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 1984

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Lincoln, Nebraska
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CENTRAL STATES AREA

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By

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and

C. J. Peterson[1]

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REGIONAL NOTES

The 1984 Hard Red Winter Wheat Breeders Field Day was held in Oklahoma on May 31. Field stops included OSU nurseries near Lahoma. Stops also were made at Pioneer, Hybritech, Cargill, Rohm and Haas, and NAPB nurseries in the area. The 1985 Breeders Field Day will be in Colorado.

The next Hard Red Winter Wheat Regional Conference will be held in Manhattan, Kansas, February 25-27, 1986. Dr. Jim Quick is chairman of the organizing committee. Dr. Rollie Sears is in charge of local arrangements.

Dr. V. W. Smail, ARS, Beltsville, Maryland will coordinate cooperative regional research and evaluation activities in the Eastern Soft Wheat Region.

Dr. J. H. (Bud) Gardenhire, longtime agronomist and Texas A & M small grains breeder at Dallas, Texas retired in 1984. A replacement for Dr. Gardenhire at Dallas has not been named.

Dr. E. L. Smith, in charge of wheat improvement at Oklahoma State University, will spend 2 years in Morocco beginning July, 1985.

Dr. H. J. Nguyen, formerly with the OSU wheat research group at Stillwater, Oklahoma has accepted a wheat agronomy-physiology position at Texas Tech University in Lubbock, TX. Dr. Nguyen's new appointment is a joint one between Texas Tech and Texas A & M.

NEW VARIETIES AND HYBRIDS

Wheat producers in the hard red winter wheat region are moving rapidly to semidwarf varieties. As example, an estimated 60% of the Texas acreage, 80% of the Oklahoma acreage, 55% of the Kansas acreage, and 45% of the Nebraska acreage was occupied by semidwarf wheats in 1984. Privately developed varieties made up 22% in Texas, 8% in Oklahoma, 16% in Kansas, and 21% in Nebraska of the total wheat acreages in these four states. Hybrid acreage continues to increase slowly but still constitutes an insignificant portion of the total wheat acreage. Consistent with these trends, new releases in 1984 were mainly semidwarf types.

Varieties

TAM 107. Developed by the Texas Agricultural Experiment Station, has the pedigree Amigo/4*TAM 105. It was tested in the SRPN as TXGH2875. TAM 107 is an early bronze chaffed semidwarf wheat with good quality and excellent yield record both under irrigated and dryland conditions. It is comparable to Scout 66 in winterhardiness. It carries resistance to several races of stem rust, powdery mildew and biotype C greenbugs. It has tolerance to leaf rust but is susceptible to soilborne mosaic and Hessian fly.

TAM 108. Also developed by the Texas Agricultural Experiment Station, was selected from Sturdy Sib/Triumph//Centurk. It was tested in the SRPN as TX71A562-6-28. TAM 108 is a white chaffed, medium maturity semidwarf with resistance to leaf rust and soilborne mosaic. It is moderately susceptible to stem rust and Hessian fly. Its winterhardiness is questionable. TAM 108 seed has a slight T. W. advantage over TAM 105. TAM 108 is 3 days later than TAM 105. It has been highly productive in Texas and regional trials.

Germplasm

The Kansas Agricultural Experiment Station approved KS80336 as a germplasm release. The line is a semidwarf with resistance to soilborne mosaic, Hessian fly, and LR24 of leaf rust.

Hybrids

Seed companies continue to be active in the development and sale of new hybrids and pure lines. Most of the new materials were identified in the 1983 report. Rohm and Haas (Hybrex), Hybritech (Quantuum), Cargill (Bounty) have been the most active marketers of hybrids in the region. Pioneer and NAPB have marketed several pure lines.

THE 1984 CROP YEAR

The 1984 U. S. winter wheat production exceeded 2 billion bushels or 56.1 million metric tons. Of this, hard winter wheat production in the 10 states listed in the accompanying table amounted to approximately 31 million metric tons. Average winter wheat yields in the 10 states ranged from 17.4 in New Mexico to 26.4 q/ha in North Dakota.

Dry conditions in several parts of the southern and central plains caused delays in seeding and irregular emergence of wheat. Extensive winterkill occurred in Nebraska where 30% of the seeded wheat eventually was abandoned; otherwise the crop made it through the winter in fair to good condition. Unusually cool weather slowed development of the wheat crop in May throughout the central part of the region but persistent hot, dry conditions prevailed in parts of Texas and Oklahoma.

Leaf and stem rust generally appeared too late in the season to cause much damage. Among the other foliar diseases enhanced by the cool wet spring were tan spot and speckled leaf blotch. In Kansas soil-borne mosaic was severe on susceptible varieties, mainly in the south-central area. Wheat spindle streak was identified in some Kansas counties. Despite early harvest delays from wet weather, favorable conditions through June and July allowed harvest, once it started, to advance rapidly and finish ahead of normal in most states.

Winter wheat production statistics for states in the hard red winter wheat region, 1984.

State	Hectares seeded	Hectares harvested	Abandonment for grain harvest	Yield per harvested hectare	Production (metric tons)
	1,000	1,000	%	Quintals	1,000
New Mexico	296	186	37	17.4	326
Texas	2,997	2,025	32	20.0	4,086
Oklahoma	3,119	2,147	31	24.0	5,197
Colorado	1,539	1,296	16	23.1	3,007
Kansas	5,387	4,536	16	25.8	11,746
Nebraska	1,296	911	30	24.0	2,206
Wyoming	122	105	13	18.8	198
Montana	1,094	1,004	8	18.0	1,824
So. Dakota	810	689	15	24.0	1,667
No. Dakota	251	223	11	26.8	599

Source: Crop Production, Small Grains, 1984 Annual Summary, Crop Reporting Board, Statistical Reporting Service, USDA, Washington, DC. CrPr 2-3 (12-84)

1984
SOUTHERN REGIONAL PERFORMANCE NURSERY

Entry no.	Variety or Pedigree	C. I. or Sel. No.	Source
1	Kharkof	1442	Check
2	Scout 66	13996	"
3	TAM 105	17826	"
4	Lovrin 13/2*Ctk 78	NE80413	Nebraska
5	Payne/Amigo	OK80019	Oklahoma
6	Payne//TAM W-101/Amigo	OK80268	"
7*	"	OK81280	"
8*	"	OK81306	"
9*	"	OK81322	"
10*	TAM W-101/Amigo	OK81064	"
11*	"	OK81065	"
12*	Pronto/Parker 76	KS82167	Kansas
13*	"	KS82163	"
14*	Parker 76/CIMMYT-Scout	KS80336	"
15	Bulk Selection	NA80310	NAPB
16	"	NA80300	"
17*	"	NA81-459	"
18*	"	NA81-297	"
19*	"	NA81-283	"
20*	Payne/HW76-1226	NA81-362	"
21	Sdy sib/Tmp//Ctk	TX71A562-6-28	Texas
22	TAM 105*4/Amigo	TXGH2875	"
23	TAM 105 Reselection	TX69A569-1-69	"
24	TAM W-103//Sh. Wheat/Sut	TX80A5609	"
25	Sdy sib/Tcs//Ctk/3/Amigo	TX80A6025	"
26	TAM 105*4/Amigo	TX80GH2679	"
27	Sdy sib/Tmp//Ctk*4/Amigo	TX80GH3006	"
28*	TX71A1039-V1*3/Amigo	TX81V6610	"
29*	"	TX81V6614	"
30*	Amigo/3/2*TX71A937, Sdy sib/Tcs//Ctk	TX38949-2	"
31*	Winter Wheat Hybrid	RH830101	R-H
32*	"	RH830201	"
33*	Mexican Bulk Hybrid Selection	78DW14	Harpool
34*	"	Hp114	"
35	Caprock/B86//SC3212	W7442B	Pioneer
36	Sturdy/B48//Sturdy	W7452B	"
37*	W558/TAM W-101	W8460D	"
38*	Winter Wheat Hybrid	XH140A	HybriTech
39*	"	XH182	"

* New entry in 1984

Test Site Information - SRPN

Clovis, NM -- Approximately 4 inches of rain fell in October. Only an inch of moisture was recorded for the next five months. April was average with 1.4 inches. May and June above average with 2.95 and 4.59 inches. No major disease problems developed. Dryland yields fair to good. Irrigated yields disappointing.

Farmington, NM -- Nursery was irrigated 11 times receiving about 35 inches of water. The nursery received 100 lbs. of N. per acre preplant and 70 lbs. of N. per acre in early April. No disease or insect problems occurred.

Bushland, TX -- The dryland nursery was not harvested due to highly variable hail damage. The irrigated nursery was sown October 12 on summer fallowed land after application of 150 lbs. N/A, 45 lbs/A P205, and a preplant 4-inch irrigation. Winter temperatures were below normal but no stand loss occurred. The nursery was sprayed with Parathion in March to control a light infestation of greenbugs. Precipitation was below normal and the nursery was given four 4-inch irrigations during the spring and fruiting period. Hail did little damage to the irrigated trial. Temperatures were slightly below normal during grain fill and contributed to good yields. Some of the taller entries lodged up to 50% but lodging had little effect on grain yield.

Chillicothe, TX -- No information.

Dallas, TX -- The nursery was sown on fallowed land with ample moisture for good emergence. Received 100 lbs. 18-46-0 preplant and topdressed with 66 lbs. N on 1/17/84. Greenbugs began to appear in mid-November but low winter temperatures slowed development and no damage was caused later in the season. Temperatures remained below freezing from December 17 through December 29 with a low of 4 degrees. The severe freeze and lack of snow cover caused considerable leaf burn. Rains and above-normal temperatures during mid-February resulted in rapid growth and tillering. Traces of powdery mildew and tan spot were found and a few isolates of leaf rust. Below-average rainfall for April and May and low humidity slowed development of all diseases. Several varieties exhibited some drought stress. Leaf rust continued to develop during May but was too late to cause damage. October-May precipitation totaled 20.33 inches.

Stillwater, OK -- Good stands obtained and good production prospects existed throughout the growing season. Leaf rust infection occurred late in season. No disease or insect problems of consequence. Moisture adequate throughout the season.

Lahoma, OK -- Planted later than normal because of weather conditions. Stands were thin and somewhat variable. Moisture stress occurred in April and May. No disease or insect problems of consequence.

Altus, OK -- Planted later than normal because of weather conditions, but somewhat uniform stands were obtained. Severe drought stress in April and May. No disease or insect problems. Appeared to be a good test for drought stress information.

Goodwell, OK -- Good uniform stands obtained. No disease or insect problems of consequence. Excellent production prospects until soft dough stage when moisture and heat stress occurred, reducing yields by an estimated 10 bu/A and also reducing test weight.

Hutchinson, KS -- Nursery lost due to flooding.

Garden City, KS -- Planted 9-28-83. Dry fall and winter and a wet spring. Preplant flood irrigated in August with additional irrigations on October 15 and in late May. No important disease or insect development. A light leaf rust infection occurred very late. Fall and winter growth provided adequate ground cover with no winterkilling. Grain yields were very good with minimal straw and little lodging.

Hays, KS -- Good stands were obtained and fair fall growth occurred. There was no winter damage. Cool wet spring delayed heading 8 to 10 days. No rain in May and early June and harvest was normal. The nursery was under drought stress during June but yields were still good. No disease or insect problems developed.

Colby, KS -- Subsoil moisture was excellent but surface moisture was lacking in fall of 1983. Seeding was delayed until October 11. The nursery was sprinkler irrigated immediately after planting with approximately 1 to $1\frac{1}{2}$ inches of water. Emergence was rapid and fall stands good. Fall growth was not excessive. The winter was cold, moisture adequate and no winter damage was noted. The spring was cool, moisture above normal and little growth occurred until mid-April. Maturity was delayed throughout spring and early summer. Some leaf rust and damage from leaf diseases were noted in late June. Plots were harvested July 12.

Ft. Collins, CO -- Excellent moisture and stands. No winterkill. Some losses to root rot.

Julesburg, CO -- Moisture stress from boot to maturity. Significant root rot damage and entry differences resulting in low test weights.

Akron, CO -- Planted in no-till. Stands were reduced by winter and spring freezes. No diseases or insects except for late stem rust infection.

Burlington, CO -- Excellent growing conditions throughout season. No disease or insect damage.

Walsh, CO -- (near Springfield) -- Generally excellent growing conditions throughout season. No disease or insect development.

Mead, NE -- Erratic pattern of snow cover led to erratic winter survival. No data collected and nursery was not harvested.

Clay Center, NE -- Erratic patterns of snow cover and a very severe winter precluded obtaining any useful information. No data were collected.

North Platte, NE -- Nursery was seeded on time with ample moisture and good stands were obtained. Some winter damage occurred but the overriding factor was cephalosporium stripe infection.

Sidney, NE -- Satisfactory stands and good winter survival. Drought at late grain filling stage.

Alliance, NE -- Short of moisture through all of growing season except for grain fill. Some winter damage.

South Dakota Stations -- Moisture was good at planting. Presho was planted September 7 on land without stubble and harvested July 23. Highmore was planted on stubble ground on September 7 and was harvested July 25. The Brookings nursery had flax seeded August 1, was planted September 12, and harvested July 30. Good snow cover insured winter survival despite cold temperatures in late December. A wet spring, especially in June, provided an excellent environment for disease development. Tan spot and septoria were found on virtually all wheats. Flag leaves on the SRPN varieties were dead before stem or leaf rust developed. Head scab was prevalent at Brookings and was correlated with heading date. Yields were generally good throughout the state.

Columbia, MO -- Fall was wet and cool. Winter was wet with below normal temperatures but during coldest periods, snow cover was present. Spring was very wet and cooler than normal. Disease and insect problems were relatively minor and did not develop as expected as temperatures stayed cool.

Ames, IA -- The nursery was planted 9-26-83, emerged 10-2-83 and was harvested July 9 through 13. Fall season growth was normal and nursery was well established by onset of winter. Good snow cover but very cold temperatures resulted in extensive winterkill of many entries. Winterkill was related considerably to varietal hardiness, but also to some degree with location in field. Winterkill plus some bird and rodent damage makes the yield data unreliable. Considerable septoria leaf blotch developed in May through June. Rust infections relatively light. Seed plumpness was good on plants that survived.

Urbana, IL -- Fall conditions were favorable and the nursery emerged and entered the winter in good condition. Early spring was cold and wet causing the crop to develop slowly. SBMV symptoms were prevalent on susceptible varieties.

Lind, WA -- Nurseries were seeded September 21 into good moisture and adequate fall stands were obtained. Some winter injury, mostly in the form of leaf burning was observed in the SRPN. Spring recovery and growth were slow in both nurseries. Stripe rust was very severe on the susceptible selections. Leaf rust came in too late to cause damage.

Aberdeen, ID -- Conditions not reported.

Tetonia, ID -- Nursery was not harvested.

Table 1. Yield and agrononmic data for entries in the Southern Regional Performance Nursery in 1984.

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
TAMEX	41	4831	72.6	82	130
17826	3	4802	74	72	126
TX80GH3006	27	4771	70.2	79	132
CAPITAN	40	4648	71.1	94	130
RH830201	32	4570	73.4	80	128
OK81065	11	4531	70.9	71	127
KS82163	13	4500	73	79	127
HP114	34	4454	73.7	79	130
XH140A	38	4374	71.6	80	131
NE80413	4	4369	73.9	90	132
RH830101	31	4301	69.8	76	127
TXGH2875	22	4276	72.5	72	126
TX80A5609	24	4265	71.3	76	127
OK80019	5	4224	71	85	133
OK81322	9	4079	72.4	80	133
13996	2	4060	71.8	96	127
W7452B	36	4041	72.7	76	130
OK81306	8	4037	70.9	81	133
TX80GH2679	26	4016	72.3	66	126
TX71A562-6-28	21	3968	71.3	79	131
XH182	39	3920	72	67	127
OK81280	7	3907	71.6	75	129
OK80268	6	3876	70.1	75	132
CENTURK78	42	3871	73.5	91	130
TX80A6025	25	3837	73.3	83	129
W8460D	37	3822	71.4	68	127
KS80336	14	3750	72.1	78	128
KS82167	12	3658	73.6	71	127
TX69A569-1-69	23	3654	70	71	126
OK81064	10	3594	70.9	72	126
W7442B	35	3589	70.2	81	131
NA80310	15	3486	70.9	75	132
TX81V6610	28	3483	73.8	69	128
TX38949-2	30	3477	73.3	76	127
NA81-362	20	3465	70.8	68	129
NA80300	16	3363	70.8	80	132
NA81-283	19	3354	71.1	69	126
TX81V6614	29	3270	70.2	69	128
NA81-459	17	3227	70.6	75	129
1442	1	3224	72.4	100	134
78DW14	33	3164	71.4	86	129
NA81-297	18	2529	72.5	72	129
MEAN		3920			
LSD(.05)		1007			
C.V.		15.7			

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
TAMEX	41	3256	72	60	128
NA80310	15	3022	70.2	53	129
TX80GH2679	26	2922	72.8	53	125
XH182	39	2802	71.3	58	125
OK81065	11	2770	71.3	60	126
RH830101	31	2707	71.3	60	125
1442	1	2609	69.8	86	134
13996	2	2587	71.3	66	126
CAPITAN	40	2345	69.9	64	127
78DW14	33	2325	70.2	63	126
TXGH2875	22	2311	71.8	54	125
TX71A562-6-28	21	2297	71.8	59	127
OK80019	5	2237	69.4	58	130
TX80GH3006	27	2165	71.3	51	129
KS82163	13	2126	73.6	52	125
XH140A	38	2118	71.4	55	129
HP114	34	2098	70.5	59	127
OK81280	7	2077	70	58	126
RH830201	32	2073	70.9	57	129
NE80413	4	2016	71.6	63	129
OK81064	10	1984	68.2	56	125
TX69A569-1-69	23	1958	71.3	52	125
17826	3	1933	72.5	52	125
NA80300	16	1891	68.7	52	128
W7442B	35	1876	71.2	61	129
OK80268	6	1862	67.8	50	129
TX80A6025	25	1850	73.1	57	126
KS80336	14	1786	70.6	54	126
TX80A5609	24	1771	70.8	56	125
CENTURK78	42	1748	74	55	128
W8460D	37	1712	70.5	51	126
KS82167	12	1641	73.3	55	125
TX38949-2	30	1585	72.6	54	126
OK81306	8	1533	67.6	58	131
NA81-362	20	1485	71.5	56	127
W7452B	36	1484	70.3	51	128
TX81V6614	29	1392	72.3	51	127
NA81-283	19	1371	71.7	59	124
TX81V6610	28	1124	71.2	54	127
NA81-459	17	1002	67.6	50	127
OK81322	9	822	68.9	49	130
NA81-297	18	640	67.3	48	127

MEAN	1983
LSD(.05)	848
C.V.	26.2

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
TXGH2875	22	9154	78.5	95	152
TX81V6614	29	9007	81.7	80	151
NA80310	15	8495	77.9	90	153
OK81322	9	8446	78.2	95	152
NA81-297	18	8360	80.1	84	151
OK81064	10	8287	79.2	84	151
TX69A569-1-69	23	8116	79.2	97	152
W7442B	35	8031	78.5	93	151
OK81065	11	8019	78.2	86	151
TX80GH2679	26	7921	79.8	94	150
17826	3	7884	77.9	94	151
OK81306	8	7872	77.5	103	153
TX71A562-6-28	21	7872	75	98	153
TX80A5609	24	7860	76.3	90	152
TX81V6610	28	7726	80.1	81	151
HP114	34	7726	79.2	90	150
W7452B	36	7677	77.9	92	152
NA81-283	19	7579	78.8	90	151
OK80019	5	7530	77.9	96	151
KS80336	14	7482	79.2	93	153
NA80300	16	7372	75.9	93	152
NE80413	4	7360	80.1	104	153
TX80GH3006	27	7335	76.3	88	152
W8460D	37	7274	77.2	80	150
OK80268	6	7225	78.8	90	152
TX38949-2	30	7213	79.8	91	152
TX80A6025	25	7103	78.8	92	152
OK81280	7	6798	77.5	96	152
NA81-459	17	6725	79.5	91	151
78DW14	33	6688	75.9	100	150
RH830101	31	6652	79.2	100	150
KS82167	12	6627	79.2	98	152
XH140A	38	6469	77.5	90	152
KS82163	13	6359	79.2	91	150
13996	2	6200	78.8	102	151
RH830201	32	6139	77.2	96	152
XH182	39	6103	78.2	79	151
NA81-362	20	5822	80.1	83	152
1442	1	5456	77.9	107	153
MEAN		7384			
LSD(.05)		N.S.			
C.V.		20.6			

DALLAS

TEXAS

THREE REPLICATIONS

C.T. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF SEV. %	RUST RESP: 1-9	LEAF BURN 1-9	POWDERY MILDEW 0-9
XH182	39	4387	79.8	81	113	15	8	6	4
W8460D	37	4073	77.2	83	115	5	7	5	6
TXGH2875	22	4022	75.3	92	112	0	0	3	1
OK81322	9	3974	74.6	89	116	0	0	2.5	0
TX80GH3006	27	3921	72.1	86	119	1	2	4	0
TX80GH2679	26	3916	76.6	91	114	5	3	4	0
W7452B	36	3901	78.5	86	115	0	0	4.5	1
TX38949-2	30	3862	75.3	86	118	0	0	5.5	0
OK81306	8	3856	74.6	90	118	0	0	3	0
NA81-297	18	3842	77.2	81	112	0	0	2.5	1
OK81064	10	3683	77.2	86	119	0	0	4	0
W7442B	35	3683	79.8	81	115	1	0	4.5	3
NA80300	16	3640	75.9	84	118	5	3	3.5	0
XH140A	38	3636	77.2	90	120	10	3	3.5	5
NA81-283	19	3600	75.3	86	121	5	7	2.5	1
78DW14	33	3573	77.9	90	116	1	2	8.5	0
OK81280	7	3571	74.6	88	114	1	0	3	0
OK80019	5	3540	75.9	86	116	0	0	2	0
KS82163	13	3506	77.2	91	120	1	8	4	0
NA80310	15	3499	78.5	86	120	1	2	3.5	0
NE80413	4	3468	77.2	97	121	0	0	2.5	0
HP114	34	3448	77.9	93	111	5	8	6	5
TX80A6025	25	3443	74.6	87	116	5	8	4	2
NA81-362	20	3425	77.2	78	118	0	0	3	3
TX71A562-6-28	21	3387	74	84	119	0	0	2.5	1
OK81065	11	3313	74	85	120	0	0	2.5	0
NA81-459	17	3304	77.2	97	119	0	0	3	1
RH830201	32	3300	77.9	97	121	30	8	5.5	2
KS82167	12	3282	75.9	93	120	0	0	4.5	0
TX81V6614	29	3221	77.2	79	115	0	0	5	0
TX69A569-1-69	23	3208	73.4	91	121	0	0	3	1
TX81V6610	28	3203	77.2	85	116	0	0	4.5	0
RH830101	31	3197	78.5	93	121	0	0	5	3
TX80A5609	24	3174	74	80	117	0	0	3.5	3
OK80268	6	3143	74.6	84	116	0	0	3	1
17826	3	3082	74.6	86	120	5	8	2.5	1
KS80336	14	2941	77.2	86	123	5	2	2.5	1
13996	2	2587	77.9	102	125	1	0	2	2
1442	1	1403	77.2	102	129	5	8	2	5
TX2875/562-6-2	40	.	77.2	89	115	1	0	5.5	0

MEAN	3467
LSD(.05)	524
C.V.	9.3

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
W7442B	35	2365	76.8	65	116
OK81322	9	2358	71.4	60	119
OK80268	6	2295	68.7	66	119
TXGH2875	22	2280	70.8	64	114
NA81-297	18	2228	76.6	64	116
XH182	39	2199	74.3	63	115
OK81306	8	2163	67.4	67	121
TX38949-2	30	2125	71.9	63	117
NA80310	15	2118	73	59	121
PORTER	40	2112	69.4	66	116
TX80GH3006	27	2087	64.9	62	121
78DW14	33	2085	74.3	70	117
TX81V6610	28	2069	74.5	60	117
OK81065	11	2051	73.5	64	121
NA81-362	20	2031	74.8	58	117
TX80A5609	24	2013	69.4	61	116
NA81-283	19	2002	73.1	60	120
NA80300	16	1997	74.3	63	118
XH140A	38	1993	71.4	66	123
TX80GH2679	26	1988	69.6	60	116
TX81V6614	29	1982	74.3	59	117
OK80049	5	1968	70.1	61	119
TX69A569-1-69	23	1939	70	63	122
RH830201	32	1939	74	69	123
OK81280	7	1919	69.5	66	117
OK81064	10	1917	69.1	62	118
NA81-459	17	1896	74	67	117
TX80A6025	25	1887	69.2	61	118
17826	3	1874	69.8	59	122
W8460D	37	1861	66.3	57	116
W7452B	36	1834	73.2	66	116
TX71A562-6-28	21	1816	66.5	60	120
13996	2	1791	71.4	74	124
NE80413	4	1780	72.8	69	123
RH830101	31	1771	73.4	61	121
KS82167	12	1740	70.1	58	123
KS80336	14	1733	72.3	61	124
HP114	34	1686	73	65	116
KS82163	13	1302	70.1	53	122
1442	1	1181	76.1	69	131
MEAN		1959			
LSD(.05)		445			
C.V.		13.9			

BUSHLAND

(IRR.)

TEXAS

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING %
TX80GH3006	27	6661	78.1	85	137	13
TX80A5609	24	6614	77	83	134	10
OK81064	10	6605	79.7	81	134	30
TX81V6610	28	6556	82.7	78	134	23
NA80310	15	6533	79.5	86	136	3
TX81V6614	29	6453	83.2	75	135	33
XH182	39	6419	81.1	76	132	2
TX71A562-6-28	21	6244	77.5	90	136	35
OK81065	11	6240	80.5	83	132	27
KS82163	13	6150	80.2	87	133	35
W8460D	37	6049	79	75	133	28
XH140A	38	6029	79.3	88	136	5
17826	3	6022	79	84	133	9
NA80300	16	6000	78.7	93	136	13
RH830101	31	5923	79.2	89	132	20
KS82167	12	5885	80.2	86	132	47
TX80A6025	25	5847	80.1	89	136	18
OK81280	7	5831	78.7	88	134	22
TX80GH2679	26	5784	80.5	80	132	10
TX69A569-1-69	23	5777	79.2	81	132	15
NA81-297	18	5695	80.6	84	134	7
NA81-362	20	5650	80.5	81	135	7
KS80336	14	5643	80.6	84	134	27
NE80413	4	5598	78.8	94	136	5
W7452B	36	5573	79.3	86	135	3
TXGH2875	22	5571	79	79	131	8
NA81-283	19	5513	79.9	83	132	12
OK81322	9	5489	79.6	91	138	4
RH830201	32	5479	78.8	86	133	23
TX38949-2	30	5475	79.3	82	133	7
OK80019	5	5376	78.3	94	138	22
OK81306	8	5365	78.1	93	138	10
W7442B	35	5342	80.8	82	136	3
13996	2	5340	79.6	97	132	63
NA81-459	17	5308	80.1	91	134	7
OK80268	6	5284	77.7	86	136	9
HP114	34	5214	80.6	85	135	8
78DW14	33	5107	77.2	96	135	13
1442	1	3886	77.2	101	143	22

MEAN	5783
LSD(.05)	618
C.V.	6.5

STILLWATER

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LEAF RUST SEV. %	RESP 1-9
TX81V6610	28	3709	82.1	77	132	1	2
KS80336	14	3667	81	85	133	1	2
OK81306	8	3537	80.4	79	134	1	2
78DW14	33	3515	79.2	87	132	1	4
OK81064	10	3468	78.9	78	134	1	2
NA81-283	19	3437	79	82	132	1	2
XH140A	38	3433	79.2	84	132	1	7
RH830101	31	3424	79.9	72	133	1	6
NA81-297	18	3407	82.2	77	126	1	3
KS82167	12	3401	79.5	82	133	1	4
TX71A562-6-28	21	3371	77	81	133	1	4
OK81065	11	3334	79	79	135	1	2
TX80GH3006	27	3298	75.9	78	133	2	4
NE80413	4	3288	80.3	93	134	1	2
OK80268	6	3286	80.7	76	134	1	2
17826	3	3280	78	81	134	2	3
KS82163	13	3267	79.5	82	134	1	2
OK81280	7	3210	81	77	132	1	2
TX81V6614	29	3180	82.1	73	132	1	2
NA81-362	20	3169	82.1	67	132	1	4
TX80GH2679	26	3162	78.1	80	132	1	4
RH830201	32	3144	77.9	93	134	1	4
XH182	39	3142	81.1	74	126	7	7
13996	2	3135	80.7	103	134	1	3
TX69A569-1-69	23	3132	77.5	79	134	1	2
HP114	34	3117	81.2	77	129	1	2
NA80300	16	3071	79.2	84	134	1	5
NA81-459	17	3047	81.7	83	132	1	2
TX80A5609	24	3030	76.7	80	131	2	4
OK80019	5	3012	80.8	78	134	1	2
W7452B	36	2968	81.3	79	131	1	2
TX38949-2	30	2962	79.2	78	132	1	4
OK81322	9	2927	80.6	79	134	1	2
TX80A6025	25	2921	80.3	77	134	1	4
NA80310	15	2876	76.3	76	133	1	4
W8460D	37	2852	78.2	80	132	1	2
W7442B	35	2737	83.1	76	131	1	4
TXGH2875	22	2666	77.3	74	131	2	4
1442	1	2337	78	117	139	1	3

MEAN	3177
LSD(.05)	543
C.V.	10.5

ALTUS

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
NA81-297	18	2153	75.8	62
XH182	39	2135	74.4	59
W7452B	36	1991	74	65
W7442B	35	1906	77.6	64
TX81V6610	28	1902	75.7	59
NA81-283	19	1839	71.7	61
TXGH2875	22	1821	70.8	63
TX81V6614	29	1803	76.2	60
RH830201	32	1785	75.9	62
NA80300	16	1776	71.2	62
NA81-459	17	1772	74.8	65
OK81322	9	1754	72.7	62
OK81280	7	1745	70	64
NA81-362	20	1731	73.2	58
78DW14	33	1722	71.2	72
OK81306	8	1718	71.7	65
TX80GH2679	26	1673	71.8	59
TX80A5609	24	1668	69.6	62
13996	2	1659	75.3	68
OK80268	6	1659	71	61
NA80310	15	1650	72.2	58
TX38949-2	30	1646	72.8	63
TX69A569-1-69	23	1637	72.3	60
NE80413	4	1610	76.3	64
OK81065	11	1610	69.2	63
TX71A562-6-28	21	1606	68.1	60
RH830101	31	1592	75.4	61
17826	3	1588	72.6	57
OK81064	10	1588	70.7	57
W8460D	37	1579	70	56
HP114	34	1543	72.5	62
TX80A6025	25	1529	73.5	61
XH140A	38	1525	73.5	57
OK80019	5	1502	72.6	59
KS80336	14	1494	73.9	54
TX80GH3006	27	1494	66.8	58
KS82167	12	1431	71.4	55
KS82163	13	1350	73.2	55
1442	1	1054	75.8	67
MEAN		1673		
LSD(.05)		260		
C.V.		9.5		

LAHOMA

OKLAHOMA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
TXGH2875	22	2251	77	70
NE80413	4	2148	75.7	88
TX69A569-1-69	23	2103	76.2	73
OK81306	8	2094	75.9	73
NA81-283	19	2090	76.7	74
TX81V6610	28	2059	79	65
OK80019	5	2036	77.6	75
HP114	34	2036	80.2	69
NA81-297	18	2027	80.6	64
17826	3	1978	75.5	73
OK80268	6	1973	76.4	71
NA81-362	20	1964	79.7	60
OK81322	9	1960	77.9	69
NA81-459	17	1915	79	75
TX80GH3006	27	1888	74.4	69
13996	2	1879	77	94
TX80GH2679	26	1870	77.2	66
TX71A562-6-28	21	1839	75.3	71
TX80A5609	24	1816	74.9	72
TX81V6614	29	1790	79	64
XH140A	38	1785	76.1	77
W7442B	35	1776	80.6	70
NA80300	16	1772	77.1	78
OK81280	7	1727	75.3	73
XH182	39	1668	79.4	63
RH830101	31	1655	77.2	76
W7452B	36	1655	78	72
1442	1	1624	71.6	97
OK81065	11	1597	74.8	71
RH830201	32	1565	75.4	78
TX38949-2	30	1543	76.1	72
NA80310	15	1426	73.2	68
KS82163	13	1395	75.2	73
78DW14	33	1332	73.9	75
TX80A6025	25	1305	76.6	71
KS80336	14	1251	75	72
KS82167	12	1202	73.7	70
W8460D	37	1166	74.1	65
OK81064	10	973	72.6	70

MEAN	1747
LSD(.05)	272
C.V.	9.6

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
XH182	39	6373	79.2	73	137
XH140A	38	6233	76.2	84	140
NA81-362	20	6213	78.6	73	138
TX80A5609	24	6152	75.3	84	138
TX71A562-6-28	21	5956	74.3	82	140
TX80GH2679	26	5799	75.3	79	137
17826	3	5764	76.2	79	138
TX69A569-1-69	23	5752	77.5	77	138
TX81V6614	29	5732	76.2	75	140
TX81V6610	28	5711	77.5	74	138
TXGH2875	22	5675	77.6	77	137
W7452B	36	5671	77.9	83	138
W8460D	37	5601	77.9	76	137
NA81-297	18	5585	79.5	78	138
NE80413	4	5561	74.9	90	142
NA81-283	19	5528	77.1	82	137
RH830201	32	5528	74.4	87	138
KS80336	14	5504	73.6	83	139
NA81-459	17	5406	78.9	84	138
TX80A6025	25	5406	75.2	83	139
W7442B	35	5357	79.3	80	139
RH830101	31	5345	75.7	84	138
13996	2	5332	76.6	99	139
OK81065	11	5296	72.3	80	139
TX38949-2	30	5275	74.9	81	138
KS82163	13	5153	71.8	82	139
OK81322	9	5100	72.2	82	141
HP114	34	5088	73.7	81	138
TX80GH3006	27	5006	70.3	78	141
OK80019	5	4957	73.2	82	140
NA80300	16	4863	73.6	81	141
OK81064	10	4851	71	79	139
NA80310	15	4819	70.3	77	140
OK80268	6	4782	72.6	82	140
KS82167	12	4770	71.2	83	139
OK81280	7	4603	71.7	79	139
OK81306	8	4562	69.5	85	143
78DW14	33	4501	72.7	89	139
1442	1	3396	71	106	144

MEAN	5339
LSD(.05)	822
C.V.	9.4

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
W7442B	35	3873	80.1	86	145
TXGH2875	22	3608	72.9	87	147
TX69A569-1-69	23	3407	75.4	89	143
TX80GH3006 P	27	3380	71.8	85	147
TX80GH2679	26	3324	74.7	84	142
OK81064	10	3268	74.7	87	146
NA81-362	20	3245	77.1	82	146
OK81065	11	3232	76.6	83	147
RH830201	32	3229	74.5	98	144
XH182	39	3227	76.1	82	142
NA81-297	18	3225	78.4	82	145
W7452B	36	3220	76.7	89	145
TX71A562-6-28	21	3194	74.7	90	141
TX38949-2	30	3170	78	86	143
TX81V6614	29	3163	78.3	81	145
RH830101	31	3144	77.6	99	143
W8460D	37	3129	72.2	83	144
NA81-283	19	3123	73.8	90	144
TX81V6610	28	3099	77.7	81	145
TX80A5609	24	3044	74	89	143
HP114	34	3021	76.7	87	143
OK81322	9	2976	74.7	86	148
17826	3	2964	74.8	88	144
OK80019	5	2948	72.6	90	147
XH140A	38	2926	75.2	90	147
OK81306	8	2913	74.4	92	149
NA80310	15	2832	72.9	84	148
OK80268	6	2826	73.4	87	148
OK81280	7	2818	72.5	88	145
KS80336	14	2804	75.6	95	146
KS82167	12	2708	73.9	92	144
KS82163	13	2699	74.4	90	144
NA81-459	17	2658	77.5	94	146
TX80A6025	25	2599	75.2	84	147
NA80300	16	2564	73.1	88	149
13996	2	2383	74.1	102	145
78DW14	33	2350	74.8	97	148
NE80413	4	2307	74.8	101	148
1442	1	1888	76.6	114	154
MEAN		2987			
LSD(.05)		469			
C.V.		9.6			

GARDEN

CITY

KANSAS

TWO REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1
OK81322	9	6779	75.7	108	0	149
TX81V6610	28	6453	73.7	103	5	148
TX81V6614	29	6377	76.6	93	0	148
TX80A6025	25	6208	74.9	105	5	148
RH830101	31	6172	77	113	0	147
TXGH2875	22	6071	74.8	100	0	145
TX69A569-1-69	23	6069	74.6	100	0	148
NA81-297	18	5990	76.4	98	0	147
W7442B	35	5990	78.1	103	0	149
RH830201	32	5961	76.3	110	0	149
OK81280	7	5957	72.9	103	25	148
OK80268	6	5944	71.2	105	8	149
TX80GH3006	27	5885	70.3	100	8	150
OK81306	8	5878	70.7	108	0	150
W7452B	36	5798	76.2	100	0	148
HP114	34	5714	74.5	100	25	147
NA81-362	20	5712	74.1	95	0	150
NE80413	4	5668	76.8	113	0	151
78DW14	33	5619	74.6	110	0	149
KS80336	14	5604	73.1	105	10	149
13996	2	5594	75.6	120	10	148
17826	3	5589	75	98	0	148
TX71A562-6-28	21	5581	71	105	5	150
TX80GH2679	26	5540	73.9	98	0	147
W8460D	37	5529	73.4	98	0	150
OK81064	10	5482	73.4	98	3	149
OK80019	5	5435	74.3	105	5	150
TX38949-2	30	5414	72.7	100	0	149
KS82163	13	5372	73	100	0	149
XH182	39	5363	72.4	98	5	148
XH140A	38	5345	71.3	105	0	151
NA81-283	19	5339	73.7	100	0	149
NA80300	16	5303	73.8	108	10	151
OK81065	11	5293	74.8	103	20	149
KS82167	12	5287	72.7	105	0	148
NA81-459	17	5261	76.8	103	0	148
NA80310	15	5254	71.9	100	20	149
TX80A5609	24	5218	70.1	105	25	147
1442	1	4432	74.9	128	23	157

MEAN	5679
LSD(.05)	766
C.V.	6.6

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
OK81322	9	4575	78.2	82	157
TX80GH3006	27	4250	73.2	79	155
RH830201	32	4237	77	89	153
NE80413	4	4205	77.7	96	157
OK81280	7	4181	77.7	81	154
TX81V6610	28	4181	79.5	75	155
OK81065	11	4176	78.2	80	154
OK81306	8	4174	77.3	86	158
TX80GH2679	26	4163	76.1	80	151
KS80336	14	4060	78.7	83	153
KS82167	12	4053	76.8	86	153
RH830101	31	4048	77.8	91	152
NA81-283	19	4042	75.7	79	152
TXGH2875	22	4006	76.6	80	151
OK80019	5	4001	77.6	86	157
NA81-362	20	3990	78.9	72	153
XH140A	38	3986	76.9	82	155
OK81064	10	3974	76.7	80	153
TX81V6614	29	3974	80.4	76	154
TX80A6025	25	3954	75.6	83	155
TX69A569-1-69	23	3952	76.1	82	152
NA81-459	17	3945	78.8	88	154
13996	2	3936	78.7	98	152
TX71A562-6-28	21	3903	73.1	85	156
OK80268	6	3865	77.8	80	156
KS82163	13	3865	77.8	86	153
17826	3	3853	75.6	80	151
TX80A5609	24	3849	74.9	83	153
W7442B	35	3800	79.5	81	153
XH182	39	3757	77.8	76	151
NA80300	16	3652	75.1	88	154
HP114	34	3647	77.6	80	152
W8460D	37	3593	75.6	74	153
78DW14	33	3564	74	91	157
NA81-297	18	3497	78.4	75	153
NA80310	15	3392	73.3	80	155
TX38949-2	30	3376	74.9	80	153
W7452B	36	3365	78.4	80	153
1442	1	3147	78.9	108	161
MEAN		3902			
LSD(.05)		381			
C.V.		6.0			

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
TX71A562-6-28	21	7877	76.6	86	159
TX80GH3006	27	7873	75.4	84	161
TX80A6025	25	7705	77.9	91	158
TX81V6614	29	7692	79	83	157
OK81306	8	7504	77	94	164
NA80310	15	7190	75.9	94	159
TX80A5609	24	7042	75.9	95	154
TX81V6610	28	6973	79	78	157
NE80413	4	6956	80.1	105	161
OK81322	9	6808	77.9	83	161
XH140A	38	6736	77.9	85	159
17826	3	6727	76.2	91	153
KS82163	13	6702	67.3	91	153
NA80300	16	6556	78.1	99	159
OK81280	7	6519	76.2	88	158
OK80268	6	6345	77	86	161
KS82167	12	6326	75.7	93	153
W7442B	35	6322	79.3	87	158
OK80019	5	6309	78.1	86	162
KS80336	14	6275	76.6	88	156
TX69A569-1-69	23	6240	74.8	85	153
NA81-283	19	6094	77.5	86	153
RH830101	31	5985	77.2	103	153
W8460D	37	5926	77.2	78	156
TXGH2875	22	5920	74.4	90	153
RH830201	32	5896	77.2	89	155
78DW14	33	5870	74.8	102	156
OK81064	10	5811	75.7	87	153
TX38949-2	30	5721	75.7	86	155
OK81065	11	5650	75.4	89	157
NA81-362	20	5574	77	74	157
VONA	40	5458	79.5	80	158
W7452B	36	5444	76.2	84	154
13996	2	5420	75.9	115	155
TX80GH2679	26	5401	75.7	80	153
HP114	34	5396	78.5	91	155
XH182	39	5289	77.5	84	153
NA81-459	17	5086	77.2	96	156
NA81-297	18	4869	78.5	79	155
1442	1	4438	77.9	130	165

MEAN	6248
LSD(.05)	1043
C.V.	10.2

JULESBURG

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
RH830201	32	2912	74.4	84	157
NA81-459	17	2788	74.4	94	157
TX71A562-6-28	21	2720	70.4	81	158
TX69A569-1-69	23	2716	73.9	76	157
RH830101	31	2706	75.7	86	156
TXGH2875	22	2702	73.5	76	156
XH140A	38	2633	73.9	84	157
13996	2	2615	76.2	97	157
W8460D	37	2566	71.6	74	158
17826	3	2547	71.6	71	157
NA80310	15	2547	71.6	76	158
NA81-362	20	2540	75.4	66	157
W7442B	35	2523	77.5	81	157
KS82167	12	2487	70	81	157
TX80GH2679	26	2484	74.4	76	156
NA81-283	19	2480	73.9	76	156
TX80GH3006	27	2470	70	71	158
NA80300	16	2434	71.3	91	157
KS80336	14	2429	73.9	81	157
XH182	39	2420	75.7	69	157
OK81322	9	2391	72.6	81	159
NE80413	4	2389	68	102	160
TX80A6025	25	2385	74.1	76	158
OK80019	5	2379	71.6	89	159
VONA	40	2377	72.8	76	158
TX81V6614	29	2368	73.9	66	158
NA81-297	18	2367	75.9	71	156
KS82163	13	2359	70	79	157
OK81064	10	2323	72.2	79	156
TX80A5609	24	2323	70	71	157
1442	1	2297	77.5	127	161
OK81306	8	2268	71.3	86	159
TX38949-2	30	2230	71.3	81	157
TX81V6610	28	2192	73.9	71	158
OK81280	7	2186	73.5	74	158
OK81065	11	2186	74.4	81	156
OK80268	6	2090	73.1	76	160
HP114	34	2063	71.9	79	157
78DW14	33	1999	67.7	79	160
W7452B	36	1970	72.2	76	157

MEAN	2421
LSD(.05)	N.S.
C.V.	15.2

BURLINGTON

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM
TX71A562-6-28	21	4264	71.8	79
TX80A5609	24	4205	74	79
TX69A569-1-69	23	4050	76.8	76
XH140A	38	4025	74.5	81
TXGH2875	22	3918	75.8	81
KS82163	13	3894	77	79
OK81306	8	3874	74.7	79
13996	2	3855	77.4	97
TX80GH3006	27	3855	75.4	76
XH182	39	3831	76.2	74
RH830101	31	3817	77.3	91
RH830201	32	3801	76.3	91
NA81-459	17	3706	77.7	84
KS80336	14	3694	76.1	81
17826	3	3684	76.1	79
TX81V6610	28	3666	77.3	76
TX80GH2679	26	3620	77.2	74
VONA	40	3620	75.5	81
TX81V6614	29	3585	78.1	76
NA81-362	20	3581	76.7	74
OK81065	11	3515	76.3	76
W7442B	35	3494	77.5	79
NA81-283	19	3493	75.5	79
NA81-297	18	3441	77	71
KS82167	12	3416	77	79
OK80268	6	3406	75.4	79
OK81322	9	3356	75.5	79
OK81064	10	3353	76.2	74
TX80A6025	25	3342	75.8	76
NA80310	15	3333	73.6	74
HP114	34	3313	78.3	74
W7452B	36	3303	78	79
TX38949-2	30	3260	76.8	79
OK80019	5	3248	73.8	86
OK81280	7	3175	75.1	76
NA80300	16	3045	75.5	84
1442	1	2966	75.2	112
NE80413	4	2841	75.8	94
W8460D	37	2826	74.5	74
78DW14	33	2714	71.5	89

MEAN	3535
LSD(.05)	634
C.V.	11.0

AKRON

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	STEM SEV. %	RUST RESP 1-9
OK81064	10	5670	75.4	71	0	0
XH140A	38	5023	75.9	71	0	0
KS82167	12	4686	77.2	74	0	0
TXGH2875	22	4337	77.9	66	0	0
OK81322	9	4221	79	74	0	0
TX81V6610	28	4216	81	71	0	0
NE80413	4	4122	72.8	86	0	0
NA81-362	20	4074	79.7	61	0	0
13996	2	3997	75.9	81	0	0
RH830201	32	3971	75.9	76	10	8
78DW14	33	3962	68	76	20	3
OK80268	6	3956	78.1	74	0	0
RH830101	31	3937	75.7	71	10	8
KS82163	13	3884	79.3	74	0	0
TX80A6025	25	3882	77.2	74	0	0
TX71A562-6-28	21	3837	76.6	61	0	0
TX80A5609	24	3836	75	69	0	0
W8460D	37	3827	74.8	61	0	0
OK80019	5	3820	77.2	81	0	0
NA81-283	19	3808	77.5	64	0	0
OK81065	11	3770	78.1	71	0	0
TX38949-2	30	3767	75.9	71	0	0
TX69A569-1-69	23	3761	78.8	69	0	0
17826	3	3754	79	69	0	0
TX80GH2679	26	3735	77.5	69	0	0
TX81V6614	29	3722	81	71	0	0
NA80300	16	3696	77.5	74	0	0
1442	1	3647	74.1	107	20	8
HP114	34	3578	79	69	20	8
VONA	40	3496	77.9	66	10	3
XH182	39	3422	79.7	61	10	8
OK81280	7	3366	76.6	71	0	0
NA81-459	17	3309	78.1	76	0	0
NA80310	15	3300	75	66	0	0
OK81306	8	3211	72.6	76	0	0
W7442B	35	3165	79	71	30	8
W7452B	36	3088	79	71	0	0
KS80336	14	3072	78.1	74	10	8
TX80GH3006	27	3058	75.9	69	0	0
NA81-297	18	2959	79.3	64	30	8
MEAN		3799				
LSD(.05)		N.S.				
C.V.		20.7				

WALSH

COLORADO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL
17826	3	2504	75.4
W7442B	35	2458	78.8
TX71A562-6-28	21	2454	74.4
OK81322	9	2363	76.2
VONA	40	2353	77.9
TXGH2875	22	2326	76.2
NA81-297	18	2305	78.5
OK81065	11	2303	79
TX69A569-1-69	23	2274	75.9
NE80413	4	2241	77.9
W7452B	36	2240	79
NA80310	15	2215	74.8
13996	2	2208	78.5
HP114	34	2196	79.3
TX81V6610	28	2184	79
TX81V6614	29	2160	79.7
OK81280	7	2159	75.7
XH182	39	2156	77.5
TX80GH2679	26	2152	75.7
NA81-459	17	2143	78.5
OK81306	8	2139	74.4
OK80019	5	2138	74.4
TX38949-2	30	2131	77.2
XH140A	38	2131	77
RH830101	31	2116	77.2
NA81-283	19	2109	75.9
RH830201	32	2091	76.2
78DW14	33	2090	73.9
KS80336	14	2052	78.5
NA81-362	20	2018	78.8
OK81064	10	2017	75.4
TX80GH3006	27	1987	72.8
NA80300	16	1986	75.9
KS82163	13	1930	77.2
KS82167	12	1919	76.6
TX80A6025	25	1901	77.2
TX80A5609	24	1874	74.1
W8460D	37	1853	79.3
OK80268	6	1780	72.8
1442	1	1775	78.8

MEAN	2136
LSD(.05)	N.S.
C.V.	12.5

NORTH

PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	CEPHALOSP STRIPE 1-5
KS82167	12	3429	78.7	2
OK81065	11	3411	77.8	2
RH830201	32	3401	76.1	2
OK81306	8	3333	74.2	2
TX80GH2679	26	3329	75.5	3
TX69A569-1-69	23	3308	75.7	3
TXGH2875	22	3232	73.5	4
NA81-459	17	3194	78.2	2
NA81-283	19	3183	76.1	2
17826	3	3177	71.1	3
RH830101	31	3049	74.4	3
TX81V6614	29	3031	77.4	2
W8460D	37	2947	69.7	2
KS82163	13	2945	77.3	2
OK80019	5	2942	72.1	3
XH140A	38	2917	72.1	4
TX71A562-6-28	21	2896	70.7	3
TX80GH3006	27	2891	69.4	2
13996	2	2861	76.1	4
TX81V6610	28	2763	76.8	1
TX38949-2	30	2713	72.6	4
NE80413	4	2682	72.5	3
1442	1	2660	77.5	1
TX80A5609	24	2655	67.1	4
NA80300	16	2618	73.8	3
OK81064	10	2567	72.9	4
TX80A6025	25	2559	72.9	3
NA81-362	20	2535	74.8	3
NA80310	15	2496	73.9	2
OK81322	9	2480	70.8	4
KS80336	14	2434	74.4	4
OK81280	7	2236	71.5	3
OK80268	6	2234	74.2	2
NA81-297	18	2170	72.9	4
W7442B	35	2094	77	2
XH182	39	1889	69.7	5
78DW14	33	1829	67.1	4
W7452B	36	1701	72.2	5
HP114	34	1496	67.9	5
MEAN		2729		
LSD(.05)		798		
C.V.		17.9		

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1
XH140A	38	4780	79.9	.	164
NA81-459	17	4352	81.3	86	163
NE80413	4	4343	80.1	99	164
TXGH2875	22	4299	79.7	84	163
XH182	39	4243	80.6	.	162
TX69A569-1-69	23	4215	80	81	161
W8460D	37	4176	79.1	.	165
KS82163	13	4150	80.4	76	163
TX80A5609	24	4144	77.4	84	163
TX80GH3006	27	4122	78.8	76	164
KS82167	12	4102	80.2	81	163
TX81V6610	28	4049	81.3	76	166
17826	3	4024	79.7	86	162
TX80GH2679	26	3974	80.2	81	162
TX71A562-6-28	21	3928	77.7	86	164
TX80A6025	25	3902	80	84	164
13996	2	3861	80.4	99	163
KS80336	14	3855	81	79	164
NA80310	15	3845	77.8	79	166
OK81322	9	3815	79.5	84	165
RH830201	32	3768	79.3	84	162
OK80019	5	3750	79.5	86	165
TX81V6614	29	3742	81.5	74	162
NA81-362	20	3562	82.6	74	163
HP114	34	3515	80.4	81	163
W7442B	35	3478	81.8	71	164
NA81-283	19	3459	80	79	163
NA81-297	18	3431	81.7	74	163
OK81064	10	3357	79.6	79	163
OK80268	6	3300	79.3	76	165
W7452B	36	3199	80.6	79	163
RH830101	31	3186	80.2	89	162
OK81280	7	3180	79.2	84	163
NA80300	16	3166	78.7	84	165
OK81065	11	3145	80.4	79	164
OK81306	8	2935	78.7	86	165
TX38949-2	30	2893	78.8	84	163
78DW14	33	2529	77.3	86	165
1442	1	2360	79.7	107	168

MEAN	3696
LSD(.05)	900
C.V.	14.9

ALLIANCE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	WINTER SURVIVAL %
XH140A	38	4284	80	63	70
RH830201	32	4190	80.1	67	80
TX80GH3006	27	3914	79.2	65	63
RH830101	31	3833	80	67	80
NA80300	16	3818	79.1	66	70
NE80413	4	3815	80.6	78	73
OK81306	8	3762	80.8	73	70
NA81-459	17	3697	81.8	67	80
1442	1	3649	80.8	74	80
TX80GH2679	26	3645	79.6	67	67
TX81V6614	29	3636	82.3	68	60
TX71A562-6-28	21	3542	79.9	61	60
KS82163	13	3533	80.9	68	47
TX38949-2	30	3533	80.1	66	57
W7452B	36	3524	81.7	66	73
NA80310	15	3486	77.5	66	60
TXGH2875	22	3477	78.3	60	77
OK81322	9	3414	81.4	67	73
OK81064	10	3398	80	69	57
OK80019	5	3356	81	66	70
TX80A5609	24	3300	77.8	62	70
13996	2	3259	80.9	68	83
HP114	34	3215	81.5	69	67
XH182	39	3170	81.3	67	80
TX69A569-1-69	23	3147	79.2	62	70
KS82167	12	3141	80.2	65	50
NA81-297	18	3082	80.6	66	83
NA81-283	19	3062	78.6	60	77
OK81280	7	3037	81	69	77
KS80336	14	2972	80.2	66	60
OK80268	6	2959	80.6	61	77
17826	3	2950	79.9	62	47
NA81-362	20	2860	82	57	80
OK81065	11	2840	80.4	64	60
W8460D	37	2822	78.3	69	57
TX81V6610	28	2598	81.8	67	67
78DW14	33	2591	76.5	79	30
TX80A6025	25	2461	80.5	63	53
W7442B	35	2403	82	60	47
MEAN		3318			
LSD(.05)		950			
C.V.		17.5			

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	WINTER SURVIVAL %
OK81322	9	5223	79.8	64	159	77
OK80019	5	5021	77.2	67	160	57
1442	1	4954	78.5	97	160	100
XH140A	38	4842	77.2	65	159	80
13996	2	4551	77.2	82	159	93
NA81-362	20	4349	78.5	61	158	80
OK81280	7	4214	77.2	70	159	60
TX71A562-6-28	21	4170	73.4	64	160	63
NE80413	4	4102	73.4	76	159	47
OK81306	8	4080	78.5	73	159	67
NA80300	16	3968	72.1	73	159	40
NA81-459	17	3856	78.5	70	158	70
TX80GH2679	26	3766	73.4	62	158	40
OK80268	6	3744	77.2	72	159	47
RH830201	32	3699	70.8	68	158	30
TXGH2875	22	3632	74.6	63	158	33
17826	3	3587	75.9	68	158	63
W7452B	36	3475	75.9	64	159	43
TX80A6025	25	3452	69.5	62	159	37
TX80A5609	24	3407	69.5	60	158	60
TX80GH3006	27	3407	69.5	64	160	23
RH830101	31	3407	75.9	68	158	50
NA81-283	19	3363	75.9	64	158	37
XH182	39	3363	75.9	61	157	60
TX69A569-1-69	23	3004	70.8	69	158	37
KS80336	14	2959	78.5	64	160	27
NA81-297	18	2802	75.9	57	158	43
OK81065	11	2757	70.8	67	159	10
NA80310	15	2399	68.2	61	160	20
HP114	34	2040	69.5	65	159	20
W7442B	35	1973	73.4	63	160	25
TX81V6610	28	1704	70.8	54	160	5
W8460D	37	1457	68.2	59	159	7
OK81064	10	1345	63.1	61	160	0
TX81V6614	29	1255	69.5	53	160	2
KS82163	13	986	63.1	56	160	2
TX38949-2	30	785	60.5	61	160	2
KS82167	12	538	64.4	35	160	2
78DW14	33	202	.	24	.	0
MEAN		3191				
LSD(.05)		1001				
C.V.		19.2				

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
OK80019	5	4797	77.2	73	163	57
OK81306	8	4483	75.9	74	164	60
78DW14	33	4461	72.1	71	162	90
OK80268	6	4282	77.2	71	163	50
OK81280	7	4147	75.9	70	163	63
OK81322	9	3945	74.6	73	163	33
RH830101	31	3901	73.4	75	161	73
XH140A	38	3811	72.1	72	162	60
TX81V6610	28	3654	87.5	64	163	60
TX80A6025	25	3632	68.2	66	163	53
W7452B	36	3632	72.1	69	162	67
TX71A562-6-28	21	3587	72.1	64	163	63
RH830201	32	3542	73.4	75	163	48
W8460D	37	3542	68.2	64	163	57
TX81V6614	29	3497	74.6	62	163	70
NE80413	4	3452	66.9	75	164	53
NA81-283	19	3407	68.2	64	162	53
OK81064	10	3363	75.9	62	164	63
KS80336	14	3250	73.4	70	162	70
TX80GH2679	26	3250	66.9	64	162	43
13996	2	3228	75.9	79	162	73
17826	3	3183	70.8	69	161	70
OK81065	11	3161	75.9	66	163	53
NA81-362	20	3094	74.6	58	163	63
TX80GH3006	27	3094	68.2	66	163	50
NA80300	16	2981	64.4	70	163	27
KS82163	13	2937	68.2	64	163	37
HP114	34	2869	69.5	64	162	67
TXGH2875	22	2802	68.2	64	162	37
TX38949-2	30	2802	64.4	65	163	50
NA81-459	17	2533	73.4	67	162	40
TX80A5609	24	2466	64.4	67	163	47
W7442B	35	2399	65.6	66	163	50
NA81-297	18	2331	69.5	59	162	27
XH182	39	2287	66.9	60	163	60
TX69A569-1-69	23	2264	68.2	62	162	43
NA80310	15	2130	63.1	64	162	53
1442	1	1928	66.9	94	167	47
KS82167	12	1345	69.5	63	163	33

MEAN	3217
LSD(.05)	1084
C.V.	20.6

PRESHO

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
1442	1	3363	77.2	87	161	90
TX80A6025	25	2825	73.4	67	158	85
W7442B	35	2802	74.6	57	158	90
NE80413	4	2623	47.6	68	160	63
NA80310	15	2511	72.1	59	160	77
OK80268	6	2466	77.2	60	160	85
TX80A5609	24	2466	77.2	58	157	90
OK81306	8	2264	73.4	64	160	90
RH830201	32	2264	65.6	61	157	60
OK80019	5	2219	73.4	68	160	90
OK81322	9	2219	77.2	60	159	62
RH830101	31	2174	75.9	59	157	60
W7452B	36	2130	70.8	57	157	90
W8460D	37	2018	75.9	57	160	33
XH140A	38	2018	75.9	58	158	90
13996	2	1995	75.9	70	158	90
NA81-283	19	1861	74.6	55	157	90
NA80300	16	1838	70.8	61	159	85
17826	3	1749	75.9	54	158	90
TX69A569-1-69	23	1726	77.2	53	158	90
TX80GH3006	27	1704	74.6	58	159	85
TX38949-2	30	1704	78.5	57	159	80
TX71A562-6-28	21	1681	70.8	53	159	90
HP114	34	1524	77.2	53	158	90
OK81064	10	1502	72.1	58	160	87
TXGH2875	22	1502	75.9	54	158	90
NA81-297	18	1480	75.9	52	157	90
OK81065	11	1457	68.2	60	160	63
XH182	39	1435	74.6	49	157	63
NA81-459	17	1412	78.5	50	158	87
OK81280	7	1390	74.6	55	158	90
TX80GH2679	26	1390	70.8	53	158	90
KS80336	14	1367	75.9	54	158	90
NA81-362	20	1367	73.4	47	159	90
KS82167	12	1278	74.6	56	159	60
TX81V6614	29	1278	65.6	52	159	57
TX81V6610	28	1211	75.9	47	160	85
KS82163	13	1166	73.4	57	159	85
78DW14	33	852	74.6	61	160	8
MEAN		1852				
LSD(.05)		564				
C.V.		18.6				

COLUMBIA

MISSOURI

TWO REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	SEPTORIA 0-9
KS80336	14	3987	77.2	89	11	149	93	5
OK81065	11	3936	77.9	87	6	149	93	3
OK81280	7	3867	76.6	88	5	147	95	4
RH830201	32	3819	72.7	93	5	147	95	4
OK81322	9	3765	75.9	91	4	149	95	3
OK81306	8	3741	74.6	92	1	150	97	3
RH830101	31	3738	77.2	95	8	147	95	5
TXGH2875	22	3720	73.4	82	7	146	81	5
TX69A569-1-69	23	3616	74.6	86	4	148	93	4
NA81-459	17	3542	77.2	92	10	146	92	4
NA81-362	20	3527	77.9	79	3	148	93	4
TX81V6614	29	3515	75.9	80	7	148	94	5
TX80GH2679	26	3496	73.4	82	5	148	89	4
XH140A	38	3486	73.4	87	0	149	91	5
NA81-283	19	3434	72.7	86	6	149	94	5
NA80300	16	3419	73.4	93	12	149	88	5
OK80268	6	3411	75.9	86	4	150	92	3
TX80GH3006	27	3411	72.1	81	5	149	92	4
17826	3	3405	73.4	87	4	149	90	4
OK81064	10	3392	74	85	7	149	94	4
TX71A562-6-28	21	3380	71.4	87	8	150	92	5
W7442B	35	3336	78.5	86	1	147	90	5
OK80019	5	3263	75.3	89	5	150	92	3
XH182	39	3226	77.2	75	0	144	95	7
TX81V6610	28	3225	75.3	79	7	149	90	4
78DW14	33	3211	75.3	89	5	149	89	3
NA80310	15	3177	72.7	83	12	149	89	5
NA81-297	18	3169	79.2	81	5	147	89	5
W8460D	37	3090	75.3	78	7	149	90	4
KS82163	13	3083	75.9	86	11	148	94	6
13996	2	2943	75.9	104	9	149	92	4
KS82167	12	2933	75.9	87	6	148	93	6
TX80A5609	24	2920	72.1	86	4	148	94	6
TX80A6025	25	2889	75.9	82	9	150	75	4
1442	1	2888	77.9	116	11	159	94	3
TX38949-2	30	2868	74	86	4	148	82	5
NE80413	4	2827	75.3	101	12	153	80	4
W7452B	36	2689	76.6	80	1	149	83	5
HP114	34	2442	76.6	80	11	148	86	7
MEAN		3325						
LSD(.05)		734						
C.V.		13.5						

AMES

IOWA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1	DAYS TO RIPENING FROM 1/1	WINTER SURVIVAL %
OK81322	9	3071	76.1	71	3	157	192	78
OK81280	7	2939	77.1	74	5	156	190	69
XH140A	38	2737	73.4	74	1	157	190	90
OK81306	8	2668	76.1	71	1	160	193	49
NA81-362	20	2665	75.3	69	4	155	189	89
XH182	39	2524	.	68	1	153	188	89
1442	1	2490	76.1	99	10	161	193	78
OK80019	5	2278	74.3	75	3	159	193	45
13996	2	2269	74.8	88	6	158	192	60
RH830201	32	2251	72.6	79	4	155	191	75
NA81-459	17	2168	71.7	75	1	155	191	73
TX80GH2679	26	2071	72.1	70	6	155	191	63
NE80413	4	2065	68.7	83	3	158	193	60
TX69A569-1-69	23	2065	70.5	71	6	155	190	72
NA81-297	18	1993	70	64	5	153	189	75
RH830101	31	1952	71	80	4	154	190	52
TX80GH3006	27	1937	68.2	69	2	158	192	38
NA81-283	19	1896	66	69	1	157	189	70
HP114	34	1775	71.3	69	2	156	191	52
W8460D	37	1697	69.8	65	1	156	191	43
OK80268	6	1592	72.2	64	1	159	193	20
TXGH2875	22	1524	69.8	66	5	155	192	40
KS80336	14	1276	65.9	70	2	156	189	34
TX80A5609	24	1159	64.7	67	1	156	191	42
TX80A6025	25	1152	64.6	69	2	160	193	20
17826	3	1098	64.7	68	2	156	192	18
TX71A562-6-28	21	1098	62.8	69	1	159	192	19
TX81V6610	28	827	.	62	2	158	192	18
OK81065	11	814	.	69	1	160	193	7
W7442B	35	769	.	65	1	158	193	15
TX81V6614	29	758	.	59	0	159	192	7
W7452B	36	646	.	67	2	158	193	9
NA80310	15	619	.	64	0	159	194	7
NA80300	16	585	.	71	1	159	192	5
KS82163	13	540	.	65	1	159	192	5
TX38949-2	30	419	.	64	7	158	194	8
OK81064	10	397	.	68	1	160	194	2
KS82167	12	379	.	62	2	159	194	4
Y8DW14	33	.	.	.	.	.	.	0

MEAN	1621
LSD(.05)	748
C.V.	28.3

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
TXGH2875	22	5252	75	80	158
KS80336	14	5217	76.6	83	158
NA81-283	19	5158	75.7	79	159
NA81-362	20	5042	78.8	72	158
NA81-459	17	5004	76.3	86	156
TX71A562-6-28	21	4912	72.3	81	159
NE80413	4	4877	77.7	88	160
W7452B	36	4864	78	78	157
XH182	39	4678	77.9	72	156
NA80310	15	4664	74.2	78	158
W7442B	35	4613	78	72	159
TX80GH3006	27	4597	72.7	73	160
XH140A	38	4586	76.6	80	160
TX80GH2679	26	4562	76.1	78	157
NA81-297	18	4554	78.9	68	156
RH830101	31	4462	77.5	85	158
TX69A569-1-69	23	4389	76.2	72	158
W8460D	37	4359	77.6	69	160
TX80A5609	24	4327	75.1	77	157
RH830201	32	4278	76.1	88	158
NA80300	16	4184	76.8	83	159
OK80019	5	4119	75.6	79	161
OK81306	8	4065	76.4	70	163
OK80268	6	4044	76.1	79	159
OK81064	10	3952	76.7	74	159
17826	3	3947	76.8	93	159
TX38949-2	30	3947	77.3	66	159
OK81322	9	3922	77.9	74	161
KS82167	12	3885	77.4	75	159
TX80A6025	25	3871	78.8	72	160
OK81065	11	3650	79	65	161
TX81V6610	28	3645	78.1	68	159
OK81280	7	3620	76.2	77	157
KS82163	13	3588	78.8	72	159
1442	1	3404	79	101	162
HP114	34	3302	78	65	160
13996	2	3083	78.7	82	160
TX81V6614	29	3065	78.7	60	161
78DW14	33	2539	75.7	73	162
MEAN		4211			
LSD(.05)		944			
C.V.		13.7			

ABERDEEN

IDAHO

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1	STRIPE RUST SEV. %	STRIPE RUST RESP 0-9
MANNING	40	6557	75	85	4	173	0	0
W7452B	36	5335	77.9	81	2	168	25	9
NA80300	16	5223	75.3	88	2	170	25	6
NA81-459	17	5066	77.5	86	1	167	30	4
HP114	34	4907	77.5	84	3	166	2	4
NA81-297	18	4876	77.9	76	2	164	40	5
TX71A562-6-28	21	4858	73.4	75	2	170	30	5
TX80GH3006	27	4607	72.7	77	2	170	50	5
NA80310	15	4571	72.5	79	1	169	10	2
W7442B	35	4512	78.9	76	2	168	25	6
OK81280	7	4470	74	85	2	170	60	7
78DW14	33	4344	73.1	88	2	171	90	7
NA81-283	19	4277	75.7	79	2	165	70	9
TX38949-2	30	4235	77.2	80	2	165	20	5
OK81322	9	4221	74.6	88	2	171	60	9
XH140A	38	4143	71.8	81	2	172	70	7
TX80A5609	24	4069	71.8	84	2	167	99	9
TX80GH2679	26	4053	75.7	76	2	166	90	9
OK81064	10	4048	74.4	76	2	167	25	6
OK81306	8	3914	72.1	91	2	173	30	7
NA81-362	20	3862	76.2	71	1	167	15	4
RH830101	31	3820	75.7	80	2	166	90	7
NE80413	4	3694	77.9	93	4	174	50	5
XH182	39	3652	75	69	2	166	50	6
OK80019	5	3602	72.1	86	3	171	40	4
TX69A569-1-69	23	3540	75	66	2	167	99	9
OK81065	11	3472	75.7	79	3	170	70	7
OK80268	6	3414	73.1	77	1	171	20	5
W8460D	37	3293	71.2	71	2	171	90	9
TX81V6614	29	3026	77.5	67	2	170	5	3
RH830201	32	3022	74.6	81	3	169	90	7
1442	1	2986	74.6	110	7	177	50	7
KS80336	14	2961	73.7	76	2	167	90	9
TX80A6025	25	2831	71.2	83	2	169	99	9
TX81V6610	28	2809	77.2	66	2	169	30	5
TXGH2875	22	2730	73.7	72	2	168	99	9
13996	2	2721	75.7	99	6	170	50	7
KS82163	13	2524	75.3	64	2	167	0	0
KS82167	12	1890	74.8	71	2	171	0	0
17826	3	.	.	.	.	.	.	.
MEAN		3900						
LSD(.05)		1436						
C.V.		22.5						

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	WINTER SURVIVAL %	STRIPE RUST SEV. %	STRIPE RUST RESP 0-9
XH140A	38	3387	81.2	81	158	98	35	6
HATTON	40	3204	82.1	90	164	92	12	4
NA81-459	17	3136	82.6	87	156	97	50	6
NA81-362	20	2948	82.1	72	156	97	55	7
NA80300	16	2892	80.4	86	159	92	40	6
NE80413	4	2890	81.9	91	157	87	20	6
TX71A562-6-28	21	2887	81.3	76	158	95	35	6
1442	1	2883	80.8	109	161	100	10	6
TX80GH3006	27	2876	80.1	71	158	88	62	7
NA80310	15	2858	79.4	77	159	97	35	6
OK81306	8	2849	80.6	85	163	82	18	6
WESTON	41	2800	81.6	96	159	90	18	8
WANSER	42	2782	81.1	94	163	90	20	5
OK80268	6	2777	80.4	77	161	93	12	4
NA81-297	18	2742	82.5	77	155	88	60	8
W7452B	36	2706	80.8	79	156	97	55	6
OK81322	9	2681	81.2	80	160	95	25	6
TX81V6610	28	2634	83.4	74	158	85	40	6
TX81V6614	29	2625	83.5	69	157	87	15	5
TX80A6025	25	2596	81	80	160	88	90	8
XH182	39	2578	81.3	80	154	90	68	8
OK81280	7	2562	80.6	77	158	83	15	4
13996	2	2560	81.3	88	154	97	20	6
RH830201	32	2535	80.8	85	155	98	72	8
OK81065	11	2529	81.6	74	156	85	28	6
W7442B	35	2490	82.1	81	157	95	70	6
SAGE	43	2477	81.7	90	154	97	55	8
TX38949-2	30	2473	80.4	75	154	87	18	6
RH830101	31	2459	80.7	76	154	100	78	8
TX80A5609	24	2417	79.9	80	156	92	92	8
HP114	34	2327	81.2	79	156	87	28	5
OK81064	10	2325	80.7	76	155	83	50	6
W8460D	37	2284	79.7	72	157	88	94	8
NA81-283	19	2253	81.1	76	155	97	90	8
TX69A569-1-69	23	2224	80.4	74	155	95	80	8
OK80019	5	2219	80.3	84	159	88	85	8
TX80GH2679	26	2125	79.8	71	155	97	88	8
78DW14	33	2094	78.6	84	159	77	90	8
KS82167	12	2071	80.8	77	154	90	22	6
TXGH2875	22	1928	78.6	71	154	100	88	8
KS82163	13	1793	80.4	75	155	88	15	4
KS80336	14	1782	81.6	74	157	87	99	8
17826	3	.	.	.	.	.	.	.
MEAN		2551						
LSD(.05)		421						
C.V.		10.1						

Table 2. Summary of mean yields (kg/ha) of 39 wheats grown in the 1984 Southern Regional Performance Nursery at 29 locations, 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		AMES IOWA	
WINTER WHEAT HYBRID	XH140A	38	2917	16	4780	1	4284	1	3994	1	2737	3
PAYNE//TAM W-101/AMIGO	OK81322	9	2480	30	3815	20	3414	18	3236	21	3071	1
SDY SIB/TMP//CTK	TX71A562-6-28	21	2896	17	3928	15	3542	12	3455	12	1098	27
SDY SIB/TMP//CTK*4/AMIGO	TX80GH3006	27	2891	18	4122	10	3914	3	3642	6	1937	17
TAM 105*4/AMIGO	TXGH2875	22	3232	7	4299	4	3477	17	3669	4	1524	22
PAYNE//TAM W-101/AMIGO	OK81306	8	3333	4	2935	36	3762	7	3343	17	2668	4
LOVRIN 13/2*CTK78	NE80413	4	2682	22	4343	3	3815	6	3613	7	2065	14
TAM 105*4/AMIGO	TX80GH2679	26	3329	5	3974	14	3645	10	3649	5	2071	12
WINTER WHEAT HYBRID	RH830101	31	3049	11	3186	32	3833	4	3356	15	1952	16
WINTER WHEAT HYBRID	RH830201	32	3401	3	3768	21	4190	2	3786	2	2251	10
PAYNE/AMIGO	OK80019	5	2942	15	3750	22	3356	20	3349	16	2278	8
TAM 105	CI17826	3	3177	10	4024	13	2950	32	3384	13	1098	27
TAM 105 RESELECTION	TX69A569-1-69	23	3308	6	4215	6	3147	25	3557	9	2065	14
TAM W-103//SH. WHEAT/SUT	TX80A5609	24	2655	24	4144	9	3300	21	3366	14	1159	24
BULK SELECTION	NA81-283	19	3183	9	3459	27	3062	28	3235	22	1896	18
WINTER WHEAT HYBRID	XH182	39	1889	36	4243	5	3170	24	3101	27	2524	6
PAYNE/HW76-1226	NA81-362	20	2535	28	3562	24	2860	33	2986	30	2665	5
PAYNE//TAM W-101/AMIGO	OK81280	7	2236	32	3180	33	3037	29	2818	35	2939	2
BULK SELECTION	NA80310	15	2496	29	3845	19	3486	16	3276	20	619	33
BULK SELECTION	NA81-459	17	3194	8	4352	2	3697	8	3747	3	2168	11
TX71A1039-V1*3/AMIGO	TX81V6614	29	3031	12	3742	23	3636	11	3470	11	758	31
TAM W-101/AMIGO	OK81065	11	3411	2	3145	35	2840	34	3132	25	814	29
PAYNE//TAM W-101/AMIGO	OK80268	6	2234	33	3300	30	2959	31	2831	34	1592	21
BULK SELECTION	NA80300	16	2618	25	3166	34	3818	5	3200	23	585	34
TX71A1039-V1*3/AMIGO	TX81V6610	28	2763	20	4049	12	2598	36	3137	24	827	28
SDY SIB/TCS//CTK/3/AMIGO	TX80A6025	25	2559	27	3902	16	2461	38	2974	31	1152	25
CAPROCK/B86//SC3212	W7442B	35	2094	35	3478	26	2403	39	2658	38	769	30
STURDY/B48//STURDY	W7452B	36	1701	38	3199	31	3524	15	2808	36	646	32
TAM W-101/AMIGO	OK81064	10	2567	26	3357	29	3398	19	3107	26	397	37
SCOUT 66	CI13996	2	2861	19	3861	17	3259	22	3327	18	2269	9
BULK SELECTION	NA81-297	18	2170	34	3431	28	3082	27	2894	32	1993	15
PARKER76/CIMMYT-SCOUT	KS80336	14	2434	31	3855	18	2972	30	3087	28	1276	23
W558/TAM W-101	W8460D	37	2947	13	4176	7	2822	35	3315	19	1697	20
MEXICAN BULK HYBRID SELECTION	HP114	34	1496	39	3515	25	3215	23	2742	37	1775	19
PRONTO/PARKER76	KS82163	13	2945	14	4150	8	3533	14	3543	10	540	35
AMIGO/3/2*TX71A937, SDY SIB/TCS//CTK	TX38949-2	30	2713	21	2893	37	3533	14	3046	29	419	36
MEXICAN BULK HYBRID SELECTION	78DW14	33	1829	37	2529	38	2591	37	2316	39	.	.
PRONTO/PARKER76	KS82167	12	3429	1	4102	11	3141	26	3557	8	379	38
KHARKOF	CI1442	1	2660	23	2360	39	3649	9	2890	33	2490	7
	MEAN		2725		3696		3318		3248		1621	
	LSD(.05)		798		900		950		692		748	
	C.V.		17.9		14.9		17.5		16.7		28.3	

Table 2. (continued)

C.I. OR SEL. NO.	ENTRY NO.	HAYS KANSAS		GARDEN CITY KANSAS		COLBY KANSAS		KANSAS STATE MEAN		BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN	
XH140A	38	2926	25	5345	31	3986	17	4085	27	3811	8	4842	4	2018	15	3557	4
OK81322	9	2976	22	6779	1	4575	1	4777	1	3945	6	5223	1	2219	11	3796	2
TX71A562-6-28	21	3194	13	5581	23	3903	24	4226	18	3587	12	4170	8	1681	23	3146	13
TX80GH3006	27	3380	4	5885	13	4250	2	4505	6	3094	25	3407	22	1704	22	2735	21
TXGH2875	22	3608	2	6071	6	4006	14	4562	3	2802	30	3632	16	1502	26	2645	22
OK81306	8	2913	26	5878	14	4174	8	4322	11	4483	2	4080	10	2264	9	3609	3
NE80413	4	2307	38	5668	18	4205	4	4060	29	3452	16	4102	9	2623	4	3392	7
TX80GH2679	26	3324	5	5540	24	4163	9	4342	10	3250	20	3766	13	1390	32	2802	19
RH830101	31	3144	16	6172	5	4048	12	4455	9	3901	7	3407	22	2174	12	3161	12
RH830201	32	3229	9	5961	10	4237	3	4476	8	3542	14	3699	15	2264	9	3168	11
OK80019	5	2948	24	5435	27	4001	15	4128	23	4797	1	5021	2	2219	11	4013	1
CI17826	3	2964	23	5589	22	3853	27	4135	22	3183	22	3587	17	1749	19	2839	18
TX69A569-1-69	23	3407	3	6069	7	3952	21	4476	7	2264	36	3004	25	1726	20	2331	30
TX80A5609	24	3044	20	5218	38	3849	28	4037	30	2466	32	3407	22	2466	7	2780	20
NA81-283	19	3123	18	5339	32	4042	13	4168	20	3407	17	3363	24	1861	17	2877	17
XH182	39	3227	10	5363	30	3757	30	4116	26	2287	35	3363	24	1435	29	2361	27
NA81-362	20	3245	7	5712	17	3990	16	4316	13	3094	25	4349	6	1367	34	2937	15
OK81280	7	2818	29	5957	11	4181	6	4319	12	4147	5	4214	7	1390	32	3250	10
NA80310	15	2832	27	5254	37	3392	36	3826	38	2130	37	2399	29	2511	5	2346	28
NA81-459	17	2658	33	5261	36	3945	22	3955	35	2533	31	3856	12	1412	30	2600	23
TX81V6614	29	3163	15	6377	3	3974	19	4505	5	3497	15	1255	35	1278	36	2010	35
OK81065	11	3232	8	5293	34	4176	7	4234	17	3161	23	2757	28	1457	28	2458	25
OK80268	6	2826	28	5944	12	3865	26	4212	19	4282	4	3744	14	2466	7	3497	5
NA80300	16	2564	35	5303	33	3652	31	3840	37	2981	26	3968	11	1838	18	2929	16
TX81V6610	28	3099	19	6453	2	4181	6	4578	2	3654	9	1704	32	1211	37	2189	32
TX80A6025	25	2599	34	6208	4	3954	20	4254	14	3632	11	3452	19	2825	2	3303	8
W7442B	35	3873	1	5990	9	3800	29	4554	4	2399	33	1973	31	2802	3	2391	26
W7452B	36	3220	12	5798	15	3365	38	4128	24	3632	11	3475	18	2130	13	3079	14
OK81064	10	3268	6	5482	26	3974	19	4241	15	3363	18	1345	34	1502	26	2070	34
CI13996	2	2383	36	5594	21	3936	23	3971	34	3228	21	4551	5	1995	16	3258	9
NA81-297	18	3225	11	5990	9	3497	35	4237	16	2331	34	2802	27	1480	27	2204	31
KS80336	14	2804	30	5604	20	4060	10	4156	21	3250	20	2959	26	1367	34	2526	24
W8460D	37	3129	17	5529	25	3593	33	4083	28	3542	14	1457	33	2018	15	2339	29
HP114	34	3021	21	5714	16	3647	32	4128	25	2869	28	2040	30	1524	24	2145	33
KS82163	13	2699	32	5372	29	3865	26	3979	33	2937	27	986	36	1166	38	1696	38
TX38949-2	30	3170	14	5414	28	3376	37	3987	32	2802	30	785	37	1704	22	1763	37
78DW14	33	2350	37	5619	19	3564	34	3844	36	4461	3	202	39	852	39	1838	36
KS82167	12	2708	31	5287	35	4053	11	4016	31	1345	39	538	38	1278	36	1054	39
CI1442	1	1888	39	4432	39	3147	39	3156	39	1928	38	4954	3	3363	1	3415	6
MEAN		2987		5679		3902		4189		3217		3191		1852		2750	
LSD(.05)		469		766		381		446		1084		1001		564		1277	
C.V.		9.6		6.6		6.0		7.2		20.6		19.2		18.6		20.3	

Table 2. (continued)

C.I. OR SEL. NO.	ENTRY NO.	FORT COLLINS COLORADO		WALSH COLORADO		BURLINGTON COLORADO		AKRON COLORADO		JULESBURG COLORADO		COLORADO STATE MEAN		COLUMBIA MISSOURI		URBANA ILLINOIS	
XH140A	38	6736	11	2131	22	4025	4	5023	2	2633	7	4110	2	3486	14	4586	13
OK81322	9	6808	10	2363	4	3356	26	4221	5	2391	21	3828	11	3765	5	3922	28
TX71A562-6-28	21	7877	1	2454	3	4264	1	3837	16	2720	3	4230	1	3380	21	4912	6
TX80GH3006	27	7873	2	1987	31	3855	9	3058	38	2470	17	3849	5	3411	18	4597	12
TXGH2875	22	5920	25	2326	5	3918	5	4337	4	2702	6	3841	9	3720	8	5252	1
OK81306	8	7504	5	2139	20	3874	7	3211	34	2268	31	3799	13	3741	6	4065	23
NE80413	4	6956	9	2241	9	2841	37	4122	7	2389	22	3710	19	2827	37	4877	7
TX80GH2679	26	5401	34	2152	18	3620	17	3735	25	2484	15	3479	30	3496	13	4562	14
RH830101	31	5985	23	2116	24	3817	11	3937	13	2706	5	3712	18	3738	7	4462	16
RH830201	32	5896	26	2091	26	3801	12	3971	10	2912	1	3734	16	3819	4	4278	20
OK80019	5	6309	19	2138	21	3248	33	3820	19	2379	24	3579	23	3263	23	4119	22
CI17826	3	6727	12	2504	1	3684	15	3754	24	2547	11	3843	7	3405	19	3947	27
TX69A569-1-69	23	6240	21	2274	8	4050	3	3761	23	2716	4	3808	12	3616	9	4389	17
TX80A5609	24	7042	7	1874	36	4205	2	3836	17	2323	29	3856	4	2920	33	4327	19
NA81-283	19	6094	22	2109	25	3493	22	3808	20	2480	16	3597	21	3434	15	5158	3
XH182	39	5289	36	2156	17	3831	10	3422	30	2420	20	3424	31	3226	24	4678	9
NA81-362	20	5574	31	2018	29	3581	19	4074	8	2540	12	3558	24	3527	11	5042	4
OK81280	7	6519	15	2159	16	3175	34	3366	31	2186	35	3481	29	3867	3	3620	33
NA80310	15	7190	6	2215	11	3333	29	3300	33	2547	11	3717	17	3177	27	4664	10
NA81-459	17	5086	37	2143	19	3706	13	3309	32	2788	2	3407	33	3542	10	5004	5
TX81V6614	29	7692	4	2160	15	3585	18	3722	26	2368	25	3905	3	3515	12	3065	38
OK81065	11	5650	30	2303	7	3515	20	3770	21	2186	35	3485	28	3936	2	3650	31
OK80268	6	6345	16	1780	38	3406	25	3956	12	2090	36	3515	26	3411	18	4044	24
NA80300	16	6556	14	1986	32	3045	35	3696	27	2434	18	3543	25	3419	16	4184	21
TX81V6610	28	6973	8	2184	14	3666	16	4216	6	2192	33	3846	6	3225	25	3645	32
TX80A6025	25	7705	3	1901	35	3342	28	3882	15	2385	23	3843	8	2889	34	3871	30
W7442B	35	6322	18	2458	2	3494	21	3165	35	2523	13	3592	22	3336	22	4613	11
W7452B	36	5444	32	2240	10	3303	31	3088	36	1970	39	3209	37	2689	38	4864	8
OK81064	10	5811	28	2017	30	3353	27	5670	1	2323	29	3835	10	3392	20	3952	25
CI13996	2	5420	33	2208	12	3855	8	3997	9	2615	8	3619	20	2943	31	3083	37
NA81-297	18	4869	38	2305	6	3441	23	2959	39	2367	26	3188	38	3169	28	4554	15
KS80336	14	6275	20	2052	28	3694	14	3072	37	2429	19	3504	27	3987	1	5217	2
W8460D	37	5926	24	1853	37	2826	38	3827	18	2566	9	3399	34	3090	29	4359	18
HP114	34	5396	35	2196	13	3313	30	3578	29	2063	37	3309	36	2442	39	3302	36
KS82163	13	6702	13	1930	33	3894	6	3884	14	2359	27	3754	15	3083	30	3588	34
TX38949-2	30	5721	29	2131	23	3260	32	3767	22	2230	32	3422	32	2868	36	3947	27
78DW14	33	5870	27	2090	27	2714	39	3962	11	1999	38	3327	35	3211	26	2539	39
KS82167	12	6326	17	1919	34	3416	24	4686	3	2487	14	3767	14	2933	32	3885	29
CI1442	1	4438	39	1775	39	2966	36	3647	28	2297	30	3025	39	2888	35	3404	35
MEAN		6268		2130		3532		3806		2423		3632		3325		4211	
LSD(.05)		1037		N.S.		638		N.S.		N.S.		N.S.		734		944	
C.V.		10.1		12.2		11.1		21.0		15.2		14.6		13.5		13.7	

Table 2. (continued)

C.I. OR SEL. NO.	ENTRY NO.	DALLAS TEXAS		CHILLI-COTHE TEXAS		BUSHLAND (IRR.) TEXAS		TEXAS STATE MEAN		CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		FARMINGTON NEW MEXICO		NEW MEXICO STATE MEAN	
XH140A	38	3636	14	1993	18	6029	12	3886	12	4374	7	2118	14	6469	33	4320	23
OK81322	9	3974	4	2358	2	5489	28	3941	8	4079	13	822	38	8446	4	4449	18
TX71A562-6-28	21	3387	25	1816	31	6244	8	3816	17	3968	18	2297	10	7872	13	4713	8
TX80GH3006	27	3921	5	2087	10	6661	1	4223	2	4771	2	2165	12	7335	23	4757	7
TXGH2875	22	4022	3	2280	4	5571	26	3957	6	4276	10	2311	9	9154	1	5247	1
OK81306	8	3856	9	2163	7	5365	32	3795	19	4037	16	1533	31	7872	13	4481	17
NE80413	4	3468	21	1780	33	5598	24	3615	31	4369	8	2016	18	7360	22	4582	12
TX80GH2679	26	3916	6	1988	19	5784	19	3896	11	4016	17	2922	2	7921	10	4953	4
RH830101	31	3197	33	1771	34	5923	15	3630	29	4301	9	2707	5	6652	31	4553	15
RH830201	32	3300	28	1939	23	5479	29	3573	34	4570	3	2073	17	6139	36	4261	29
OK80019	5	3540	18	1968	21	5376	31	3628	30	4224	12	2237	11	7530	19	4664	9
CI17826	3	3082	36	1874	28	6022	13	3659	25	4802	1	1933	21	7884	11	4873	5
TX69A569-1-69	23	3208	31	1939	23	5777	20	3641	27	3654	26	1958	20	8116	7	4576	13
TX80A5609	24	3174	34	2013	15	6614	2	3934	9	4265	11	1771	27	7860	14	4632	10
NA81-283	19	3600	15	2002	16	5513	27	3705	23	3354	34	1371	35	7579	18	4101	32
XH182	39	4387	1	2199	6	6419	7	4335	1	3920	19	2802	3	6103	37	4275	25
NA81-362	20	3425	24	2031	14	5650	22	3702	24	3465	32	1485	32	5822	38	3590	39
OK81280	7	3571	17	1919	24	5831	18	3774	20	3907	20	2077	16	6798	28	4261	28
NA80310	15	3499	20	2118	9	6533	5	4050	4	3486	29	3022	1	8495	3	5001	3
NA81-459	17	3304	27	1896	26	5308	35	3503	35	3227	36	1002	37	6725	29	3651	38
TX81V6614	29	3221	30	1982	20	6453	6	3885	13	3270	35	1392	34	9007	2	4556	14
OK81065	11	3313	26	2051	13	6240	9	3868	15	4531	4	2770	4	8019	9	5107	2
OK80268	6	3143	35	2295	3	5284	36	3574	33	3876	21	1862	24	7225	25	4321	22
NA80300	16	3640	13	1997	17	6000	14	3879	14	3363	33	1891	22	7372	21	4209	30
TX81V6610	28	3203	32	2069	12	6556	4	3943	7	3483	30	1124	36	7726	16	4111	31
TX80A6025	25	3443	23	1887	27	5847	17	3726	22	3837	22	1850	25	7103	27	4264	27
W7442B	35	3683	12	2365	1	5342	33	3797	18	3589	28	1876	23	8031	8	4499	16
W7452B	36	3901	7	1834	30	5573	25	3769	21	4041	15	1484	33	7677	17	4401	19
OK81064	10	3683	12	1917	25	6605	3	4068	3	3594	27	1984	19	8287	6	4622	11
CI13996	2	2587	38	1791	32	5340	34	3239	38	4060	14	2587	7	6200	35	4282	24
NA81-297	18	3842	10	2228	5	5695	21	3922	10	2529	39	640	39	8360	5	3843	36
KS80336	14	2941	37	1733	36	5643	23	3439	37	3750	24	1786	26	7482	20	4339	20
W8460D	37	4073	2	1861	29	6049	11	3994	5	3822	23	1712	28	7274	24	4269	26
HP114	34	3448	22	1686	37	5214	37	3449	36	4454	6	2098	15	7726	16	4759	6
KS82163	13	3506	19	1302	38	6150	10	3653	26	4500	5	2126	13	6359	34	4328	21
TX38949-2	30	3862	8	2125	8	5475	30	3821	16	3477	31	1585	30	7213	26	4091	33
78DW14	33	3573	16	2085	11	5107	38	3588	32	3164	38	2325	8	6688	30	4059	34
KS82167	12	3282	29	1740	35	5885	16	3635	28	3658	25	1641	29	6627	32	3975	35
CI1442	1	1403	39	1181	39	3886	39	2157	39	3224	37	2609	6	5456	39	3763	37
MEAN		3467		1955		5783		3735		3879		1948		7384		4404	
LSD(.05)		524		448		618		574		1014		853		N.S.		N.S.	
C.V.		9.3		14.0		6.5		8.8		16.0		26.8		20.6		23.1	

Table 2. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		OKLAHOMA STATE MEAN		ABERDEEN IDAHO		LIND WASHINGTON		REGIONAL AVERAGE
XH140A	38	3433	7	1525	33	1785	21	6233	2	3244	5	4143	15	3387	1	3841
OK81322	9	2927	33	1754	12	1960	13	5100	27	2935	25	4221	14	2681	14	3763
TX71A562-6-28	21	3371	11	1606	26	1839	18	5956	5	3193	7	4858	6	2887	6	3763
TX80GH3006	27	3298	13	1494	36	1888	15	5006	29	2921	27	4607	7	2876	8	3722
TXGH2875	22	2666	38	1821	7	2251	1	5675	11	3103	14	2730	35	1928	36	3690
OK81306	8	3537	3	1718	16	2094	4	4562	37	2978	21	3914	19	2849	10	3682
NE80413	4	3288	14	1610	25	2148	2	5561	15	3152	11	3694	22	2890	5	3631
TX80GH2679	26	3162	21	1673	17	1870	17	5799	6	3126	13	4053	17	2125	33	3625
RH830101	31	3424	8	1592	27	1655	27	5345	22	3004	18	3820	21	2459	25	3603
RH830201	32	3144	22	1785	9	1565	30	5528	17	3006	17	3022	30	2535	21	3600
OK80019	5	3012	30	1502	34	2036	8	4957	30	2877	28	3602	24	2219	32	3594
CI17826	3	3280	16	1588	29	1978	10	5764	7	3153	10	.	.	.	.	3591
TX69A569-1-69	23	3132	25	1637	23	2103	3	5752	8	3156	9	3540	25	2224	31	3560
TX80A5609	24	3030	29	1668	18	1816	19	6152	4	3167	8	4069	16	2417	26	3555
NA81-283	19	3437	6	1839	6	2090	5	5528	17	3223	6	4277	12	2253	30	3523
XH182	39	3142	23	2135	2	1668	25	6373	1	3330	2	3652	23	2578	18	3505
NA81-362	20	3169	20	1731	14	1964	12	6213	3	3269	4	3862	20	2948	3	3500
OK81280	7	3210	18	1745	13	1727	24	4603	36	2821	31	4470	10	2562	19	3497
NA80310	15	2876	35	1650	21	1426	32	4819	33	2693	38	4571	8	2858	9	3474
NA81-459	17	3047	28	1772	11	1915	14	5406	20	3035	16	5066	3	3136	2	3464
TX81V6614	29	3180	19	1803	8	1790	20	5732	9	3126	12	3026	29	2625	16	3459
OK81065	11	3334	12	1610	25	1597	29	5296	24	2959	22	3472	26	2529	22	3450
OK80268	6	3286	15	1659	20	1973	11	4782	34	2925	26	3414	27	2777	11	3442
NA80300	16	3071	27	1776	10	1772	23	4863	31	2870	29	5223	2	2892	4	3437
TX81V6610	28	3709	1	1902	5	2059	6	5711	10	3345	1	2809	34	2634	15	3435
TX80A6025	25	2921	34	1529	32	1305	35	5406	20	2790	34	2831	33	2596	17	3423
W7442B	35	2737	37	1906	4	1776	22	5357	21	2944	24	4512	9	2490	23	3419
W7452B	36	2968	31	1991	3	1655	27	5671	12	3071	15	5335	1	2706	13	3418
OK81064	10	3468	5	1588	29	973	39	4851	32	2720	36	4048	18	2325	28	3396
CI13996	2	3135	24	1659	20	1879	16	5332	23	3001	19	2721	36	2560	20	3376
NA81-297	18	3407	9	2153	1	2027	9	5585	14	3293	3	4876	5	2742	12	3371
KS80336	14	3667	2	1494	36	1251	36	5504	18	2979	20	2961	32	1782	38	3355
W8460D	37	2852	36	1579	30	1166	38	5601	13	2800	32	3293	28	2284	29	3342
HP114	34	3117	26	1543	31	2036	8	5088	28	2946	23	4907	4	2327	27	3267
KS82163	13	3267	17	1350	38	1395	33	5153	26	2791	33	2524	37	1793	37	3209
TX38949-2	30	2962	32	1646	22	1543	31	5275	25	2856	30	4235	13	2473	24	3193
78DW14	33	3515	4	1722	15	1332	34	4501	38	2767	35	4344	11	2094	34	3101
KS82167	12	3401	10	1431	37	1202	37	4770	35	2701	37	1890	38	2071	35	3086
CI1442	1	2337	39	1054	39	1624	28	3396	39	2103	39	2986	31	2883	7	2908
MEAN		3177		1673		1747		5339		2984		3831		2528		3468
LSD(.05)		543		260		272		822		462		1429		411		349
C.V.		10.5		9.5		9.6		9.4		10.8		22.8		9.9		16.7

Table 3. Summary of mean yields (kg/ha) and ranks of 39 wheats grown in the 1984 Southern Regional Performance Nursery at 15 locations from the Midwest from which a C.V. of 16.0 or less and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	SIDNEY NEBRASKA		DALLAS TEXAS		CHILLI-COTHE TEXAS		BUSHLAND (IRR.) TEXAS		CLOVIS (IRR.) NEW MEXICO		HAYS KANSAS		GARDEN CITY KANSAS		COLBY KANSAS	
TX80GH3006	27	4122	10	3921	5	2087	10	6661	1	4771	2	3380	4	5885	13	4250	2
TX81V6610	28	4049	12	3203	32	2069	12	6556	4	3483	30	3099	19	6453	2	4181	6
TX71A562-6-28	21	3928	15	3387	25	1816	31	6244	8	3968	18	3194	13	5581	23	3903	24
XH140A	38	4780	1	3636	14	1993	18	6029	12	4374	7	2926	25	5345	31	3986	17
TXGH2875	22	4299	4	4022	3	2280	4	5571	26	4276	10	3608	2	6071	6	4006	14
OK81322	9	3815	20	3974	4	2358	2	5489	28	4079	13	2976	22	6779	1	4575	1
TX81V6614	29	3742	23	3221	30	1982	20	6453	6	3270	35	3163	15	6377	3	3974	19
XH182	39	4243	5	4387	1	2199	6	6419	7	3920	19	3227	10	5363	30	3757	30
TX80A5609	24	4144	9	3174	34	2013	15	6614	2	4265	11	3044	20	5218	38	3849	28
TX69A569-1-69	23	4215	6	3208	31	1939	23	5777	20	3654	26	3407	3	6069	7	3952	21
17826	3	4024	13	3082	36	1874	28	6022	13	4802	1	2964	23	5589	22	3853	27
OK81306	8	2935	36	3856	9	2163	7	5365	32	4037	16	2913	26	5878	14	4174	8
RH830201	32	3768	21	3300	28	1939	23	5479	29	4570	3	3229	9	5961	10	4237	3
TX80GH2679	26	3974	14	3916	6	1988	19	5784	19	4016	17	3324	5	5540	24	4163	9
RH830101	31	3186	32	3197	33	1771	34	5923	15	4301	9	3144	16	6172	5	4048	12
W7442B	35	3478	26	3683	12	2365	1	5342	33	3589	28	3873	1	5990	9	3800	29
NE80143	4	4343	3	3468	21	1780	33	5598	24	4369	8	2307	38	5668	18	4205	4
OK81065	11	3145	35	3313	26	2051	13	6240	9	4531	4	3232	8	5293	34	4176	7
NA81-362	20	3562	24	3425	24	2031	14	5650	22	3465	32	3245	7	5712	17	3990	16
TX80A6025	25	3902	16	3443	23	1887	27	5847	17	3837	22	2599	34	6208	4	3954	20
KS82163	13	4150	8	3506	19	1302	38	6150	10	4500	5	2699	32	5372	29	3865	26
NA81-283	19	3459	27	3600	15	2002	16	5513	27	3354	34	3123	18	5339	32	4042	13
KS80336	14	3855	18	2941	37	1733	36	5643	23	3750	24	2804	30	5604	20	4060	10
OK81280	7	3180	33	3571	17	1919	24	5831	18	3907	20	2818	29	5957	11	4181	6
OK80019	5	3750	22	3540	18	1968	21	5376	31	4224	12	2948	24	5435	27	4001	15
NA80310	15	3845	19	3499	20	2118	9	6533	5	3486	29	2832	27	5254	37	3392	36
OK80268	6	3300	30	3143	35	2295	3	5284	36	3876	21	2826	28	5944	12	3865	26
OK81064	10	3357	29	3683	12	1917	25	6605	3	3594	27	3268	6	5482	26	3974	19
W8460D	37	4176	7	4073	2	1861	29	6049	11	3822	23	3129	17	5529	25	3593	33
NA81-297	18	3431	28	3842	10	2228	5	5695	21	2529	39	3225	11	5990	9	3497	35
W7452B	36	3199	31	3901	7	1834	30	5573	25	4041	15	3220	12	5798	15	3365	38
NA81-459	17	4352	2	3304	27	1896	26	5308	35	3227	36	2658	33	5261	36	3945	22
KS82167	12	4102	11	3282	29	1740	35	5885	16	3658	25	2708	31	5287	35	4053	11
NA80300	16	3166	34	3640	13	1997	17	6000	14	3363	33	2564	35	5303	33	3652	31
13996	2	3861	17	2587	38	1791	32	5340	34	4060	14	2383	36	5594	21	3936	23
HP114	34	3515	25	3448	22	1686	37	5214	37	4454	6	3021	21	5714	16	3647	32
TX38949-2	30	2893	37	3862	8	2125	8	5475	30	3477	31	3170	14	5414	28	3376	37
78DW14	33	2529	38	3573	16	2085	11	5107	38	3164	38	2350	37	5619	19	3564	34
1442	1	2360	39	1403	39	1181	39	3886	39	3224	37	1888	39	4432	39	3147	39
MEAN		3696		3467		1955		5783		3879		2987		5679		3902	
LSD(.05)		900		524		448		618		1014		469		766		381	
C.V.		14.9		9.3		14.0		6.5		16.0		9.6		6.6		6.0	

Table 3. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	FORT COLLINS COLORADO		BURLINGTON COLORADO		COLUMBIA MISSOURI		STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		REGIONAL AVERAGE
TX80GH3006	27	7873	2	3855	9	3411	18	3298	13	1494	36	1888	15	5006	29	4127
TX81V6610	28	6973	8	3666	16	3225	25	3709	1	1902	5	2059	6	5711	10	4023
TX71A562-6-28	21	7877	1	4264	1	3380	21	3371	11	1606	26	1839	18	5956	5	4021
XH140A	38	6736	11	4025	4	3486	14	3433	7	1525	33	1785	21	6233	2	4019
TXGH2875	22	5920	25	3918	5	3720	8	2666	38	1821	7	2251	1	5675	11	4007
OK81322	9	6808	10	3356	26	3765	5	2927	33	1754	12	1960	13	5100	27	3981
TX81V6614	29	7692	4	3585	18	3515	12	3180	19	1803	8	1790	20	5732	9	3965
XH182	39	5289	36	3831	10	3226	24	3142	23	2135	2	1668	25	6373	1	3945
TX80A5609	24	7042	7	4205	2	2920	33	3030	29	1668	18	1816	19	6152	4	3944
TX69A569-1-69	23	6240	21	4050	3	3616	9	3132	25	1637	23	2103	3	5752	8	3917
17826	3	6727	12	3684	15	3405	19	3280	16	1588	29	1978	10	5764	7	3909
OK81306	8	7504	5	3874	7	3741	6	3537	3	1718	16	2094	4	4562	37	3890
RH830201	32	5896	26	3801	12	3819	4	3144	22	1785	9	1565	30	5528	17	3868
TX80GH2679	26	5401	34	3620	17	3496	13	3162	21	1673	17	1870	17	5799	6	3848
RH830101	31	5985	23	3817	11	3738	7	3424	8	1592	27	1655	27	5345	22	3820
W7442B	35	6322	18	3494	21	3336	22	2737	37	1906	4	1776	22	5357	21	3803
NE80143	4	6956	9	2841	37	2827	37	3288	14	1610	25	2148	2	5561	15	3798
OK81065	11	5650	30	3515	20	3936	2	3334	12	1610	25	1597	29	5296	24	3795
NA81-362	20	5574	31	3581	19	3527	11	3169	20	1731	14	1964	12	6213	3	3789
TX80A6025	25	7705	3	3342	28	2889	34	2921	34	1529	32	1305	35	5406	20	3785
KS82163	13	6702	13	3894	6	3083	30	3267	17	1350	38	1395	33	5153	26	3759
NA81-283	19	6094	22	3493	22	3434	15	3437	6	1839	6	2090	5	5528	17	3756
KS80336	14	6275	20	3694	14	3987	1	3667	2	1494	36	1251	36	5504	18	3751
OK81280	7	6519	15	3175	34	3867	3	3210	18	1745	13	1727	24	4603	36	3747
OK80019	5	6309	19	3248	33	3263	23	3012	30	1502	34	2036	8	4957	30	3705
NA80310	15	7190	6	3333	29	3177	27	2876	35	1650	21	1426	32	4819	33	3695
OK80268	6	6345	16	3406	25	3411	18	3286	15	1659	20	1973	11	4782	34	3693
OK81064	10	5811	28	3353	27	3392	20	3468	5	1588	29	973	39	4851	32	3688
W8460D	37	5926	24	2826	38	3090	29	2852	36	1579	30	1166	38	5601	13	3685
NA81-297	18	4869	38	3441	23	3169	28	3407	9	2153	1	2027	9	5585	14	3673
W7452B	36	5444	32	3303	31	2689	38	2968	31	1991	3	1655	27	5671	12	3643
NA81-459	17	5086	37	3706	13	3542	10	3047	28	1772	11	1915	14	5406	20	3628
KS82167	12	6326	17	3416	24	2933	32	3401	10	1431	37	1202	37	4770	35	3613
NA80300	16	6556	14	3045	35	3419	16	3071	27	1776	10	1772	23	4863	31	3613
13996	2	5420	33	3855	8	2943	31	3135	24	1659	20	1879	16	5332	23	3585
HP114	34	5396	35	3313	30	2442	39	3117	26	1543	31	2036	8	5088	28	3576
TX38949-2	30	5721	29	3260	32	2868	36	2962	32	1646	22	1543	31	5275	25	3538
78DW14	33	5870	27	2714	39	3211	26	3515	4	1722	15	1332	34	4501	38	3390
1442	1	4438	39	2966	36	2888	35	2337	39	1054	39	1624	28	3396	39	2682
MEAN		6268		3532		3325		3177		1673		1747		5339		3761
LSD(.05)		1037		638		734		543		260		272		822		283
C.V.		10.1		11.1		13.5		10.5		9.5		9.6		9.4		10.9

Table 4. Summary of mean yields (kg/ha) for 16 wheats grown in the Southern Regional Performance Nursery at 27 sites in 1983 and 1984 with state means and ranks. (Clovis, NM irrigated and dryland nurseries and Lind, WA are not included in the regional means.)

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	NORTH PLATTE NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN		AMES IOWA		URBANA ILLINOIS	
SDY SIB/TMP//CTK*4/AMIGO	TX80GH3006	27	3905	1	4161	1	4033	1	2909	5	4813	2
TAM 105*4/AMIGO	TX80GH2679	26	3668	3	3338	3	3503	2	3232	2	4643	6
TAM 105*4/AMIGO	TXGH2875	22	3322	7	3068	12	3195	6	2883	6	5062	1
SDY SIB/TMP//CTK	TX71A562-6-28	21	3790	2	3179	7	3485	3	2311	13	4535	8
PAYNE/AMIGO	OK80019	5	3543	4	3202	6	3372	4	3342	1	3785	13
TAM 105 RESELECTION	TX69A569-1-59	23	3356	6	2901	13	3129	10	3111	3	4724	4
PAYNE//TAM W-101/AMIGO	OK80268	6	2799	12	2877	15	2838	15	2987	4	3777	14
LOVRIN 13/2*CTK78	NE80413	4	2995	11	3354	2	3175	7	2868	7	4474	9
BULK SELECTION	NA80310	15	2571	15	3215	5	2893	13	2219	14	4700	5
CAPROCK/B86//SC3212	W7442B	35	3212	9	2676	16	2944	12	2522	9	4537	7
STURDY/B48//STURDY	W7452B	36	2757	13	3155	9	2956	11	2401	11	4801	3
TAM W-103//SH. WHEAT/SUT	TX80A5609	24	3084	10	3233	4	3158	8	2034	15	4030	10
SDY SIB/TCS//CTK/3/AMIGO	TX80A6025	25	3394	5	2898	14	3146	9	2578	8	3974	11
BULK SELECTION	NA80300	16	3279	8	3131	10	3205	5	1747	16	3787	12
SCOUT 66	13996	2	2584	14	3130	11	2857	14	2438	10	3194	15
KHARKOF	1442	1	2371	16	3163	8	2767	16	2365	12	3124	16
	MEAN		3164		3168		3165		2622		4247	
	LSD(.05)		N.S.		N.S.		N.S.		N.S.		715	
	C.V.		16.8		19.2		18.1		16.3		10.2	

Table 4. (continued)

C.I. OR SEL. NO.	ENTRY NO.	DALLAS TEXAS		CHILLI-COTHE TEXAS		TEXAS STATE MEAN		STILLWATER OKLAHOMA		ALTUS OKLAHOMA		LAHOMA OKLAHOMA		GOODWELL OKLAHOMA		OKLAHOMA STATE MEAN	
TX80GH3006	27	3526	3	2891	8	3208	5	3115	4	2480	11	3307	4	5435	9	3584	8
TX80GH2679	26	3472	4	3062	2	3267	2	2835	8	2415	15	3233	5	6060	5	3636	5
TXGH2875	22	3407	5	3069	1	3238	3	2946	6	2697	1	3533	2	6112	2	3822	1
TX71A562-6-28	21	3153	11	2791	13	2972	12	3160	2	2619	4	3161	6	5963	7	3726	3
OK80019	5	3245	10	2857	10	3051	9	3168	1	2475	13	3565	1	5006	15	3554	10
TX69A569-1-69	23	3030	13	2875	9	2952	13	2735	11	2524	8	3136	7	6110	3	3627	7
OK80268	6	3250	9	2963	6	3107	7	3131	3	2565	6	3441	3	5392	10	3632	6
NE80413	4	3367	7	2817	11	3092	8	2932	7	2684	2	2995	9	6071	4	3670	4
NA80310	15	3382	6	3035	4	3208	5	2512	15	2500	9	2634	13	5125	14	3193	15
W7442B	35	3608	2	3059	3	3333	1	2718	12	2477	12	2980	10	6059	6	3559	9
W7452B	36	3674	1	2715	14	3194	6	3043	5	2670	3	3118	8	6233	1	3766	2
TX80A5609	24	2898	14	2950	7	2924	14	2541	14	2538	7	2585	15	5865	8	3382	12
TX80A6025	25	3106	12	2977	5	3041	11	2613	13	2482	10	2630	14	5288	12	3253	14
NA80300	16	3294	8	2802	12	3048	10	2737	10	2596	5	2901	11	5315	11	3387	11
13996	2	2654	15	2615	15	2635	15	2800	9	2419	14	2646	12	5198	13	3266	13
1442	1	1650	16	1905	16	1778	16	2095	16	1686	16	1930	16	3303	16	2254	16
MEAN		3170		2836		3003		2818		2489		2987		5533		4357	
LSD(.05)		691		389		N.S.		N.S.		427		N.S.		924		606	
C.V.		11.9		7.5		10.2		12.1		6.3		9.4		7.8		9.2	

Table 4. (continued)

C.I. OR SEL. NO.	ENTRY NO.	CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		FARMINGTON NEW MEXICO		NEW MEXICO STATE MEAN		HAYS KANSAS		GARDEN CITY KANSAS		COLBY KANSAS		KANSAS STATE MEAN	
TX80GH3006	27	3449	3	1945	4	7997	3	4463	2	4244	5	4804	3	4421	1	4490	2
TX80GH2679	26	3520	2	2047	2	7695	4	4421	4	4189	6	4778	4	4227	3	4398	3
TXGH2875	22	3445	4	1701	8	8136	1	4427	3	4268	4	5140	1	4232	2	4547	1
TX71A562-6-28	21	3419	5	1685	9	6541	14	3882	9	4274	3	4397	10	4223	4	4298	4
OK80019	5	3283	7	1973	3	7507	6	4254	5	3568	11	4391	11	4133	5	4030	8
TX69A569-1-69	23	3525	1	1565	12	7345	8	4145	8	4300	2	4861	2	3480	13	4214	5
OK80268	6	3373	6	1769	6	7538	5	4226	6	3523	12	4627	6	4043	7	4064	7
NE80413	4	3024	13	1439	13	6571	13	3678	13	2792	15	4291	12	4092	6	3725	14
NA80310	15	3119	11	2340	1	8041	2	4500	1	3917	9	4514	7	3822	10	4084	6
W7442B	35	3278	8	1792	5	7369	7	4146	7	4391	1	4420	8	3194	15	4002	9
W7452B	36	3035	12	1214	16	6729	11	3659	14	3953	7	4660	5	3256	14	3956	10
TX80A5609	24	2894	14	1406	15	7305	9	3868	11	3944	8	4172	13	3632	12	3916	11
TX80A6025	25	3236	9	1421	14	6670	12	3776	12	3306	13	4398	9	4028	8	3911	12
NA80300	16	3204	10	1596	11	6812	10	3870	10	3756	10	4105	14	3813	11	3891	13
13996	2	2625	15	1741	7	6329	15	3565	15	3057	14	4032	15	3842	9	3644	15
1442	1	2207	16	1638	10	6132	16	3326	16	2230	16	3077	16	2923	16	2743	16
MEAN		3165		1704		7170		4013		3732		4416		3835		3994	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		699		852		N.S.		772	
C.V.		17.1		23.7		19.6		22.8		7.9		9.2		6.2		7.8	

Table 4. (continued)

C.I. OR SEL. NO.	ENTRY NO.	FORT COLLINS COLORADO		WALSH COLORADO		BURLINGTON COLORADO		AKRON COLORADO		JULESBURG COLORADO		COLORADO STATE MEAN		COLUMBIA MISSOURI	
TX80GH3006	27	7942	1	2112	3	3806	3	2850	11	2541	8	3850	1	3790	2
TX80GH2679	26	6295	12	1976	7	3753	4	2947	8	2652	3	3524	8	3688	4
TXGH2875	22	6138	13	1976	6	4019	1	3195	2	2507	9	3567	6	3595	6
TX71A562-6-28	21	7338	3	1995	5	3704	5	2775	13	2346	13	3632	4	3494	7
OK80019	5	6649	8	1669	15	3380	9	3187	3	2597	4	3496	10	3737	3
TX69A569-1-69	23	6437	10	2001	4	3944	2	2852	10	2692	2	3585	5	3954	1
OK80268	6	6531	9	1779	14	3434	8	3186	4	2577	5	3501	9	3622	5
NE80413	4	7067	6	1877	11	3025	15	2921	9	2499	10	3478	13	2990	13
NA80310	15	7075	5	2199	2	3191	13	2984	7	2345	14	3559	7	3419	9
W7442B	35	6360	11	2225	1	3313	11	2706	14	2841	1	3489	11	3440	8
W7452B	36	5864	14	1789	13	3325	10	2562	16	2284	15	3165	15	3112	12
TX80A5609	24	7149	4	1961	9	3531	6	3092	5	2453	11	3637	3	2811	16
TX80A6025	25	7634	2	1928	10	3451	7	3357	1	2558	6	3786	2	3222	11
NA80300	16	6882	7	1966	8	3063	14	3057	6	2438	12	3481	12	3334	10
13996	2	5374	15	1844	12	3243	12	2841	12	2549	7	3170	14	2989	14
1442	1	4058	16	1583	16	2422	16	2578	15	2204	16	2569	16	2902	15
MEAN		6549		1930		3413		2943		2505		3468		3381	
LSD(.05)		988		N.S.		N.S.		N.S.		N.S.		N.S.		560	
C.V.		9.5		18.1		12.3		13.2		13.4		12.6		10.5	

Table 4. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN		ABERDEEN IDAHO		LIND WASHINGTON		REGIONAL AVERAGE
TX80GH3006	27	2924	9	3765	9	3156	10	3282	9	5954	2	2693	1	4035
TX80GH2679	26	3164	5	3768	7	3075	12	3336	8	5437	6	1290	15	3900
TXGH2875	22	2740	10	3602	12	2947	15	3097	11	4577	12	1274	16	3882
TX71A562-6-28	21	3360	3	4288	2	3445	4	3697	2	6058	1	2044	3	3871
OK80019	5	4088	1	4341	1	3127	11	3852	1	4439	13	1623	13	3792
TX69A569-1-69	23	1993	16	3327	13	3191	9	2837	14	5030	10	1472	14	3746
OK80268	6	3651	2	3781	6	3292	7	3575	3	4627	11	2007	4	3725
NE80413	4	3353	4	3820	5	3399	5	3524	4	5232	8	2146	2	3687
NA80310	15	2250	14	2743	15	3375	6	2789	15	5747	5	1931	6	3646
W7442B	35	2293	13	2436	16	2987	14	2572	16	5387	7	1733	9	3634
W7452B	36	2953	8	3148	14	3011	13	3038	12	5807	3	1728	10	3626
TX80A5609	24	2466	12	3767	8	3798	1	3344	7	5145	9	1664	12	3624
TX80A6025	25	3085	6	3670	10	3473	3	3409	5	4233	14	1853	8	3623
NA80300	16	2537	11	3634	11	2677	16	2949	13	5769	4	1896	7	3560
13996	2	3052	7	3821	4	3195	8	3356	6	3733	15	1699	11	3316
1442	1	2032	15	4074	3	3577	2	3228	10	3620	16	1970	5	2792
MEAN		2871		3624		3233		3243		5050		1814		3654
LSD(.05)		819		N.S.		N.S.		N.S.		1154		539		377
C.V.		19.8		14.9		12.2		15.6		16.6		29.4		15.0

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 39 entries in the 1984 Southern Regional Performance Nursery.

Entry no.	C. I. or Sel. No.	Mean Yield over 29 locations (kg/ha)	Regression Coefficient (by·x)	Correlation Coefficient (r)	Coefficient of Determination (r^2)
38	XH140A	3841	0.93	0.93	0.87
9	OK81322	3763	1.06	0.93	0.87
21	TX71A562-6-28	3763	1.14	0.98	0.95
27	TX80GH3006	3722	1.09	0.97	0.94
22	TXGH2875	3690	1.10	0.95	0.90
8	OK81306	3682	0.98	0.94	0.88
4	NE80413	3631	1.00	0.96	0.93
26	TX80GH2679	3625	0.97	0.97	0.94
31	RH830101	3603	0.92	0.97	0.95
32	RH830201	3600	0.85	0.95	0.91
5	OK80019	3594	0.92	0.94	0.88
3	17826	3591	1.08	0.98	0.97
23	TX69A569-1-69	3560	1.05	0.98	0.95
24	TX80A5609	3555	1.13	0.98	0.95
19	NA81-283	3523	0.98	0.98	0.95
39	XH182	3505	0.87	0.92	0.84
20	NA81-362	3500	0.87	0.93	0.86
7	OK81280	3497	0.92	0.94	0.88
15	NA80310	3474	1.11	0.95	0.90
17	NA81-459	3464	0.87	0.92	0.85
29	TX81V6614	3459	1.27	0.96	0.91
11	OK81065	3450	1.02	0.96	0.92
6	OK80268	3442	0.94	0.97	0.93
16	NA80300	3437	1.02	0.96	0.92
28	TX81V6610	3435	1.17	0.96	0.92
25	TX80A6025	3423	1.08	0.96	0.92
35	W7442B	3419	1.03	0.94	0.89
36	W7452B	3418	1.04	0.94	0.89
10	OK81064	3396	1.14	0.94	0.88
2	13996	3376	0.80	0.92	0.85
18	NA81-297	3371	1.01	0.92	0.85
14	KS80336	3355	1.08	0.97	0.94
37	W8460D	3342	1.02	0.96	0.92
34	Hp114	3267	0.98	0.95	0.90
13	KS82163	3209	1.05	0.93	0.87
30	TX38949-2	3193	1.00	0.94	0.89
33	78DW14	3101	0.93	0.87	0.76
12	KS82167	3086	1.03	0.90	0.81
1	1442	2908	0.55	0.73	0.54

Table 6. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield or location mean yield for 16 entries in the 1983 and 1984 Southern Regional Performance Nursery.

Entry no.	C. I. or Sel. No.	Mean yield over 27 locations (kg/ha)	Regression Coefficient (by x)	Correlation Coefficient (r)	Coefficient of Determination (r^2)
27	TX80GH3006	4035	1.14	0.96	0.92
26	TX80GH2679	3900	1.05	0.97	0.95
22	TXGH2875	3882	1.08	0.96	0.91
21	TX71A562-6-28	3871	1.08	0.95	0.90
5	OK80019	3792	0.93	0.94	0.88
23	TX69A569-1-69	3746	1.05	0.96	0.93
6	OK80268	3725	0.98	0.96	0.93
4	NE80413	3687	1.01	0.96	0.92
15	NA80310	3646	1.21	0.96	0.92
35	W7442B	3634	1.02	0.93	0.87
36	W7452B	3626	1.01	0.94	0.89
24	TX80A5609	3624	1.07	0.97	0.94
25	TX80A6025	3623	1.01	0.95	0.91
16	NA80300	3560	1.02	0.97	0.93
2	13996	3316	0.79	0.92	0.85
1	1442	2792	0.63	0.79	0.62

Table 7. Summary of agronomic and yield data for 39 wheats grown in the 1984 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			22	22	1	4	7
WINTER WHEAT HYBRID	XH140A	38	78	149	190	1	83
PAYNE//TAM W-101/AMIGO	OK81322	9	78	149	192	3	73
SDY SIB/TMP//CTK	TX71A562-6-28	21	77	148	192	10	69
SDY SIB/TMP//CTK*4/AMIGO	TX80GH3006	27	74	149	192	6	63
TAM 105*4/AMIGO	TXGH2875	22	75	146	192	4	65
PAYNE//TAM W-101/AMIGO	OK81306	8	81	150	193	3	73
LOVRIN 13/2*CTK78	NE80413	4	89	150	193	5	66
TAM 105*4/AMIGO	TX80GH2679	26	74	145	191	5	70
WINTER WHEAT HYBRID	RH830101	31	82	146	190	7	73
WINTER WHEAT HYBRID	RH830201	32	82	147	191	7	69
PAYNE/AMIGO	OK80019	5	80	149	193	7	71
TAM 105	17826	3	76	145	192	4	63
TAM 105 RESELECTION	TX69A569-1-69	23	75	146	190	5	71
TAM W-103//SH. WHEAT/SUT	TX80A5609	24	76	146	191	8	71
BULK SELECTION	NA81-283	19	75	146	189	4	74
WINTER WHEAT HYBRID	XH182	39	71	145	188	2	77
PAYNE/HW76-1226	NA81-362	20	69	147	189	3	85
PAYNE//TAM W-101/AMIGO	OK81280	7	78	147	190	12	77
BULK SELECTION	NA80310	15	74	149	194	7	58
BULK SELECTION	NA81-459	17	81	147	191	4	77
TX71A1039-V1*3/AMIGO	TX81V6614	29	70	148	192	9	54
TAM W-101/AMIGO	OK81065	11	75	148	193	11	53
PAYNE//TAM W-101/AMIGO	OK80268	6	76	149	193	4	66
BULK SELECTION	NA80300	16	81	149	192	8	58
TX71A1039-V1*3/AMIGO	TX81V6610	28	71	148	192	8	59
SDY SIB/TCS//CTK/3/AMIGO	TX80A6025	25	77	148	193	7	59
CAPROCK/B86//SC3212	W7442B	35	76	147	193	1	59
STURDY/B48//STURDY	W7452B	36	76	147	193	2	66
TAM W-101/AMIGO	OK81064	10	74	147	194	8	55
SCOUT 66	13996	2	92	148	192	19	84
BULK SELECTION	NA81-297	18	71	146	189	4	71
PARKER76/CIMMYT-SCOUT	KS80336	14	77	148	189	10	66
W558/TAM W-101	W8460D	37	71	147	191	7	54
MEXICAN BULK HYBRID SELECTION	HP114	34	76	146	191	10	67
PRONTO/PARKER76	KS82163	13	75	147	192	10	51
AMIGO/3/2*TX71A937, SDY SIB/TCS//CTK	TX38949-2	30	75	147	194	4	52
MEXICAN BULK HYBRID SELECTION	78DW14	33	82	147	.	5	42
PRONTO/PARKER76	KS82167	12	75	147	194	11	48
KHARKOF	1442	1	103	154	193	14	84

Table 7. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	STRIPE RUST SEV. %	STRIPE RUST RESP 1-9	LEAF RUST SEV. %	LEAF RUST RESP 1-9	STEM RUST SEV. %	STEM RUST RESP 1-9	SEPTORIA 0-9	CEPHALOSP STRIPE 1-5	POWDERY MILDEW 0-9	LEAF BURN 1-9	VOLUME WEIGHT KG/HL	YIELD KG/HA
Number of trials		2	2	1		1		1	1	1	1	28	29
XH140A	38	53		6		0		5	4	5	3.5	75.6	3841
OK81322	9	43		0		0		3	4	0	2.5	76.1	3763
TX71A562-6-28	21	33		1		0		5	3	1	2.5	73.7	3763
TX80GH3006	27	56		2		0		4	2	0	4	72.9	3722
TXGH2875	22	94		1		0		5	4	1	3	75.1	3690
OK81306	8	24		0		0		3	2	0	3	74.7	3682
NE80413	4	35		0		0		4	3	0	2.5	75	3631
TX80GH2679	26	89		3		0		4	3	0	4	75.4	3625
RH830101	31	84		1		10		5	3	3	5	76.6	3603
RH830201	32	81		16		10		4	2	2	5.5	75.5	3600
OK80019	5	63		0		0		3	3	0	2	75.4	3594
17826	3	.		4		0		4	3	1	2.5	75.3	3591
TX69A569-1-69	23	90		1		0		4	3	1	3	75.4	3560
TX80A5609	24	96		1		0		6	4	3	3.5	73.4	3555
NA81-283	19	80		3		0		5	2	1	2.5	75.6	3523
XH182	39	59		11		10		7	5	4	6	76.6	3505
NA81-362	20	35		1		0		4	3	3	3	77.4	3500
OK81280	7	38		1		0		4	3	0	3	75.3	3497
NA80310	15	23		1		0		5	2	0	3.5	73.7	3474
NA81-459	17	40		1		0		4	2	1	3	77.4	3464
TX81V6614	29	10		1		0		5	2	0	5	77.4	3459
OK81065	11	49		0		0		3	2	0	2.5	75.9	3450
OK80268	6	16		0		0		3	2	1	3	75.3	3442
NA80300	16	33		3		0		5	3	0	3.5	74.7	3437
TX81V6610	28	35		1		0		4	1	0	4.5	78	3435
TX80A6025	25	95		3		0		4	3	2	4	75.5	3423
W7442B	35	48		1		30		5	2	3	4.5	77.8	3419
W7452B	36	40		1		0		5	5	1	4.5	76.6	3418
OK81064	10	38		0		0		4	4	0	4	74.5	3396
13996	2	35		1		0		4	4	2	2	76.8	3376
NA81-297	18	50		1		30		5	4	1	2.5	77.5	3371
KS80336	14	95		3		10		5	4	1	2.5	76.4	3355
W8460D	37	92		3		0		4	2	6	5	74.4	3342
HP114	34	15		3		20		7	5	5	6	76.3	3267
KS82163	13	8		1		0		6	2	0	4	75.1	3209
TX38949-2	30	19		1		0		5	4	0	5.5	75.1	3193
78DW14	33	90		1		20		3	4	0	8.5	73.8	3101
KS82167	12	11		1		0		6	2	0	4.5	75.2	3086
1442	1	30		3		20		3	1	5	2	76.2	2908

Table 8. Seedling reactions of entries in the 1984 Southern Regional 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).

		Reaction produced by isolates								
		70-44-68A	72-00-13706	69-21-399	71-21-584B	72-25-6396	72-00-53A	75-32-1662A	72-04-1A	74-21-1409A
Entry	Variety,	29	151		11-32-113				15B-2	
no.	Sel. No.	HJCS	QFBS	QSHS	RHRS	RKQS	RTQQ	RTQS	TNMH	TNMK
1	Kharkof	S	S	S	S	S	S	S	S	S
2	Scout 66	S	S	S	S	S	0;	S	0;	S
3	TAM 105	2	2	2	2	2	2	2	S	S
4	NE80413	0	0;	2=	2=	2=	0	0	0	0
5	OK80019	2=	2=	2=	2=	2=	2=	2=	2=	2=
6	OK80268	2=	2=	2=	2=	2=	2=	2=	2=	2=
7	OK81280	2=	2=	2=	2=	;	;	;	0,2=	0,2=
8	OK81306	2=	2=	2=	2=	2=	2=	2=	0,2=	0,2=
9	OK81322	2=	2=	2=	2=	;	;	;	2=	2=
10	OK81064	2=	2=	2=	2=	2=	2=	2=	;1-	2=
11	OK81065	2=	2=	2=	2=	2=	2=	2=	2=	2=
12	KS82167	2-	2	2	2	2	2	2	S	S
13	KS82163	2-	2	2	2	2	2+	2+	S	S
14	KS80336	2=	2=	2=	2=	2=	2=	2-	2	2-
15	NS80310	2=	;	2	2	2-	2-	2	0;	0;
16	NS80300	2=	;	2	2=	2-	2-	2	0;	0;
17	N81-459	0	2=	2-	2-	2-	0;	2-	0;	2-
18	N81-297	0	2-	2	S	S	0;	S	0;	S
19	N81-283	S	2,S	S	S	S	0	S	0	S
20	N81-362	2=	2=	2	2=	2=	2	2	S	-
21	TX71A562-6-28	2	0	2	2	2=	0;	1	0	0
22	TXGH2875	2=	1c	2-	2-	2=	2=	1	1	2=
23	TX69A569-1-69	2	2-	2	2	2	2	2	S	S
24	TX80A5609	2-	2-	2	2-	2-	2-	2	S	S
25	TX80A6025	2=	;	2=,S	2=	2=	0;,2=	2=	0;	0;
26	TX80GH2679	2=	2=	2=	2=	2=	2=	2=	2=	2=
27	TX80GH3006	2=	0	2=	2=	;1	0	1	0;	0;
28	TX81V6610	0,2=	2=	2=	2=	2=	2=	2=	2=	2=
29	TX81V6614	0,2=	2=	2-	2=	2=	2=	2=	2=	2=
30	TX38949-2	2=	2=	2=	2=	2=	0;	2=	0;	2=
31	RH820101	0;	;,2	2	2	2	2+	2	;1,S	;1-
32	RH830201	2	;,S	2CN	2	2	2	2	0,S	0,S
33	78DW14	2-	2-	S	S	21CN	21CN	2CN	2	2
34	Hp114	0	23,S	23	S	S	S	S	S	S
35	W7442B	S	S	S	S	S	S	S	S	S
36	W7452B	S	2-	2-	S	S,23CN	-	23	S	S
37	W8460D	2=	2-	2+	S	S	S	S	2=	2=
38	XH140A	s	1N	S	12-	S	S	S	1+N	21N
39	XH182	2	2-	2-	2+	23	23	23	S	S

Table 9. Adult plant reactions of entries in the 1984 Southern Regional Performance Nursery to Puccinia graminis f. sp. tritici and Puccinia recondita in an inoculated nursery at St. Paul, MN. (Data provided by D. V. McVey, USDA, ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN.)

	Variety or Sel. No.	Leaf Rust	Stem Rust
1	Kharkof	99S	90S
2	Scout 66	90S	60S
3	TAM105	90S	90S
4	NE80413	TR	5MR, 30MS-S
5	OK80019	5R	10R-MR
6	OK80268	5R	20MR
7	OK81280	TR	10MR
8	OK81306	TR	10R-MR
9	OK81322	TR	20MR
10	OK81064	20MR	20MR
11	OK81065	20MR	40MS
12	KS82167	30S	40MS
13	KS82163	40S	60S
14	KS80336	40S	60MS-S
15	NA80310	30MS	10R-MR
16	NA80300	40S	30MR
17	NA81-459	5R	10R-MR
18	NA81-297	40S	60S
19	NA81-283	10MS	40MS-S
20	NA81-362	40S	60MS-S
21	TX71A562-6-28	10MS	10R-MR
22	TXGH2875	TS,60S	10R-MR
23	TX69A569-1-69	60S	30MR-MS
24	TX80A5609	99S	40MS-S
25	TX80A6025	5R	20R-MR
26	TX80GH2679	60S	30MR
27	TX80GH3006	5MS	10R
28	TX81V6610	10R-MR	30MR
29	TX81V6614	5R	30MR
30	TX38949-2	10MS-S	20MR-MS
31	RH830101	20S	40MS-S
32	RH830201	40S	40S
33	78DW14	5MS	80S
34	Hp114	40S	40MS-S
35	W7442B	60S	80S
36	W7452B	30S	80S
37	W8460D	60S	60S
38	XH140A	40S	60S
39	XH182	60S	60S

Table 10. Field Infection Data, Soil-Borne Wheat Mosaic, 1984 Southern Regional Winter Wheat Performance Nursery, Urbana, IL.[1]
(Cooperators: H. Jedlinski and C. M. Brown)

Entry no.	Disease Severity	
	Rep 1	Rep 2
1	VS	VS
2	VS	VS
3	VS	VS
4	R-MR	R-MR
5	VS	VS
6	VS	VS
7	VS	VS
8	VS	VS
9	VS	VS
10	VS	VS
11	VS	VS
12	MR-MS	MR-MS
13	MR	MR
14	MR-MS	MR-MS
15	R	R-MR
16	VR	VR
17	MS-MR	MS-MR
18	MR-MS	MR-MS
19	R-MS	R-MS
20	S	S
21	R-MR	R-MR
22	VS	VS
23	VS	VS
24	VS	VS
25	VS	VS
26	VS	VS
27	VS	VS
28	VS	VS
29	VS	VS
30	VS	VS
31	VS	VS
32	VS	VS
33	VS	VS
34	VS	VS
35	VS	VS
36	R	R
37	MR	MR
38	R-MR	R-MR
39	MS	MS

[1]The nursery was planted in soil-borne mosaic nursery at Urbana, Illinois on October 5, 1983. Optimal conditions for infection after seeding resulted in uniform infection with about 100% disease incidence in susceptible entries (100% rosetting in the line 'Rosette' (CI17931) and VS infection in 'Michigan Amber' planted as spreader CK rows throughout the nursery) in the spring of 1984. First symptoms were observed first week of

Table 11. 1984 Winter Wheat Snow Mold Survival Readings (%), SRPN, Tetonia, Idaho.

C. I. or Cross No.	Name or Pedigree	Tetonia Yield Nursery 3 reps Rating	Rank
1442	Kharkof	.7	19-25
13996	Scout 66	1.0	11-13
17846	Manning	1.0	11-13
NE80413	Lovrin 13/2*Ctk 78	.3	32-37
OK80019	Payne/Amigo	.7	19-25
OK80268	Payne//TAM W-101/Amigo	.5	26-31
OK81280	"	.5	26-31
OK81306	"	2.3	3-4
OK81322	"	1.5	6-7
OK81064	TAM W-101/Amigo	.8	14-18
OK81065	"	.5	26-31
KS82167	Pronto/Parker 76	.0	39-40
KS82163	"	.0	39-40
KS80336	Parker 76/CIMMYT-Scout	.5	26-31
NA80310	Bulk Selection	.3	32-37
NA80300	Bulk Selection	.8	14-18
NA81-459	Bulk Selection	.7	19-25
NA81-297	Bulk Selection	.7	19-25
NA81-28	Bulk Selection	1.7	5
NA81-362	Payne/HW76-1226	2.3	3-4
TX71A562-6-28	Sdy sib/Tmp//Ctk	.3	32-37
TXGH2875	TAM105*4/Amigo	.7	19-25
TX69A569-1-69	TAM 105 Reselection	1.3	8
TX80A5609	TAM W-103//Sh. Wheat/Sut	.3	32-37
TX80A6025	Sdy sib.Tcs//Ctk/3/Amigo	1.0	11-13
TX80GH2679	TAM 105*4/Amigo	1.2	9-10
TX80GH3006	Sdy sib/Tmp//Ctk*4/Amigo	.7	19-25
TX81V6610	TX71A1039-V1*3/Amigo	.7	19-25
TX81V6614	Same as above	.8	14-18
TX38949-2	Amigo/3/2*TX71A937, Sdy sib/Tcs//Ctk	3.0	1
RH830101	Winter Wheat Hybrid	.5	26-31
RH830201	"	.2	38
78DW14	Mexican Bulk Hybrid Selection	.3	32-37
Hp114	"	.8	14-18
W7742B	Caprock/B86//SC3212	.5	26-31
W7452B	Sturdy/B48//Sturdy	.5	26-31
W8460D	W558/TAM W-101	.3	32-37
XH140A	Winter Wheat Hybrid	.8	14-18
XH182	"	1.2	9-10
17860 check	Neeley	2.7	2
Average		.9	
F Ratio		2.87**	
LSD 5%		1.2	
C.V.		79.5%	

Table 12. Hessian fly reaction, Great Plains biotype, 1984 Southern Regional Performance Nursery. (Data from J. H. Hatchett, Manhattan, KS.)

Entry no.	G. P. Read Nov. 28		
1	S		
2	S		
3	S		
4	S		
5	S		
6	S		
7	S		
8	S		
9	S		
10	S		
11	S		
12	S		
13	S		
14	S		
15	S		
16	S		
17	S		
18	S		
19	S		
20	S		
21	S		
22	S		
23	S		
24	S		
25	S		
26	S		
27	S		
28	S		
29	S		
30	S		
31	S		
32	S		
33	S		
34	S		
35	R		
36	R		
37	H	18	13
38	S		
39	S		

1984
NORTHERN REGIONAL PERFORMANCE NURSERY

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Kharkof	1442	Check
2	Warrior	13190	"
3	Colt	NE78696	Nebraska
4**	Lovrin 13/2*Ctk 78	NE80413	"
5	Sage/SD75375	SD79613	So. Dak.
6	SD75375/OK7112481	SD791112	"
7	CO695625/Ctk	CO745775-4	"
8	Sage/Hand//Bennett	SD79560	"
9	Sage*2/Hand	SD791041	"
10	Sage/Hand//Bennett	SD791058	"
11*	CI15322//Agent/4*Sut/3/Ctk/4/SD75375	SD82163	"
12*	Amigo/2*Ctk 78//Rose	SD82119	"
13*	Sage*2/Hand	SD79391	"
14	Pau 45/Cheyenne	WT166	Lethbridge
15	Froid/Wnk//MT6	MT7811	Montana
16	NE70137/TX65A1503	MT7877	"
17	Redwin Selection	MT8003	"
18***	Winridge	17902	"
19*	Winter Wheat Hybrid	RH830201	R-H
20*	"	RH830301	"
21	YTO-117/Trader	ND7687	No. Dak.
22*	Winter Wheat Hybrid	XH170A	HybriTech
23*	"	XH172	"
24*	"	XNH1150	"
25*	"	XNH1246	"
26*	"	XNH1247	"
27**	(Warrior*5/Agent)*2/Kavkaz	NE78668	Nebraska

* New entry in 1984
** Entered from SRPN
*** Entered from Western Regional Nursery

Test Site Information - NRPN

Clovis, NM -- See information for SRPN.

Nebraska Stations -- See information for SRPN.

South Dakota Stations -- See information for SRPN.

Casselton, ND -- There was a large supply of moisture stored prior to fall. The nursery was planted into standing flax which aided in catching snow. Little winterkill resulted despite extremely low December air temperatures. Relatively cool temperatures and rains in June provided ideal conditions prior to heading and grain fill.

Williston, ND -- Very little fall precipitation. Nursery was planted on fallow with sufficient stored soil moisture for germination and emergence. Fall stand establishment was excellent. December was very cold with a record setting -50 degree temperature recorded. Remaining winter months were mild and dry with very little snow cover. Precipitation was much below normal and temperatures were slightly warmer than normal from April through July. No disease or insect problems were evident.

Hettinger, ND -- Nursery was seeded the second week of September on summer fallowed land. No winterkill was observed.

St. Paul, MN -- Good moisture, snow cover, and little winterkill. Heavy mildew, tanspot, and leaf rust infections, caused by wet weather in early June, and lodging probably all reduced yields.

Waseca, MN -- Good growing conditions in early spring. Very heavy rainfall occurred in early June. Moderate temperatures throughout.

Sheridan, WY -- Fall weather was very dry and warm at seeding time. Poor seedbed at planting hindered emergence and seedling establishment. Winter weather was extremely cold with some snow cover and below-average precipitation. Spring growing conditions were cool with adequate precipitation from late April snow storm. Subsoil moisture was still below normal. Hot and dry conditions prevailed through the remainder of the growing season. No significant insect or disease problems were noted.

Archer, WY -- Abandoned due to winterkill, insect damage, and hail.

Moccasin, MT -- Planted 9-14-83. No winterkill was observed in the nursery. Soil moisture was adequate until early July. Severe drought stress began the second week in July. Lower test weights resulted. Leaf spotting appeared to reduce yields of some entries. Spotting was probably due to tan spot although other pathogens and physiological spotting may have been present.

Sidney, MT -- Abandoned due to drought and winterkill.

Aberdeen, ID -- Conditions not reported.

Tetonia, ID -- Nursery was not harvested.

Lind, WA -- See information for SRPN.

Lethbridge, Alberta -- Very dry year with no significant rain during growing season. Thin stands due to dry seedbed. Slight damage by wheat stem sawfly.

Table 13. Yield and agronomic data for entries in the 1984 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
TAMEX	29	4970	71.3	91	130
RH830301	20	4963	70.9	89	127
RH830201	19	4889	71.2	85	128
XNH1247	26	4843	71.2	97	131
XH172	23	4727	72.1	86	133
XH170A	22	4692	74.4	86	132
XNH1150	24	4595	72.7	97	133
CAPITAN	28	4583	71.7	100	130
SD82163	11	4555	72.6	94	131
WT166	14	4536	69.6	96	133
NE80413	4	4529	75.1	93	132
PI476975	3	4477	70.4	85	130
SD791058	10	4372	71.3	100	130
SD791112	6	4213	71.3	95	132
SD79560	8	4167	72.2	94	129
NE78668	27	4154	68.4	97	131
XNH1246	25	4112	73.5	102	132
SD79391	13	4110	69.4	88	131
CI13190	2	4093	72	101	132
MT8003	17	4051	69	100	134
MT7877	16	3966	68.8	75	135
ND7687	21	3946	70.2	109	135
CO745775-4	7	3902	72.1	99	134
CI17902	18	3893	67.2	97	135
SD82119	12	3769	73.7	97	132
TAM-105	30	3728	71	78	126
SD79613	5	3612	72.2	103	134
MT7811	15	3609	69.8	99	134
SD791041	9	3416	70	91	131
CI1442	1	3201	70.2	114	134
MEAN		4222			
LSD(.05)		858			
C.V.		12.4			

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
XH172	23	2787	71.8	60	127
XNH1246	25	2774	72.1	65	129
CI17902	18	2763	70.1	59	132
MT8003	17	2696	70	65	130
XNH1247	26	2575	72	62	129
WT166	14	2441	69.8	64	130
SD82119	12	2435	73.6	66	127
RH830301	20	2434	71.3	64	125
XNH1150	24	2414	72	65	128
XH170A	22	2269	70.4	58	129
ND7687	21	2223	69.7	76	133
TAM-105	30	2180	71.3	53	126
CO745775-4	7	2144	70.7	66	131
RH830201	19	2131	72.4	60	126
MT7811	15	2119	70.4	65	131
TAMEX	29	2117	73	61	127
NE78668	27	2091	70.8	63	127
CI13190	2	2067	70.4	62	130
NE80413	4	1943	71.3	65	128
SD791041	9	1897	70.8	56	128
SD82163	11	1857	72.9	54	128
SD791112	6	1852	71	58	128
CI1442	1	1743	70.1	85	134
SD79391	13	1690	71.1	54	128
SD79560	8	1674	72.9	58	126
SD79613	5	1525	72.1	60	131
MT7877	16	1454	71.8	57	131
SD791058	10	1400	72.8	61	127
PI476975	3	1245	69.4	50	127
CAPITAN	28	1158	69.6	58	127
MEAN		2070			
LSD(.05)		775			
C.V.		22.9			

NORTH

PLATTE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	CEPHALOSP STRIPE 1-5
SD791112	6	3311	73.9	2
SD79391	13	3256	76.1	1
RH830201	19	2895	76	4
SD79560	8	2567	75.5	4
XNH1246	25	2560	77	3
PI476975	3	2451	75.1	3
NE78668	27	2404	71.7	4
RH830301	20	2383	76.1	4
SD791041	9	2378	76.1	1
MT7811	15	2377	74.9	2
NE80413	4	2356	71.6	2
SD82163	11	2294	72.2	3
SD791058	10	2281	75.1	4
XH170A	22	2253	75.7	2
XNH1247	26	2128	73.3	2
SD79613	5	2092	68.6	3
XNH1150	24	2021	74.8	2
WT166	14	1928	73.5	4
CI17902	18	1884	73.9	1
CO745775-4	7	1850	73.8	3
XH172	23	1846	69.9	2
CI1442	1	1767	72.2	1
CI13190	2	1690	74.8	2
SD82119	12	1654	71.1	4
ND7687	21	1606	77.4	1
MT7877	16	1154	67	2
MT8003	17	854	74.8	2
MEAN		2157		
LSD(.05)		1037		
C.V.		29.4		

SIDNEY

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1:	WINTER SURVIVAL %
PI476975	3	4346	78.8	76	164	87
XNH1246	25	4314	80	102	167	77
XH170A	22	4009	78.7	81	166	77
CI13190	2	3972	79.7	97	166	80
NE78668	27	3935	78.7	91	166	77
SD82163	11	3912	81	91	164	90
RH830201	19	3885	78.8	84	164	73
XNH1247	26	3844	78.7	84	166	77
SD79560	8	3700	80	91	163	80
XH172	23	3693	77.7	81	165	83
XNH1150	24	3687	79.9	102	165	80
SD791058	10	3605	80.8	86	165	77
SD791041	9	3500	80	81	165	80
MT7811	15	3492	80	91	167	83
SD82119	12	3483	80	91	165	80
NE80413	4	3444	80	89	167	73
SD79613	5	3402	78.7	89	166	70
WT166	14	3402	79.6	91	166	80
CI17902	18	3274	76.1	91	171	73
RH830301	20	3219	78.9	84	165	67
MT8003	17	3205	79.3	91	171	73
CI1442	1	3170	78.9	97	167	87
ND7687	21	3148	79.1	102	169	87
CO745775-4	7	3055	77.1	94	171	67
SD791112	6	2887	80.1	89	168	73
SD79391	13	2874	80	76	165	77
MT7877	16	2755	77.5	61	170	80
MEAN		3526				
LSD(.05)		871				
C.V.		15.1				

ALLIANCE

NEBRASKA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	WINTER SURVIVAL %
XNH1246	25	4618	80.5	90	90
MT8003	17	4497	80.5	90	83
XH170A	22	4326	79.3	75	87
SD82119	12	4306	81.7	81	87
MT7811	15	4297	80.2	84	80
NE80413	4	4282	81	74	77
CO745775-4	7	4243	80.2	81	73
SD79613	5	4199	80.6	83	60
SD791041	9	4170	80.5	74	87
XNH1247	26	4109	79.5	87	87
NE78668	27	4107	80.5	80	73
CI17902	18	4096	81.3	84	90
ND7687	21	4051	82	96	97
SD791058	10	4046	80.8	82	50
SD79391	13	3970	81.8	78	83
PI476975	3	3968	80.9	75	67
SD82163	11	3844	80.8	74	63
RH830201	19	3829	79.6	80	77
SD791112	6	3827	81.7	84	77
XH172	23	3793	79.2	70	83
XNH1150	24	3770	80.2	85	77
CI13190	2	3759	81.4	89	93
MT7877	16	3665	81	69	90
WT166	14	3589	79.6	84	73
CI1442	1	3584	81.7	99	87
SD79560	8	3268	81.1	79	77
RH830301	20	3123	79.6	75	77
MEAN		3977			
LSD(.05)		N.S.			
C.V.		12.1			

BROOKINGS

S. DAKOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LEAF RUST SEV. %	RUST RESP 1-9
NE78668	27	3901	75.9	79	162	57		2
RH830201	19	3676	72.1	75	163	53		8
CO745775-4	7	3609	73.4	83	164	43		9
SD791058	10	3542	73.4	80	163	60		7
SD82119	12	3385	74.6	74	163	43		9
PI476975	3	3340	73.4	64	164	40		6
RH830301	20	3340	72.1	79	162	60		8
XNH1246	25	3206	72.1	86	163	63		9
MT7811	15	3026	68.2	80	163	43		2
NE80413	4	3004	68.2	77	163	47		2
SD79613	5	3004	70.8	80	164	30		4
SD79560	8	2825	73.4	73	164	40		5
SD791041	9	2825	75.9	71	164	30		5
SD79391	13	2780	77.2	75	165	30		5
SD791112	6	2757	69.5	81	163	47		7
XNH1247	26	2757	68.2	82	163	50		9
WT166	14	2668	68.2	89	165	67		9
XH172	23	2645	59.2	68	162	70		8
XNH1150	24	2600	61.8	80	162	60		9
ND7687	21	2533	75.9	92	166	47		9
SD82163	11	2376	66.9	73	164	30		5
XH170A	22	2354	59.2	69	163	53		5
CI13190	2	2219	64.4	86	164	50		9
CI1442	1	2107	68.2	94	165	40		7
CI17902	18	1883	54.1	88	166	50		9
MT7877	16	1793	69.5	65	165	47		8
MT8003	17	1524	61.8	86	165	43		9
MEAN		2803						
LSD(.05)		983						
C.V.		21.5						

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	WINTER SURVIVAL %
ND7687	21	5156	79.8	94	161	97
NE78668	27	4909	77.2	80	158	87
XNH1247	26	4752	75.9	78	160	80
SD79391	13	4573	78.5	74	159	70
SD79613	5	4551	73.4	82	160	43
SD791041	9	4528	77.2	76	160	67
CO745775-4	7	4483	74.6	86	160	77
SD82119	12	4461	79.8	78	159	70
CI1442	1	4439	77.2	98	161	97
PI476975	3	4371	77.2	67	159	62
XNH1246	25	4125	72.1	86	160	70
SD791112	6	4035	74.6	80	159	53
CI13190	2	3923	77.2	88	160	60
SD79560	8	3856	77.2	78	159	60
SD791058	10	3833	74.6	77	160	60
RH830301	20	3542	77.2	80	158	70
WT166	14	3497	74.6	86	160	67
MT7877	16	3497	75.9	62	160	70
RH830201	19	3228	75.9	73	158	43
XH170A	22	3161	70.8	69	160	40
NE80413	4	3138	65.6	78	160	38
SD82163	11	3004	73.4	77	160	27
MT8003	17	2914	72.1	85	160	77
MT7811	15	2712	68.2	78	160	27
XNH1150	24	2690	64.4	80	160	43
XH172	23	2645	65.6	67	160	40
CI17902	18	2421	68.2	87	161	67
MEAN		3794				
LSD(.05)		786				
C.V.		12.7				

PRESHO

S. DAKOTA

THREE REPLICATIONS

C.T. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %
ND7687	21	4573	78.5	94	163	90
CI17902	18	3878	75.9	89	161	90
MT8003	17	3542	77.2	77	161	90
CO745775-4	7	3497	77.2	81	161	90
CI1442	1	3475	77.2	96	162	90
SD82119	12	3183	78.5	71	158	90
MT7877	16	3161	75.9	61	161	90
NE78668	27	3094	77.2	69	159	90
CI13190	2	2892	77.2	70	160	90
WT166	14	2825	74.6	75	161	90
XNH1247	26	2712	75.9	69	160	87
NE80413	4	2690	74.6	80	161	85
MT7811	15	2645	77.2	68	161	87
XH170A	22	2645	77.2	58	160	90
SD791112	6	2600	75.9	66	159	90
PI476975	3	2466	73.4	61	160	90
SD791058	10	2443	77.2	70	160	90
SD79613	5	2376	77.2	76	161	90
SD82163	11	2309	88.8	63	160	87
SD79560	8	2152	77.2	68	158	90
XNH1246	25	2062	75.9	65	160	90
RH830301	20	2040	75.9	70	157	90
RH830201	19	2018	75.9	59	158	90
XNH1150	24	1950	74.6	74	160	90
SD791041	9	1861	75.9	68	159	90
XH172	23	1524	73.4	56	160	90
SD79391	13	1345	73.4	68	160	90
MEAN		2665				
LSD(.05)		780				
C.V.		17.9				

CASSELTON

N. DAKOTA

THREE REPLICATIONS

C.T. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LODGING 0-5
MT7811	15	6949	83.7	102	163	93	1
NE80413	4	6606	84.2	96	163	72	1
SD82163	11	6113	82.4	97	163	98	2
NE78668	27	5994	82.6	105	162	98	2
XNH1246	25	5974	81.5	107	164	98	1
RH830201	19	5952	82	98	159	95	2
SD82119	12	5817	82.2	103	164	95	3
SD79391	13	5575	82.9	95	162	88	3
CI17902	18	5409	79.3	114	167	98	0
XH170A	22	5346	79	89	163	93	0
XNH1150	24	5279	80.1	106	164	98	0
CO745775-4	7	5219	82.2	104	165	98	3
RH830301	20	5194	82.5	103	159	90	1
WT166	14	5142	80.8	108	165	80	0
PI476975	3	5075	81.2	90	161	80	1
MT8003	17	4961	82.4	109	165	98	0
XNH1247	26	4914	75.8	100	162	95	4
SD79560	8	4802	83	95	161	95	3
SD791058	10	4719	83	93	162	100	3
SD79613	5	4651	80.1	97	164	93	4
CI13190	2	4598	80.1	100	164	90	4
SD791112	6	4573	81.2	103	163	97	3
SD791041	9	4481	82.4	90	162	93	3
XH172	23	4248	79.2	90	163	90	0
ND7687	21	4044	81.2	110	167	93	4
MT7877	16	3327	73.9	83	166	97	1
CI1442	1	2719	79	113	166	100	5
MEAN		5099					
LSD(.05)		805					
C.V.		9.7					

WILLISTON

N. DAKOTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LEAF SPOT 0-9
NORSTAR	28	1933	78	84	166	90	6
ND7687	21	1618	78	79	165	75	6
ROUGHRIDER	29	1562	78.1	71	162	65	6
ND8002	30	1414	78	70	164	50	6
CI13190	2	1075	78.6	68	160	41	6
MT7877	16	958	80.5	55	165	43	5
NE78668	27	877	78.2	71	159	18	6
SD79560	8	872	78.7	62	158	19	8
SD791041	9	753	79.4	56	160	47	7
C0745775-4	7	729	75.9	72	162	10	7
WSW83101	32	717	74.3	75	166	19	5
XH170A	22	672	78.5	65	159	15	7
MT8003	17	666	77.3	67	166	19	5
XNH1246	25	610	76.6	71	162	10	5
XNH1247	26	582	77.1	66	159	17	7
CI17902	18	571	76.5	68	166	9	6
RH830301	20	478	78.7	64	157	8	8
SD79391	13	469	75.2	70	162	12	7
SD791058	10	413	77	61	162	9	7
SD791112	6	372	74.2	70	160	5	8
RH830201	19	365	78.4	59	158	8	7
XH172	23	363	76.6	62	162	6	6
PI476975	3	361	76.1	55	158	11	7
SD82119	12	350	77.8	65	159	6	7
NE80413	4	347	.	64	158	4	8
CI1442	1	316	73.5	76	166	4	6
WT166	14	310	74.9	64	163	5	5
SD82163	11	301	.	59	164	1	.
WSW83102	31	276	74.2	69	164	7	6
XNH1150	24	183	73.2	67	164	1	6
SD79613	5	132	.	64	166	0	.
MT7811	15	97	.	69	164	1	.
MEAN		706					
LSD(.05)		480					
C.V.		48.1					

HETTINGER

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
SD791112	6	3486	80.2	91	168
PI476975	3	3484	78.5	68	162
SD791058	10	3484	79	87	169
CI13190	2	3450	77.9	91	169
NE80413	4	3363	77.3	91	168
SD79613	5	3297	78.1	90	168
XNH1247	26	3237	74.6	85	168
RH830201	19	3152	78.8	75	163
CO745775-4	7	3141	77	94	170
CI17902	18	3094	76.1	80	171
XH170A	22	3091	76.7	72	166
SD79560	8	3078	80.7	89	167
WT166	14	3062	78.4	88	169
RH830301	20	2955	78.9	80	167
XH172	23	2925	76.1	73	167
MT7877	16	2894	79.5	65	172
MT8003	17	2876	77.1	92	170
SD791041	9	2874	80.8	81	166
SD82119	12	2820	80.2	82	167
MT7811	15	2798	77.5	86	170
XNH1246	25	2791	76.7	95	169
SD79391	13	2721	80.3	83	169
NE78668	27	2715	79.4	88	166
XNH1150	24	2668	76.3	84	168
CI1442	1	2663	78	103	170
SD82163	11	2621	79.2	86	168
ND7687	21	2257	76.4	99	171
MEAN		3000			
LSD(.05)		N.S.			
C.V.		15.3			

ST. PAUL

MINNESOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	LODGING 0-9	DAYS TO HEADING FROM 1/1	WINTER SURVIVAL %	LEAF RUST SEV. %	LEAF RUST RESP. 1-9	LEAF SPOT 0-9	POWDERY MILDEW 0-9
XH170A	22	3748	75.3	5	160	100	80	8	6	6
PI476975	3	3596	75.3	4	159	100	40	8	5	4
RH830201	19	3575	74.6	3	157	92	70	8	6	8
NE78668	27	3376	76.6	5	159	97	1	2	4	1
XNH1247	26	3311	75.3	6	159	100	80	8	4	7
NE80413	4	3165	77.2	8	158	100	1	2	5	2
RH830301	20	2968	74.6	4	157	78	99	8	7	8
XH172	23	2773	70.1	7	161	100	90	8	6	8
XNH1246	25	2694	76.6	5	159	100	80	8	5	7
XNH1150	24	2652	76.6	2	161	100	90	8	6	8
SD791058	10	2614	76.6	6	160	100	90	8	6	7
WT166	14	2585	75.9	6	163	100	60	8	6	8
SD79391	13	2580	77.9	7	158	100	70	8	6	7
SD82119	12	2553	77.9	7	159	100	80	8	6	7
MT7811	15	2515	76.6	5	161	100	70	8	5	8
CI17902	18	2455	72.1	2	167	100	60	8	5	7
SD79613	5	2430	77.2	7	160	98	80	8	6	7
MT8003	17	2345	77.2	2	163	100	90	8	6	8
SD79560	8	2340	77.2	7	158	100	20	7	6	6
SD82163	11	2325	74	8	160	100	20	5	7	7
ND7687	21	2226	76.6	5	164	100	90	8	5	5
SD791041	9	2094	77.2	7	158	98	1	7	7	6
CI13190	2	2022	76.6	6	161	100	80	8	5	7
CI1442	1	2013	76.6	8	163	93	60	8	6	4
CO745775-4	7	1935	74.6	7	163	98	10	7	5	7
SD791112	6	1834	77.2	7	159	100	50	8	7	7
MT7877	16	1356	66.3	9	165	97	30	8	8	2
MEAN		2596								
LSD(.05)		632								
C.V.		14.9								

WASECA

MINNESOTA

THREE REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING 0-9	WINTER SURVIVAL %	LEAF SEV. %	RUST RESP 1-9
NE80413	4	6665	77.4	112	159	3	97	1	7
NE78668	27	6351	76.3	115	159	2	95	1	3
SD79613	5	6144	75	114	160	3	95	50	8
MT7811	15	5967	73.7	114	161	4	96	90	8
CI17902	18	5813	66.9	116	164	3	92	90	8
PI476975	3	5661	75.4	84	157	2	95	40	7
XNH1246	25	5514	73.7	112	160	3	96	90	8
WT166	14	5504	77	114	161	4	94	90	8
SD82163	11	5489	77.3	109	159	4	95	80	8
SD82119	12	5489	73.6	108	158	3	96	80	8
XNH1247	26	5379	75.9	106	159	3	96	80	8
SD791041	9	5309	76.4	106	158	3	94	80	8
CO745775-4	7	5300	76.3	107	159	4	95	70	8
XH170A	22	5255	75	90	159	2	96	90	8
SD791112	6	5164	76.5	105	159	5	96	70	8
RH830201	19	5128	76.9	110	157	4	97	90	8
SD79391	13	5101	74.8	107	158	5	95	80	8
XNH1150	24	5094	74.6	112	159	3	96	90	8
CI13190	2	5035	76.6	114	160	3	97	60	8
ND7687	21	4955	75.1	113	163	3	97	90	8
SD791058	10	4732	77.6	111	159	3	96	70	8
XH172	23	4698	74	89	160	3	96	90	8
MT8003	17	4562	74.4	115	161	4	96	90	8
SD79560	8	4501	77.6	112	157	3	96	1	3
RH830301	20	4254	76.8	112	157	3	94	90	8
MT7877	16	3596	71.7	74	163	4	93	90	8
CI1442	1	3564	72.5	110	163	5	95	70	8

MEAN	5193
LSD(.05)	801
C.V.	9.4

SHERIDAN

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
XNH1247	26	2587	79.3	86	162
CI17902	18	2526	77.8	83	166
XH170A	22	2505	79.9	73	164
XNH1246	25	2489	79.6	88	163
XH172	23	2418	79.6	76	163
SD82163	11	2277	80.5	78	164
MT7811	15	2223	81.7	70	161
MT8003	17	2196	80.2	82	167
SD791112	6	2128	80.5	81	164
PI476975	3	2126	80.2	68	162
SD82119	12	2120	80.2	82	161
NE78668	27	2067	79.3	92	160
CI13190	2	2054	79.3	89	165
RH830301	20	2042	80.2	78	158
NE80413	4	2039	79.9	84	165
CO745775-4	7	2032	79.6	81	164
SD79613	5	1975	80.2	77	165
MT7877	16	1965	81.1	66	165
RH830201	19	1952	80.2	79	159
SD79391	13	1948	80.4	75	161
SD791058	10	1927	80.5	83	162
XNH1150	24	1907	79.9	90	158
SD791041	9	1812	79.9	76	161
WT166	14	1783	79.9	76	165
ND7687	21	1716	80.5	91	166
SD79560	8	1627	80.2	75	159
CI1442	1	1575	79.9	93	165
MEAN		2071			
LSD(.05)		424			
C.V.		12.5			

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	LEAF SPOT 0-9
XH170A	22	3055	75.3	68	167	1
SD82163	11	2822	76.7	74	166	1
MT8003	17	2730	74.5	81	168	3
XNH1150	24	2715	75.7	72	168	3
XNH1247	26	2715	74.3	75	166	1
XH172	23	2677	74.9	69	167	3
XNH1246	25	2571	74.6	81	167	1
WT166	14	2553	74.6	84	168	3
MT7811	15	2538	75.3	84	167	2
CO745775-4	7	2490	75.4	70	168	2
SD791112	6	2461	75.3	75	167	1
CI13190	2	2387	75.2	74	167	1
SD79613	5	2372	73.6	73	167	1
CI17902	18	2208	74.3	80	170	7
SD82119	12	2186	70.9	75	167	4
MT7877	16	2168	74.3	62	168	2
NE80413	4	2107	74.1	75	168	1
CI1442	1	2044	74.1	85	168	1
PI476975	3	2018	74.8	63	165	2
NE78668	27	1843	68.1	78	165	1
ND7687	21	1822	74.6	90	169	1
SD791058	10	1726	73.6	73	166	2
RH830301	20	1228	74.1	75	160	2
SD79391	13	1116	71.6	63	166	8
SD79560	8	1018	74.1	77	163	6
RH830201	19	984	71.8	74	159	5
SD791041	9	502	.	62	166	8
MEAN		2113				
LSD(.05)		609				
C.V.		17.7				

ABERDEEN

IDAHO

TWO REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	VOLUME WEIGHT KG/HL	PLANT HEIGHT CM	LODGING %	DAYS TO HEADING FROM 1/1	STRIPE RUST SEV. %	STRIPE RUST RESP 0-9
CI17902	18	5397	75	98	3	175	30	6
XH170A	22	4997	74.6	81	1	169	60	7
XNH1246	25	4970	74.6	98	3	171	60	7
XNH1150	24	4640	75	93	1	170	8	9
NE78668	27	4526	75.3	93	3	171	50	5
MT7811	15	4499	72.1	85	3	173	50	6
SD82163	11	4341	75.5	94	3	170	20	5
WT166	14	4096	72.5	94	2	172	90	9
RH830201	19	4015	73	86	2	166	90	9
SD79560	8	3985	75.5	91	3	166	99	9
SD82119	12	3985	74.4	98	4	170	90	7
MT7877	16	3927	74.6	71	2	174	10	4
SD791058	10	3914	74.4	99	3	171	90	9
SD79613	5	3877	75.5	93	3	170	20	4
MT8003	17	3850	73.1	98	1	174	99	9
SD79391	13	3682	74.6	81	4	171	90	9
XH172	23	3447	72.7	81	1	170	60	7
NE80413	4	3440	74.6	89	3	170	10	4
RH830301	20	3299	74.4	80	3	168	99	9
SD791041	9	2942	74.6	80	2	170	90	9
CI1442	1	2888	74.4	109	6	177	40	5
ND7687	21	2851	73.7	113	5	175	80	9
XNH1247	26	2791	69.9	94	3	171	90	9
SD791112	6	2663	75.3	89	3	169	10	4
CI13190	2	2545	72.1	112	6	171	90	7
CO745775-4	7	2505	72.1	100	3	174	99	9
PI476975	3	2475	73.1	79	1	166	90	9
MEAN		3724						
LSD(.05)		1063						
C.V.		17.5						

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	STRIPE RUST SEV. %	STRIPE RUST RESP 0-9
RH830201	19	3255	80.2	92	164	5	5
XH172	23	3176	80.7	85	158	60	8
XNH1247	26	3046	80.8	99	159	43	8
NE78668	27	2842	80.4	85	159	72	8
XNH1246	25	2827	81.3	97	158	60	8
WESTON	29	2818	81.7	89	159	18	6
SD82163	11	2798	82	84	156	28	6
XNH1150	24	2739	81.5	85	158	60	7
MT7877	16	2719	81.2	89	160	20	6
SD82119	12	2701	81.5	87	155	30	6
NE80413	4	2681	82.6	85	157	13	4
SD791058	10	2641	82.4	86	155	63	7
HATTON	28	2623	80.8	92	159	40	6
CI17902	18	2596	81.2	93	160	70	8
MT8003	17	2582	81.6	70	162	17	6
CI13190	2	2520	80.4	84	156	27	6
SD79391	13	2493	81.5	79	156	23	6
SD791112	6	2443	82.2	87	158	37	6
CI1442	1	2421	80.3	109	160	15	6
WI166	14	2405	80.7	91	160	53	7
SD79613	5	2365	81.5	82	158	33	6
RH830301	20	2356	81.2	80	155	88	8
CO745775-4	7	2295	80.7	90	161	96	8
ND7687	21	2269	81.1	81	155	93	8
XH170A	22	2262	80.7	100	162	57	8
PI476975	3	2228	81.2	73	156	67	8
SD79560	8	2161	82	80	153	90	8
SD791041	9	1903	81.3	80	156	72	8
MT7811	15	.	.	.	.	.	.
MEAN		2572					
LSD(.05)		518					
C.V.		12.3					

LETHBRIDGE

ALBERTA

FOUR REPLICATIONS

C.I. OR SEL. NO.	ENTRY NO.	YIELD KG/HA	WINTER SURVIVAL %
XNH1246	25	2591	65
SD82163	11	2443	60
XNH1247	26	2365	70
CO745775-4	7	2361	60
SD82119	12	2351	55
XH170A	22	2260	55
SD79613	5	2227	60
ND7687	21	2180	60
XH172	23	2180	45
MT8003	17	2157	60
XNH1150	24	2146	50
WT166	14	2138	55
REDWIN	30	2123	55
SD791112	6	2098	55
NE78668	27	2077	60
WINALTA	29	2039	50
NORSTAR	28	1992	60
SD791058	10	1942	55
CI17902	18	1939	60
SD79391	13	1914	55
RH830301	20	1905	70
MT7811	15	1897	60
MT7877	16	1877	40
CI13190	2	1859	55
CI1442	1	1779	55
NE80413	4	1772	40
SD791041	9	1729	55
PI476975	3	1723	40
SD79560	8	1598	70
RH830201	19	1564	50
MEAN		2041	
LSD(.05)		461	
C.V.		16.0	

Table 14. Summary of mean yields (kg/ha) of 27 wheats grown in the 1984 Northern Regional Performance Nursery at 18 locations, with state means and ranks. (Williston Nursery was not included in state or regional averages.)

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN	
(WARRIOR*5/AGENT)*2/KAVKAZ	NE78668	27	2404	7	3935	5	4107	11	3482	5
WINTER WHEAT HYBRID	XNH1246	25	2560	5	4314	2	4618	1	3831	1
WINTER WHEAT HYBRID	XH170A	22	2253	14	4009	3	4326	3	3529	4
WINTER WHEAT HYBRID	XNH1247	26	2128	15	3844	8	4109	10	3360	8
LOVRIN 13/2*CTK78	NE80413	4	2356	11	3444	16	4282	6	3360	9
FROID/WNK//MT6	MT7811	15	2377	10	3492	14	4297	5	3389	6
AMIGO/2*CTK78//ROSE	SD82119	12	1654	24	3483	15	4306	4	3148	17
WINTER WHEAT HYBRID	RH830201	19	2895	3	3885	7	3829	18	3536	3
WINRIDGE	CI17902	18	1884	19	3274	19	4096	12	3085	20
CI15322//AGENT/4*SUT/3/CTK/4/SD75375	SD82163	11	2294	12	3912	6	3844	17	3350	10
COLT	PI476975	3	2451	6	4346	1	3968	16	3588	2
PAU 45/CHEYENNE	WT166	14	1928	18	3402	18	3589	24	2973	22
SAGE/SD75375	SD79613	5	2092	16	3402	18	4199	8	3231	14
CO695625/CTK	CO745775-4	7	1850	20	3055	24	4243	7	3049	21
WINTER WHEAT HYBRID	XNH1150	24	2021	17	3687	11	3770	21	3159	16
SAGE/HAND//BENNETT	SD791058	10	2281	13	3605	12	4046	14	3311	13
SD75375/OK7112481	SD791112	6	3311	1	2887	25	3827	19	3342	12
WINTER WHEAT HYBRID	XH172	23	1846	21	3693	10	3793	20	3110	19
SAGE*2/HAND	SD79391	13	3256	2	2874	26	3970	15	3367	7
YTO-117/TRADER	ND7687	21	1606	25	3148	23	4051	13	2935	23
REDWIN SELECTION	MT8003	17	854	27	3205	21	4497	2	2852	25
WINTER WHEAT HYBRID	RH830301	20	2383	8	3219	20	3123	27	2908	24
WARRIOR	CI13190	2	1690	23	3972	4	3759	22	3140	18
SAGE/HAND//BENNETT	SD79560	8	2567	4	3700	9	3268	26	3178	15
SAGE*2/HAND	SD791041	9	2378	9	3500	13	4170	9	3349	11
NE70137/TX65A1503	MT7877	16	1154	26	2755	27	3665	23	2525	27
KHARKOF	CI1442	1	1767	22	3170	22	3584	25	2841	26
	MEAN		2157		3526		3977		3220	
	LSD(.05)		1037		871		N.S.		N.S.	
	C.V.		29.4		15.1		12.1		17.2	

Table 14. (continued)

C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN		WASECA MINNESOTA		ST. PAUL MINNESOTA		MINNESOTA STATE MEAN	
NE78668	27	3901	1	4909	2	3094	8	3968	2	6351	2	3376	4	4864	2
XNH1246	25	3206	8	4125	11	2062	21	3131	11	5514	7	2694	9	4104	10
XH170A	22	2354	22	3161	20	2645	14	2720	23	5255	14	3748	1	4501	4
XNH1247	26	2757	16	4752	3	2712	11	3407	5	5379	11	3311	5	4345	6
NE80413	4	3004	11	3138	21	2690	12	2944	18	6665	1	3165	6	4915	1
MT7811	15	3026	9	2712	24	2645	14	2795	21	5967	4	2515	15	4241	8
SD82119	12	3385	5	4461	8	3183	6	3676	4	5489	10	2553	14	4021	12
RH830201	19	3676	2	3228	19	2018	23	2974	16	5128	16	3575	3	4352	5
CI17902	18	1883	25	2421	27	3878	2	2727	22	5813	5	2455	16	4134	9
SD82163	11	2376	21	3004	22	2309	19	2563	25	5489	10	2325	20	3907	13
PI476975	3	3340	7	4371	10	2466	16	3392	6	5661	6	3596	2	4628	3
WT166	14	2668	17	3497	18	2825	10	2996	14	5504	8	2585	12	4044	11
SD79613	5	3004	11	4551	5	2376	18	3310	8	6144	3	2430	17	4287	7
C0745775-4	7	3609	3	4483	7	3497	4	3863	3	5300	13	1935	25	3618	19
XNH1150	24	2600	19	2690	25	1950	24	2414	26	5094	18	2652	10	3873	14
SD791058	10	3542	4	3833	15	2443	17	3273	9	4732	21	2614	11	3673	18
SD791112	6	2757	16	4035	12	2600	15	3131	11	5164	15	1834	26	3499	23
XH172	23	2645	18	2645	26	1524	26	2272	27	4698	22	2773	8	3735	16
SD79391	13	2780	14	4573	4	1345	27	2899	19	5101	17	2580	13	3840	15
ND7687	21	2533	20	5156	1	4573	1	4087	1	4955	20	2226	21	3590	21
MT8003	17	1524	27	2914	23	3542	3	2660	24	4562	23	2345	18	3453	24
RH830301	20	3340	7	3542	16	2040	22	2974	16	4254	25	2968	7	3611	20
CI13190	2	2219	23	3923	13	2892	9	3011	13	5035	19	2022	23	3529	22
SD79560	8	2825	13	3856	14	2152	20	2944	18	4501	24	2340	19	3420	25
SD791041	9	2825	13	4528	6	1861	25	3071	12	5309	12	2094	22	3701	17
MT7877	16	1793	26	3497	18	3161	7	2817	20	3596	26	1356	27	2476	27
CI1442	1	2107	24	4439	9	3475	5	3340	7	3564	27	2013	24	2788	26
MEAN		2803		3794		2665		3087		5193		2596		3895	
LSD(.05)		983		786		780		N.S.		801		632		1014	
C.V.		21.5		12.7		17.9		17.0		9.4		14.9		11.3	

Table 14. (continued)

C.I. OR SEL. NO.	ENTRY NO.	CASSELTON N. DAKOTA		WILLISTON N. DAKOTA		HETTINGER N. DAKOTA		NORTH DAKOTA STATE MEAN		MOCCASIN MONTANA		SHERIDAN WYOMING	
NE78668	27	5994	4	877	4	2715	23	4354	6	1843	20	2067	12
XNH1246	25	5974	5	610	10	2791	21	4382	4	2571	7	2489	4
XH170A	22	5346	10	672	8	3091	11	4219	10	3055	1	2505	3
XNH1247	26	4914	17	582	11	3237	7	4075	15	2715	5	2587	1
NE80413	4	6606	2	347	21	3363	5	4984	1	2107	17	2039	15
MT7811	15	6949	1	97	27	2798	20	4873	2	2538	9	2223	7
SD82119	12	5817	7	350	20	2820	19	4319	7	2186	15	2120	11
RH830201	19	5952	6	365	17	3152	8	4552	3	984	26	1952	19
CI17902	18	5409	9	571	12	3094	10	4251	9	2208	14	2526	2
SD82163	11	6113	3	301	24	2621	26	4367	5	2822	2	2277	6
PI476975	3	5075	15	361	19	3484	3	4279	8	2018	19	2126	10
WT166	14	5142	14	310	23	3062	13	4102	13	2553	8	1783	24
SD79613	5	4651	20	132	26	3297	6	3974	19	2372	13	1975	17
CO745775-4	7	5219	12	729	7	3141	9	4180	11	2490	10	2032	16
XNH1150	24	5279	11	183	25	2668	24	3973	20	2715	5	1907	22
SD791058	10	4719	19	413	15	3484	3	4101	14	1726	22	1927	21
SD791112	6	4573	22	372	16	3486	1	4029	17	2461	11	2128	9
XH172	23	4248	24	363	18	2925	15	3587	24	2677	6	2418	5
SD79391	13	5575	8	469	14	2721	22	4148	12	1116	24	1948	20
ND7687	21	4044	25	1618	1	2257	27	3151	25	1822	21	1716	25
MT8003	17	4961	16	666	9	2876	17	3918	22	2730	3	2196	8
RH830301	20	5194	13	478	13	2955	14	4074	16	1228	23	2042	14
CI13190	2	4598	21	1075	2	3450	4	4024	18	2387	12	2054	13
SD79560	8	4802	18	872	5	3078	12	3940	21	1018	25	1627	26
SD791041	9	4481	23	753	6	2874	18	3677	23	502	27	1812	23
MT7877	16	3327	26	958	3	2894	16	3110	26	2168	16	1965	18
CI1442	1	2719	27	316	22	2663	25	2691	27	2044	18	1575	27
MEAN		5099		591		3000		4050		2113		2071	
LSD(.05)		805		518		N.S.		N.S.		609		424	
C.V.		9.7		62.0		15.3		11.8		17.7		12.5	

Table 14. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		NEW MEXICO STATE MEAN		ABERDEEN IDAHO		LIND WASHINGTON		LETHBRIDGE ALBERTA		REGIONAL AVERAGE
NE78668	27	4154	14	2091	15	3122	13	4526	5	2842	4	2077	14	3552
XNH1246	25	4112	15	2774	2	3443	8	4970	3	2827	5	2591	1	3541
XH170A	22	4692	5	2269	10	3481	7	4997	2	2262	23	2260	6	3425
XNH1247	26	4843	3	2575	5	3709	2	2791	23	3046	3	2365	3	3416
NE80413	4	4529	9	1943	17	3236	11	3440	18	2681	10	1772	23	3366
MT7811	15	3609	25	2119	14	2864	22	4499	6	.	.	1897	19	3354
SD82119	12	3769	23	2435	7	3102	14	3985	11	2701	9	2351	5	3335
RH830201	19	4889	2	2131	13	3510	4	4015	9	3255	1	1564	27	3302
CI17902	18	3893	22	2763	3	3328	10	5397	1	2596	12	1939	16	3266
SD82163	11	4555	7	1857	19	3206	12	4341	7	2798	6	2443	2	3258
PI476975	3	4477	10	1245	27	2861	23	2475	27	2228	24	1723	25	3238
WT166	14	4536	8	2441	6	3489	6	4096	8	2405	18	2138	12	3185
SD79613	5	3612	24	1525	24	2569	26	3877	14	2365	19	2227	7	3182
CO745775-4	7	3902	21	2144	12	3023	18	2505	26	2295	21	2361	4	3180
XNH1150	24	4595	6	2414	9	3504	5	4640	4	2739	7	2146	11	3151
SD791058	10	4372	11	1400	26	2886	21	3914	13	2641	11	1942	15	3131
SD791112	6	4213	12	1852	20	3033	17	2663	24	2443	16	2098	13	3078
XH172	23	4727	4	2787	1	3757	1	3447	17	3176	2	2180	9	3071
SD79391	13	4110	16	1690	22	2900	20	3682	16	2493	15	1914	17	3043
ND7687	21	3946	20	2223	11	3085	15	2851	22	2269	22	2180	9	3033
MT8003	17	4051	18	2696	4	3374	9	3850	15	2582	13	2157	10	3032
RH830301	20	4963	1	2434	8	3699	3	3299	19	2356	20	1905	18	3014
CI13190	2	4093	17	2067	16	3080	16	2545	25	2520	14	1859	21	3005
SD79560	8	4167	13	1674	23	2920	19	3985	11	2161	25	1598	26	2901
SD791041	9	3416	26	1897	18	2656	25	2942	20	1903	26	1729	24	2836
MT7877	16	3966	19	1454	25	2710	24	3927	12	2719	8	1877	20	2663
CI1442	1	3201	27	1743	21	2472	27	2888	21	2421	17	1779	22	2656
MEAN		4200		2097		3149		3724		2563		2041		3156
LSD(.05)		803		761		N.S.		1063		517		461		360
C.V.		11.7		22.2		15.2		17.5		12.3		16.0		15.0

Table 15. Summary of mean yields (kg/ha) and ranks of 27 wheats grown in the 1984 Northern Regional Performance Nursery at 10 central and northern locations from which a C.V. of 18 or less and a significant F test for entries were obtained.

C.I. OR SEL. NO.	ENTRY NO.	SIDNEY NEBRASKA		HIGHMORE S. DAKOTA		WASECA MINNESOTA		ST. PAUL MINNESOTA		CASSELTON N. DAKOTA	
XNH1246	25	4314	2	4125	11	5514	7	2694	9	5974	5
NE78668	27	3935	5	4909	2	6351	2	3376	4	5994	4
XH170A	22	4009	3	3161	20	5255	14	3748	1	5346	10
MT7811	15	3492	14	2712	24	5967	4	2515	15	6949	1
XNH1247	26	3844	8	4752	3	5379	11	3311	5	4914	17
SD82163	11	3912	6	3004	22	5489	10	2325	20	6113	3
SD82119	12	3483	15	4461	8	5489	10	2553	14	5817	7
NE80413	4	3444	16	3138	21	6665	1	3165	6	6606	2
CI17902	18	3274	19	2421	27	5813	5	2455	16	5409	9
SD79613	5	3402	18	4551	5	6144	3	2430	17	4651	20
PI476975	3	4346	1	4371	10	5661	6	3596	2	5075	15
XNH1150	24	3687	11	2690	25	5094	18	2652	10	5279	11
RH830201	19	3885	7	3228	19	5128	16	3575	3	5952	6
WT166	14	3402	18	3497	18	5504	8	2585	12	5142	14
XH172	23	3693	10	2645	26	4698	22	2773	8	4248	24
SD79391	13	2874	26	4573	4	5101	17	2580	13	5575	8
CO745775-4	7	3055	24	4483	7	5300	13	1935	25	5219	12
SD791058	10	3605	12	3833	15	4732	21	2614	11	4719	19
MT8003	17	3205	21	2914	23	4562	23	2345	18	4961	16
CI13190	2	3972	4	3923	13	5035	19	2022	23	4598	21
ND7687	21	3148	23	5156	1	4955	20	2226	21	4044	25
SD791112	6	2887	25	4035	12	5164	15	1834	26	4573	22
RH830301	20	3219	20	3542	16	4254	25	2968	7	5194	13
SD79560	8	3700	9	3856	14	4501	24	2340	19	4802	18
SD791041	9	3500	13	4528	6	5309	12	2094	22	4481	23
MT7877	16	2755	27	3497	18	3596	26	1356	27	3327	26
CI1442	1	3170	22	4439	9	3564	27	2013	24	2719	27
MEAN		3526		3794		5193		2596		5099	
LSD(.05)		871		786		801		632		805	
C.V.		15.1		12.7		9.4		14.9		9.7	

Table 15. (concluded)

C.T. OR SEL. NO.	ENTRY NO.	MOCCASIN MONTANA		SHERIDAN WYOMING		ABERDEEN IDAHO		LIND WASHINGTON		LETHBRIDGE ALBERTA		REGIONAL AVERAGE
XNH1246	25	2571	7	2489	4	4970	3	2827	5	2591	1	3807
NE78668	27	1843	20	2067	12	4526	5	2842	4	2077	14	3792
XH170A	22	3055	1	2505	3	4997	2	2262	23	2260	6	3660
MT7811	15	2538	9	2223	7	4499	6	.	.	1897	19	3644
XNH1247	26	2715	5	2587	1	2791	23	3046	3	2365	3	3570
SD82163	11	2822	2	2277	6	4341	7	2798	6	2443	2	3552
SD82119	12	2186	15	2120	11	3985	11	2701	9	2351	5	3515
NE80413	4	2107	17	2039	15	3440	18	2681	10	1772	23	3506
CI17902	18	2208	14	2526	2	5397	1	2596	12	1939	16	3404
SD79613	5	2372	13	1975	17	3877	14	2365	19	2227	7	3399
PI476975	3	2018	19	2126	10	2475	27	2228	24	1723	25	3362
XNH1150	24	2715	5	1907	22	4640	4	2739	7	2146	11	3355
RH830201	19	984	26	1952	19	4015	9	3255	1	1564	27	3354
WI166	14	2553	8	1783	24	4096	8	2405	18	2138	12	3311
XH172	23	2677	6	2418	5	3447	17	3176	2	2180	9	3195
SD79391	13	1116	24	1948	20	3682	16	2493	15	1914	17	3186
CO745775-4	7	2490	10	2032	16	2505	26	2295	21	2361	4	3168
SD791058	10	1726	22	1927	21	3914	13	2641	11	1942	15	3165
MT8003	17	2730	3	2196	8	3850	15	2582	13	2157	10	3150
CI13190	2	2387	12	2054	13	2545	25	2520	14	1859	21	3092
ND7687	21	1822	21	1716	25	2851	22	2269	22	2180	9	3037
SD791112	6	2461	11	2128	9	2663	24	2443	16	2098	13	3029
RH830301	20	1228	23	2042	14	3299	19	2356	20	1905	18	3001
SD79560	8	1018	25	1627	26	3985	11	2161	25	1598	26	2959
SD791041	9	502	27	1812	23	2942	20	1903	26	1729	24	2880
MT7877	16	2168	16	1965	18	3927	12	2719	8	1877	20	2719
CI1442	1	2044	18	1575	27	2888	21	2421	17	1779	22	2661
MEAN		2113		2071		3724		2563		2040		3277
LSD(.05)		609		424		1063		517		461		484
C.V.		17.7		12.5		17.5		12.3		16.0		13.4

Table 16. Summary of mean yields (kg/ha) for 13 wheats grown in the Northern Regional Performance Nursery at 15 sites in 1983 and 1984 with state means and ranks. (Clovis, NM irrigated and dryland nurseries not included in regional average; Williston, ND nursery not included in state mean or regional average.)

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	NORTH PLATTE NEBRASKA		ALLIANCE NEBRASKA		NEBRASKA STATE MEAN		SHERIDAN WYOMING		WASECA MINNESOTA	
SAGE/SD75375	SD79613	5	3113	3	4431	1	3772	1	2183	6	5600	1
C0695625/CTK	C0745775-4	7	2433	7	3882	3	3157	5	2221	5	5104	3
COLT	PI476975	3	3274	1	3740	5	3507	3	2234	4	5432	2
SD75375/OK7112481	SD791112	6	3108	4	3780	4	3444	4	2349	3	4906	5
PAU 45/CHEYENNE	WT166	14	2329	9	3723	6	3026	7	2181	7	5076	4
YTO-117/TRADER	ND7687	21	2361	8	3477	9	2919	9	2091	10	4801	7
SAGE/HAND//BENNETT	SD791058	10	2584	6	3447	10	3015	8	2128	8	4403	11
WARRIOR	CI13190	2	2184	10	3433	11	2808	11	2358	2	4786	8
REDWIN SELECTION	MT8003	17	2075	11	3677	7	2876	10	2406	1	4521	9
SAGE/HAND//BENNETT	SD79560	8	3243	2	4017	2	3630	2	1843	13	4426	10
SAGE*2/HAND	SD791041	9	2687	5	3599	8	3143	6	1924	11	4802	6
KHARKOF	CI1442	1	1875	12	3306	12	2590	12	1907	12	3722	12
NE70137/TX65A1503	MT7877	16	1835	13	3197	13	2516	13	2123	9	3085	13
	MEAN		2546		3670		3108		2150		4666	
	LSD(.05)		N.S.		N.S.		N.S.		285		636	
	C.V.		21.7		16.3		18.5		9.9		9.6	

Table 16. (continued)

C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA		HIGHMORE S. DAKOTA		PRESHO S. DAKOTA		SOUTH DAKOTA STATE MEAN		CASSELTON N. DAKOTA		WILLISTON N. DAKOTA		HETTINGER N. DAKOTA		NORTH DAKOTA STATE MEAN	
SD79613	5	3185	3	4282	2	3037	11	3501	4	3915	5	1379	13	3891	4	3903	5
CO745775-4	7	3388	2	4106	3	3579	3	3691	2	4478	1	1835	4	3993	1	4236	1
PI476975	3	3450	1	3956	4	3379	8	3595	3	3806	8	1536	9	3213	11	3510	10
SD791112	6	3004	6	3831	5	3386	7	3407	5	4071	3	1608	7	3840	6	3955	3
WT166	14	2140	10	3265	10	3097	9	2834	11	4340	2	1669	6	3857	5	4098	2
ND7687	21	2976	7	4352	1	4455	1	3928	1	3568	11	2294	1	3310	10	3439	11
SD791058	10	3114	5	3451	9	3046	10	3204	7	3817	7	1499	11	3905	3	3861	6
CI13190	2	2236	9	3511	8	3409	6	3052	9	3975	4	1895	3	3906	2	3940	4
MT8003	17	1382	13	2952	13	3735	2	2690	12	3834	6	1776	5	3604	7	3719	7
SD79560	8	2877	8	3212	11	2780	12	2956	10	3783	9	1533	10	3490	8	3637	8
SD791041	9	3132	4	3809	6	2689	13	3210	6	3657	10	1493	12	3399	9	3528	9
CI1442	1	2055	11	3673	7	3535	4	3088	8	2764	12	1605	8	3058	12	2911	12
MT7877	16	1426	12	3121	12	3419	5	2656	13	2705	13	1971	2	2891	13	2798	13
MEAN		2643		3655		3350		3216		3747		1814		3566		3656	
LSD(.05)		915		757		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.	
C.V.		18.5		12.6		12.7		14.3		12.8		17.8		12.6		12.7	

Table 16. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	CLOVIS (IRR.) NEW MEXICO		CLOVIS (DRYL.) NEW MEXICO		NEW MEXICO STATE MEAN		ABERDEEN IDAHO		MOCCASIN MONTANA		LIND WASHINGTON		REGIONAL AVERAGE
SD79613	5	2411	11	1047	13	1729	11	4763	2	2940	5	1751	10	3591
CO745775-4	7	2712	7	1633	3	2173	5	3990	9	3072	2	1810	6	3505
PI476975	3	3614	1	1411	8	2513	2	4314	6	2863	6	1738	11	3450
SD791112	6	2829	6	1471	6	2150	6	4157	7	3034	3	1790	7	3438
WT166	14	3244	3	1643	2	2444	4	4821	1	3126	1	2405	1	3363
ND7687	21	2441	10	1413	7	1927	9	3582	11	2530	10	1864	4	3281
SD791058	10	2840	5	1196	11	2018	8	4412	3	2719	9	1838	5	3239
CI13190	2	2700	8	1590	4	2145	7	3382	13	3028	4	1780	9	3166
MT8003	17	3236	4	2169	1	2702	1	4365	5	2730	8	2162	2	3120
SD79560	8	2698	9	1130	12	1914	10	4130	8	1923	12	1465	12	3099
SD791041	9	2069	12	1282	9	1675	12	3769	10	1564	13	1261	13	3024
CI1442	1	2069	13	1221	10	1645	13	3384	12	2805	7	1783	8	2822
MT7877	16	3451	2	1532	5	2492	3	4389	4	2168	11	1952	3	2693
MEAN		2793		1441		2117		4112		2730		1775		3214
LSD(.05)		N.S.		N.S.		N.S.		N.S.		696		301		311
C.V.		12.8		20.5		15.5		14.4		15.1		17.5		14.4

Table 17. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield for the 27 entries in the 1984 Northern Regional Performance Nursery.

Entry no.	C. I. or Sel. No.	Mean yield over 17 locations (kg/ha)	Regression Coefficient (by·x)	Correlation Coefficient (r)	Coefficient of Determination (r^2)
27	NE78668	3552	1.25	0.95	0.91
25	XNH1246	3541	1.08	0.93	0.87
22	XH170A	3425	0.98	0.89	0.80
26	XNH1247	3416	0.90	0.91	0.83
4	NE80413	3366	1.33	0.95	0.91
15	NT7811	3354	1.22	0.91	0.83
12	SD82119	3335	1.09	0.96	0.92
19	RH830201	3302	1.13	0.89	0.79
18	17902	3266	1.03	0.83	0.69
11	SD82163	3258	1.11	0.93	0.86
3	PI476975	3238	1.09	0.89	0.80
14	WT166	3185	1.02	0.97	0.94
5	SD79613	3182	1.10	0.94	0.89
7	CO745775-4	3180	0.96	0.88	0.78
24	XNH1150	3151	0.99	0.91	0.83
10	SD791058	3131	0.98	0.95	0.90
6	SD791112	3078	0.84	0.88	0.77
23	XH172	3071	0.74	0.83	0.69
13	SD79391	3043	1.13	0.90	0.82
21	ND7687	3033	0.89	0.78	0.61
17	MT8003	3032	0.89	0.83	0.69
20	RH830301	3014	0.91	0.89	0.78
2	13190	3005	0.93	0.92	0.85
8	SD79560	2901	1.02	0.94	0.88
9	SD791041	2836	1.10	0.91	0.82
16	MT7877	2663	0.71	0.79	0.62
1	1442	2656	0.56	0.71	0.50

Table 18. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on location mean yield for 13 entries in the 1983 and 1984 Northern Regional Performance Nursery.

Entry no.	C. I. or Sel. No.	Mean yield over 12 locations (kg/ha)	Regression Coefficient (by·x)	Correlation Coefficient (r)	Coefficient of Determination (r^2)
5	SD79613	3591	1.19	0.95	0.90
7	CO745775-4	3505	1.10	0.95	0.90
3	PI476975	3450	1.14	0.90	0.81
6	SD791112	3438	0.97	0.93	0.86
14	WT166	3363	1.15	0.92	0.85
21	ND7687	3281	0.99	0.87	0.75
10	SD791058	3239	0.96	0.94	0.89
2	13190	3166	0.97	0.95	0.89
17	MT8003	3120	0.98	0.84	0.71
8	SD79560	3099	0.99	0.86	0.74
9	SD791041	3024	1.14	0.92	0.84
1	1442	2822	0.73	0.85	0.72
16	MT7877	2693	0.74	0.78	0.61

Table 19. Summary of agronomic and yield data for 27 wheats grown in the 1984 Northern Regional Performance Nursery.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	PLANT HEIGHT CM	DAYS TO HEADING FROM 1/1	LODGING 0-9	WINTER SURVIVAL %
Number of trials			15	15	2	10
(WARRIOR*5/AGENT)*2/KAVKAZ	NE78668	27	86	158	4	75
WINTER WHEAT HYBRID	XNH1246	25	90	159	4	76
WINTER WHEAT HYBRID	XH170A	22	76	159	4	71
WINTER WHEAT HYBRID	XNH1247	26	85	158	4	76
LOVRIN 13/2*CTK78	NE80413	4	83	158	5	63
FROID/WNK//MT6	MT7811	15	84	160	4	67
AMIGO/2*CTK78//ROSE	SD82119	12	84	157	5	72
WINTER WHEAT HYBRID	RH830201	19	79	156	4	68
WINRIDGE	CI17902	18	88	162	3	73
CI15322//AGENT/4*SUT/3/CTK/4/SD75375	SD82163	11	80	158	6	65
COLT	PI476975	3	70	157	3	67
PAU 45/CHEYENNE	WT166	14	87	160	5	71
SAGE/SD75375	SD79613	5	84	160	5	64
CO695625/CTK	CO745775-4	7	87	160	5	71
WINTER WHEAT HYBRID	XNH1150	24	86	158	2	70
SAGE/HAND//BENNETT	SD791058	10	83	158	5	70
SD75375/OK7112481	SD791112	6	84	158	6	69
WINTER WHEAT HYBRID	XH172	23	74	159	5	70
SAGE*2/HAND	SD79391	13	78	158	6	70
YTO-117/TRADER	ND7687	21	96	162	4	84
REDWIN SELECTION	MT8003	17	87	161	3	74
WINTER WHEAT HYBRID	RH830301	20	81	155	4	70
WARRIOR	CI13190	2	88	159	5	76
SAGE/HAND//BENNETT	SD79560	8	81	156	5	73
SAGE*2/HAND	SD791041	9	77	157	5	74
NE70137/TX65A1503	MT7877	16	68	161	6	75
KHARKOF	CI1442	1	99	161	7	75

Table 19. (concluded)

C.I. OR SEL. NO.	ENTRY NO.	POWDERY MILDEW 0-9	CEPHALOSP STRIPE 1-5	STRIPE RUST SEV.	STRIPE RUST RESP	LEAF RUST SEV. %	LEAF RUST RESP 1-9	TAN SPOT 0-9	LEAF SPOT 0-9	VOLUME WEIGHT KG/HL	YIELD KG/HA
Number of trials		1	1	2		2		2	1	16	17
NE78668	27	1	4	61		1		5	1	76.2	3552
XNH1246	25	7	3	60		85		5	1	76.4	3541
XH170A	22	6	2	59		85		6	1	75.1	3425
XNH1247	26	7	2	67		80		5	1	75	3416
NE80413	4	2	2	12		1		7	1	75.9	3366
MT7811	15	8	2	50		80		5	2	75.3	3354
SD82119	12	7	4	60		80		6	4	77.1	3335
RH830201	19	8	4	48		80		7	5	76.2	3302
CI17902	18	7	1	50		75		6	7	73.1	3266
SD82163	11	7	3	24		50		7	1	77.3	3258
PI476975	3	4	3	79		40		6	2	76.1	3238
WT166	14	8	4	72		75		6	3	75.6	3185
SD79613	5	7	3	27		65		6	1	75.9	3182
CO745775-4	7	7	3	98		40		6	2	76.1	3180
XNH1150	24	8	2	34		90		6	3	75	3151
SD791058	10	7	4	77		80		6	2	77.1	3131
SD791112	6	7	2	24		60		7	1	76.7	3078
XH172	23	8	2	60		90		6	3	73.5	3071
SD79391	13	7	1	57		75		7	8	77	3043
ND7687	21	5	1	87		90		6	1	77	3033
MT8003	17	8	2	58		90		5	3	75.3	3032
RH830301	20	8	4	94		95		8	2	76.6	3014
CI13190	2	7	2	59		70		6	1	76	3005
SD79560	8	6	4	95		11		7	6	77.5	2901
SD791041	9	6	1	81		41		7	8	77.3	2836
MT7877	16	2	2	15		60		6	2	74.4	2663
CI1442	1	4	1	28		65		6	1	75.7	2656

Table 20. Seedling reactions of entries in the 1984 Northern Regional 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).

		Reaction produced by isolates								
		70-44-68A	72-00-13706	69-21-399	71-21-584B	72-25-6396	72-00-53A	75-32-1662A	72-04-1A	74-21-1409A
Entry	Variety,	29	151		11-32-113				15B-2	
no.	Sel. No.	HJCS	QFBS	QSHS	RHRS	RKQS	RTQQ	RTQS	TNMH	TNMK
1	Kharkof	S	S	S	S	S	S	S	S	S
2	Warrior	S	S	S	S	S	S	S	S	S
3	Colt	2=	0;	2=	2=	2-	0;	2=	0	0
4	NE80413	0	0;	1c	0;	2=	0;	2=	0	0
5	SD79613	2	0;	2	2-	2=	0;	2	0	0
6	SD791112	S,2	0;	S	S	S	S	S	0	0;
7	CO745775-4	2	2	2	2	2	0;	2	0	S
8	SD79560	2	2	S,2	S,2	2,S	S,2	2,S	S,2	-
9	SD791041	0	0;,2-	0	2-	;1	0	0,2=	0	0,2-
10	SD791058	0	0;	S	S	S	S	S	;	0;
11	SD82163	0	0;	S	2	S	0	S	0	0;
12	SD82119	2=	2=	2=	2=	2=	0	2=	0	2=
13	SD79391	0	2-	0	2=	2=	2=	2=	2=	2=
14	WT166	0	S	S	S	S	S	S	S	S
15	MT7811	2=	0;	S,2=	S,2=	S,2=	S,0	S,2=	0;	0;
16	MT7877	0	S	S	S	S	S	S	S	S
17	MT8003	0	S	S	S	S	S	S	S	S
18	Winridge	2	2	2	2	2	2	2	S	S
19	RH830201	2	2+	2,1CN	2	2	2	2	;1N,S	S,1N
20	RH830301	0	;1	1CN,S	2	2	2	-	;1N,S	1N
21	ND7687	0	0;	S	S	S	S	S	0	0
22	XH170A	2	2+,;	2,1CN	2	2	2	2	S,;1	S,;1N
23	XH172	0	S	S	S	S	S	S	S	S
24	XNH1150	0,S	S	S	S	S	S	S	S	S
25	XNH1246	0,S	S	S	S	S	S	S	S	S
26	XNH1247	2	S,2+	S	S	S	S	S	S	S
27	Siouxland	0,2=	2=	2=	2=	2=	2=	2=	2=	2=

Table 21. Adult plant reactions of entries in the 1984 Northern Regional Performance Nursery to Puccinia graminis f. sp. tritici and Puccinia recondita in an inoculated nursery at St. Paul, MN (by D. V. McVey, USDA, ARS, Cereal Rust Laboratory, University of Minnesota, St. Paul, MN).

	Variety or Sel. No.	Leaf Rust	Stem Rust
1	Kharkof	90S	80S
2	Warrior	90S	80S
3	Colt	TS	20MR
4	NE80413	TR	20MR
5	SD79613	TR,40S	30MS-S
6	SD791112	5MS,40S	30MS-S
7	CO745775-4	TS,40S	30MS-S
8	SD79560	10S	60S
9	SD791041	5S	30MS
10	SD791058	40S	60S
11	SD82163	5R	60S
12	SD82119	40S	20MR,TR
13	SD79391	TR	TR
14	WT166	90S	60S
15	MT7811	80S	40S
16	MT7877	90S	40S
17	MT8003	80S	60S
18	Winridge	40S	60S
19	RH830201	60S	60S
20	RH830301	60S	60S
21	ND7687	90S	60S
22	XH170A	WK	WK
23	SH172	90S	60S
24	SNH1150	90S	60S
25	XNH1246	60S	60S
26	XNH1247	80S	60S
27	Siouxland	5R	40S

Table 22. Field Infection Data, Soil-Borne Wheat Mosaic, 1984 Northern Regional Winter Wheat Performance Nursery, Urbana, IL.[1]
(Cooperators: H. Jedlinski and C. M. Brown)

Entry no.	Disease Severity	
	Rep 1	Rep 2
1	VS	VS
2	VS	VS
3	VS	VS
4	VR	VR-R
5	VS	VS
6	VS	VS
7	VS	VS
8	VS	VS
9	VS	VS
10	S	MS
11	VR	VR-R
12	VS	VS
13	VS	VS
14	VS	VS
15	VS	VS
16	VS	VS
17	VS	VS
18	Ros	Ros
19	VS	VS
20	VS	VS
21	VS	VS
22	S	VS
23	VS	VS
24	VS	VS
25	VS	VS
26	VS	VS
27	VS	VS

[1]The nursery was planted in soil-borne mosaic nursery at Urbana, IL on October 5, 1983. Optimal conditions for infection after seeding resulted in uniform infection with about 100% disease incidence in susceptible entries (100% rosetting in the line 'Rosette' (CI17931) and VS infection in 'Michigan Amber' planted as spreader CK rows throughout the nursery) in the spring of 1984. First symptoms were observed first week of April. Disease severity notes were taken on 4-17-84. Disease severity rating scale = VS, most susceptible to VR, most resistant; Ros = rosetting; WK = winterkilled.

Table 23. 1984 Winter Wheat Snow Mold Survival Readings (%), NRPN, Tetonia, Idaho.

C. I. or Cross No.	Name or Pedigree	Tetonia Yield Nursery (3 reps) Rating	Rank
1442	Kharkof	.7	27
13190	Warrior	.8	24-26
NE78696	Colt	1.8	12
NE80413	Lovrin 13/2*Ctk 78	2.7	3-7
SD79613	Sage/SD75375	1.3	18-19
SD791112	SD75375/OK7112481	.5	28
CO745775-4	CO695625/Ctk	.8	24-26
SD79560	Sage/Hand//Bennett	1.7	13-16
SD791041	Sage*2/Hand	1.7	13-16
SD791058	Sage/Hand//Bennett	.8	24-26
SD82163	CI15322//Agent/4*Sut/3/Ctk/ 4/SD75375	2.3	8-10
SD82119	Amigo/2*Ctk 78//Rose	2.0	11
SD79391	Sage*2/Hand	2.7	3-7
WT166	Pau 45/Cheyenne	.8	24-26
MT7811	Froid/Wnk//MT6	1.5	17
MT7877	NE70137/TX65A1503	1.2	20-21
MT8003	Redwin Selection	1.0	22-23
17902	Winridge	1.0	22-23
RH830201	Winter Wheat Hybrid	1.3	18-19
RH830301	"	.2	29
ND7687	YTO-117/Trader	.0	30
XH170A	Winter Wheat Hybrid	1.7	13-16
XH172	"	2.7	3-7
XNH1150	"	5.0	1
XNH1246	"	3.3	2
XNH1247	"	2.3	8-10
NE78668	(Warrior*5/Agent)*2/Kavkaz	2.7	3-7
17860 check	Neeley	1.2	20-21
17846 "	Manning	2.3	8-10
17727 "	Weston	2.7	3-7
Average		1.7	
F Ratio		2.10**	
LSD 5%		1.7	
C.V.		61.3%	

Table 24. Hessian fly reaction, Great Plains biotype, 1984 Northern Regional Performance Nursery. (Data from J. H. Hatchett, Manhattan, KS.)

Entry No.	G.P. Read Nov. 28
1	S
2	S
3	S
4	S
5	S
6	S
7	S
8	S
9	S
10	S
11	S
12	S
13	S
14	S
15	S
16	S
17	S
18	S
19	S
20	S
21	S
22	S
23	S
24	S
25	S
26	S
27	S

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 NURSERY

The nursery is comprised of Southern and Northern Materials Sections. In 1984 the Southern Section contained 202 entries and the Northern Section 103 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 116 entries in 1984. Infection data were reported from all test sites, ie/ Lincoln, NE, Manhattan, KS and Urbana, IL. The nursery list and reaction data are included herein.

1984
UNIFORM WINTERHARDINESS NURSERY
Southern Materials Section

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Plainsman V//2*Larned/Eaze//Sage	KS82H4	Kansas
2	KS73H530//Sage/Arthur	KS82H116	"
3	"	KS82H136	"
4	"	KS82H144	"
5	"	KS82H147	"
6	"	KS82H156	"
7	"	KS82H209	"
8	"	KS82H212	"
9	David/2*Cheney	KS82H255	"
10	Warrior	13190	Check
11	David/2*Cheney	KS82H255-4	Kansas
12	Pm4/3*Cheney/3/Olsens dwf/2*Eagle// Pn/Durum	KS82H238-1	"
13	"	KS82H238-2	"
14	"	KS82H238-3	"
15	Pn/Durum//KS73H530	KS82H68-1	"
16	"	KS82H68-2	"
17	"	KS82H68-3	"
18	H15A13333/3/5*Larned/Eagle//Sage	KS83H99	"
19	"	KS83H105	"
20	Scout 66	13996	Check
21	H15A13333/3/5*Larned/Eagle//Sage	KS83H106	Kansas
22	"	KS83H107	"
23	"	KS83H110	"
24	"	KS83H115	"
25	"	KS83H116	"
26	"	KS83H117	"
27	"	KS83H132	"
28	"	KS83H133	"
29	"	KS83H134	"
30	Vona	17441	Check
31	H15A13333/3/5*Larned/Eagle//Sage	KS83H139	Kansas
32	"	KS83H141	"
33	"	KS83H143	"
34	"	KS83H144	"
35	"	KS83H145	"
36	Pn/2*Eagle/3/Larned/Eagle//Sage	KS83H158	"
37	Payne/NA76-1226	NA81-170	NAPB
38	"	NS81-157	"
39	Hawk Sib	NA391S4	"
40	Warrior	13190	Check
41	Mustang Sib	NA3615	NAPB
42	"	NA361	"
43	Bounty 100	--	Cargill
44	Bounty 201	--	"
45	Bounty 202	--	"

1984 UWHN (Southern Materials Section) continued:

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
46	Bounty 203	--	Cargill
47	Bounty 301	--	"
48	Bounty 310	--	"
49	Vona	17741	Check
50	Scout 66	13996	Check
51	Kharkof	1442	SRPN
52	TAM 105	17826	"
53	Lovrin 13/2*Ctk 78	NE80413	"
54	Payne/Amigo	OK80019	"
55	Payne//TAM W-101/Amigo	OK80268	"
56	"	OK81280	"
57	"	OK81306	"
58	"	OK81322	"
59	TAM W-101/Amigo	OK81064	"
60	Vona	17441	Check
61	TAM W-101/Amigo	OK81065	SRPN
62	Pronto/Parker 76	KS82167	"
63	"	KS82163	"
64	Parker 76/CIMMYT-Scout	KS80336	"
65	Bulk Selection	NA80310	"
66	"	NA80300	"
67	"	NA81-459	"
68	"	NA81-297	"
69	"	NA81-283	"
70	Warrior	13190	Check
71	Payne/HW76-1226	NA81-362	SRPN
72	Sdy sib/Tmp//Ctk	TX71A562-6-28	"
73	TAM 105*4/Amigo	TXGH2875	"
74	TAM 105 Reselection	TX69A569-1-69	"
75	TAM W-103//Sh. Wheat/Sut	TX80A5609	"
76	Sdy sib/Tcs//Ctk/3/Amigo	TX80A6025	"
77	TAM 105*4/Amigo	TX80GH2679	"
78	Sdy sib/Tmp//Ctk*4/Amigo	TX80GH3006	"
79	TX71A1039-V1*3/Amigo	TX81V6610	"
80	Scout 66	13996	Check
81	TX71A1039-V1*3/Amigo	TX81V6614	SRPN
82	Amigo/3/2*TX71A937, Sdy sib/Tcs//Ctk	TX38949-2	"
83	Winter Wheat Hybrid	RH830101	"
84	"	RH830201	"
85	Mexican Bulk Hybrid Selection	78DW14	"
86	"	Hp114	"
87	Caprock/B86//SC3212	W7442B	"
88	Sturdy/B48//Sturdy	W7452B	"
89	W558/TAM W-101	W8460D	"
90	Vona	17441	Check
91	Winter Wheat Hybrid	XH140A	SRPN
92	"	XH182	"
93	Pv/3/SD69105//Kaw/At1 50	KS831022	Kansas
94	Pv/KS75253	KS831132	"
95	Pv/Lnd	KS831186	"

1984 UWHN (Southern Materials Section) continued:

Entry no.	Variety or Pedigree	C. I. or Sel. No.	Source
96	Nwt/3/Sdy//Atl 50/Kaw	KS831284	Kansas
97	Nwt/4/Pkr*4/Ag/3/Sdy//Atl 50/Kaw	KS831289	"
98	Pv//Nwt/Purdue Hi Pro	KS831657	"
99	Nwt/Pv	KS832250	"
100	Warrior	13190	Check
101	Pv//Crc/Purdue Hi Pro	KS831440	Kansas
102	Pv/Odk 51	KS831957	"
103	Nwt/3/Pkr*4/Ag//Kaw/Atl 50	KS831004	"
104	KS73167//SD69105/Egl	KS831012	"
105	"	KS831013	"
106	Hsd/SD69104	KS831014	"
107	Pv/3/SD69104//Kaw/Atl 50	KS831023	"
108	"	KS831024	"
109	"	KS831026	"
110	Scout 66	13996	Check
111	KS73159/Pv	KS831030	Kansas
112	"	KS831031	"
113	"	KS831033	"
114	"	KS831034	"
115	"	KS831036	"
116	"	KS831041	"
117	"	KS831047	"
118	"	KS831052	"
119	"	KS831057	"
120	Vona	17441	Check
121	Pv//Crc/Purdue Hi Pro	KS831069	Kansas
122	Pv/Nwt	KS831119	"
123	"	KS831121	"
124	Pv/KS73253	KS831126	"
125	"	KS831143	"
126	"	KS831144	"
127	Pv/Wings	KS831172	"
128	"	KS831173	"
129	"	KS831177	"
130	Warrior	13190	Check
131	Pv/Ldn	KS831180	Kansas
132	"	KS831182	"
133	"	KS831187	"
134	Nwt/3/Pkr*5/Ag//Atl 50	KS831203	"
135	KS73253/Pv	KS831226	"
136	Pv/SD69105//Hsd	KS831241	"
137	Nwt/3/Sdy//Atl 50/Kaw	KS831280	"
138	Nwt/3/Pkr4*/Ag//Kaw/Atl 50	KS831288	"
139	Pv/4/Nr10/2*Pn//Dt/3/Sum	KS831328	"
140	Scout 66	13996	Check
141	Pv/3/Kaw/Atl 50//Pkr*5/Ag	KS831374	Kansas
142	Pv//Crc/Purdue Hi Pro	KS831441	"
143	Pv/TAM W-101	KS831683	"
144	"	KS831739	"
145	Pv/Lnd	KS831740	"

1984 UWHN (Southern Materials Section) continued:

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
146	Pv/Lnd	KS831748	Kansas
147	"	KS831762	"
148	Scout 66	13996	Check
149	Pv/3/Kaw/Atl 50//2*Egl	KS831840	Kansas
150	Vona	17441	Check
151	Pv/3/Kaw/Atl 50//2*Egl	KS831862	Kansas
152	Pv/Odk 51	KS831936	"
153	"	KS831943	"
154	"	KS831947	"
155	"	KS831979	"
156	Wrr*5/Agent//Ctk 78	NE77465	Nebraska
157	Wrr*5/Agent//Aurora/3/Ctk 78	NE78488	"
158	(Wrr*5/Agent)*2/Kavkaz	NE78668	"
159	Colt	NE78696	"
160	Warrior	13190	Check
161	Agate sib (NE69441)/TX65A1503-1	NE78702	Nebraska
162	NE69613/Sage	NE80431	"
163	Atl 66/Cmn/2/NE68709//Zg 1480-69	NE80473	"
164	NE69559/NE801134	NE80477	"
165	Ctk 78/SDBC73V4-0 274164-2 plant CI15322//2*Agent/4*Sut	NE81489	"
166	NE73510/Sentinel//Ctk/Agate	NE81531	"
167	(Complex Cross)	NE81536	"
168	Pkr*4/Agt/3/Beloterkovskaia 198// Lcr/Mir. Jub. 50	NE81554	"
169	"	NE81555	"
170	Scout 66	13996	Check
171	(Complex Cross)	NE82413	Nebraska
172	"	NE82414	"
173	Tpr//Cmn/Ot//CIMMYT/Sut/Buckskin sib/ Homestead	NE82419	"
174	HiPlains/Wings/Pkr*4/Agt/ Beloterkovskaia 198/Lcr	NE82438	"
175	(Complex Cross)	NE82461	"
176	"	NE82464	"
177	CIMMYT/Sut//Agate/3/Sut*4/Agent	NE82533	"
178	391-56-D1-8/Tsc//Homestead/3/ Buckskin Sel.	NE82558	"
179	(Complex Cross)	NE82559	"
180	Vona	17441	Check
181	(Complex Cross)	NE82565	Nebraska
182	Fuzz//Gage/Lcr//Homestead	NE82567	"
183	Capitan//391-56-D1-8/Tsc/3/ Sentinel/Ctk	NE82599	"
184	Ctk/Gage Sel.//NE66454/NE68457	NE82623	"
185	"	NE82624	"
186	Brule//Sentinel/Ctk	NE82651	"
187	"	NE82652	"
188	Brule/3/Pkr*4/Agt//Belot. 198/Lcr	NE82655	"
189	"	NE82656	"
190	Warrior	13190	Check

1984 UWHN (Southern Materials Section) concluded:

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
191	Brule/3/Pkr*4/Agt//Belot. 198/Lcr	NE82657	Nebraska
192	"	NE82658	"
193	"	NE82659	"
194	Capitan/Riebesel//Tdr Sel.//Brule	NE82668	"
195	Purple Seed//Red Coat/Capitan	NE82702	"
196	Buckskin//Sadovo 1//Capitan/ Riebesel//Tdr Sel.	NE82722	"
197	Larned/Bennett	NE82742	"
198	MT7115/Wn/3/Nrn 10/Bvr//Yogo/Ctk/ Gage//NE75582	NE82749	"
199	HiPlains/Wings//NE75586	NE82756	"
200	Scout 66	13996	Check
201	CO725082*2/RRI	NE82761	Nebraska
202	"	NE82765	"

Survival Data (%)
1984 Uniform Winterhardiness Nursery
Southern Materials Section

Entry no.	Nebraska Mead			Minnesota St. Paul			North Dakota Casselton			South Dakota Brookings	South Dakota Highmore	Entry mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 1	
1	90	50	70	100	100	100	50	50	50	100	10	66
2	85	40	63	100	100	100	60	80	70	90	80	81
3	85	80	83	100	100	100	50	90	70	90	10	71
4	70	80	75	100	100	100	65	85	75	80	10	68
5	65	80	73	100	100	100	50	25	38	50	10	54
6	70	80	75	100	100	100	50	35	43	80	70	74
7	50	70	60	100	100	100	40	50	45	80	70	71
8	50	75	63	100	100	100	35	50	43	90	60	71
9	40	75	58	100	100	100	35	40	38	100	0	59
10	100	95	98	100	50	75	50	65	58	40	0	54
11	60	95	78	100	100	100	20	35	28	20	0	45
12	70	95	83	100	100	100	5	50	28	10	0	44
13	60	95	78	100	100	100	25	60	43	10	0	46
14	60	95	78	100	100	100	35	80	58	30	0	53
15	35	95	65	100	100	100	35	80	58	90	0	63
16	1	95	48	100	100	100	20	65	43	90	20	60
17	1	90	46	100	100	100	5	30	18	80	0	49
18	60	95	78	100	100	100	15	30	23	40	70	62
19	35	90	63	100	100	100	40	35	38	10	50	52
20	60	95	78	100	100	100	25	25	25	5	70	56
21	55	90	73	100	100	100	15	50	33	70	50	65
22	20	95	58	100	100	100	10	15	13	70	70	62
23	35	90	63	100	100	100	10	35	23	80	80	69
24	70	90	80	100	100	100	10	40	25	60	90	71
25	75	95	85	100	100	100	20	70	45	90	50	74
26	60	90	75	100	100	100	35	85	60	80	80	79
27	20	95	58	100	100	100	20	90	55	80	60	71
28	30	90	60	100	100	100	5	85	45	100	30	67
29	40	90	65	100	100	100	5	95	50	40	50	61
30	2	85	44	100	100	100	5	95	50	60	0	51
31	40	90	65	100	90	95	2	95	49	40	20	54
32	15	85	50	100	100	100	40	85	63	100	20	67

1984 UWHN (Southern Materials Section) Survival Data (%) continued:

Entry no.	Nebraska Mead Rep 1	Nebraska Mead Rep 2	Nebraska Mead Mean	Minnesota St. Paul Rep 1	Minnesota St. Paul Rep 2	Minnesota St. Paul Mean	North Dakota Casselton Rep 1	North Dakota Casselton Rep 2	North Dakota Casselton Mean	South Dakota Brookings Rep 1	South Dakota Highmore Rep 1	Entry mean
33	45	80	63	100	100	100	40	80	60	90	10	65
34	30	85	58	100	100	100	35	90	63	70	0	58
35	15	85	50	100	100	100	30	95	63	50	5	54
36	10	80	45	100	100	100	35	85	60	10	5	44
37	2	50	26	100	95	98	35	85	60	60	30	55
38	1	75	38	100	95	98	40	95	68	50	50	61
39	5	45	25	100	95	98	80	95	88	90	90	78
40	45	75	60	100	90	95	75	75	75	90	30	70
41	10	45	28	100	100	100	65	70	68	80	70	69
42	40	55	48	100	100	100	75	75	75	80	60	73
43	5	40	23	100	100	100	75	80	78	60	30	58
44	10	40	25	100	100	100	65	100	83	50	5	53
45	15	45	30	100	100	100	75	80	78	70	5	57
46	15	55	35	100	100	100	95	90	93	80	10	64
47	40	60	50	100	100	100	90	70	80	100	10	68
48	30	60	45	100	100	100	75	80	78	90	20	67
49	35	55	45	100	100	100	85	100	93	90	0	66
50	85	85	85	100	100	100	65	95	80	100	10	75
51	85	70	78	100	100	100	80	100	90	70	0	68
52	95	95	95	100	100	100	90	85	88	60	0	69
53	60	90	75	100	100	100	90	95	93	20	1	58
54	45	95	70	100	50	75	95	80	88	40	5	56
55	35	85	60	100	50	75	100	90	95	80	5	63
56	35	85	60	100	80	90	100	100	100	90	5	69
57	35	85	60	100	95	98	95	90	93	90	0	68
58	35	85	60	100	100	100	90	95	93	20	5	56
59	2	70	36	100	100	100	85	70	78	10	10	47
60	5	75	40	100	100	100	85	70	78	10	5	47
61	2	80	41	100	95	98	95	70	83	5	2	46
62	5	75	40	100	15	58	75	15	45	5	1	30
63	10	75	43	100	10	55	95	50	73	70	1	48
64	40	75	58	100	70	85	90	90	90	90	5	66

1984 UWHN (Southern Materials Section) Survival Data (%) continued:

Entry no.	Nebraska Mead			Minnesota St. Paul			North Dakota Casselton			South Dakota Brookings	South Dakota Highmore	Entry mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 1	
65	10	60	35	100	80	90	100	85	93	100	0	64
66	10	65	38	100	50	75	90	65	78	70	5	53
67	60	75	68	100	100	100	95	80	88	30	5	58
68	25	75	50	100	100	100	100	90	95	10	1	51
69	90	85	88	100	95	98	90	50	70	70	0	65
70	85	85	85	100	80	90	90	80	85	70	0	66
71	90	90	90	100	80	90	90	75	83	90	10	73
72	90	85	88	100	100	100	85	65	75	90	10	73
73	95	90	93	100	80	90	90	50	70	90	90	87
74	95	90	93	100	100	100	85	50	68	100	80	88
75	75	95	85	100	90	95	80	40	60	90	60	78
76	95	90	93	100	85	93	85	40	63	90	50	78
77	95	95	95	100	100	100	50	20	35	40	5	55
78	80	95	88	100	95	98	50	5	28	30	10	51
79	80	85	83	100	100	100	15	10	13	60	5	52
80	90	90	90	100	100	100	20	10	15	80	10	59
81	80	85	83	100	85	93	20	20	20	80	10	57
82	55	50	53	100	100	100	10	15	13	40	1	41
83	80	95	88	100	85	93	20	35	28	20	5	47
84	85	95	90	100	70	85	50	10	30	10	10	45
85	1	35	18	100	100	100	35	0	18	50	0	37
86	50	95	73	100	100	100	70	5	38	10	0	44
87	80	95	88	100	40	70	70	30	50	40	0	50
88	60	95	78	100	80	90	85	30	58	80	0	61
89	50	95	73	100	30	65	40	15	28	80	0	49
90	30	90	60	100	100	100	40	35	38	70	40	62
91	90	90	90	100	20	60	60	40	50	50	0	50
92	75	95	85	100	90	95	50	40	45	50	10	57
93	50	90	70	90	100	95	5	5	5	60	10	48
94	30	90	60	100	100	100	0	5	3	90	20	55
95	20	85	53	70	100	85	10	50	30	30	5	41
96	10	85	48	100	0	50	5	10	8	100	90	59
97	10	95	53	100	5	53	5	30	18	4	10	28

1984 UWHN (Southern Materials Section) Survival Data (%) continued:

Entry no.	Nebraska Mead Rep 1	Nebraska Mead Rep 2	Nebraska Mead Mean	Minnesota St. Paul Rep 1	Minnesota St. Paul Rep 2	Minnesota St. Paul Mean	North Dakota Casselton Rep 1	North Dakota Casselton Rep 2	North Dakota Casselton Mean	South Dakota Brookings Rep 1	South Dakota Highmore Rep 1	Entry mean
98	1	95	48	100	15	58	10	25	18	60	10	39
99	15	90	53	100	15	58	15	35	25	60	30	45
100	60	95	78	100	80	90	50	75	63	60	30	64
101	1	90	46	100	40	70	40	25	33	10	80	48
102	1	95	48	100	50	75	40	60	50	50	80	61
103	1	90	46	90	0	45	0	20	10	40	80	44
104	0	45	23	100	0	50	5	10	8	30	90	40
105	10	55	33	100	5	53	5	10	8	20	0	23
106	0	55	28	100	5	53	25	85	55	20	20	35
107	1	50	26	100	5	53	0	40	20	10	50	32
108	5	15	10	100	70	85	50	85	68	10	5	36
109	10	45	28	100	60	80	60	35	48	10	100	53
110	30	50	40	100	100	100	60	35	48	20	80	58
111	5	40	23	100	60	80	50	20	35	20	5	33
112	0	35	18	100	15	58	60	20	40	40	5	32
113	0	35	18	100	0	100	60	5	33	60	0	42
114	0	45	23	100	0	100	40	5	23	40	0	37
115	1	55	28	100	0	100	15	2	9	10	0	29
116	5	70	38	100	0	100	65	10	38	5	0	36
117	0	70	35	80	0	40	40	10	25	10	0	22
118	5	75	40	100	0	50	25	0	13	10	0	23
119	10	85	48	100	0	50	25	0	13	30	0	28
120	5	80	43	100	100	100	20	25	23	70	0	47
121	20	85	53	100	15	58	10	20	15	30	5	32
122	40	80	60	100	0	50	5	5	5	50	5	34
123	50	85	68	100	0	50	5	0	3	20	20	32
124	40	70	55	100	0	50	0	2	1	10	5	24
125	25	60	43	100	5	53	20	0	10	5	0	22
126	75	55	65	100	0	50	15	0	8	10	0	27
127	40	25	33	100	0	50	30	5	18	60	1	32
128	55	35	45	100	0	50	50	10	30	60	1	37
129	60	30	45	100	10	55	40	10	25	80	1	41
130	85	45	65	100	50	75	60	50	55	70	1	53

1984 UWHN (Southern Materials Section) Survival Data (%) continued:

Entry no.	Nebraska Mead			Minnesota St. Paul			North Dakota Casselton			South Dakota Brookings	South Dakota Highmore	Entry mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 1	
131	50	30	40	100	15	58	60	10	35	20	1	31
132	20	15	18	100	40	70	65	5	35	20	40	37
133	40	25	33	100	40	70	60	10	35	20	40	40
134	25	15	20	100	40	70	35	2	19	20	40	34
135	35	25	30	100	0	50	20	5	13	30	10	27
136	5	20	13	100	0	50	40	0	20	30	100	43
137	95	20	58	100	10	55	40	10	25	70	0	42
138	95	60	78	100	0	50	20	0	10	40	0	36
139	100	25	63	100	10	55	40	20	30	5	0	31
140	100	60	80	100	100	100	50	25	38	50	0	54
141	95	60	78	100	60	80	85	65	75	50	0	57
142	95	55	75	100	40	70	95	30	63	60	0	54
143	85	20	53	100	40	70	75	15	45	50	90	62
144	85	10	48	100	10	55	65	25	45	60	0	42
145	85	5	45	100	10	55	40	20	30	30	0	32
146	85	15	50	100	0	50	65	20	43	50	0	39
147	85	25	55	100	30	65	80	25	53	40	5	44
148	90	60	75	100	100	100	90	35	63	70	10	64
149	85	55	70	100	0	50	40	10	25	10	0	31
150	75	35	55	100	85	93	40	60	50	50	0	50
151	75	75	75	100	0	50	30	50	40	60	0	45
152	80	85	83	100	30	65	70	75	73	80	0	60
153	65	75	70	100	20	60	80	70	75	90	5	60
154	60	90	75	100	10	55	50	75	63	80	5	56
155	60	85	73	100	10	55	50	90	70	50	0	50
156	50	95	73	100	90	95	75	90	83	50	60	72
157	80	90	85	100	80	90	75	90	83	10	80	70
158	90	90	90	100	90	95	95	85	90	20	40	67
159	85	90	88	100	100	100	60	85	73	70	40	74
160	85	95	90	100	85	93	65	65	65	60	50	72
161	80	95	88	100	85	93	65	70	68	80	51	76
162	80	90	85	100	100	100	50	30	40	80	1	61
163	65	55	60	100	100	100	10	35	23	20	1	41
164	70	60	65	100	100	100	30	35	33	20	5	45
165	65	75	70	100	100	100	50	75	63	20	20	55

1984 UWHN (Southern Materials Section) Survival Data (%) continued:

Entry no.	Nebraska Mead			Minnesota St. Paul			North Dakota Casselton			South Dakota Brookings	South Dakota Highmore	Entry mean
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 1	
166	55	60	58	100	95	98	80	80	80	70	5	62
167	55	65	60	100	90	95	50	85	68	80	5	62
168	70	85	78	100	100	100	40	90	65	80	100	85
169	60	75	68	100	100	100	35	50	43	80	80	74
170	55	55	55	100	100	100	50	85	68	80	10	63
171	55	55	55	100	100	100	60	85	73	80	20	66
172	20	40	30	100	100	100	60	80	70	40	0	48
173	10	55	33	100	100	100	50	85	68	10	0	42
174	10	75	43	100	100	100	75	90	83	10	0	47
175	40	65	53	100	95	98	75	50	63	60	5	56
176	35	45	40	100	90	95	50	50	50	80	50	63
177	10	25	18	100	90	95	65	70	68	80	20	56
178	10	45	28	100	85	93	90	90	90	60	5	55
179	45	55	50	100	90	95	85	95	90	20	5	52
180	0	20	10	100	100	100	80	60	70	10	30	44
181	30	65	48	90	100	95	60	75	68	20	0	46
182	75	65	70	95	100	98	50	90	70	20	10	54
183	75	85	80	100	100	100	70	100	85	30	10	61
184	70	85	78	100	100	100	70	90	80	70	--	82
185	40	85	63	100	90	95	95	85	90	90	--	85
186	55	90	73	100	100	100	95	80	88	80	--	85
187	55	80	68	100	95	98	85	75	80	10	--	64
188	35	75	55	100	100	100	90	80	85	20	--	65
189	50	90	70	100	100	100	95	90	93	60	--	81
190	60	95	78	80	50	65	100	100	100	70	--	78
191	50	90	70	100	95	98	100	90	95	70	--	83
192	40	90	65	100	100	100	90	70	80	70	--	79
193	40	80	60	100	95	98	90	70	80	50	100	78
194	70	80	75	100	80	90	100	75	88	70	10	67
195	60	50	55	100	80	90	100	80	90	90	10	67
196	60	60	60	100	100	100	100	80	90	90	10	70
197	95	80	88	100	100	100	95	75	85	50	5	66

1984 UWHN (Southern Materials Section) Survival Data (%) concluded:

Entry no.	Nebraska Mead Rep 1	Nebraska Mead Rep 2	Nebraska Mead Mean	Minnesota St. Paul Rep 1	Minnesota St. Paul Rep 2	Minnesota St. Paul Mean	North Dakota Casselton Rep 1	North Dakota Casselton Rep 2	North Dakota Casselton Mean	South Dakota Brookings Rep 1	South Dakota Highmore Rep 1	Entry mean
198	95	85	90	100	95	98	100	95	98	20	0	61
199	95	85	90	100	95	98	100	95	98	90	25	80
200	80	85	83	100	90	95	65	85	75	30	40	65
201	80	95	88	100	100	100	80	90	85	60	5	68
202	70	85	78	100	100	100	75	85	80	60	10	66
Rep mean	48	71		99	72		54	54		53	21	
Location mean		60			86			54		--	--	

Grand total = 95,105

1984
UNIFORM WINTERHARDINESS NURSERY
Northern Materials Section

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Norstar	17735	Check
2	Sage *2/Hand	SD79380	So. Dak.
3	"	SD79391	"
4	Ctk*4/Hand//Ctk*3/NH	SD75375-106	"
5	CI15322//3*(Agent/4*Sut)/3/Ctk*4/NH	SD76369-10	"
6	Amigo/2*Ctk//Rose	SD82118	"
7	SD76560/SD75375	SD82143	"
8	Amigo/2*Ctk//Rose	SD82119	"
9	Ctk*3/Hand//SD75375	SD79342	"
10	Warrior	13190	Check
11	SD75375/OK711248-1	SD79677	So. Dak.
12	CI15322//Agent/4*Sut/3/Ctk*4/NH	SD76367-3	"
13	CI15322//Agent/4*Sut/3/Ctk	SD76598-7	"
14	Minter/PI117807//Ctk	SD75465-108	"
15	SD74221*2/Lathrop	SD82114	"
16	SD73233-3//Predgorna/Cheney	SD82107	"
17	CI15322//Agent/4*Sut/3/Ctk/4/SD74221	SD82145	"
18	"	SD82147	"
19	Sut/Transec//CI15322/Sage	SD82190	"
20	Centurk 78	17724	Check
21	Sut/Transec//CI15322/Sage	SD82186	So. Dak.
22	"	SD82193	"
23	NE70545/NE70537//CO672135/CO662079	SD82102	"
24	SD73233-3/3/Bez/New Zucht//Ctk	SD82108	"
25	SD75375/OK711248-1	SD79115	"
26	"	SD79117	"
27	YTO-117//Wnk/Pitic62/3/Predgorna/Cheney	SD82111	"
28	Amigo/2*Ctk//NE764342	SD82203	"
29	SD75375/OK711248-1	SD791109	"
30	Norstar	17735	Check
31	Minter/PI117807//Ctk	SD75465-101	So. Dak.
32	SD75375/OK711248-1	SD79664	"
33	Minter/PI117807//Ctk	SD76177-38	"
34	Centurk*2/Hand	SD74221-12	"
35	Centurk*5/Hand	SD79105	"
36	"	SD76709	"
37	Centurk*4/Hand	SD74124-1	"
38	CI15902/T. speltoides//Complex/3/5*Ctk	SD76189	"
39	CI15092/T. speltoides//Fletcher/3/6*Ctk	SD79219	"
40	Warrior	13190	Check
41	CI15322//3*(Agent/4*Sut)	SD76463-5	So. Dak.
42	"	SD79892	"
43	"	SD76463-16	"
44	Ctk 78*2/Hand	SD74217-1-1	"
45	"	SD74221-15	"
46	Lancota/TB	SD82134	"
47	CI15322//Agent/4*Sut/3/SD713-11	SD76501-28-9	"
48	CI15322//Agent/4*Sut/3/Ctk/4/SD74221	SD82150	"
49	Centurk 78	17724	Check
50	Centurk 78	17724	Check

1984 UWHN (Northern Materials Section) concluded:

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
51	CI15322//Agent/4*Sut/3/Ctk/4/SD74221	SD82160	So. Dak.
52	CI15322//Agent/4*Sut/3/Ctk/4/SD75375	SD82163	"
53	"	SD82162	"
54	CI15092/T. speltoides//Fletcher/3/TB	SD82176	"
55	CI15322//Agent/4*Sut/3/Ctk	SD76463-4	"
56	"	SD76598-8	"
57	CI15322//Agent/4*Sut/3/Ctk/4/SD74221	SD82153	"
58	"	SD82144	"
59	"	SD82146	"
60	Amigo/2*Ctk//SD74221	SD82195	"
61	TB//Ctk*4/CIMMYT line	SD82125	"
62	CI15322//Agent/4*Sut/3/SD713-11	SD76501-28-18	"
63	Norstar	17735	Check
64	Ctk//Wnk/Uljanovka	ND7896	No. Dak.
65	Ctk//Froid/Sdy	ND78104	"
66	Wnk/NB69457	ND78106	"
67	Ctk/3/Froid//Minter/NB68427	NE8001	"
68	"	ND8002	"
69	Sdy*2/Bon	ND8055	"
70	Warrior	13190	Check
71	Wnk*2/II64-27	ND8061	No. Dak.
72	Bulk Selection	NA81-283	NAPB
73	"	NA81-459	"
74	Payne/NA76-1226	NA81-170	"
75	Kharkof	1442	NRPN
76	Colt	NE78696	"
77	Lovrin 13/2*Ctk 78	NE80413	"
78	Sage/SD75375	SD79613	"
79	SD75375/OK7112481	SD79112	"
80	Centurk 78	17724	Check
81	CO695625/Ctk	CO745775-4	NRPN
82	Sage/Hand//Bennett	SD79560	"
83	Sage*2/Hand	SD791041	"
84	Sage/Hand//Bennett	SD791058	"
85	CI15322//Agent/4*Sut/3/Ctk/4/SD75375	SD82163	"
86	Amigo/2*Ctk 78//Rose	SD82119	"
87	Sage*2/Hand	SD79391	"
88	Pau 45/Cheyenne	WT166	"
89	Froid/Wnk//MT6	MT7811	"
90	Norstar	17735	Check
91	NE70137/TX65A1503	MT7877	NRPN
92	Redwin Selection	MT8003	"
93	Winridge	17902	"
94	Winter Wheat Hybrid	RH830201	"
95	"	RH830301	"
96	YTO-117/Trader	ND7687	"
97	Winter Wheat Hybrid	XH170A	"
98	"	XH172	"
99	"	XNH1150	"
100	Warrior	13190	Check
101	Winter Wheat Hybrid	XNH1246	NRPN
102	"	XNH1247	"
103	(Warrior*5/Agent)*2/Kavkaz	NE78668	"

Survival Data (%)
1984 Uniform Winterhardiness Nursery
Northern Materials Section

Entry no.	Minnesota			South Dakota						North Dakota						Manitoba			Entry Mean
	St. Paul			Brookings			Highmore			Casselton			Williston			Winnipeg			
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
1	100	100	100	40	20	30	80	80	80	98	70	84	80	80	80	90	70	80	76
2	100	100	100	--	--	--	80	20	50	75	50	63	80	85	83	20	70	45	57
3	100	100	100	30	5	18	0	50	25	50	25	38	20	70	45	5	0	3	38
4	100	100	100	5	5	5	30	20	25	65	30	48	60	80	70	40	60	50	50
5	100	100	100	30	10	20	100	10	55	40	35	38	50	75	63	10	5	8	47
6	100	100	100	30	5	18	70	20	45	75	60	68	60	70	65	0	30	15	52
7	100	100	100	20	60	40	60	80	70	85	50	68	5	35	20	0	30	15	52
8	100	100	100	30	40	35	80	100	90	75	95	85	70	65	68	5	40	23	67
9	100	100	100	100	30	65	20	70	45	50	60	55	50	55	53	5	30	18	56
10	100	100	100	100	20	60	40	5	23	70	50	60	50	30	40	0	30	15	50
11	100	100	100	100	10	55	0	0	0	50	60	55	5	5	5	0	10	5	37
12	100	100	100	100	10	55	-	30	30	50	85	68	40	20	30	0	30	15	50
13	100	100	100	40	10	25	-	80	80	75	90	83	75	30	53	0	30	15	59
14	100	100	100	40	60	50	-	90	90	35	80	58	60	60	60	0	10	5	61
15	100	100	100	-	-	--	-	90	90	50	75	63	75	60	68	0	20	10	55
16	100	100	100	90	50	70	-	100	100	80	65	73	65	60	63	5	30	18	71
17	100	100	100	80	30	55	10	90	50	25	40	33	75	55	65	10	40	25	55
18	100	100	100	--	--	--	30	80	55	25	50	38	15	40	28	0	10	5	38
19	100	100	100	80	20	50	60	80	70	10	40	25	20	25	23	0	5	3	45
20	100	100	100	100	30	65	40	20	30	25	50	38	5	5	5	0	20	10	41
21	100	100	100	70	20	45	5	30	18	20	50	35	15	10	13	0	10	5	36
22	100	100	100	90	20	55	0	20	10	5	5	5	5	5	5	0	5	3	30
23	100	100	100	100	40	70	0	60	30	5	5	5	25	5	15	0	10	5	38
24	100	100	100	100	60	80	0	20	10	50	10	30	10	5	8	5	40	23	42
25	100	100	100	100	50	75	10	60	35	30	10	20	25	5	15	0	30	15	43
26	100	100	100	70	10	40	40	20	30	60	50	55	10	35	23	0	10	5	42
27	100	100	100	40	5	23	50	1	26	65	65	65	10	15	13	0	10	5	37
28	100	100	100	30	30	30	90	5	48	50	50	50	5	20	13	0	10	5	41
29	100	100	100	100	20	60	80	30	55	50	65	58	30	35	33	0	20	10	53
30	100	100	100	50	20	35	80	100	90	50	70	60	90	90	90	80	60	70	74
31	100	100	100	--	--	--	90	90	90	65	35	50	5	75	40	0	0	0	47
32	100	100	100	80	20	50	90	90	90	65	40	53	5	70	38	0	40	20	59

1984 UWHN (Northern Materials Section) Survival Data (%) continued:

Entry no.	Minnesota			South Dakota						North Dakota						Manitoba			Entry Mean
	St. Paul			Brookings			Highmore			Casselton			Williston			Winnipeg			
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
33	100	100	100	80	10	45	5	90	48	60	40	50	30	80	55	5	40	23	54
34	100	100	100	--	--	--	10	60	35	35	50	43	45	75	60	0	20	10	41
35	100	100	100	40	10	25	10	50	30	25	40	33	40	75	58	40	10	25	45
36	100	95	98	30	5	18	10	30	20	5	30	18	25	75	50	0	20	10	36
37	100	100	100	30	5	18	80	40	60	30	30	30	5	80	43	0	40	20	45
38	100	100	100	50	10	30	80	40	60	35	40	38	15	75	45	0	20	10	47
39	100	100	100	50	10	30	80	50	65	20	50	35	5	75	40	0	20	10	47
40	100	60	80	100	10	55	30	80	55	40	20	30	20	85	53	0	60	30	51
41	100	100	100	100	10	55	1	60	31	50	10	30	10	80	45	0	20	10	45
42	100	100	100	60	10	35	5	90	48	85	40	63	70	80	75	0	10	5	54
43	100	100	100	50	5	28	20	60	40	85	10	48	25	65	45	0	10	5	44
44	100	100	100	40	10	25	20	60	40	90	50	70	65	75	70	0	30	15	53
45	100	100	100	20	5	13	10	80	45	30	30	30	60	80	70	0	20	10	45
46	100	100	100	20	5	13	90	30	60	40	25	33	10	80	45	0	0	0	42
47	100	100	100	--	-	--	60	5	33	50	5	28	60	80	70	0	5	3	39
48	100	100	100	10	5	8	50	90	70	90	60	75	45	95	70	0	30	15	56
49	100	80	90	60	30	45	100	10	55	90	60	75	5	80	43	0	10	5	52
50	100	90	95	--	--	--	100	5	53	50	80	65	5	80	43	0	0	0	43
51	100	90	95	10	10	10	60	0	30	10	25	18	5	45	25	0	0	0	30
52	100	100	100	40	20	30	50	5	28	50	35	43	5	75	40	0	5	3	41
53	100	100	100	60	10	35	70	50	60	60	60	60	25	80	53	40	50	45	59
54	100	100	100	80	5	43	70	60	65	65	75	70	70	75	73	10	30	20	62
55	100	100	100	100	70	85	70	60	65	70	40	55	70	75	73	0	5	3	64
56	100	100	100	80	60	70	90	60	75	90	70	80	70	75	73	30	50	40	73
57	100	100	100	90	60	75	60	50	55	80	85	83	55	70	63	0	30	15	65
58	100	100	100	100	40	70	50	60	55	70	90	80	60	75	68	0	10	5	63
59	100	100	100	50	5	28	30	80	55	50	85	68	20	60	40	5	5	5	49
60	90	100	95	10	20	15	30	80	55	65	80	73	75	80	78	0	30	15	55
61	100	100	100	20	10	15	20	90	55	85	70	78	65	75	70	0	5	3	54
62	100	100	100	50	5	28	60	80	70	85	80	83	35	70	53	10	5	8	57
63	100	100	100	0	20	10	80	80	80	95	90	93	80	90	85	60	30	45	69
64	100	100	100	30	20	25	90	90	90	75	60	68	85	85	85	50	50	50	70
65	100	100	100	70	10	40	100	100	100	50	70	60	80	85	83	80	50	65	75

1984 UWHN (Northern Materials Section) Survival Data (%) continued:

Entry no.	Minnesota			South Dakota						North Dakota						Manitoba			Entry Mean
	St. Paul			Brookings			Highmore			Casselton			Williston			Winnipeg			
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
66	100	100	100	0	5	3	100	100	100	90	80	85	90	90	90	0	0	0	63
67	100	100	100	60	5	33	100	100	100	95	85	90	80	85	83	30	30	30	73
68	100	100	100	40	10	25	100	90	95	95	95	95	90	85	88	30	30	30	72
69	100	100	100	100	20	60	100	90	95	75	95	85	80	85	83	40	30	35	76
70	100	50	75	10	20	15	50	90	70	50	85	68	75	80	78	0	0	0	51
71	100	100	100	20	40	30	70	60	65	50	50	50	80	65	73	0	0	0	53
72	100	50	75	100	50	75	40	60	50	30	45	38	15	5	10	0	0	0	41
73	90	95	93	90	60	75	90	70	80	50	60	55	50	0	25	5	0	3	55
74	100	40	70	70	80	75	70	40	55	50	60	55	25	0	13	0	0	0	45
75	100	90	95	30	10	20	50	40	45	75	65	70	85	25	55	0	0	0	48
76	100	40	70	70	40	55	50	5	28	60	35	48	65	5	35	0	0	0	39
77	100	100	100	40	10	25	5	50	28	60	35	48	10	5	8	0	0	0	35
78	95	60	78	20	10	15	0	80	40	50	60	55	15	5	10	0	0	0	33
79	100	40	70	0	30	15	10	90	50	60	75	68	5	5	5	0	0	0	35
80	100	90	95	90	30	60	10	80	45	85	80	83	5	15	10	0	5	3	49
81	100	60	80	20	30	25	60	90	75	50	50	50	15	30	23	0	20	10	44
82	100	70	85	0	40	20	60	40	50	50	50	50	20	55	38	0	5	3	41
83	100	70	85	30	5	18	60	80	70	50	40	45	50	75	63	0	5	3	47
84	100	100	100	0	5	3	50	30	40	80	60	70	30	40	35	0	5	3	42
85	90	100	95	10	40	25	10	30	20	80	40	60	35	75	55	0	0	0	43
86	100	100	100	20	30	25	60	60	60	90	40	65	25	75	50	0	0	0	50
87	100	100	100	20	20	20	30	20	25	20	10	15	35	80	58	5	0	3	37
88	100	50	75	90	30	60	30	90	60	40	25	33	35	75	55	20	0	10	49
89	100	30	65	50	70	60	50	70	60	50	40	45	1	70	36	10	5	8	46
90	100	100	100	80	50	65	90	90	90	90	65	78	80	85	83	20	40	30	74
91	100	100	100	5	30	18	20	70	45	50	65	58	75	80	78	20	10	15	52
92	100	100	100	10	20	15	20	50	35	70	50	60	10	70	40	0	0	0	42
93	100	100	100	10	30	20	40	60	50	70	10	40	30	80	55	0	0	0	44
94	100	20	60	20	20	20	20	60	40	50	50	50	25	80	53	0	0	0	37
95	90	10	50	0	30	15	10	80	45	25	60	43	10	65	38	0	0	0	32

1984 UWHN (Northern Materials Section) Survival Data (%) concluded:

Entry no.	Minnesota			South Dakota						North Dakota						Manitoba			Entry Mean
	St. Paul			Brookings			Highmore			Casselton			Williston			Winnipeg			
	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	Rep 1	Rep 2	Mean	
96	100	100	100	40	5	23	100	100	100	85	80	83	80	80	80	90	60	75	77
97	100	100	100	70	60	65	40	30	35	50	60	55	60	30	45	0	0	0	50
98	100	100	100	0	90	45	50	20	35	65	50	58	5	5	5	0	0	0	41
99	100	100	100	70	90	80	60	20	40	40	25	33	10	10	10	0	0	0	44
100	90	60	75	70	70	70	80	80	80	20	20	20	65	70	68	0	0	0	52
101	100	95	98	40	40	40	60	50	55	15	15	15	65	40	53	0	5	3	44
102	100	100	100	5	40	23	60	20	40	10	50	30	80	65	73	0	0	0	44
103	100	95	98	50	30	40	90	80	85	20	35	28	90	75	83	0	5	3	56
Rep mean	99	92		50	26		50	56		55	51		41	57		8	17		
Location mean		96			38			53			53			49			13		

Grand total = 61,466

1984
SOILBORNE MOSAIC NURSERY

Entry no.	Variety or Pedigree	C.I. or Sel. No.	Source
1	Pawnee	11669	Check
2	Plainsman V//2*Larned/Eagle//Sage	KS82H4	Kansas
3	KS73H530//Sage/Arthur	KS82H116	"
4	"	KS82H136	"
5	"	KS82H144	"
6	"	KS82H147	"
7	"	KS82H156	"
8	"	KS82H209	"
9	"	KS82H212	"
10	Concho	12517	Check
11	David/2*Cheney	KS82H255	Kansas
12	"	KS82H255-4	"
13	Pm4/3*Cheney/3/Olsen's dwf/2*Eagle//Pn/Durum	KS82H238-1	"
14	"	KS82H238-2	"
15	"	KS82H238-3	"
16	KS73H530//Pn/Durum	KS82H68-1	"
17	"	KS82H68-2	"
18	"	KS82H68-3	"
19	Sdy sib/Tmp//Ctk	TX71A562-6-28	Texas
20	Bison	12518	Check
21	TX71A562-6*4/Amigo	TX80GH2973	Texas
22	"	TX80GH3006	"
23	"	TX80GH3132	"
24	"	TX80GH3134	"
25	"	TX80GH3286	"
26	"	TX80GH3292	"
27	"	TX80GH3294	"
28	"	TX80GH3321	"
29	Bounty 100	--	Cargill
30	Pawnee	11669	Check
31	Bounty 201	--	Cargill
32	Bounty 202	--	"
33	Bounty 203	--	"
34	Bounty 301	--	"
35	Bounty 310	--	"
36	Bison	12518	Check
37	Pv/3/SD69105//Kaw/Atl 50	KS831022	Kansas
38	Pv/KS75253	KS831132	"
39	Pv/Lnd	KS831186	"
40	Concho	12517	Check
41	Nwt/3/Sdy//Atl 50/Kaw	KS831284	Kansas
42	Nwt/4/Pkr*4/Ag/3/Sdy//Atl 50/Kaw	KS831289	"
43	Pv//Nwt/Purdue Hi Pro	KS831657	"
44	Nwt/Pv	KS832250	"
45	Pv//Crc/Purdue Hi Pro	KS831440	"

1984 Soilborne Mosaic Nursery (continued):

Entry no.	Variety or Pedigree	C. I. or Sel. No.	Source
46	Pv/Odk 51	KS831957	Kansas
47	Nwt/3/Pkr*4/Ag//Kaw/At1 50	KS831004	"
48	KS73167//SD69105/Eg1	KS831012	"
49	"	KS831013	"
50	Bison	12518	Check
51	Hsd/SD69104	KS831014	Kansas
52	Pv/3/SD69104//Kaw/At1 50	KS831023	"
53	"	KS831024	"
54	"	KS831026	"
55	KS73159/Pv	KS831030	"
56	"	KS831031	"
57	"	KS831033	"
58	"	KS831034	"
59	"	KS831036	"
60	Pawnee	11669	Check
61	KS73159/Pv	KS831041	Kansas
62	"	KS831047	"
63	"	KS831052	"
64	"	KS831057	"
65	Pv//Crc/Purdue Hi Pro	KS831069	"
66	Pv/Nwt	KS831119	"
67	"	KS831121	"
68	Pv/KS73253	KS831126	"
69	"	KS831143	"
70	Concho	12517	Check
71	Pv/KS73253	KS831144	Kansas
72	Pv/Wings	KS831172	"
73	"	KS831173	"
74	"	KS831177	"
75	Pv/Ldn	KS831180	"
76	"	KS831182	"
77	"	KS831187	"
78	Nwt/3/Pkr*5/Ag//At1 50	KS831203	"
79	KS73253/Pv	KS831226	"
80	Bison	12518	Check
81	Pv/SD69105//Hsd	KS831241	Kansas
82	Nwt/3/Sdy//At1 50/Kaw	KS831280	"
83	Nwt/3/Pkr4*/Ag//Kaw/At1 50	KS831288	"
84	Pv/4/Nm10/2*Pn//Dt/3/Sum	KS831328	"
85	Pv/3/Kaw/At1 50//Pkr*5/Ag	KS831374	"
86	Pv//Crc/Purdue Hi Pro	KS831441	"
87	Pv/TAM W-101	KS831683	"
88	"	KS831739	"
89	Pv/Lnd	KS831740	"
90	Pawnee	11669	Check
91	Pv/Lnd	KS831748	Kansas
92	"	KS831762	"

1984 Soilborne Mosaic Nursery (concluded):

Entry no.	Variety or Pedigree	C. I. or Sel. No.	Source
93	Bison	12518	Check
94	Pv/3/Kaw/Atl 50//2*Egl	KS831840	Kansas
95	"	KS831862	"
96	Pv/Odk 51	KS831936	"
97	"	KS831943	"
98	"	KS831947	"
99	"	KS831979	"
100	Concho	12517	Check
101	Brule	466739	Nebraska
102	Centura	476974	"
103	(Wrr*5/Agent)*2/Kavkaz	NE78668	"
104	Colt	476975	"
105	Lovrin 13/2*Ctk 78	NE80413	"
106	(Complex Cross)	NE81536	"
107	Pkr*4/Agt/3/Belot.198//Lcr/Mir. Jub. 50	NE81554	"
108	"	NE81555	"
109	(Complex Cross)	NE82414	"
110	Bison	12518	Check
111	Tpr//Cmn/Ot//KS73258/Buckskin sib/ Homestead	NE82419	Nebraska
112	(Complex Cross)	NE82559	"
113	Brule//Sentinel/Ctk	NE82651	"
114	"	NE82652	"
115	Purple Seed//Red Coat/Capitan	NE82702	"
116	Pawnee	11669	Check

1984

SOILBORNE MOSAIC NURSERY

Field Disease Data

Entry no.	Lincoln, NE Infection type (0-5)* Rep 1	Rep 2	Mean	Manhattan, KS Reaction type† Rep 1	Rep 2	Urbana, IL Reaction type† Rep 1	Rep 2
1	3	3	3	S	S	VS	VS
2	0	2.5	1.25	R	R	R	MR
3	0	1	0.5	R	R	MR-MS	MR-MS
4	0	1.5	0.75	R	R	MS	MS
5	0	1.5	0.75	R	R	MS	MS
6	0	2	1	R	R	MS	MS
7	0	2.5	1.25	R	R	MS	MS
8	0	1.5	0.75	R	R	MS	MS
9	0	1.5	0.75	R	R	MS	MR-MS
10	1	2	1.5	R	R	VR	VR
11	1	2	1.5	R	R	VR	VR
12	1	2	1.5	R	R	VR	VR
13	1	0.5	0.75	R	R	MR	MS
14	0	1.5	0.75	R	R	MS	MS
15	1.5	1.5	1.5	R	R	MR	MR
16	0	2	1	R	R	MR	MR-MS
17	0.5	2.5	1.5	R	R	MR	MR
18	1	2.5	1.75	R	R	MS	MS
19	1	2.5	1.75	R	R	R	R
20	3	3	3	S	S	Ros	Ros
21	3	3	3	VS	S	VS	VS
22	3	3	3	VS	S	VS	VS
23	3	3	3	VS	S	VS	VS
24	3	3	3	VS	S	VS	VS
25	3	3	3	S	S	VS	VS
26	3	3	3	S	S	VS	VS
27	3	3	3	S	S	VS	VS
28	3	3	3	S	S	Ros	Ros
29	3	3	3	S	S	VS	VS
30	3	3	3	S	S	VS	VS
31	1	2.5	1.75	R	R	VS	VS
32	2	2	2	R	R	S	S
33	2.5	2.5	2.5	MR	R	S	S
34	2.5	3	2.75	S	S	S	S
35	2.5	3	2.75	MS	MS	S	S
36	3	3	3	S	S	Ros	Ros
37	1.5	1	1.25	R	R	VR	R
38	1	1.5	1.25	R	R	VR	VR
39	2	1.5	1.75	R	R	MR	MR
40	1.5	1.5	1.5	R	R	VR	VR
41	3	2.5	2.75	R	R	VR	VR
42	3	2.5	2.75	R	R	MR	MR-MS
43	3	2.5	2.75	R	R	WK	WK
44	2.5	2	2.25	R	R	R	R-MR
45	2.5	2.5	2.5	R	R	MR-MS	MR-MS

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*Infection type: 0=resistant to 5=susceptible.

†Reaction type: VR=very resistant; R=resistant; MR=moderately resistant; MS=moderately susceptible; S=susceptible; VS=very susceptible; Ros=rosetting; and WK=winterkill.

Field Disease Data
1984 Soilborne Mosaic Nursery (continued):

Entry no.	Lincoln, NE Infection type (0-5) Rep 1	Rep 2	Mean	Manhattan, KS Reaction type Rep 1	Rep 2	Urbana, IL Reaction type Rep 1	Rep 2
46	2	2.5	2.25	R	R	VR	VR
47	1.5	2.5	2	R	R	MS	MS
48	2.5	3	2.75	R	R	WK	WK
49	2.5	2.5	2.5	R	R	R-MR	MR
50	3	3	3	MS	MS	Ros	Ros
51	2.5	2.5	2.5	R	R	VR	VR
52	2	2.5	2.25	R	R	MS	MS
53	2	1.5	1.75	R	R	R-MR	R-MR
54	3	2	2.5	R	R	R	MR
55	3	2	2.5	R	R	VR	VR
56	2.5	2	2.25	R	R	VR	VR
57	3	2	2.5	R	R	R	R
58	3	2	2.5	R	R	R	R
59	3	2	2.5	R	R	VR	VR
60	3	2.5	2.75	S	S	VS	VS
61	3	2	2.5	R	R	R	R
62	3	2.5	2.75	R	R	R	R
63	3	1.5	2.25	R	R	VR	VR
64	2.5	1.5	2	R	R	R-MR	R
65	2.5	1	1.75	R	R	VR	VR
66	2.5	1.5	2	R	R	R	R
67	2.5	2	2.25	R	R	R	R
68	2.5	2	2.25	R	R	VR	VR
69	3	2	2.5	R	R	MR	MR-MS
70	3	2	2.5	R	R	VR	VR
71	2.5	1.5	2	R	R	VR	VR
72	3	2	2.5	R	R	R	R
73	3	0.5	1.75	R	R	MR-MS	MR-MS
74	2.5	1.5	2	R	R	R	VR
75	2.5	2	2.25	R	R	R	VR
76	2.5	2	2.25	R	R	MR	R
77	2.5	1.5	2	R	R	VR	VR
78	2.5	2	2.25	R	R	MS	MS
79	2.5	1	1.75	R	R	MS	MR-MS
80	3	3	3	S	MS	Ros	Ros
81	2.5	1.5	2	R	R	R	VR
82	2.5	1.5	2	R	R	S	MS
83	3	1.5	2.25	R	R	MR	R
84	2.5	1.5	2	R	R	R-MR	R-MR
85	1	1.5	1.25	R	R	MR-MS	MR-MS
86	1.5	2	1.75	R	R	VR	VR
87	2	1.5	1.75	R	R	S	MS
88	2	2	2	R	R	VR	VR
89	1.5	2	1.75	R	R	R	R
90	3	3	3	S	S	VS	VS

Field Disease Data
1984 Soilborne Mosaic Nursery (concluded):

Entry no.	Lincoln, NE Infection type (0-5) Rep 1	Rep 2	Mean	Manhattan, KS Reaction type Rep 1	Rep 2	Urbana, IL Reaction type Rep 1	Rep 2
91	3	3	3	S	S	VS	VS
92	2	2	2	R	R	VR	VR
93	2.5	1.5	2	R	R	MR	R-MR
94	2	1	1.5	R	R	MR	R-MR
95	2.5	2	2.25	R	R	MS	MR-MS
96	1	2	1.5	R	R	MR	R
97	1	1.5	1.25	R	R	MR	R
98	2	1.5	1.75	R	R	VR	VR
99	2.5	2	2.25	R	R	R	VR
100	2.5	2	2.25	R	R	VR	R
101	2.5	3	2.75	R/S‡§	S	VS	VS
102	3	3	3	R/S	S	VS	VS
103	3	3	3	S	MS	VS	VS
104	3	3	3	S	MS	VS	VS
105	2.5	1.5	2	R	R	MS	MS
106	2.5	1	1.75	R	R	MS	MS
107	2.5	3	2.75	MS	-	VS	VS
108	3	3	3	MS	-	VS	VS
109	3.5	3	3.25	S	S	VS	VS
110	3	3	3	MS	MS	Ros	Ros
111	3	3	3	R-S#	MS	VS	VS
112	2	2	2	R	R	S	MS
113	2.5	3	2.75	MS	S	VS	VS
114	3	3	3	R/S	S	VS	VS
115	1.5	2	1.75	R	R	MR	MR
116	3	3	3	S	S	VS	VS

‡ / Slash indicates 2 reaction types.
§ _ Underline indicates major reaction type observed.
# - Dash indicates range of reaction types when between two reaction types.