Ctk/ND7777	ND8501	"
47	SD74215-8//Frd/ND7620	ND8503	"
48	" "	ND8505	"

49	SD74221//Frd/ND7712	ND8511	"
50	Centurk 78	CI17724	Check
51	SD75215//Ctk/ND7746	ND8513	North Dakota
52	SD75375/ND7719-2W	ND8518	"
53	Translocation C/CI8888	ND8523	"
54	ND7481//Frd/FO.1561	ND8524	"
55	ND7601//Ctk/ND7601	ND8530	"
56	" "	ND8531	"
57	ND7723//Frd/ND7620	ND8535	"
58	ND7723//Rrr/ND7620	ND8536	"
59	Ctk/ND7723//Ctk/ND7624	ND8577	"
60	Norstar	CI17735	Check
61	Ctk/ND7637//Ctk/ND7655	ND8581	North Dakota
62	ND7735-11//Wnk/Newton	ND8585	"
63	ND7735-4//Rrr/Solar	ND8589	"
64	NE76706//Ctk/ND7637	ND8593	"
65	" "	ND8594	"
66	" "	ND8595	"
67	ND7735-28/Siouxland	ND85100	"
68	" "	ND85102	"
69	" "	ND85103	"
70	Warrior	CI13190	Check
71	ND7735-34/KS79379	ND85105	North Dakota
72	" "	ND85109	"
73	ND7735-34/KS79346	ND85111	"
74	" "	ND85114	"
75	ND7735-38/KS79379	ND85118	"
76	" "	ND85120	"
77	ND7735-40/Siouxland	ND85127	"
78	ND7620/Siouxland	ND85137	"
79	ND7620/ND7532	ND85140	"
80	Centurk 78	CI17724	Check
81	ND7719-21/Siouxland	ND85143	North Dakota
82	NE /MN7142	MC76002-12	Cereal Rust Lab
83	1976 NTN row #82/MN7142	MC77022-3	"
84	NE /MN7142	MC76002-4	"
85	NE73640/MN7155//Pumafen	MC79006-7	"
86	NE74736/MN69124S//Fundulea 10-71/MN72316	MC79012-2	"
87	NE73640/Eskisehir 5//MN72316/MN7222	MC79040-6	"
88	" "	MC79040-19	"
89	Kharkof	CI1442	Check
90	Norstar	CI17735	"
91	Roughrider	CI17439	"
92	Colt	PI476975	"
93	CI15322//Agate/4*Scout66/3/Ctk 78 /4/SD74221	SD82144	So. Dakota
94	CI15322//3*(Agent/4*Scout66)	SD76463-16	"
95	SD75375/OK711248-1	SD791117	"
96	SD74221*2/Lathrop	SD82114	"
97	CI15322//4*(Agent/4*Scout66)	SD79892	"
98	SD76109/Rose	SD78207-4	"
99	SD76669*2/KS71591	SD791231	"
100	Warrior	CI13190	Check
101	Brule//Sentinel/Centurk	NE82652	Nebraska

102	Brule/3/Pkr*4/Agent//Beloferkovskaia 198	NE82656	"
	/Lancer		
103	" "	NE82658	"
104	HiPlains/Wings/3/Pkr*4/Agent//		
	Beloferkovskaia 198/Lancer	NE82438	"
105	Rrr//Yogo/Trapper	ND8212	No. Dakota
106	Rrr/3/Froid//Winoka/WW8	ND8215	"
107	Rrr*2/1809	ND8286	"
108	Winoka/XR77234	ND8382	"
109	Ctk/3/Froid*2//ND363/ND269	ND8407	"
110	Centurk 78	CI17724	Check
111	77W4593 Sib/HiPlains	RL845496	Rohm & Haas
112	77W4593 Sib/Froid	RL845504	"
113	Froid/76W167	RL845457	"
114	Bighorn Sib/76W167	RL845455	"
115	OK11252A/W76-1226	NA-81-362-5	NAPB
116	Winter Wheat Hybrid	XH696	HybriTech
117	" "	XNH1359	"
118	Bounty Hybrid Wheat	Bounty-301	Cargill
119	" "	Bounty-205	"
120	Norstar	CI17735	Check
121	TX65A268/Froid//YTO 117-20/Ctk	MT8030	Montana
122	Lancota/Froid//NE69559/Wnk	MT8039	"
123	Norwin	MT7877	"
124	Kharkov 22 MC/Bezostaya 1	WT176	Lethbridge
125	Norstar/Rrr	WT177	"
126	"	WT179	"
127	Turkey/Burt//Bezostaya 1	IDO180	"
128	Norkan (Plainsman V/3/2*Larned/Eagle//Sage)	KS82H4	Kansas
129	Warrior	CI13190	Check

1987 UNIFORM WINTERHARDINESS NURSERY - NORTHERN SECTION

% Winter Survival

Entry No.	Highmore, SD			St. Paul, MN			Williston, ND			3-Site mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
1	100	100	100	100	100	100	100	100	100	100
2	100	0	50	100	100	100	100	100	100	83
3	100	20	60	100	95	98	100	100	100	86
4	40	40	40	95	85	90	100	100	100	77
5	40	0	20	100	90	95	100	100	100	40
6	90	0	45	100	100	100	100	100	100	82
7	90	80	85	100	95	98	100	100	100	94
8	100	100	100	80	80	80	100	100	100	93
9	90	90	90	100	95	98	100	100	100	96
10	100	80	90	95	95	95	100	100	100	95
11	90	100	95	100	95	98	100	100	100	98
12	50	100	75	100	90	95	100	100	100	90
13	100	100	100	95	95	95	100	100	100	98
14	25	100	63	100	95	98	100	100	100	87
15	100	100	100	100	95	98	100	100	100	99
16	100	40	70	95	80	88	100	100	100	86
17	90	50	70	90	95	93	100	100	100	88
18	100	90	95	90	95	93	100	100	100	96
19	80	90	85	85	95	90	100	100	100	92
20	100	80	90	90	80	85	100	100	100	92
21	100	80	90	100	100	100	100	100	100	97
22	90	70	80	100	95	98	100	100	100	93
23	70	70	70	95	95	95	100	100	100	88
24	70	100	85	80	90	85	100	100	100	90
25	60	90	75	100	100	100	100	100	100	92
26	70	10	40	95	95	95	100	100	100	78
27	100	20	60	100	95	98	100	100	100	86
28	100	80	90	90	90	90	100	100	100	93
29	90	100	95	100	100	100	100	100	100	98
30	70	90	80	100	100	100	100	100	100	93
31	100	70	85	95	100	98	100	100	100	94
32	40	70	55	75	95	85	100	100	100	80
33	10	100	55	60	90	75	100	100	100	77
34	90	90	90	95	100	98	100	100	100	96
35	100	80	90	95	100	98	100	100	100	96
36	5	100	53	85	95	90	100	100	100	81
37	100	100	100	95	100	98	100	100	100	99
38	100	100	100	100	100	100	100	100	100	100
39	90	100	95	95	100	98	100	100	100	98
40	90	100	95	100	95	98	100	100	100	98

Entry No.	Highmore, SD			St. Paul, MN			Williston, ND			3-Site mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
41	90	100	95	95	95	95	100	100	100	97
42	70	100	85	95	95	95	100	100	100	93
43	50	100	75	95	95	95	100	100	100	90
44	10	100	55	95	95	95	100	100	100	83
45	100	0	50	75	95	85	100	100	100	78
46	100	40	70	95	95	95	100	100	100	88
47	100	100	100	95	100	98	100	100	100	99
48	30	100	65	100	95	98	100	100	100	88
49	100	60	80	100	95	98	100	100	100	93
50	100	40	70	95	95	95	100	100	100	88
51	90	70	80	100	95	98	100	100	100	93
52	100	90	95	100	100	100	100	100	100	98
53	100	90	95	100	95	98	100	100	100	98
54	100	100	100	95	100	98	100	100	100	99
55	100	70	85	100	95	98	100	100	100	94
56	90	90	90	95	95	95	100	100	100	95
57	100	100	100	90	100	95	100	100	100	98
58	90	100	95	90	95	93	100	100	100	96
59	100	0	50	95	95	95	100	100	100	82
60	100	100	100	100	100	100	100	100	100	100
61	100	100	100	95	95	95	100	100	100	98
62	100	100	100	100	100	100	100	100	100	100
63	100	100	100	100	100	100	100	100	100	100
64	90	80	85	95	90	93	100	100	100	93
65	90	100	95	95	90	93	100	100	100	96
66	90	100	95	95	90	93	100	100	100	96
67	90	90	90	95	100	98	100	100	100	96
68	90	80	85	85	80	83	100	100	100	89
69	100	80	90	95	90	93	100	100	100	94
70	100	70	85	95	100	98	100	100	100	94
71	100	90	95	95	100	98	100	100	100	98
72	100	100	100	95	100	98	100	100	100	99
73	100	90	95	90	100	95	100	100	100	97
74	70	90	80	95	95	95	100	100	100	92
75	60	80	70	95	95	95	100	100	100	88
76	90	100	95	85	100	93	100	100	100	96
77	100	50	75	95	90	93	100	100	100	89
78	100	10	55	95	85	90	100	100	100	82
79	100	90	95	100	100	100	100	100	100	98
80	0	90	45	70	80	75	100	100	100	73
81	90	0	45	95	95	95	100	100	100	80
82	90	90	90	30	50	40	100	90	95	75
83	70	100	85	45	50	48	100	85	93	75
84	100	100	100	55	80	68	90	100	95	88
85	90	90	90	25	40	33	80	75	78	67
86	90	90	90	60	40	50	60	100	80	73
87	100	80	90	10	5	8	60	55	58	52
88	100	90	95	5	2	4	50	95	73	57
89	100	70	85	90	100	95	100	100	100	93
90	100	80	90	100	100	100	100	100	100	97

[illegible]

1987
Soilborne Mosaic Nursery

<u>Entry</u> <u>No.</u>	<u>Variety or Pedigree</u>	<u>C.I. or</u> <u>Sel. No.</u>	<u>Source</u>
1	Pawnee	CI11669	Check
2	KS79467/NE78668	KSGH8010-1-4	Kansas (Manhattan)
3	Bulk Selection	TB-107	"
4	KS79467/NE78668	XGH8010-1-12	"
5	KS79467/NE78668	XGH8010-1-20	"
6	T105/Vee"S"	X81580*-10	"
7	KS79467/NE78668	XGH8010*-34	"
8	" "	XGH8010*-71	"
9	" "	XGH8010*-73	"
10	Concho	CI12517	Check
11	KS79467/NE78668	XGH8010*-38	Kansas (Manhattan)
12	" "	XGH8010*-72	"
13	" "	XGH8010-1-3-2	"
14	" "	XGH8010-1-4-2	"
15	KS79483/KS75216	X811688-3	"
16	KS79483//KS75216/PV	X811733-2W	"
17	KS79467/NE78668//KS79371	X81109-4-2	"
18	" "	X81109-4-5	"
19	NWT//Pkr76/T105	X809-3-12	"
20	Bison	CI12518	Check
21	KS79467/NE78668	XGH8010-1-1	Kansas (Manhattan)
22	" "	XGH8010-1-6	"
23	KS79468/Nwt//ND7735-40/TX71A916-3	X81125-49	"
24	Cross Unknown	MB12	"
25	Cross Unknown	MB193	"
26	T105/Vee"S"	X81580*-9	"
27	" "	X81580*-13	"
28	" "	X81580*-14	"
29	KS73H530/Vee"S"	X81540*-3	"
30	Pawnee	CI11669	Check
31	KS73H530/Vee"S"	X81540*-7	Kansas (Manhattan)
32	Bulk	OXF4B-3	"
33	KS79468/NE78668	XGH8018-7	"
34	KS79467/NE78668	XGH8010*-4	"
35	KS79467/NE78668	XGH8010*-61	"
36	KS75210/Len//Ark	X82110I-2	"
37	KS79371/Vee"S"//Hawk	X82114F-1	"
38	Hawk/Vee"S"//Akn	X82130C-1	"
39	Gsm/Mrl//Akn	X82173C-1	"
40	Concho	CI12517	Check
41	KS79205/4/T101/3/Syn19/Ami//T101	X811156-2	Kansas (Manhattan)
42	" "	X811156-4	"
43	Akn/Vee"S"	X81506*-5	"
44	Unknown	SB-59	"
45	Unknown	SB-236	"
46	"	SB-239	"
47	"	SB-308	"
48	"	SB-356	"
49	"	SB-360	"

50	Bison	CI12518	Check
51	Unknown	SB-404	Kansas (Manhattan)
52	KS79468/NE78668	XGH8018-38	"
53	" "	XGH8018-46	"
54	KS79467/NE78668	XGH8010*-13	"
55	KS79467/NE78668	XGH8010-1-2-3	"
56	KS79468/NE78668	XGH8018-26	"
57	KS79467/NE78668	XGH8010-2-2-2	"
58	" "	XGH8010-2-4-2	"
59	" "	XGH8010-1-3-3	"
60	Pawnee	CI11669	Check
61	KS79467/NE78668	XGH8010-1-4-1	Kansas (Manhattan)
62	Unknown	TB-78-1	"
63	Bison/Sterling//3*Scout/3/Eagle/4/Pinnacle /2*Eagle	KS84HW196	Kansas (Hays)
64	Sage/Salmon//Larned/Eagle//Sage/3/TAM 105	KS85H22	"
65	Sage/Arthur//TAM 105	KS85H95	"
66	" "	KS85H136	"
67	" "	KS85H247	"
68	" "	KS85H274	"
69	" "	KS86H13	"
70	Concho	CI12517	Check
71	Sage/Arthur//TAM 105	KS86H18	Kansas (Hays)
72	TX73V203/Arkan sib	KS86H187	"
73	GB5762//Sage/Arthur	KS86H189	"
74	" "	KS86H190	"
75	" "	KS86H191	"
76	Sage/Arthur//TAM 105	KS86H200	"
77	" "	KS86H203	"
78	Wrr*5/Agent//Aurora/3/Ctk 78	NE78488	Nebraska
79	Tobari 66/2*(Wrr/Minn III-54-12)//Scout sel. /3/Lindon sel./4/Gage/Lancer//Homestead	NE82413	"
80	Bison	CI12518	Check
81	CIMMYT/Scout//Agate/Sage sib	NE82533	Nebraska
82	Vogel Sel. 14X53-101/Trapper//391-56-D8/Kaw /3/Parker*4/Agent//Belot. 198/Lcr	NE82565	"
83	Brule/3/Parker*4/Agent//Belot. 198/Lcr	NE82656	"
84	CIMMYT/Scout/3/Gage/Lcr//Homestead/4/ 391-56-D1-8/Tsc//NE68405/3/Bez 1/Ctk 78	NE83703	"
85	Bez 1/Ctk 78//Arthur/Ctk 78/3/Bennett	NE84581	"
86	Payne//TAM W-101/Amigo	OK85307	Oklahoma
87	Ami/T-1 sib//Ntn Sib/3/Pyn	OK85287	"
88	T105/3/Pyn//T101/Ami	OK85208	"
89	Ntn/3/Pyn//T101/Ami/4/OK754615	OK85188	"
90	Pawnee	CI11669	Check
91	HD832/HRW//TX71A562-6	OK85277	Oklahoma
92	T105/3/Pyn//T101/Ami	OK85210	"
93	Ntn/3/Pyn//T101/Ami/4/OK754615	OK85182	"
94	Pyn/W78-069	W83-256	NAPB
95	W79-227/Pyn	W84-229	"
96	OD/Akn	W85-120	"
97	Vona/W76-1141	W81-133-3	"
98	Bezostaya/TAM W-101//W558	XW141	Pioneer
99	Concho	CI12517	Check

1987 SOILBORNE MOSAIC NURSERY

Urbana, Illinois

Scale — 0-9

<u>Entry</u>	<u>Rep 1</u>	<u>Rep 2</u>	<u>Entry</u>	<u>Rep 1</u>	<u>Rep 2</u>
1	6	6	41	4	6
2	3	5	42	3	6
3	4	5	43	3	6
4	2	3	44	5	6
5	3	3	45	3	3
6	6	7	46	3	5
7	6	5	47	3	4
8	3	2	48	3	5
9	4	4	49	2	3
10	5	5	50	5	6
11	5	5	51	3	4
12	5	5	52	3	5
13	5	3	53	3	3
14	2	3	54	3	4
15	4	3	55	5	5
16	3	4	56	6	6
17	3	5	57	5	5
18	3	3	58	6	6
19	5	6	59	3	5
20	4	5	60	6	6
21	3	3	61	3	2
22	3	3	62	3	4
23	6	6	63	6	6
24	4	5	64	6	6
25	3	6	65	6	5
26	6	6	66	6	6
27	6	6	67	5	5
28	6	6	68	5	4
29	5	5	69	6	4
30	6	6	70	5	5
31	5	6	71	5	3
32	2	3	72	4	6
33	3	4	73	5	6
34	6	6	74	6	6
35	5	4	75	5	6
36	5	5	76	5	5
37	5	6	77	5	6
38	5	5	78	6	6
39	5	4	79	6	6
40	3	5	80	5	6

<u>Entry</u>	<u>Rep 1</u>	<u>Rep 2</u>
81	5	5
82	6	6
83	6	6
84	6	6
85	5	4
86	6	6
87	5	3
88	6	6
89	6	5
90	5	6
91	7	6
92	6	6
93	4	5
94	3	5
95	3	6
96	5	4
97	5	3
98	3	5
99	3	5
