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EC04-103 Fall Seed Guide, 2004

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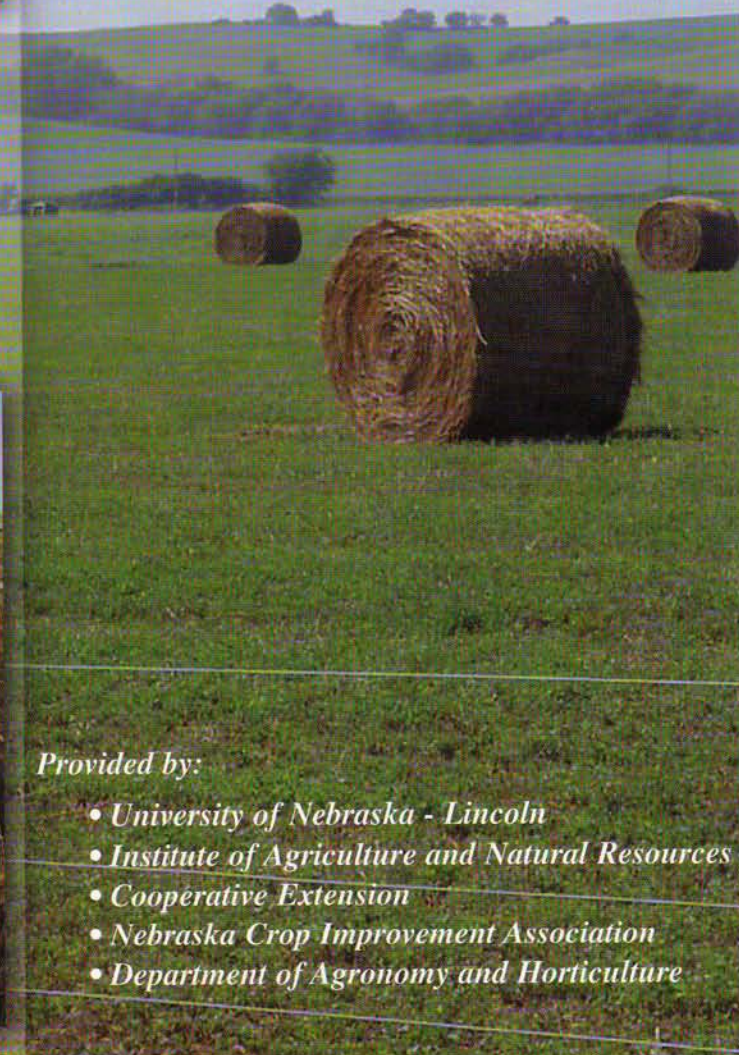
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Fall

SEED GUIDE 2004



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Nebraska SEED GUIDE 2004

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WELCOME TO THE 2004 FALL SEED GUIDE

We want to welcome all readers of the 2004 Fall Seed Guide. This will be the first time you have seen our wheat variety test results in this format although we used this format last winter for several of the spring planted crops. Some of you will receive this through the mail, from your local County Extension office, or a seed dealer. We appreciate the support of many advertisers who have helped defray the cost of presenting this information.

This guide contains several crops including winter wheat, alfalfa, winter barley, triticale, and oats. The various colors of the tables will be your guide for finding the various crops. We hope you find this guide useful in making variety decisions for the coming crop. If you have comments, you can send them to LNELSON1@unl.edu.

Lenis A. Nelson
Professor of Agronomy

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EXTENSION CIRCULAR 04-103

NEBRASKA FALL-SOWN SMALL GRAIN

VARIETY TESTS

August 2004

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Special acknowledgment is made to farmer cooperators who furnished land for experiments; also to Extension Educators and others who assisted with the tests.

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We would like to thank the Nebraska Wheat Board for contributing wheat check-off money and the Nebraska Agricultural Statistics Service for compiling data on varieties and production of wheat. We acknowledge the High Plains Climate Center at the University of Nebraska-Lincoln for assistance in preparing the climate data and providing climate information for this study.

NEBRASKA WINTER WHEAT PRODUCTION

Year	<u>Planted</u> 000 acres (hectares)	<u>Harvested</u> 000 acres (hectares)	<u>Average</u> yield bu/a (kg/ha)
1980	3000 (1215)	2850 (1154)	38.0 (2556)
1985	2600 (1053)	2300 (932)	39.0 (2623)
1990	2400 (975)	2250 (911)	38.0 (2556)
1991	2350 (952)	2000 (810)	32.0 (2152)
1992	2350 (952)	1950 (790)	31.0 (2085)
1993	2350 (952)	2100 (851)	35.0 (2354)
1994	2200 (891)	2100 (851)	34.0 (2287)
1995	2150 (870)	2100 (851)	41.0 (2758)
1996	2300 (932)	2100 (851)	35.0 (2354)
1997	2000 (809)	1900 (769)	37.0 (2489)
1998	1900 (769)	1800 (729)	46.0 (3093)
1999	2000 (809)	1800 (729)	48.0 (3228)
2000	1750 (709)	1650 (668)	36.0 (2421)
2001	1800 (728)	1700 (688)	39.0 (2623)
2002	1650 (668)	1520 (615)	32.0 (2152)
2003	1900 (770)	1820 (737)	46.0 (3093)
2004*	1900 (770)	1800 (728)	32.0 (2152)

*August 1 estimate.

METRIC EQUIVALENTS

1 centimeter = 0.394 inches	cm = inches x 2.54
1 hectare = 2.471 acres	ha = acres x 0.405
1 kilogram = 2.205 pounds	kg = pounds x 0.454
1 hectoliter = 2.838 bushels	hl = bushels x 0.35
Kilogram/hectoliter = lb/bu x 1.287	
Kilogram/hectare = bu/A x 53.81 (48# bushel)	
Kilogram/hectare = bu/A x 67.26 (60# bushel)	

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NEBRASKA FALL-SOWN SMALL GRAIN VARIETY TESTS 2004

The 2004 estimated winter wheat yield for Nebraska was 32 bushels per acre from 1,800,000 harvested acres. The total production of winter wheat for the state was 57,600,000 bushels. This is much lower than the 2003 production of 83,720,000 bushels. July rains delayed harvest and caused some sprouting damage.

This circular reports data from winter wheat trials conducted throughout Nebraska. Entries included varieties and promising experimental strains from Nebraska and surrounding states and private breeders. This was the twenty third year for privately developed varieties. The state has been divided into four districts for purposes of variety testing. Locations of the 2004 variety tests are shown on the map on page 10.

Trials were located on Research Centers and private farms. Names of cooperators, dates of planting and harvest are shown in Table A. Soil type, soil test data, and fertilizer applications are shown in Table B. Plot sizes varied with location. Nursery-type plots six rows wide and 15 to 35 feet long were planted at other locations. All tests were direct combined. Entries were replicated 3 to 6 times.

Winter Wheat Performance

Yielding ability of different varieties cannot be measured with absolute accuracy because of variations in soil fertility, moisture, and other factors. For this reason, small differences in yield have no significance. Unless the difference in yield of two varieties is greater than the difference required for significance shown in the tables, little confidence can be placed in the superiority of the one over the other in that particular test. These differences are shown at the 5% level, meaning that differences as large or larger could be expected through chance alone in 1 of 20 trials (5%). Even though two varieties are not statistically different, there may be other factors which influence the choice of one over the other.

Such factors as their ability to complement other varieties, disease resistance, or availability of seed may influence that decision. Complementary varieties are important when selecting additional varieties to grow on your farm. One definition of complementary varieties is that they come from diverse parentages. A more in depth discussion of variety complementation is found on page 47. In order to help select varieties with diverse parentages, the related families of many varieties are included in the characteristics chart (table C).

There were three trials conducted in the Southeast district, Saline, Lancaster and Saunders County.

The Saline County test was planted October 10th into soybean residue. This test was lightly disced to level the field. 100 lbs of 11-52-0 was put on after planting. In March 100 lbs of N as 28% was put on. In April 75 lbs of 2,4-D was used to control mustard and penny cress. Harvest was delayed by rain which caused some lodging. Hail and frost damage was light. Powdery mildew and leaf rust were disease problems in the plot. This test was harvested July 13th and averaged 55 bushels per acre.

The Lancaster County test was planted September 23rd with 50 entries. 60 lbs of N was applied before planting. High fertility caused severe lodging at this test. Harvest was delayed by rain and this test averaged 71 bushels per acre.

The Saunders County test was planted September 25th. 60 lbs of N was applied as 28%. Wheat Streak Mosaic hurt yields. This test was harvested July 12th and averaged 42 bushels per acre.

The one trial in South Central Nebraska was in Clay County. The Clay County plot was located at the South Central Ag Lab, Clay Center. The soil type was a Crete Silt Loam that was fallow in 2003 and corn in 2002. Field preparation: disked once then field cultivated before planting. Had good moisture at planting and throughout the growing season. Heavy rains on July 2nd delayed harvest and high winds on July 8th caused severe lodging. The 50 varieties were planted on September 22nd at a rate of 75 lbs/acre. Wheat was harvested on July 20th and averaged 82 bushels per acre.

Five trials were conducted in the West Central district. These were located in Keith, Furnas, Hitchcock, Perkins and Lincoln County.

The Keith County test was planted September 12th at 60lbs per acre. 45 lbs of Nitrogen was applied to this test. Herbicide applied was 0.14 oz Amber + 8 oz 2,4-D 6LVE. Test was harvested July 7th and averaged 60.8 bushels per acre.

The Furnas County test was planted September 24th and was no-tilled into corn stubble. Soil was dry at planting and stayed dry till early June. Fertilizer: 50lbs N. Herbicide: 3 Oz Peak + 0.33 pt 2,4-D LV6. This plot was harvested July 8th and averaged 6 bushels per acre.

The Hitchcock County test was planted September 17th with good soil moisture. Starter was applied in furrow (60lbs 11-52-0) with total fertilizer being 82lbs N and 71lbs P. Herbicide: .56 oz Amber applied in the fall. This test was very dry till early June and suffered some frost damage on May 14th. This test averaged 35 bushels per acre and was harvested June 28th.

The Lincoln County test was planted September 22nd no-till into fallow. Fertilizer: 60 lb N as 32-0-0 in fall. Herbicide: 0.28 oz Amber. Good moisture at planting but dry for most of the season. This test was harvested July 9th and averaged 67 bushels per acre.

The Perkins County test was planted September 23rd conventional till into fallow. Fertilizer: 32lbs N, 5lbs K, 6.3lbs S and .3lbs Zn. Herbicide: .28 oz Amber, 3 oz Warrior. Conditions were very dry until early June and suffered some frost damage May 14th. This test was harvested July 21st and averaged 39 bushels per acre.

Ten locations were planted in the Panhandle. There were seven dryland sites, two irrigated and one irrigated organic.

The Cheyenne County Fallow test was planted September 13th with 58 entries in the test. Starter fertilizer was used with 8 lbs of N and 28 lbs of P being applied. 50 lbs of N was put on before planting as anhydrous. Good moisture at planting but drought over the winter and spring put a lot of stress on the wheat. June rains and cool weather helped to make an average crop. This test was harvested July 14th and averaged 38 bushels per acre.

Deuel Co. dryland was planted September 15th and had 58 entries. Conditions at planting were good. Starter was used at planting with 8 lbs of N and 28 lbs P being applied. 2,4-D and Amber were used for weed control. Test weights were reduced somewhat by rain before harvest. This test was harvested July 12th and averaged 45 bushels per acre.

The Morrill County test was planted September 13th and had 8 lbs of N and 28 lbs of P applied as starter. This test received timely rains in the fall and went into the winter in good shape. A mild winter kept the crop in good condition and more timely rains in the spring and summer produced good yields. This test was harvested July 8th and averaged 59 bushels per acre.

Dawes County was planted September 22nd into wet soil conditions. The drought returned until June and a July hail storm destroyed the test.

Cheyenne Co. no-till was planted September 24th. This plot was planted into a continuous cropped field. Due to extreme drought there was no subsoil moisture. There was no emergence in the fall and some plants died after sprouting. A mild winter help to keep the plot going. Maturity was delayed and the June rains and cool weather allowed some varieties to make some wheat. This test was harvested July 26th and averaged 13 bushels per acre.

The State Line trial was planted September 16th into fallow ground with 58 entries. Fertilizer: 30-15-0 and 7.5 lbs of Sulfur. No herbicide was used on this test and jointed goatgrass was a problem. This test was harvested July 13th and averaged 27 bushels per acre.

The Box Butte County test was planted September 9th with dry powdery conditions. Fertilizer: 50-30-0. Herbicide: Ally + 2,4-D. This test only received about 4 inches of rain during the growing season. This test was harvested July 20th and averaged 52 bushels per acre.

The Cheyenne County irrigated test was planted September 20th after dry bean harvest. 50 lbs of N, 50 lbs of P and 50 lbs of sulphomag were preplant broadcast. 60 lbs of N was applied through the sprinkler. Cool weather in June helped to make some outstanding yields. This test was harvested July 19th and averaged 101 bushels per acre.

The Albin Wyoming Irrigated test was planted September 22nd after dry bean harvest. Fertilizer: 120-20-0 + 15 lbs of sulfur. Rains delayed harvest till July 29th.

The Cheyenne County Irrigate Organic test was planted October 4th after dry bean harvest. Stands were reduced and tillering was poor because of the late planting date. Availability of organic nitrogen and phosphorous can be a problem. 6 oz of Vitazyme was applied. This test was harvested July 20th and averaged 40 bushels per acre.

Protein and seed size data were collected from two replicates of each location. The seed size data are reported as thousands of seeds per pound. Thus, a larger number represents smaller seed size. The protein data were combined within each district and reported in the district tables. They are also summarized on page 26. Protein was determined from whole grain using a N00ar Infrared Spectrometer. The protein analysis was done by the Soil and Plant Analysis Lab at the University of Nebraska.

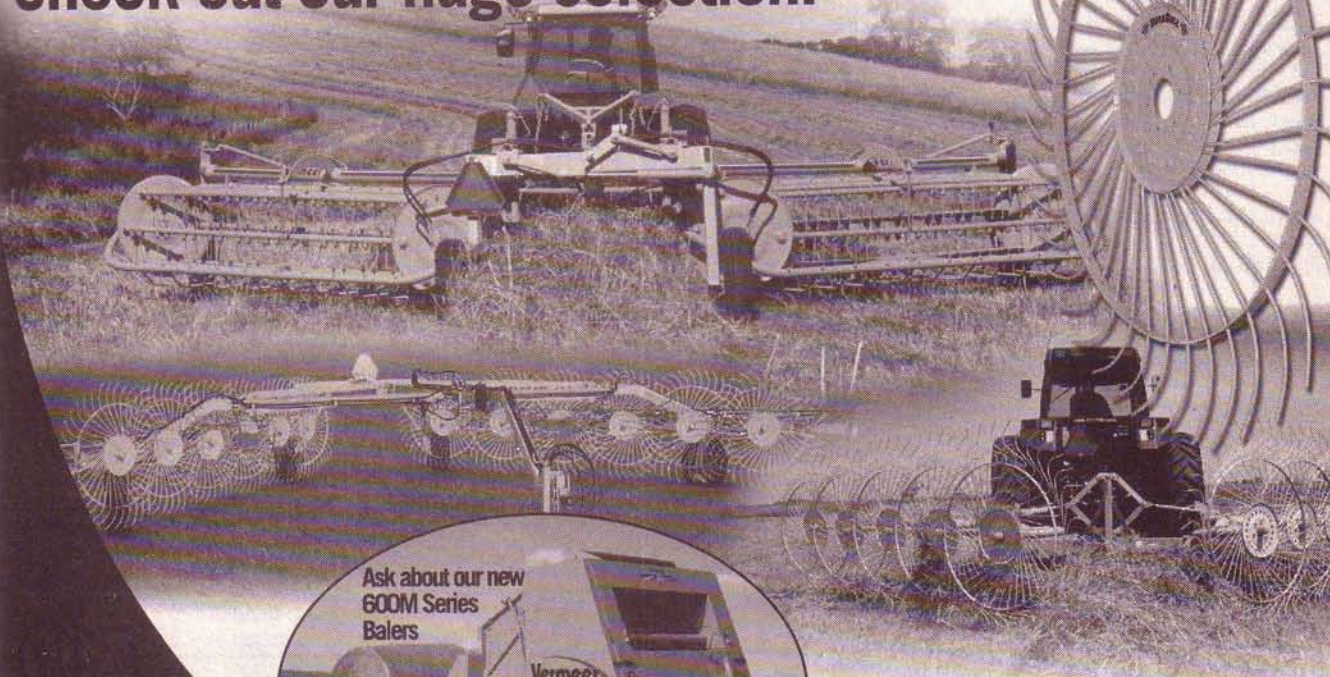
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Table A. Nebraska winter wheat variety tests 2004

County	Cooperator	Planted	Harvested
Saline	Steve Wiese, Wilber	Oct 10	July 13
Saunders	Agricultural Res & Dev Center	Sept. 25	July 12
Lancaster	UNL Havelock Farm	Sept. 23	July 12
Clay	South Central Res & Ext Center	Sept. 22	July 20
Keith	Jim Welsh & Larry Chandler, Brule	Sept. 12	July 7
Furnas	Dennis Gardner, Edison	Sept. 24	July 8
Hitchcock	Mike Baker, Trenton	Sept. 17	June 28
Lincoln	West Central Res & Ext Center	Sept. 22	July 9
Perkins	John Culver, Elsie	Sept. 23	July 21
Cheyenne	High Plains Ag Lab	Sept. 13	July 14
Deuel	Terry Akeson, Chappell	Sept. 15	July 12
State Line	Lou & Marti Hubbs, Hawk Springs	Sept. 16	July 8
Dawes	Cliff Logan, Chadron	Sept. 22	*
Box Butte	Chris Cullan, Alliance	Sept. 9	July 20
Cheyenne No till	High Plains Ag Lab	Sept. 24	July 26
Morrill	Lamond Lessman, Dalton	Sept. 13	July 8
Cheyenne Irrigated	Russ Rushman, Gurley	Sept. 20	July 19
Albin WY, Irrigated	Faron Anderson, Alvin	Sept. 22	July 29
Cheyenne Organic	Larry Glassburn, Sidney	Oct. 4	July 20

* Not harvested

Privately developed winter wheats were included in these trials. Entries were on a voluntary basis. A fee was charged to pay a portion of the testing costs. Entries and areas were selected by the seed producer.

The following made entries as indicated:

AgriPro Seeds Inc. Platte, Thunderbolt, Dumas,
6515 Ascher Road Jagalene, AP 502CL, Tam III
Junction City, KS 66441 W96-1311-01, W99-194

General Mills Operations Inc. NuFrontier, NuHorizon, NuHills
P.O. Box 5022
Great Falls, MT 59403

NuPride Genetics Network Empire
P.O. Box 83091
Lincoln, NE 68583

The entrant should be contacted for information on seed availability, adaptation and agronomic characteristics.

Table B. Soil series, previous crop, and fertilizers applied. Nebraska Winter Wheat Variety Tests - 2004.

County	Soil Type	2003 Crop	pH	Nitrate lbs/a	P ppm	Organic matter %	N + P2O5 + K lbs/a
Saline	Crete silt loam	Soybeans	6.3	79.0	88	2.6	108-52-0
Saunders	Sharpsburg silty clay loam	Oats	---	---	---	---	60-0-0
Lancaster	Crete silt loam	Oats	---	---	---	---	60-0-0
Clay	Crete silt loam	Fallow	6.4	98.0	17.0	2.7	48-40-0
Keith	Duroc silt loam	Fallow	6.2	203.0	30.8	2.1	45-0-0
Hitchcock	Keith silt loam	Fallow	6.8	127.0	16.2	1.9	82-71-0
Furnas	Holdrege silt loam	Corn	6.0	---	39.0	1.7	50-0-0
Lincoln	Hall silt loam	Fallow	5.2	433.0	55.8	2.0	60-0-0
Perkins	Kuma silt loam	Fallow	6.1	121.0	37.8	1.9	32-0-5 + S, ZN
Cheyenne	Keith silt loam	Fallow	6.1	371.0	45.0	2.5	58-28-0
Deuel	Keith/Richfield silt loam	Fallow	6.6	129.0	38.0	1.6	8-28-0
Dawes	Richfield silt loam	Fallow	6.8	177.0	19.0	1.6	8-28-0
Morrill	Tripp very fine sandy loam	Fallow	6.3	140.0	28.0	1.5	8-28-0
State Line	----	Fallow	---	---	---	---	30-15-0 + S
Box Butte	Rosebud loam	Fallow	---	---	---	---	50-30-0
Cheyenne No till	Alliance loam	Proso Millet	6.6	154.0	33.0	2.4	50-24-0
Cheyenne Organic	Sandy loam	Dry Beans	7.0	37.0	31.0	1.6	6 oz vitazyme
Albin WY Irrigated	----	Dry Beans	---	---	---	---	120-20-0 + S
Cheyenne Irrigated	Kuma loam	Dry Beans	7.1	49.0	27.0	1.9	110-50-0

Winter Wheat Variety Characteristics

Variety*	Origin	Family Most Closely Related To:	Agronomic Characteristics					Reactions					Grain Quality	
			Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Hessian Fly	Leaf Rust	Stem Rust	Soil Borne Mosaic	Wheat Streak Mosaic	Bushel Weight	Protein Content
2037	KS	2163	2	4	5	3	3	5	3	2	5	2	6	9
2145	KS	Ale			6	2	2	3	3		5	4	4	3
Alone (HR)	CO	TAM 110	1	3	6	7		1	1	5	1	3	5	7
Alliance	NE	Chisholm	3	2	4	6	2	4	1	4	1	2	6	9
Amor (AR)	CO	TAM 107, Hail	3	3	5	4	4	1	1	3	1	1	5	6
Antelope (W)	ARS-NE	Arlin, Pronghorn	3	4	5	3	5	1	2	5	1	1	5	5
AP502CL (HR)	ASI	TAM 110	2	3	5	2	3		1	4	2	3	5	3
Arapahoe	NE	Brule	4	4	3	7	2	4	3	5	3	1	6	3
Arrowsmith (W)	ARS-NE	Arapahoe	4	4	5	7	7	1	4	4	1	1	4	4
Ausanche (W)	CO	Rio Blanco		3	5	3	1		1				4	5
Buckskin	NE	Scout	3	2	3	9	9	4	1	2	4	2	4	3
Curver	NE	Arapahoe	4	3	4	6	2	1	3	4	1	1	7	6
Dumas	ASI		3		6	3							4	5
Empire	NE	Brule	5	3	4	7	3	4	3	3	1	1	6	5
Goodstreak	NE	Colt	3	3	4	8	8	4	2	4	1	1	2	4
Halt (AR)	CO	TAM 107	2	3	5	2	4	1	1	3	1	1	6	2
Harry	NE	Arapahoe, Brule	4	3	4	3	2	4	3	3	1	1	6	6
Jagatene	ASI	Jagger, Abilene	3	4	6	2	3		5	5	5	3	2	3
Jagger	KS	Karl	1	1	5	3	3	1	4	4	5	3	5	2
Lakin (W)	KS	Arlin	4	4	5	6	2	1	1		1	2	5	5
Millennium	NE	Abilene, Arapahoe	4	3	5	7	3	5	2	4	1	1	3	5
Niobrara	NE	TAM 107, Brule	4	4	4	7	4	1	2	4	1	2	6	7
Nu Frontier (W)	GM		3	3	6	6	4					3	2	5
Nu Horizon (W)	GM		4	3	5	1	4					3	4	5
Nuplains (W)	NE	Abilene	4	3	5	4	2	1	1	5	1	1	2	4
Platte (W)	ASI		2		6	1							3	2
Pronghorn	NE	Colt	3	4	3	8	8	1	2	4	1	3	5	5
Thunderbolt	ASI	Abilene, TAM 107	2	2	5	3	4	1	5	2	1	3	2	3
Trego (W)	KS	Rio Blanco	2	3	5	3	2	5	3	4	4	4	4	6
Wahoo	NE	Arapahoe	4	4	4	6	4	4	4	4	1	1	6	5
Wesley	ARS-NE	Sumner	3	4	6	2	1	1	2	5	5	1	6	2
Yumar (AR)	CO		4		5	4							5	4
			1 = Early 5 = Late	1 = Tender 5 = Hardy	1 = Weak 6 = Strong	1 = Short 9 = Tall	1 = Short 9 = Long	1 = Susceptible 5 = Resistant					1 = High 9 = Low	1 = High 9 = Low

*Letters in brackets following a variety's name indicates that variety has the following trait:

W = hard white wheat
AR = Russian wheat aphid resistance
HR = herbicide resistance

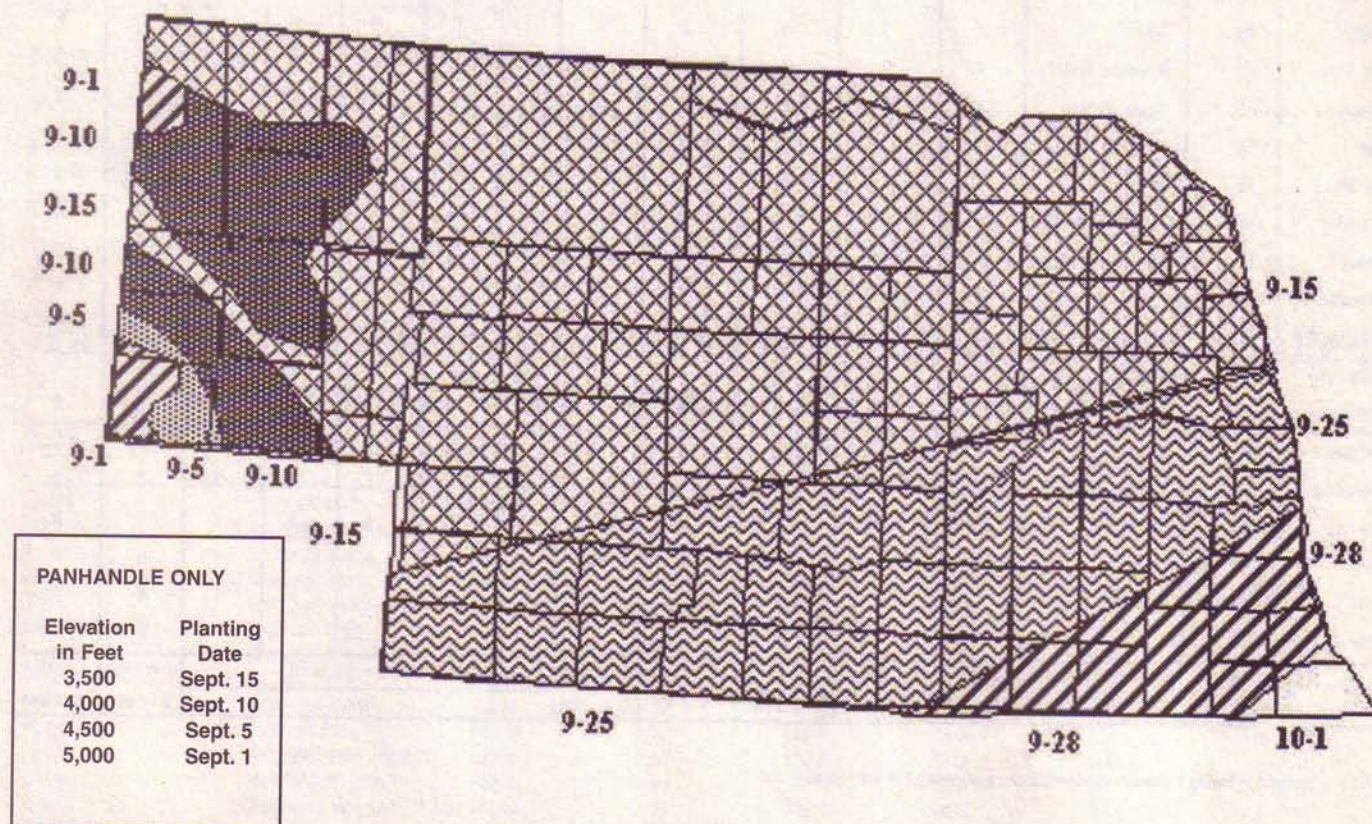
Suggested Seeding Dates for Winter Wheat in Nebraska

The planting date of winter wheat varies substantially as we move across the state. Research to show the best planting date began many years ago. Each year producers verify these dates through observation of fields planted earlier or later than the ideal date. Some years an earlier planting may have an advantage and some years a later date may have an advantage. In the long term, however, the suggested seeding dates will give the highest average yield.

We also recognize that as the number of acres increase, the length of time to plant increases. More of the wheat planting is both before and after the suggested seeding date because of increased planting time. As a starting point, you should try to have half the wheat seeded by the ideal date. You can improve on the average by planting the higher elevation fields and those containing sandy soil first. Leave the lower fields and those with higher clay content until last.

The dates listed on the map below weigh several factors. In the Panhandle, the dates depend on elevation. Using this method, producers can find the ideal date for each field by knowing the elevation. Using a starting point of September 15 for 3,500 feet, add one day for each 100 feet lower and subtract one day for each 100 feet higher in elevation. For the rest of the state, the dates September 25 and later are set to avoid Hessian fly infestation. The date is after flies lay their eggs. Other reasons for delaying planting include avoidance of wheat streak mosaic virus, Russian Wheat Aphid, crown and root rot, and too much fall growth. Excessive fall growth causes excessive moisture use and stress. There are several other reasons for planting early. One is to get adequate ground cover to avoid erosion from wind or water. Another is to get adequate plant growth to assure winter hardiness. A third reason is to quicken maturity the following summer and avoid excessive heat stress.

The following map is a guide rather than an absolute deadline. Each producer should make changes to ensure the planting dates fit the conditions of his or her farm.



Wheat Variety Tests

We planted 19 wheat variety tests in the fall of 2003 from Saunders County to the Wyoming border and beyond. One test was hauled out in the Chadron area. Our web site is at: <http://varietytest.unl.edu/whtst/2004/index.htm>. Information can be downloaded from that URL. Yields of winter wheat improved toward the end of the season from what was expected. That was primarily due to the cool wet June which allowed a longer grain fill period than normal. The rains delayed harvest over much of eastern Nebraska and also lowered the quality in those locations.

Wheat Blend Table

Eleven blends consisting of 2, 3, or 4 prominent varieties each were planted across the state along with the individual components. In order to assess the value of the blends, we have compared the blends to the average of their components at each location. The table also sums the differences in bushels per acre by location and blend. Since the values are summed, they would need to be divided by the number of locations in order to determine the bu/a value of blends vs. components.

Wheat Blend Comparisons

Comparison of yield of blends and their components
(a negative number means the blend yielded less than the average of its components)

Components	Saunders	Lancaster	Saline	Clay	Furnas-NT	Lincoln	Hitchcock	Perkins	Keith	Deuel	Fallow	Butte	Line	No-Till	Morrill	Irrigated	Organic	Sum
1 Millennium, Alliance, Wahoo	-8.07	3.81	-2.20	0.23	0.63	-1.40	4.57	1.98	-1.56	0.66	-0.47	3.84	-1.83	-0.32	0.83	-2.78	0.24	-1.84
2 Millennium, Wesley, Wahoo	-6.91	3.88	2.54	1.77	-0.23	-0.63	1.09	1.33	1.40	0.30	0.90	1.98	-1.02	-0.88	-2.67	6.88	0.01	9.73
3 Millennium, Halt, Wahoo	4.68	4.26	5.57	-0.18	-0.51	0.03	1.19	6.07	2.73	-0.15	0.78	-1.13	0.67	-0.76	1.28	3.08		27.61
4 Millennium, Harry, Wahoo	-2.98	2.07	-0.84	4.18	-0.71	-0.56	1.69	5.57	2.81	-1.56	-2.01	0.41	-1.72	2.42	-3.44	9.41	0.23	14.97
5 Millennium, 2137, Wesley	0.23	5.49	-9.17	5.27	-0.42	-2.90	1.25	-0.55	-0.02	-1.82	0.08	-2.93	-2.06	-0.21	-1.81	-1.03	-0.81	-11.39
6 Millennium, Wahoo	-10.18	9.29	-0.45	0.91	-0.57	-0.62	-3.17	2.54	0.73	-0.25	1.42	0.89	-1.84	0.10	0.32	9.29	-0.17	8.27
7 Millennium, Alliance, Wahoo, Wesley	-3.17	3.03	-0.49	2.18	-0.40	-0.44	3.56	2.56	-1.98	-1.35	0.23	-0.08	-0.22	-1.90	-1.42	-0.98	-0.23	-1.10
8 Millennium, Alliance, Harry, Wesley	-3.59	1.70	3.09	-0.02	-0.22	0.47	0.36	-0.78	-2.12	-0.66	-0.51	3.79	-1.33	0.84	-1.25	0.66	-0.50	-0.08
9 Antelope, Arrowsmith, Trego	3.32	14.37	0.51	8.04	-0.19	-0.78	-1.09	0.16	-2.21	-1.74	-1.82	0.74	-2.45	0.20	-1.54	3.04	0.05	18.64
10 Jagalene, Wesley, 2137	1.62	6.04	-4.82	4.15	-0.06	1.55	2.45	3.83	2.39	-0.05	0.15	-1.61	-1.15	0.01	0.02	1.41	-1.41	14.53
11 Pronghorn, Goodstreak, Buckskin	7.96	3.22	-0.76	4.18	0.00	1.59	0.96	-0.69	-1.63	-1.17	-2.03	-1.50	2.04	-0.56	1.47	1.47	-0.52	14.04
Sum	-17.09	57.17	-7.02	30.69	-2.67	-3.69	12.86	22.01	0.54	-7.78	-3.27	4.41	-10.91	-1.06	-8.20	30.45	-3.11	93.36
Average yield of all entries	42.10	71.90	55.30	82.40	6.40	66.50	34.60	39.40	60.80	44.70	38.30	51.60	27.40	13.30	59.30	101.30	40.30	

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Wheat Seed and Grain Diseases

Wheat diseases are most likely to occur when the weather is wet and cool during flowering and grain fill. 2004 weather patterns have been optimal for many diseases and head sprout to occur. This year there is an elevated occurrence of Black Point, Common Bunt, and Scab in seed and grain samples. These diseases lead to yield loss, high cleanout for seed wheat, and discounted or rejected wheat by the elevators. The good news is there are management strategies wheat producers can do at planting time to help minimize these problems at harvest.

Black Point is a fungus, and infected kernels have darkened pericarp and often are shriveled at the embryo end. This disease negatively affects grain and seed quality. Discolored grain is discounted in value, because the milled flour contains dark specks. When used for seed, infected kernels may rot in the soil or have reduced seedling emergence.

Wet weather during early milk through soft dough stages is favorable for black point to develop spores and infect the wheat heads. Controlling the adverse affects of black point include not using infected grain for seed, having suspect seed tested for germination, and using a fungicide seed treatment to improve seed germination and reduce seedling infection.

Common Bunt or stinking smut rarely causes large yield loss; but more importantly, it may severely reduce the quality and marketability of the grain. The bunt balls present in harvested grain are dull gray and approximately the shape of normal kernels. When bunted grain is milled, it produces an off white flour with an objectionable odor. Although the bunted grain is not toxic, livestock will refuse to consume the grain due to the strong odor and low palatability. Large masses of these bunt spores are also a safety issue. Clouds of these spores can be easily ignited and have caused explosions and fires in grain storage facilities. They also pose a respiratory risk for people with allergies. The main control for common bunt is to plant cleaned, tested seed and treat the seed with a systemic seed treatment.

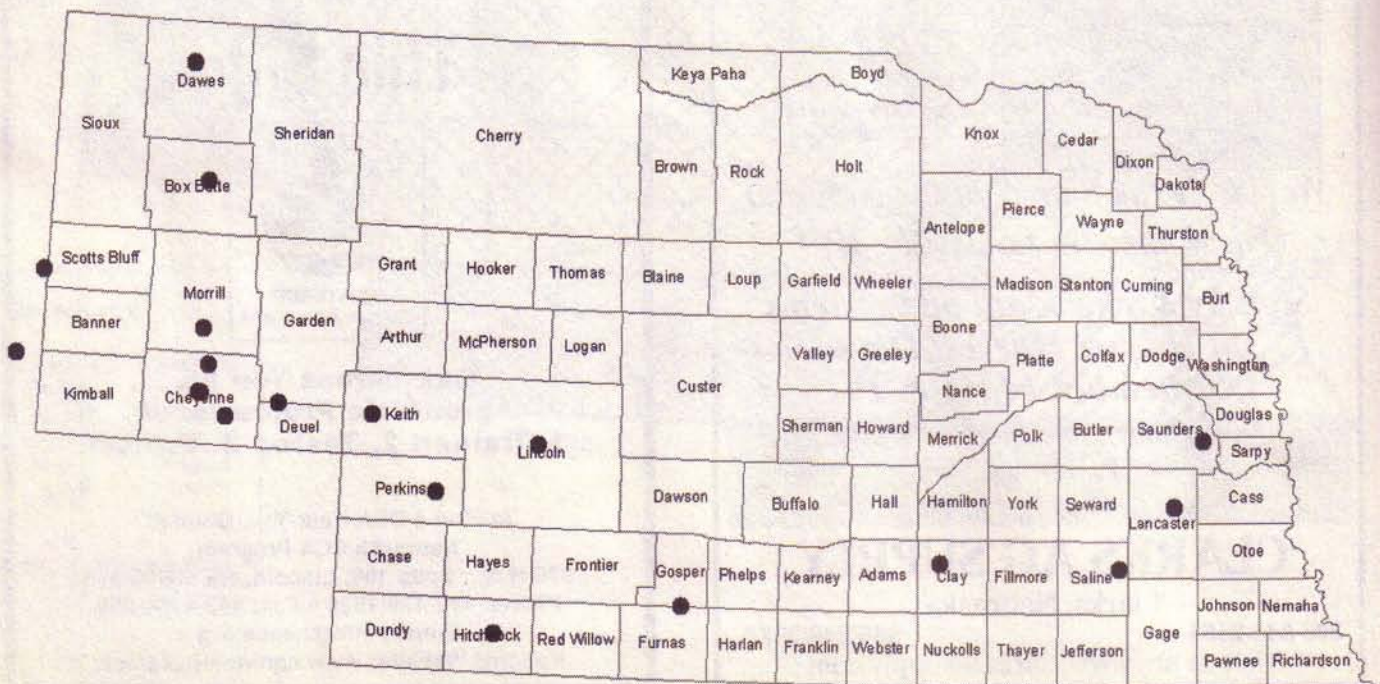
Scab or fusarium head blight is caused by several species of Fusaria. These pathogens not only cause scab but are also responsible for seedling blight, crown and root rot of wheat, and stalk and ear rots of corn. They inhabit the soil and crop residue and are always present in a field. Wheat heads are susceptible to infection during flowering and soft dough in extended periods of warm wet weather. A key symptom of Scab is pink to orange fungus mycelium that forms as a ring at the base of the spikelets or along the edge of the glumes. Scab is of economic importance for the reason that it affects seed and grain quality. Grain from infected fields may have light test weights with shriveled kernels with a pink color. It may also contain mycotoxins which reduce the milling and feed value. Scab also negatively affects the germination and seedling blight may develop from Fusarium-infected seed. Crop rotation is a good control method. Not planting into wheat, corn, or sorghum residue will help reduce the amount of inoculum. Seed treatment at planting will reduce the seedling blight potential.

Seed Quality and Testing are two factors that have a direct influence on potential high yields. Using healthy, high quality seed optimizes your opportunity of producing high yields. High quality seed is not perfect, but it is credibly pure mechanically and true to the variety. It has met minimum quality standards for germination, purity, and weed seed. It also has been monitored for disease-causing pathogens. Since it is a known variety, the area of adaptability for maturity, straw height, protein characteristics, disease and insect resistance is known.

Planting farm-saved seed wheat that has not been field inspected or cleaned with proper air and gravity conditioning equipment or laboratory tested for quality factors will reduce the odds of establishing a field with a healthy stand and high yield potential. The use of "Certified" seed that has been quality checked in the field and the laboratory is your best assurance of planting healthy, high quality seed. All Certified seed has been checked for varietal purity, mechanical purity, and viability. Certified standards do not allow noxious or undesirable weeds like jointed goatgrass or rye seed to be marketed.

Seed is a very low proportion of total production costs. High quality seed usually does not cost as much in the long run as bargain or low-priced seed. In the end, low quality seed can be expensive in terms of poor stand establishment and future problems with weeds and diseases. Certified seed doesn't cost, it pays!

Winter Wheat plot locations - 2004



Southeast Dryland Wheat Variety Tests - 2004

Saline, Saunders, and Lancaster Counties

Brand	Variety	Average Yield Bu/a	Saline Yield Bu/a	Saunders Yield Bu/a	Lancaster Yield Bu/a	Bushel weight lb/bu	Plant height inches	Seed weight 000/lb	Plant lodging pct	Grain protein pct
---	2137	71	63	65	86	54.4	36	14.7	20	11.9
AGRI PRO	Jagalene	71	63	58	91	56.0	37	14.7	20	12.6
AGRI PRO	W96-1311-01 (W)	70	66	54	89	56.3	35	14.1	10	12.9
Gen Mills	NuHills (W)	70	63	64	84	56.2	35	16.0	30	12.6
Irrigated 3	Blend #10	67	56	56	90	54.8	37	15.1	20	12.6
---	NE01643	64	64	52	76	52.5	40	17.7	20	12.8
---	NW98S097 (W)	64	73	30	89	51.3	36	17.1	10	12.8
AGRI PRO	W99-194	63	59	63	68	53.0	38	16.1	20	12.9
---	Goodstreak	63	62	52	76	55.1	42	16.0	30	13.2
---	NE98471	63	53	56	80	51.1	40	15.9	40	12.9
---	Harry	62	63	51	72	47.2	36	18.4	30	12.4
---	2145	62	59	45	83	54.2	35	17.7	30	12.9
SemiDwarf 3	Blend #5	62	51	52	83	52.5	39	16.2	10	12.5
---	NH01046	61	59	45	79	52.4	39	16.2	20	12.7
Gen Mills	NuHorizon (W)	61	60	47	77	52.4	34	17.9	10	12.8
---	Trego (W)	61	55	52	76	55.4	36	14.3	30	12.9
---	Millennium	60	57	51	72	51.7	40	17.4	10	12.9
SemiDwarf 3	Blend #4	59	59	46	71	48.1	38	18.7	20	12.6
---	Lakin (W)	58	55	38	80	53.9	38	15.7	30	12.4
SemiDwarf 3	Blend #3	58	59	44	71	50.8	40	17.7	20	12.7
SemiDwarf 4	Blend #8	58	61	42	72	50.3	39	16.7	30	12.4
---	Wesley	58	59	40	75	50.7	35	16.9	30	12.6
---	NP-02 (W)	57	61	34	77	50.8	35	21.0	10	12.7
Tall 3	Blend #11	57	54	45	72	54.0	44	16.5	40	13.3
---	NE99495	57	58	36	78	52.3	36	17.3	30	12.7
----- SmDf	2 Blend #6	57	56	38	76	50.7	40	18.2	20	12.6
SemiDwarf 3	Blend #2	57	60	38	73	50.6	40	18.0	20	12.7
---	NW97S412-1 (W)	56	55	42	71	50.7	37	16.6	30	12.3
White 3	Blend #9 (W)	56	53	39	76	50.8	40	16.8	30	12.5
SemiDwarf 4	Blend #7	56	56	40	71	51.3	40	16.9	30	12.5
NuPride	Empire	56	56	44	69	49.7	37	18.4	20	12.6
---	Nuplains (W)	56	54	35	80	51.8	34	19.1	20	12.6
Gen Mills	NuFrontier (W)	55	51	44	69	50.9	37	17.8	30	12.4
---	Wahoo	54	54	45	62	49.8	39	18.0	30	12.5
---	Arapahoe	53	56	39	63	50.9	40	18.2	30	13.3
SemiDwarf 3	Blend #1	53	52	37	70	50.8	40	18.7	20	12.7
---	Pronghorn	52	52	32	72	55.3	41	15.4	60	13.0
---	Culver	52	51	37	69	49.4	38	17.4	30	12.5
---	Alliance	51	51	39	63	51.5	38	18.9	50	11.9
---	NE99543	50	48	46	57	53.0	39	17.3	50	12.1
---	NW99L7068	49	48	37	63	50.5	34	16.3	60	12.1
---	Jagger	46	47	31	61	54.4	35	16.1	40	12.5
---	Antelope (W)	46	47	36	56	49.7	37	17.7	50	12.8
---	Halt	45	48	22	66	52.0	33	17.8	50	13.3
---	Buckskin	44	46	27	59	51.1	42	18.0	40	13.0
---	Arrowsmith (W)	42	55	20	52	45.5	42	19.9	20	12.7
---	NW97S139-1 (W)	42	49	36	42	47.8	36	18.4	50	12.3
---	Scout66	40	41	29	49	53.3	44	15.6	70	13.3
---	NW97S218-lt (W)	39	47	23	48	47.8	35	22.5	20	12.7
---	Turkey	38	36	32	46	50.1	43	19.3	60	13.6
Average all entries		56	55	42	71	51.8	38	17.2	30	12.7
Dif. req. for sig. 5%		11	10	10	12	2.5	2.0	1.9	20	0.5

(W) indicates hard white wheat

Southeast Wheat Variety Tests 2000-2004

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches
Two year averages						
----	NE98471	74.0	14.5	12.0	54.8	42.0
----	2137	73.7	13.8	11.3	57.1	38.5
AGRI	Jagalene	73.3	13.9	12.0	58.2	39.0
----	Trego (W)	72.5	13.3	12.0	58.9	38.5
----	2145	71.7	15.2	12.1	57.3	37.0
----	Harry	71.0	15.8	11.5	52.8	38.5
----	NH01046	69.0	14.7	12.0	56.4	42.0
Gen Mills	NuFrontier (W)	68.8	16.3	12.0	55.5	40.0
----	Millennium	68.5	15.9	12.1	55.5	42.5
----	Wesley	68.5	14.8	12.0	54.6	38.0
----	Goodstreak	66.7	14.6	12.5	58.0	45.0
NuPride	Empire	66.7	16.3	11.9	54.0	41.0
----	NW99L7068	64.7	14.4	11.6	54.2	37.0
----	Nuplains (W)	64.2	17.3	11.9	56.1	37.5
Gen Mills	NuHorizon (W)	63.7	16.1	11.9	56.0	35.5
----	Arapahoe	62.8	16.4	12.5	54.8	44.0
----	Wahoo	62.8	15.9	11.7	53.9	41.0
----	Jagger	62.7	14.6	12.1	57.2	37.0
----	NE99495	62.2	16.0	11.8	55.5	39.0
----	Alliance	62.0	16.3	11.2	55.6	40.5
----	NE99543	61.7	15.2	11.3	56.0	41.0
----	Culver	59.7	15.5	12.0	54.1	41.5
----	Arrowsmith (W)	59.7	16.9	12.0	52.0	43.5
----	Antelope (W)	58.2	15.6	12.0	54.1	40.0
----	Lakin (W)	57.8	14.3	11.5	56.4	40.5
----	Scout66	49.3	14.1	12.7	57.0	47.0
----	Turkey	43.0	17.2	12.9	54.5	46.5
Average all entries		64.4	15.4	11.9	55.6	40.5
Difference required for sig. 5%		12.1	1.5	0.4	2.6	1.9
Three year averages						
----	NE98471	67.5	14.8	12.1	56.2	40.2
----	2137	66.6	14.1	11.6	58.6	37.0
AGRI	Jagalene	66.4	13.8	12.1	59.8	36.8
----	Trego (W)	66.0	13.4	12.1	59.9	36.8
----	2145	63.9	14.8	12.4	59.0	35.0
----	Harry	63.5	16.2	11.6	54.3	36.7
----	Millennium	63.2	15.7	12.2	57.4	40.8
----	Wesley	61.8	14.7	12.2	56.6	35.7
----	Goodstreak	61.6	15.1	12.6	59.4	43.0
NuPride	Empire	61.1	16.4	11.8	55.8	39.2
Gen Mills	NuFrontier (W)	60.9	17.0	12.1	57.4	38.5
----	Nuplains (W)	58.9	16.6	12.2	58.3	35.5
----	Wahoo	58.7	15.9	11.8	55.6	39.2
----	Alliance	58.0	16.4	11.3	56.8	38.5
----	Arapahoe	57.2	16.5	12.6	56.5	41.3
Gen Mills	NuHorizon (W)	56.9	16.0	12.2	57.6	34.0
----	Lakin (W)	56.1	14.3	11.5	58.2	38.3
----	Culver	55.8	15.3	12.0	56.0	39.2
Four year averages						
----	Millennium	59.3	15.3	11.9	58.2	39.4
----	Goodstreak	59.0	14.7	12.2	59.9	41.3
----	Trego (W)	58.5	13.5	11.9	60.0	34.5
----	2137	58.0	14.2	11.4	58.7	34.4
----	Harry	57.8	15.8	11.3	54.9	35.4
NuPride	Empire	57.3	16.1	11.4	56.5	37.6
----	Wahoo	56.2	15.4	11.5	56.5	37.5
----	Nuplains (W)	55.2	16.0	11.8	58.3	35.4
----	Alliance	54.8	15.8	11.1	57.2	36.9
----	Wesley	54.5	14.4	11.9	57.0	34.3
Gen Mills	NuFrontier (W)	53.8	16.9	11.9	57.7	36.8
----	Arapahoe	53.5	16.0	12.3	57.2	39.8
----	Arrowsmith (W)	52.5	16.1	12.1	56.4	40.0
----	Culver	52.3	15.2	11.8	56.7	37.6
Gen Mills	NuHorizon (W)	50.7	16.2	11.9	58.0	32.6
----	Antelope (W)	48.8	16.2	12.1	56.8	36.1
----	Lakin (W)	47.5	14.7	11.5	58.4	35.5
----	Scout66	45.3	14.8	12.1	58.7	42.8
----	Jagger	45.1	15.2	12.1	58.2	33.0
----	Turkey	42.6	16.2	12.6	57.9	43.3
Average all entries		53.1	15.4	11.8	57.7	37.2
Difference required for sig. 5%		14.4	2.0	0.6	2.5	2.8
Five year averages						
----	Millennium	58.8	15.0	11.8	58.2	38.5
----	Trego (W)	58.8	13.4	11.7	59.7	33.9
----	Goodstreak	58.3	14.5	12.1	59.7	40.5
----	2137	57.0	14.1	11.1	58.4	33.6
----	Wahoo	57.0	15.4	11.5	56.5	36.9
----	Nuplains (W)	55.4	15.7	11.7	58.4	34.5
----	Wesley	54.8	14.3	11.8	56.9	33.7
----	Alliance	54.5	15.6	11.0	57.2	36.0
----	Culver	53.5	14.8	11.7	56.9	36.8
----	Arapahoe	53.4	15.6	12.1	57.2	38.5
----	Arrowsmith (W)	52.7	15.7	12.0	56.5	38.9
----	Antelope (W)	50.0	15.8	11.9	56.8	35.2
----	Jagger	45.4	15.0	12.0	58.3	33.1
----	Scout66	45.1	14.4	12.0	58.7	42.0
----	Turkey	42.3	15.8	12.5	57.9	42.9
Average all entries		53.1	15.0	11.8	57.8	37.0
Difference required for sig. 5%		12.6	1.8	0.5	2.4	2.8

Clay Co. Dryland Winter Wheat Variety Test - 2004

BRAND	VARIETY	Grain yield bu/a	Grain moisture pct	Bushel weight lb/bu	Kernel weight 000/lb	Grain protein pct	Plant lodging pct	Plant height inches
Gen Mills	NuHills (W)	102.7	11.4	57.8	15.5	12.7	95	36.3
AGRI PRO	Jagalene	101.9	10.9	57.8	14.0	12.6	90	36.8
---	2145	100.2	10.0	55.8	16.0	13.2	75	34.4
Irrigated 3	Blend #10	98.1	10.4	56.3	15.4	12.9	100	36.8
AGRI PRO	W96-1311-01 (W)	96.9	11.6	57.7	13.7	13.7	55	35.0
---	NW98S097 (W)	95.1	11.3	56.2	15.4	13.4	45	34.7
SemiDwarf 3	Blend #5	95.0	10.3	53.5	16.4	13.1	85	38.6
---	Wesley	90.7	10.4	53.4	15.4	12.9	90	35.5
Gen Mills	NuHorizon (W)	90.4	10.5	55.1	17.9	12.9	80	33.9
---	NE01643	89.4	10.0	54.2	16.5	12.8	90	37.7
---	2137	89.4	10.7	54.8	15.3	12.6	100	37.0
---	Millennium	89.0	10.5	54.8	16.3	12.7	70	40.1
SemiDwarf 3	Blend #2	88.3	9.8	54.1	17.4	12.7	95	38.4
---	NH01046	88.1	10.6	55.1	15.6	12.8	80	38.8
SemiDwarf 3	Blend #4	87.4	10.1	52.8	17.3	12.9	100	38.3
---	NW97S412-1 (W)	85.7	10.0	52.4	17.0	13.3	100	36.6
---	Culver	85.6	10.7	54.2	15.4	12.4	95	37.2
---	NE99495	85.5	9.9	53.5	16.3	12.5	100	36.0
White 3	Blend #9 (W)	85.5	10.3	53.1	15.7	13.1	85	39.4
---	SmDf 2 Blend #6	85.4	10.2	53.0	16.3	13.4	95	38.9
SemiDwarf 4	Blend #7	85.4	10.3	53.2	17.3	13.1	95	37.9
NuPride	Empire	84.5	9.7	52.3	17.8	12.3	95	37.1
---	NE98471	84.2	10.1	53.3	15.8	13.2	95	37.5
---	Trego (W)	83.9	10.7	55.8	13.1	13.8	85	34.2
---	Lakin (W)	83.8	10.7	55.2	15.4	12.3	85	37.7
SemiDwarf 4	Blend #8	83.3	10.6	54.2	16.5	12.5	90	38.1
---	NP-02 (W)	82.6	10.6	53.6	20.3	12.9	90	37.6
---	Nuplains (W)	82.1	10.6	55.5	17.8	13.4	85	34.5
AGRI PRO	W99-194	81.9	9.8	53.5	17.7	13.1	95	36.9
---	Goodstreak	81.0	10.5	56.5	16.3	13.6	80	40.8
SemiDwarf 3	Blend #1	81.0	10.3	54.1	17.5	12.8	90	38.0
SemiDwarf 3	Blend #3	80.7	10.6	54.3	16.1	13.5	95	38.9
---	Harry	80.6	9.5	50.0	17.2	12.6	100	36.0
---	Wahoo	80.0	10.0	51.7	18.1	12.7	100	38.0
---	Jagger	79.1	10.5	55.4	16.6	13.0	100	36.2
---	Arapahoe	78.9	10.5	53.9	16.3	13.0	95	38.8
---	Antelope (W)	78.1	9.8	52.9	15.5	13.5	100	36.8
Tall 3	Blend #11	77.0	10.4	55.1	17.1	13.7	85	40.5
Gen Mills	NuFrontier (W)	76.9	9.8	53.9	18.3	13.1	81	36.2
---	NW97S218-lt (W)	75.6	10.0	52.6	18.9	12.8	95	35.8
---	Halt	73.7	9.8	52.7	17.0	13.2	95	34.1
---	Alliance	73.2	10.3	54.3	18.1	12.2	100	37.7
---	NE99543	71.5	10.2	55.7	16.0	13.2	95	36.9
---	NW97S139-1 (W)	70.7	9.6	50.6	18.4	12.9	100	36.5
---	Arrowsmith (W)	70.4	9.7	51.4	19.8	13.5	90	39.9
---	Pronghorn	69.6	10.4	55.5	14.9	14.0	95	39.1
---	Buckskin	67.8	10.2	54.1	16.6	13.1	95	42.8
---	Scout66	64.0	10.5	53.9	15.3	13.6	100	40.7
---	NW99L7068	58.0	9.5	52.5	16.1	13.2	100	35.1
---	Turkey	51.9	10.2	52.4	17.5	14.1	95	38.4
Average all entries		82.4	10.3	54.1	16.6	13.1	90.5	37.4
Difference required for sig. 5%		9.0	38.0	2.0	1.4	0.8	16.0	2.0

(W) Indicates Hard White Wheat

South Central Wheat Variety Tests 2000-2004

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches	Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches																									
Two year averages							----	Goodstreak	72.2	16.6	13.0	59.0	43.7																									
AGRIPRO	Jagalene	100.5	14.7	12.0	59.0	36.5	----	Arrowsmith (W)	71.8	18.5	12.6	55.9	41.5																									
----	2145	93.5	15.9	12.7	57.2	35.5	----	Nuplains (W)	71.7	17.4	12.6	57.8	36.3																									
----	Wesley	93.0	15.7	12.3	55.4	37.0	----	Scout66	62.3	15.4	12.9	58.2	43.2																									
----	Millennium	88.5	16.3	12.0	57.1	41.5	----	Turkey	49.8	17.5	13.4	56.8	42.3																									
----	2137	84.5	16.2	11.9	56.7	38.0	Average all entries						77.3	16.9	12.4	57.2	39.0																					
Gen Mills	NuHorizon (W)	84.0	17.6	12.0	57.1	34.5	Difference required for sig. 5%						13.8	2.0	0.6	2.1	2.3																					
----	Jagger	84.0	16.6	12.2	57.1	37.0	Four year averages							----	Wesley	85.0	15.2	12.4	57.0	34.8																		
----	NE98471	81.5	16.3	12.5	54.9	40.0	----	Millennium	83.5	15.6	12.0	58.2	40.3	----	Wahoo	79.6	16.9	12.1	55.9	38.3																		
----	NH01046	80.5	16.3	12.4	56.7	41.0	----	Wahoo	79.6	16.9	12.1	55.9	38.3	Gen Mills	NuHorizon (W)	77.6	16.9	12.2	58.3	32.9																		
----	Wahoo	79.5	17.9	12.2	54.5	39.5	----	Jagger	77.0	16.2	12.4	57.9	34.6	----	Trego (W)	75.1	15.5	12.3	58.5	34.6																		
----	Trego (W)	79.5	15.2	12.7	56.7	35.5	----	Trego (W)	75.1	15.5	12.3	58.5	34.6	----	2137	75.0	16.0	11.6	57.5	36.0																		
----	Culver	77.5	16.4	11.9	55.3	38.5	----	2137	75.0	16.0	11.6	57.5	36.0	----	Antelope (W)	74.4	16.3	12.5	56.9	36.8																		
----	Antelope (W)	76.5	16.9	12.7	55.1	38.0	----	Antelope (W)	74.4	16.3	12.5	56.9	36.8	----	Alliance	74.1	17.5	11.7	56.9	38.5																		
Gen Mills	NuFrontier (W)	76.5	18.6	12.5	56.3	39.5	----	Alliance	74.1	17.5	11.7	56.9	38.5	----	Culver	73.5	16.2	11.9	55.9	38.1																		
----	Goodstreak	74.0	15.8	13.0	58.3	43.0	----	Culver	73.5	16.2	11.9	55.9	38.1	----	Harry	73.1	17.1	11.9	53.6	36.4																		
----	Arrowsmith (W)	74.0	18.8	12.6	54.4	41.5	----	Harry	73.1	17.1	11.9	53.6	36.4	NuPride	Empire	73.0	17.4	12.1	54.9	38.4																		
----	Arapahoe	74.0	17.2	12.7	55.3	41.0	----	Empire	73.0	17.4	12.1	54.9	38.4	----	Arrowsmith (W)	73.0	17.1	12.6	56.4	40.8																		
NuPride	Empire	73.0	18.9	12.1	52.8	39.0	----	Arrowsmith (W)	73.0	17.1	12.6	56.4	40.8	Gen Mills	NuFrontier (W)	72.6	18.0	12.4	58.0	38.4																		
----	Harry	73.0	17.5	12.2	52.1	37.5	----	NuFrontier (W)	72.6	18.0	12.4	58.0	38.4	----	Arapahoe	72.6	16.9	12.6	56.5	39.8																		
----	Alliance	72.0	18.2	11.7	56.2	39.5	----	Arapahoe	72.6	16.9	12.6	56.5	39.8	----	Goodstreak	72.3	16.1	12.9	59.1	43.1																		
----	NE99543	71.5	16.9	12.3	56.7	39.5	----	Goodstreak	72.3	16.1	12.9	59.1	43.1	----	Lakin (W)	65.6	16.8	12.3	56.6	36.0																		
----	Lakin (W)	70.5	17.2	12.1	55.4	38.5	----	Lakin (W)	65.6	16.8	12.3	56.6	36.0	----	Nuplains (W)	64.1	17.3	12.6	57.8	35.4																		
----	NE99495	68.0	18.4	12.2	54.0	37.5	----	Nuplains (W)	64.1	17.3	12.6	57.8	35.4	----	Scout66	61.8	15.1	12.9	58.1	41.9																		
----	NW99L7068	66.5	15.9	12.3	55.3	36.0	----	Scout66	61.8	15.1	12.9	58.1	41.9	----	Turkey	51.3	16.8	13.4	57.1	42.4																		
----	Nuplains (W)	65.5	18.3	12.9	55.5	36.0	Average all entries						72.7	16.5	12.3	57.1	37.9																					
----	Scout66	62.5	15.4	13.1	56.7	42.0	Difference required for sig. 5%						16.9	2.1	0.7	2.2	2.8																					
----	Turkey	49.0	17.4	13.4	55.3	41.0	Three year averages							----	Wesley	79.9	13.8	12.4	57.0	34.1																		
Average all entries							76.8	16.9	12.4	55.8	38.7	Five year averages							----	Millennium	78.1	14.3	12.1	58.3	39.1													
Difference required for sig. 5%							17.5	2.2	0.7	2.4	2.2	----	Wesley	79.9	13.8	12.4	57.0	34.1	----	Wahoo	75.9	15.3	12.2	56.1	37.4													
														----	Wesley	79.9	13.8	12.4	57.0	34.1	----	Trego (W)	72.2	14.1	12.3	58.7	34.0											
														----	Millennium	78.1	14.3	12.1	58.3	39.1	----	Jagger	72.0	14.9	12.4	57.8	34.1											
														----	Wahoo	75.9	15.3	12.2	56.1	37.4	----	2137	71.7	14.5	11.7	57.3	35.1											
														----	Trego (W)	72.2	14.1	12.3	58.7	34.0	----	Culver	71.3	14.6	12.0	56.2	37.2											
														----	Jagger	72.0	14.9	12.4	57.8	34.1	----	Antelope (W)	70.4	15.0	12.5	56.9	35.4											
														----	2137	71.7	14.5	11.7	57.3	35.1	----	Alliance	70.2	15.8	11.7	56.7	37.2											
														----	Culver	71.3	14.6	12.0	56.2	37.2	----	Arapahoe	69.0	15.3	12.7	56.7	38.4											
														----	Antelope (W)	70.4	15.0	12.5	56.9	35.4	----	Arrowsmith (W)	68.9	15.4	12.6	56.7	39.9											
														----	Alliance	70.2	15.8	11.7	56.7	37.2	----	Nuplains (W)	63.4	15.5	12.6	58.2	34.5											
														----	Arapahoe	69.0	15.3	12.7	56.7	38.4	----	Scout66	57.6	13.7	12.8	58.4	40.7											
														----	Arrowsmith (W)	68.9	15.4	12.6	56.7	39.9	----	Turkey	48.4	15.2	13.5	57.3	41.5											
														----	Nuplains (W)	63.4	15.5	12.6	58.2	34.5	Average all entries						69.2	14.8	12.4	57.3	37.0							
														----	Scout66	57.6	13.7	12.8	58.4	40.7	Difference required for sig. 5%						16.2	2.0	0.7	2.1	2.7							
														----	Turkey	48.4	15.2	13.5	57.3	41.5	Five year averages							----	Wesley	79.9	13.8	12.4	57.0	34.1				
														Average all entries						69.2	14.8	12.4	57.3	37.0	----	Millennium	78.1	14.3	12.1	58.3	39.1							
														Difference required for sig. 5%						16.2	2.0	0.7	2.1	2.7	----	Wahoo	75.9	15.3	12.2	56.1	37.4							
																					----	Trego (W)	72.2	14.1	12.3	58.7	34.0	----	Jagger	72.0	14.9	12.4	57.8	34.1				
																					----	Jagger	72.0	14.9	12.4	57.8	34.1	----	2137	71.7	14.5	11.7	57.3	35.1				
																					----	2137	71.7	14.5	11.7	57.3	35.1	----	Culver	71.3	14.6	12.0	56.2	37.2				
																					----	Culver	71.3	14.6	12.0	56.2	37.2	----	Antelope (W)	70.4	15.0	12.5	56.9	35.4				
																					----	Antelope (W)	70.4	15.0	12.5	56.9	35.4	----	Alliance	70.2	15.8	11.7	56.7	37.2				
																					----	Alliance	70.2	15.8	11.7	56.7	37.2	----	Arapahoe	69.0	15.3	12.7	56.7	38.4				
																					----	Arapahoe	69.0	15.3	12.7	56.7	38.4	----	Arrowsmith (W)	68.9	15.4	12.6	56.7	39.9				
																					----	Arrowsmith (W)	68.9	15.4	12.6	56.7	39.9	----	Nuplains (W)	63.4	15.5	12.6	58.2	34.5				
																					----	Nuplains (W)	63.4	15.5	12.6	58.2	34.5	----	Scout66	57.6	13.7	12.8	58.4	40.7				
																					----	Scout66	57.6	13.7	12.8	58.4	40.7	----	Turkey	48.4	15.2	13.5	57.3	41.5				
																					----	Turkey	48.4	15.2	13.5	57.3	41.5	Average all entries						69.2	14.8	12.4	57.3	37.0
																					Difference required for sig. 5%						16.2	2.0	0.7	2.1	2.7							

West Central Dryland Wheat Variety Tests - 2004

Keith, Hitchcock, Perkins, and Lincoln Counties

Brand	Variety	Average Yield Bu/a	Keith Yield Bu/a	Hitchcock Yield Bu/a	Perkins Yield Bu/a	Lincoln Yield Bu/a	Bushel weight lb/bu	Plant height inches	Seed weight 000/lb	Plant lodging pct	Grain protein pct
AGRIPRO	Jagalene	59	68	41	49	76	58.6	28	14.7	3	13.7
Irrigated 3	Blend #10	57	67	39	47	75	57.1	29	15.0	1	13.4
---	Trego (W)	55	65	40	44	70	58.1	26	14.1	7	13.4
AGRIPRO	TAM 111	55	62	38	48	72	57.3	29	15.2	0	13.5
SemiDwarf 3	Blend #4	54	64	38	47	66	55.4	30	15.9	2	13.2
---	C000D007	54	64	43	40	67	56.2	29	15.2	5	12.7
Gen Mills	NuFrontier (W)	54	65	39	45	68	56.9	29	16.8	7	13.1
AGRIPRO	W99-194	54	66	34	45	72	56.8	31	14.9	2	13.4
---	NE99495	54	68	40	36	72	56.9	28	15.8	3	13.5
---	Wesley	54	62	36	44	74	55.3	26	15.3	2	14.0
---	Wahoo	54	67	36	45	69	55.7	28	16.4	7	13.6
Gen Mills	NuHills (W)	53	68	35	40	69	59.1	27	14.8	0	14.1
---	Culver	53	65	36	45	67	55.7	29	14.6	3	13.4
SemiDwarf 3	Blend #2	53	62	37	43	68	55.8	30	15.5	1	13.5
---	Harry	53	61	38	44	69	54.0	28	16.2	1	13.1
SemiDwarf 3	Blend #3	53	65	37	42	66	56.0	30	15.5	9	13.7
---	NH01046	53	66	36	43	66	56.1	30	15.5	21	13.5
---	NW97S139-1 (W)	53	70	37	35	70	55.1	27	15.5	6	13.3
---	Above	52	68	32	43	64	57.4	28	13.4	5	13.3
---	NW99L7068	52	70	35	33	70	55.1	27	14.8	34	13.2
---	Avalanche	52	63	35	40	70	58.1	28	13.7	0	13.6
SemiDwarf 3	Blend #1	52	62	38	41	65	56.1	30	16.0	8	13.6
SemiDwarf 4	Blend #7	52	61	37	43	68	55.8	29	16.1	3	13.7
---	Niobrara	52	61	33	45	70	56.4	30	14.5	4	13.3
---	Pronghorn	51	58	34	44	67	57.0	32	15.0	37	13.6
SemiDwarf 4	Blend #8	51	60	35	39	69	55.3	29	15.9	0	13.5
---	2137	51	63	31	38	72	56.5	28	14.7	1	13.5
---	Alliance	51	69	29	37	69	56.3	29	15.9	4	13.2
---	Goodstreak	51	56	39	46	62	57.6	33	16.4	12	13.7
SemiDwarf 3	Blend #5	50	60	35	38	67	56.1	29	15.3	4	13.6
---	NE01643	50	58	37	36	68	56.3	30	15.7	8	13.9
Tall 3	Blend #11	50	54	36	43	65	57.4	33	15.9	23	14.1
---	NE99543	50	63	31	35	69	56.5	29	15.1	9	13.5
---	Antelope (W)	50	64	36	36	65	56.0	27	14.8	6	13.8
NuPride	Empire	50	54	40	43	64	54.7	29	15.7	3	13.1
--- SmDf	2 Blend #6	50	61	32	43	65	56.2	30	16.2	6	13.7
---	Ankor	50	62	29	41	66	56.4	28	14.9	3	13.0
---	Jagger	49	70	28	32	64	57.2	28	14.7	0	14.5
---	Halt	49	65	36	27	66	56.5	26	15.6	4	14.4
White 3	Blend #9 (W)	49	57	35	39	66	56.5	30	15.1	1	13.6
AGRIPRO	Thunderbolt	49	59	32	39	67	59.1	29	14.4	3	14.5
---	Lakin (W)	48	61	28	33	69	57.2	28	14.1	6	13.7
---	Arapahoe	48	56	33	40	61	55.9	29	16.9	1	13.9
AGRIPRO	AP502CL	48	64	34	36	59	56.9	26	13.3	4	13.3
---	Nuplains (W)	47	52	36	36	65	57.9	26	16.7	1	13.9
Gen Mills	NuHorizon (W)	47	57	33	34	63	58.5	26	15.0	0	13.2
---	Buckskin	47	53	32	42	60	57.8	32	15.2	40	13.6
---	Millennium	47	54	34	35	63	56.4	30	15.9	0	13.3
---	NE98471	47	63	29	27	70	54.8	30	14.9	22	13.3
---	NP-02 (W)	47	53	35	37	64	58.6	27	17.2	8	13.6
---	Arrowsmith (W)	46	49	32	38	66	55.6	31	16.1	1	14.1
---	NW98S097 (W)	46	54	27	38	65	57.2	26	15.8	0	13.9
---	Scout66	45	59	28	39	52	57.8	33	14.6	71	13.6
---	2145	45	49	36	25	69	57.4	27	15.4	0	14.0
---	NW97S412-1 (W)	44	53	31	28	64	54.6	27	16.0	1	13.6
---	NW97S218-It (W)	44	48	34	37	56	54.8	28	17.9	1	13.7
---	Turkey	41	49	30	39	47	56.3	34	17.0	43	14.2
Average all entries		50.4	60.8	34.7	39.4	66.4	56.6	28.9	15.4	8.0	13.6
Dif. req. for sig. 5%		5	4.6	5.6	4.2	5.4	0.7	1.3	4.6	10.5	0.5

(W) indicates hard white wheat

West Central Wheat Variety Tests 2000-2004

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches	Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches
Two year averages													
-----	Wahoo	61.0	15.4	11.8	57.1	31.0	-----	Lakin (W)	51.4	15.6	12.5	58.1	30.6
AGRI PRO	Jagalene	60.4	14.5	12.2	59.3	30.2	-----	Arrowsmith (W)	51.2	15.9	13.0	57.7	32.8
Gen Mills	NuFrontier (W)	59.3	16.2	11.7	58.4	33.6	-----	2145	50.4	16.3	12.8	58.1	28.9
-----	NH01046	58.7	15.2	12.2	57.7	32.4	Gen Mills	NuHorizon (W)	48.5	16.4	12.5	59.2	27.2
-----	Wesley	58.7	14.7	12.8	56.8	28.6	-----	Nuplains (W)	48.2	17.3	13.2	58.9	27.8
-----	NW99L7068	58.5	14.6	11.4	56.8	30.8	-----	Scout66	46.2	15.4	12.7	59.3	35.2
-----	Trego (W)	58.4	14.0	12.0	58.9	29.1	-----	Turkey	42.6	17.1	13.7	58.1	36.2
-----	Harry	58.2	16.1	11.8	55.3	30.0	Average all entries 52.9 16.3 12.7 57.9 30.8						
-----	Alliance	57.8	15.5	11.6	57.7	31.8	Difference required for sig. 5% 6.0 1.2 0.7 1.1 2.0						
-----	Goodstreak	57.5	15.4	12.3	58.9	36.5	Four year averages						
-----	Above	57.4	13.8	11.9	57.9	30.4	-----	Wahoo	57.4	16.4	12.4	57.1	31.5
-----	NE99543	57.4	14.7	12.0	57.6	32.3	-----	Trego (W)	57.2	15.1	12.3	59.0	29.7
-----	Jagger	56.3	14.6	12.6	58.3	30.8	-----	Alliance	56.8	16.9	12.1	57.9	31.8
NuPride	Empire	56.1	15.5	11.7	55.9	31.6	Gen Mills	NuFrontier (W)	55.8	17.9	12.4	58.3	33.4
-----	Millennium	55.9	15.3	12.2	57.7	32.6	-----	Above	55.1	14.9	12.2	58.1	30.4
-----	Pronghorn	55.7	14.5	12.2	58.7	36.9	-----	Millennium	55.1	16.1	12.5	58.2	33.1
-----	2137	55.5	15.1	11.8	57.4	30.3	-----	Wesley	55.0	15.5	12.9	57.1	28.5
-----	Halt	55.1	16.0	12.7	57.1	29.8	-----	Harry	54.8	16.9	12.1	55.4	30.3
-----	Antelope (W)	54.8	14.8	12.0	57.1	30.2	-----	Culver	54.6	15.6	12.2	56.8	32.1
-----	Arapahoe	54.8	16.3	12.1	57.3	32.0	-----	Jagger	54.5	15.8	12.9	58.5	30.8
-----	NE99495	54.7	15.9	11.8	57.5	30.8	-----	Goodstreak	54.4	16.4	12.8	58.8	37.3
-----	Culver	54.6	14.9	12.0	56.5	32.0	NuPride	Empire	54.4	16.5	12.1	56.2	31.7
-----	Niobrara	54.3	14.6	11.7	57.2	32.2	-----	Arapahoe	53.4	16.9	12.6	57.7	32.6
-----	NE98471	54.1	14.8	12.1	56.4	33.0	AGRI PRO	Thunderbolt	53.3	15.2	13.0	60.1	31.6
-----	Arrowsmith (W)	53.8	14.9	12.0	57.5	33.4	-----	Niobrara	53.0	15.7	12.1	57.5	32.9
-----	Lakin (W)	53.2	14.5	12.0	57.5	31.5	-----	Halt	53.0	17.0	12.9	57.4	29.6
AGRI PRO	AP502CL	53.0	14.0	11.9	57.2	29.5	-----	2137	53.0	16.5	12.3	57.6	30.4
AGRI PRO	Thunderbolt	52.0	14.2	12.8	59.8	31.0	-----	Pronghorn	52.9	15.6	12.7	58.6	36.7
Gen Mills	NuHorizon (W)	51.7	14.9	12.0	58.8	27.6	-----	Lakin (W)	52.1	15.5	12.2	58.4	31.4
-----	2145	50.4	15.2	12.4	58.1	29.3	-----	Arrowsmith (W)	51.7	16.0	12.9	57.8	34.0
-----	Scout66	49.3	14.2	12.2	59.3	36.8	-----	Antelope (W)	51.6	16.1	12.3	57.2	30.2
-----	Nuplains (W)	47.5	16.1	12.6	58.4	28.5	Gen Mills	NuHorizon (W)	48.6	16.4	12.3	59.0	28.0
-----	Turkey	45.0	16.0	13.3	57.9	37.7	-----	Nuplains (W)	48.1	17.0	12.8	59.2	28.6
Average all entries		55.2	15.0	12.1	57.7	31.6	-----	Scout66	47.4	15.2	12.5	59.1	37.0
Difference required for sig. 5%		6.1	1.3	0.7	1.3	2.1	-----	Turkey	43.5	16.8	13.4	58.0	37.9
Three year averages							Average all entries 53.1 16.2 12.5 58.0 32.1						
AGRI PRO	Jagalene	59.6	15.6	12.6	59.8	29.9	Difference required for sig. 5% 5.6 1.3 0.7 1.2 2.1						
-----	Wahoo	57.6	16.2	12.6	57.1	30.3	Five year averages						
-----	Trego (W)	57.4	15.1	12.4	59.0	28.8	-----	Trego (W)	56.9	15.4	12.0	58.9	29.1
Gen Mills	NuFrontier (W)	56.1	17.7	12.4	58.2	32.6	-----	Alliance	56.9	16.7	11.7	58.0	31.3
-----	Wesley	56.0	16.0	13.2	56.9	27.9	-----	Wahoo	56.5	16.7	12.0	56.8	30.9
-----	Above	55.8	14.9	12.3	58.2	29.7	-----	Jagger	55.0	16.0	12.6	58.4	30.3
-----	Alliance	55.2	17.2	12.3	57.8	30.6	-----	Millennium	54.8	16.2	12.4	58.0	32.8
-----	Jagger	54.7	16.1	13.1	58.4	30.3	-----	Culver	54.5	15.6	12.1	56.9	31.4
-----	Millennium	54.6	16.4	12.7	58.1	31.9	-----	Wesley	54.4	15.7	12.7	57.0	28.1
-----	Harry	54.2	17.5	12.5	54.9	29.2	AGRI PRO	Thunderbolt	53.7	15.5	12.7	59.8	31.1
-----	Goodstreak	54.1	16.8	13.0	58.9	35.6	-----	Niobrara	53.6	15.8	11.9	57.5	32.6
-----	2137	53.8	16.6	12.4	57.3	29.6	-----	2137	53.2	16.6	12.0	57.5	30.0
NuPride	Empire	53.4	16.7	12.3	55.7	30.8	-----	Halt	53.0	17.0	12.5	57.3	29.0
-----	Culver	53.3	15.9	12.4	56.6	30.9	-----	Pronghorn	52.7	15.9	12.4	58.5	36.0
-----	Halt	53.1	17.2	13.1	57.4	29.0	-----	Arapahoe	52.5	17.2	12.3	57.5	31.8
AGRI PRO	Thunderbolt	53.1	15.5	13.4	60.1	30.5	-----	Antelope (W)	52.0	16.4	11.9	57.2	29.8
-----	NE98471	52.9	16.0	12.4	56.6	31.7	-----	Arrowsmith (W)	51.4	15.8	12.6	57.6	33.5
-----	Arapahoe	52.8	17.2	12.8	57.5	31.3	-----	Nuplains (W)	49.3	16.9	12.4	59.1	28.4
-----	Niobrara	52.8	15.8	12.4	57.2	31.7	-----	Scout66	48.0	15.2	12.1	58.9	36.4
AGRI PRO	AP502CL	52.1	15.0	12.3	57.3	28.8	-----	Turkey	43.0	16.9	13.1	57.7	36.9
-----	Pronghorn	52.0	15.7	12.9	58.9	35.5	Average all entries 52.9 16.2 12.3 57.9 31.6						
-----	Antelope (W)	51.6	16.4	12.6	57.0	29.1	Difference required for sig. 5% 5.8 1.3 0.7 1.1 2.1						

Furnas Co. Dryland Winter Wheat Variety Test - 2004

No-Till Continuous cropping

BRAND	VARIETY	Grain yield bu/a	Kernel weight 000/lb	Grain protein pct	Plant height inches
---	Jagger	11.7	21.3	14.0	23.0
AGRIPRO	W99-194	11.3	24.7	13.9	24.1
---	Above	11.0	20.2	13.1	20.5
AGRIPRO	Jagalene	10.5	21.3	12.6	22.2
---	Trego (W)	9.6	21.5	13.1	19.8
Gen Mills	NuHills (W)	9.6	23.4	14.2	22.1
AGRIPRO	TAM 111	9.4	23.1	13.6	23.4
Gen Mills	NuFrontier (W)	9.1	25.5	14.1	21.5
---	Avalanche	8.8	22.3	13.5	22.3
AGRIPRO	AP502CL	8.8	20.5	13.2	21.5
---	CO00D007	8.7	25.3	13.7	23.7
---	Scout66	8.7	21.0	13.4	25.9
---	Goodstreak	8.2	24.2	13.9	25.0
---	Culver	8.0	23.9	14.5	22.4
Irrigated 3	Blend #10	7.9	21.2	13.7	21.7
---	2137	7.8	23.3	13.2	22.0
---	Pronghorn	7.7	23.6	14.0	25.1
---	Ankor	7.4	23.7	12.9	23.0
---	Wahoo	7.3	22.2	13.7	21.5
Tall 3	Blend #11	7.2	24.5	13.4	24.8
---	Niobrara	7.0	23.7	13.4	23.2
AGRIPRO	Thunderbolt	6.8	22.8	13.5	21.8
SemiDwarf 3	Blend #1	6.7	22.2	14.0	22.8
White 3	Blend #9 (W)	6.7	22.8	13.4	21.8
---	NE99543	6.4	23.4	12.9	23.7
---	Alliance	6.4	22.5	12.6	22.4
---	NW99L7068	6.2	22.0	13.2	22.1
---	Buckskin	5.8	24.8	13.8	24.7
---	Wesley	5.8	22.9	13.5	20.8
SemiDwarf 3	Blend #2	5.7	24.2	13.1	22.1
SemiDwarf 3	Blend #5	5.7	23.2	13.5	22.4
SemiDwarf 4	Blend #7	5.6	24.7	14.5	22.2
---	Arrowsmith (W)	5.6	24.0	14.3	23.3
---	Arapahoe	5.4	25.0	14.4	22.9
SmDf	2 Blend #6	5.4	25.2	13.4	22.9
---	Antelope (W)	5.4	24.7	12.9	21.7
---	NH01046	5.4	22.9	13.3	21.3
---	NE01643	5.2	22.9	12.9	22.1
---	NE99495	5.2	25.5	13.1	23.7
---	Turkey	5.2	24.8	13.8	23.3
SemiDwarf 4	Blend #8	4.9	25.1	13.1	22.3
---	NW98S097 (W)	4.8	25.3	14.3	21.2
---	Millennium	4.6	25.5	14.1	22.1
SemiDwarf 3	Blend #3	4.6	23.5	13.3	22.1
SemiDwarf 3	Blend #4	4.5	24.7	13.8	22.4
---	Nuplains (W)	4.5	22.9	13.8	21.0
---	NE98471	4.4	24.1	13.1	23.9
---	Lakin (W)	4.1	25.1	12.8	21.6
Gen Mills	NuHorizon (W)	4.0	23.1	13.3	20.5
NuPride	Empire	3.9	26.0	13.3	22.6
---	NW97S412-1 (W)	3.8	26.3	13.7	21.3
---	Harry	3.7	26.3	13.4	22.0
---	NW97S218-It (W)	3.4	25.4	12.9	19.2
---	NP-02 (W)	3.4	24.3	14.4	20.0
---	Halt	3.4	26.5	12.5	20.0
---	2145	3.3	23.2	14.0	20.5
---	NW97S139-1 (W)	2.7	27.1	13.8	21.8
Average all entries		6.4	23.8	13.5	22.3
Difference required for sig. 5%		1.5	3.7	1.1	1.3

(W) Indicates Hard White Wheat

West Central Winter Wheat Variety Tests

Continuous Cropping 2000-2004

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Plant Height inches	Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Plant Height inches
Two year averages						----	Scout66	23.2	18.1	12.9	30.5
----	Jagger	32.5	18.3	13.4	27.5	----	Goodstreak	22.3	20.5	13.7	30.5
----	NH01046	30.5	19.1	12.7	28.0	----	Lakin (W)	21.5	19.9	12.4	26.8
----	Alliance	30.0	19.3	12.1	28.5	----	2145	20.5	19.8	13.2	24.7
----	NE99543	29.5	19.6	12.7	29.5	Gen Mills	NuHorizon (W)	20.5	20.3	12.7	24.3
----	Trego (W)	29.5	17.6	12.3	27.0	----	Turkey	19.2	21.5	13.5	29.3
----	Wahoo	29.0	18.8	12.9	27.5	----	Nuplains (W)	18.2	21.1	13.4	24.3
----	Wesley	28.5	18.8	12.7	26.0	Average all entries 24.6 20.1 13.0 26.3					
----	NW99L7068	28.0	18.0	12.3	27.0	Difference required for sig. 5% 8.0 2.4 0.9 2.9					
----	2137	28.0	19.3	12.1	28.0	Four year averages					
----	Arrowsmith (W)	26.5	19.8	13.0	30.5	Gen Mills	NuFrontier (W)	27.6	21.5	13.2	28.3
----	Harry	26.5	21.0	12.5	27.5	----	Halt	27.3	21.4	12.7	25.8
----	Above	26.5	17.9	12.5	25.5	NuPride	Empire	30.1	20.9	12.7	28.6
----	Millennium	26.5	21.2	12.5	28.5	----	Turkey	23.8	20.7	13.5	32.1
----	NE98471	26.0	19.8	12.5	28.0	----	Antelope (W)	27.9	20.6	12.7	27.3
AGRI PRO	Jagalene	25.5	18.8	12.8	25.5	----	Harry	31.1	20.4	12.7	27.5
----	Culver	25.5	20.1	13.3	28.5	----	Nuplains (W)	23.4	20.3	13.3	25.9
NuPride	Empire	25.0	21.0	12.4	29.0	Gen Mills	NuHorizon (W)	24.9	20.0	12.8	25.5
----	Arapahoe	24.5	20.5	13.0	29.0	----	Arapahoe	28.3	20.0	13.3	29.4
----	NE99495	24.0	21.3	12.3	28.5	----	Goodstreak	27.5	20.0	13.7	32.9
----	Antelope (W)	24.0	20.9	12.4	27.5	----	Millennium	31.1	20.0	12.7	28.6
----	Halt	23.5	22.1	12.1	26.0	----	Niobrara	29.6	19.8	12.9	29.4
----	Niobrara	23.5	20.2	12.8	29.0	----	Culver	29.9	19.7	13.3	28.5
----	Scout66	23.5	17.1	12.8	33.5	----	Alliance	33.6	19.6	12.3	28.4
AGRI PRO	AP502CL	23.5	18.8	12.7	25.5	----	Arrowsmith (W)	28.8	19.5	13.3	30.5
----	Pronghorn	23.0	19.3	13.3	33.0	----	2137	32.0	19.3	12.5	27.5
AGRI PRO	Thunderbolt	23.0	19.0	13.0	29.0	----	Lakin (W)	26.8	19.3	12.5	28.4
Gen Mills	NuFrontier (W)	21.5	21.0	13.3	27.5	----	Pronghorn	28.3	19.0	12.9	32.4
----	Goodstreak	21.0	19.8	13.6	33.5	----	Wahoo	32.4	18.7	13.0	28.4
----	Lakin (W)	20.5	19.9	12.1	29.0	----	Trego (W)	33.3	18.5	12.6	26.4
Gen Mills	NuHorizon (W)	20.5	19.7	12.8	25.5	----	Above	31.4	18.3	12.5	25.6
----	2145	19.0	18.7	12.9	26.5	AGRI PRO	Thunderbolt	29.1	18.3	13.2	28.3
----	Turkey	18.5	20.1	13.3	31.5	----	Wesley	29.9	18.1	13.1	25.5
----	Nuplains (W)	15.5	21.0	13.4	26.0	----	Jagger	33.1	18.0	13.5	27.0
Average all entries		24.9	19.6	12.7	28.3	----	Scout66	27.5	17.7	12.9	33.0
Difference required for sig. 5%		N.S.	2.4	N.S.	3.5	Average all entries 29.1 19.6 13.0 28.4					
Three year averages						Difference required for sig. 5% 7.2 2.2 0.8 2.8					
----	Jagger	29.7	18.1	13.6	25.5	Five year averages					
----	Trego (W)	29.3	19.0	12.6	24.8	----	Trego (W)	34.2	18.2	12.4	26.4
----	Alliance	28.8	20.3	12.4	26.5	----	Alliance	33.3	18.9	12.2	28.2
----	Wahoo	28.2	19.0	13.0	26.2	----	2137	32.8	18.6	12.3	27.3
----	2137	28.0	19.7	12.5	26.0	----	Wahoo	32.6	18.5	13.0	28.4
----	Above	27.0	18.9	12.5	24.0	----	Jagger	32.5	17.8	13.3	26.6
AGRI PRO	Jagalene	26.7	19.1	12.8	24.2	----	Millennium	31.6	19.2	12.7	28.7
----	Wesley	26.7	18.6	13.0	24.2	AGRI PRO	Thunderbolt	31.4	17.9	13.1	28.3
----	Harry	26.7	21.2	12.8	25.8	----	Wesley	30.4	17.7	13.0	25.4
----	NE98471	26.3	19.9	12.8	26.3	----	Niobrara	30.3	19.2	12.8	29.3
----	Millennium	26.2	21.1	12.8	26.5	----	Culver	29.5	19.1	13.1	28.2
NuPride	Empire	25.3	21.7	12.7	27.0	----	Pronghorn	29.1	18.7	12.9	32.2
----	Culver	24.8	20.3	13.4	26.3	----	Halt	29.0	20.6	12.7	25.8
----	Arrowsmith (W)	24.7	20.5	13.3	28.3	----	Arapahoe	28.7	19.5	13.2	28.9
----	Niobrara	24.2	20.7	13.0	27.0	----	Arrowsmith (W)	28.3	19.0	13.3	30.3
----	Antelope (W)	24.0	21.3	12.6	25.5	----	Antelope (W)	28.3	20.3	12.6	27.1
----	Halt	23.8	22.2	12.7	24.3	----	Scout66	28.1	17.4	12.8	32.8
AGRI PRO	AP502CL	23.8	20.1	12.8	24.2	----	Nuplains (W)	24.8	19.8	13.1	26.1
Gen Mills	NuFrontier (W)	23.7	21.3	13.2	26.0	----	Turkey	24.2	19.9	13.5	32.2
AGRI PRO	Thunderbolt	23.7	19.0	13.2	26.7	Average all entries 30.0 18.9 12.9 28.5					
----	Arapahoe	23.3	20.7	13.4	27.0	Difference required for sig. 5% 7.0 1.9 0.8 2.4					
----	Pronghorn	23.2	19.9	13.2	30.5						

West Dryland Wheat Variety Tests - 2004

Cheyenne, Deuel, Morrill, Box Butte Counties and Wyoming State Line

Brand	Variety	Average Yield Bu/a	Cheyenne		Deuel Yield Bu/a	State Line Yield Bu/a	Morrill Yield Bu/a	Box Butte Yield Bu/a	Cheyenne		Bushel weight lb/bu	Plant height inches	Seed weight 000/lb	Grain protein pct
			Fallow Yield Bu/a	Yield Bu/a					NT Yield Bu/a	Yield Bu/a				
—	CO980607	45	43	52	33	63	61	17	58.0	23	16.1	12.1		
Gen Mills	NuFrontier (W)	43	42	49	30	62	58	16	59.0	23	17.9	12.3		
—	Above	43	38	50	29	65	57	17	56.8	23	16.5	12.2		
AGRI PRO	TAM 111	43	39	51	31	64	56	16	59.6	24	15.5	12.8		
—	CO00D007	43	37	52	30	62	58	20	54.9	24	18.3	12.4		
AGRI PRO	Jagalene	42	45	41	31	65	54	15	59.2	24	15.7	12.8		
—	NW97S139-1 (W)	42	38	49	29	60	60	14	57.5	22	17.7	12.5		
—	Harry	42	43	53	29	62	53	11	56.6	23	16.7	12.2		
—	NE99495	42	39	48	31	62	56	14	57.6	24	17.1	12.6		
AGRI PRO	AP502CL	41	34	50	31	58	55	18	55.3	23	17.1	12.1		
—	Antelope (W)	41	40	48	28	59	58	15	57.8	22	16.6	12.5		
—	2137	41	37	47	28	61	53	19	57.4	23	16.3	12.4		
—	Avalanche	41	37	47	29	61	52	17	59.0	23	16.4	12.9		
—	NW99L7068	41	40	40	25	62	59	19	55.7	22	17.9	12.5		
Irrigated 3	Blend #10	41	39	44	28	63	52	17	57.7	23	16.5	12.6		
—	Niobrara	41	37	48	30	59	55	15	57.7	24	16.2	12.4		
—	Lakin (W)	41	38	47	25	61	55	18	58.7	22	15.7	12.6		
—	NH01046	41	39	49	31	61	52	12	57.9	23	16.5	12.5		
AGRI PRO	W99-194	41	37	49	31	60	53	16	57.9	25	16.6	13.0		
—	Jagger	40	40	43	21	63	56	18	57.0	24	17.8	13.1		
—	NE01643	40	41	40	29	60	57	13	57.7	24	16.8	13.1		
—	Ankor	40	37	46	32	60	51	16	57.8	23	16.9	12.4		
Gen Mills	NuHills (W)	40	40	45	26	63	50	15	57.6	23	16.4	12.9		
SemiDwarf 4	Blend #8	40	38	46	27	59	55	13	57.1	24	16.4	12.6		
—	Wahoo	40	38	45	29	65	50	12	57.4	23	16.5	12.7		
—	Trego (W)	40	41	50	26	60	47	14	58.5	21	15.5	12.7		
—	Wesley	40	36	45	30	62	52	17	56.7	22	16.5	13.0		
—	Pronghorn	40	40	44	29	55	54	17	59.2	26	17.0	12.7		
—	NE98471	39	38	40	28	61	51	14	55.5	24	16.4	12.5		
—	Goodstreak	39	42	44	29	57	51	12	59.5	26	16.2	13.0		
—	NE99464	39	37	40	28	60	53	14	58.4	22	18.2	13.0		
—	Halt	39	37	43	27	57	52	16	56.6	22	18.0	13.4		
Tall 3	Blend #11	39	39	43	31	57	51	13	58.9	26	17.2	12.7		
SemiDwarf 3	Blend #4	39	38	46	27	58	52	13	57.2	24	17.1	12.8		
—	Culver	39	40	48	26	61	48	12	56.8	24	16.2	12.7		
SemiDwarf 3	Blend #3	39	39	44	28	61	50	11	58.5	23	17.1	12.9		
—	Buckskin	39	41	45	28	55	54	11	59.8	27	16.9	12.6		
SemiDwarf 3	Blend #2	39	39	45	28	59	53	12	58.3	25	16.4	12.6		
—	Alliance	39	37	44	28	59	50	13	57.6	23	17.9	12.4		
—	NE00564	39	42	42	27	62	48	14	59.2	22	16.0	12.7		
—	2 Blend #6	39	40	44	26	61	51	10	58.5	24	16.8	13.0		
—	NE99543	39	37	42	27	63	50	13	57.3	24	17.1	13.1		
Gen Mills	NuHorizon (W)	39	41	46	27	55	49	13	60.3	20	16.4	12.6		
SemiDwarf 3	Blend #1	39	37	45	26	61	54	11	58.0	24	17.1	12.8		
SemiDwarf 3	Blend #5	38	38	43	26	58	49	15	58.0	23	16.6	12.8		
SemiDwarf 4	Blend #7	38	38	43	28	59	51	11	58.2	24	17.6	12.8		
—	Millennium	38	39	44	27	58	50	9	59.9	24	16.8	13.0		
—	NW97S412-1 (W)	37	35	45	22	53	52	13	57.5	22	17.3	12.8		
—	Arapahoe	37	38	42	24	58	47	10	58.6	23	17.7	13.2		
—	NW98S097 (W)	37	37	42	26	57	50	9	58.7	21	16.4	12.8		
White 3	Blend #9 (W)	37	36	45	22	58	49	11	58.8	23	15.9	12.8		
—	Scout66	35	35	43	26	47	51	10	58.8	27	16.1	12.6		
—	2145	35	37	32	24	57	46	15	58.8	21	16.8	13.6		
—	Nuplains (W)	34	36	39	23	56	40	9	60.5	21	17.4	13.4		
—	NP-02 (W)	34	34	33	26	58	43	8	59.8	21	17.8	13.8		
—	Arrowsmith (W)	33	33	43	20	59	41	3	60.0	24	16.5	13.9		
—	Turkey	32	35	41	23	48	41	6	58.6	26	17.3	13.2		
—	NW97S218-lt (W)	32	33	42	22	50	37	5	57.8	22	18.6	13.5		
Average all entries		39	38	45	27	59	52	13	58.1	23	16.8	12.8		
Diff. req. for sig. 5%		3	3	2	3	3	7	3	1.3	1.0	1.0	0.5		

(W) indicates hard white wheat

West Wheat Variety Tests

2000-2004

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches	Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb	Grain Protein pct	Bushel Weight lb/bu	Plant Height inches
Two year averages							AGRIPRO	AP502CL	41.7	15.7	12.0	56.2	23.9
Gen Mills	NuFrontier (W)	51.1	15.9	11.3	60.5	27.0	Gen Mills	NuHorizon (W)	41.4	16.0	12.2	60.5	22.5
----	Harry	51.0	15.4	11.1	57.4	26.1	----	Arapahoe	41.1	17.0	12.7	58.6	25.8
----	Wahoo	50.0	15.1	11.5	58.0	27.0	----	Scout66	40.6	15.5	12.0	59.1	29.5
AGRIPRO	Jagalene	49.5	14.3	11.9	60.5	26.0	----	Arrowsmith (W)	40.2	16.1	12.8	59.6	27.1
----	Ankor	49.5	15.2	11.3	59.0	26.6	----	2145	40.2	16.5	12.7	59.1	23.3
----	Pronghorn	49.1	14.9	11.5	60.7	30.2	----	Nuplains (W)	39.4	17.3	12.6	60.7	22.8
----	NH01046	49.1	15.0	11.8	58.9	27.1	----	Turkey	38.1	17.1	12.5	59.3	29.3
----	Above	48.8	14.7	11.4	57.8	25.8	Average all entries						
----	NW99L7068	48.7	15.5	11.4	57.7	25.3	Difference required for sig. 5%						
----	Antelope (W)	48.5	15.0	11.5	59.6	25.5			42.9	16.3	12.2	58.6	25.6
----	Trego (W)	48.5	14.3	11.5	59.4	24.3			3.7	1.2	0.5	1.4	1.8
----	Goodstreak	48.3	15.2	11.9	60.7	30.8	Four year averages						
----	Wesley	47.9	14.7	12.1	58.2	24.7	----	Harry	48.0	17.1	11.9	56.2	26.9
----	Millennium	47.8	15.2	11.8	60.5	27.5	Gen Mills	NuFrontier (W)	47.2	18.5	12.2	59.1	27.7
----	Alliance	47.5	16.0	11.3	58.9	26.3	----	Wahoo	47.1	16.7	12.5	57.4	27.7
----	NE99543	47.5	14.9	11.9	58.9	27.5	----	Millennium	46.5	16.4	12.6	59.5	28.8
----	NE99495	47.5	15.6	11.6	58.8	26.7	----	Pronghorn	46.4	16.4	12.4	59.7	30.7
----	Lakin (W)	47.4	14.7	11.5	59.7	26.1	----	Above	45.8	15.7	12.1	57.6	26.1
----	Buckskin	47.4	15.0	11.7	60.4	32.0	----	Trego (W)	45.8	16.2	12.3	59.0	24.9
Gen Mills	NuHorizon (W)	47.1	15.1	11.7	61.0	23.5	----	Goodstreak	45.7	17.5	12.9	59.7	31.5
----	Culver	46.7	15.0	11.6	57.7	27.3	----	Alliance	45.2	17.7	12.0	58.0	27.1
----	Niobrara	46.7	15.0	11.4	58.0	27.6	----	Antelope (W)	44.7	16.7	12.5	58.4	25.9
----	2137	46.6	14.9	11.4	58.5	25.9	----	Jagger	44.6	16.2	13.0	58.3	27.0
----	Avalanche	46.4	14.6	11.8	60.0	26.3	----	Wesley	44.5	16.0	12.9	57.5	24.9
----	NE98471	46.1	14.9	11.6	57.0	27.5	----	Niobrara	44.4	16.5	12.2	57.5	28.4
----	Jagger	46.0	15.4	12.3	58.2	26.7	----	Culver	44.3	16.0	12.4	57.4	27.8
----	Halt	45.8	16.3	12.5	57.4	25.0	----	Buckskin	43.9	16.7	12.5	59.2	32.8
AGRIPRO	AP502CL	45.7	14.8	11.5	56.5	25.1	----	2137	43.7	16.9	12.3	58.0	26.1
----	Arapahoe	45.4	15.9	12.1	59.0	27.2	----	Halt	43.6	17.5	13.0	57.3	24.9
----	Arrowsmith (W)	44.5	15.1	12.4	60.4	28.4	----	Arapahoe	43.5	17.5	13.0	58.3	27.9
----	2145	44.1	15.2	12.2	59.9	24.5	----	Lakin (W)	43.3	16.1	12.3	59.3	26.6
----	Scout66	43.8	14.4	11.7	59.7	31.6	----	Arrowsmith (W)	43.1	16.7	13.0	59.2	29.5
----	Nuplains (W)	43.0	15.9	12.0	61.7	23.8	Gen Mills	NuHorizon (W)	42.5	16.7	12.4	60.2	24.3
----	Turkey	41.1	15.5	12.1	60.1	31.5	----	Scout66	41.7	15.9	12.3	59.3	32.1
Average all entries		47.2	15.1	11.7	59.1	26.9	----	Nuplains (W)	40.7	18.0	12.8	60.5	25.0
Difference required for sig. 5%		4.2	1.0	0.5	1.2	2.0	----	Turkey	39.0	17.4	12.8	59.2	32.1
Three year averages							Average all entries						
Gen Mills	NuFrontier (W)	46.2	17.6	11.8	59.5	25.6	Difference required for sig. 5%						
----	Harry	46.0	17.0	11.7	56.1	25.1			44.4	16.8	12.5	58.6	27.8
AGRIPRO	Jagalene	45.5	15.4	12.3	60.3	24.7			3.9	1.4	0.5	1.4	2.1
----	Pronghorn	45.2	16.2	12.2	59.9	28.4	Five year averages						
----	Above	44.8	15.6	11.9	57.2	24.5	----	Harry	46.9	17.2	11.8	56.3	26.8
----	Wahoo	44.8	16.1	12.1	57.6	25.5	----	Wahoo	45.7	16.8	12.4	57.6	27.5
----	Ankor	44.4	16.4	11.9	58.2	25.2	----	Millennium	45.0	16.5	12.5	59.5	28.8
----	Millennium	44.2	16.2	12.3	59.7	26.5	----	Alliance	44.5	17.6	11.9	58.1	27.0
----	Trego (W)	44.2	15.3	12.0	59.0	23.1	----	Pronghorn	44.3	16.6	12.4	59.7	30.7
----	Goodstreak	44.0	17.0	12.5	59.8	29.0	----	Trego (W)	44.2	16.1	12.3	59.5	25.0
----	Alliance	43.8	17.4	11.9	58.1	25.0	----	Niobrara	43.5	16.5	12.1	57.9	28.4
----	Wesley	43.6	15.7	12.6	57.7	23.6	----	Antelope (W)	43.3	16.9	12.3	58.5	25.9
----	Antelope (W)	43.3	16.2	12.2	58.7	24.3	----	Halt	43.1	17.5	12.8	57.5	25.0
----	Buckskin	43.3	16.2	12.2	59.3	30.3	----	Culver	43.1	15.9	12.3	57.8	27.7
----	Niobrara	43.1	16.0	11.9	57.6	26.1	----	Wesley	42.9	16.2	12.8	57.6	24.8
----	Lakin (W)	43.0	15.4	12.0	59.6	24.8	----	2137	42.6	16.7	12.2	58.3	26.3
----	NE98471	42.9	16.2	12.1	56.8	26.1	----	Arrowsmith (W)	42.2	16.6	12.9	59.3	29.6
----	2137	42.7	16.5	12.2	57.9	24.5	----	Arapahoe	42.0	17.6	12.9	58.4	27.9
----	Culver	42.5	15.7	12.2	57.4	25.9	----	Buckskin	41.6	16.6	12.4	59.5	32.5
----	Halt	42.2	17.3	12.8	57.2	23.5	----	Nuplains (W)	40.2	17.8	12.7	60.7	25.0
----	Jagger	42.1	16.2	12.7	58.3	25.3	----	Scout66	39.8	15.9	12.2	59.5	31.8
Average all entries		42.9	16.8	12.4	58.6	27.9	----	Turkey	37.1	17.4	12.8	59.1	32.0
Difference required for sig. 5%		4.0	1.1	0.5	1.3	2.0	Average all entries						
		Difference required for sig. 5%											

Cheyenne Co. Irrigated Winter Wheat Variety Test - 2004

BRAND	VARIETY	Grain yield bu/a	Grain moisture pct	Bushel weight lb/bu	Kernel weight 000/lb	Grain protein pct	Plant lodging pct	Plant height inches
---	Wesley	118.1	10.7	58.4	13.5	9.9	7.8	39.8
---	NW98S097 (W)	116.9	11.5	59.3	13.8	9.6	5.4	42.1
Irrigated 3	Blend #10	115.1	11.8	58.5	13.0	10.2	6.4	41.8
AGRI PRO	Jagalene	115.0	11.6	57.9	13.1	9.5	0.9	41.9
---	NW97S139-1 (W)	114.5	11.1	60.3	13.5	9.3	24.5	42.8
---	NI03427	111.2	11.9	59.6	13.9	10.1	32.9	41.1
AGRI PRO	Platte (W)	108.9	11.0	60.9	13.6	9.9	3.1	39.0
Gen Mills	NuHorizon (W)	108.6	11.2	60.0	13.8	8.9	8.8	39.2
---	2145	108.4	11.1	60.8	15.6	10.3	3.8	40.8
---	2137	108.0	12.4	59.4	13.3	10.2	12.5	40.7
---	Jagger	107.8	10.3	58.0	14.0	10.2	0.6	40.3
Gen Mills	NuHills (W)	107.8	10.2	58.1	14.9	10.7	14.9	39.4
---	NE97V121	107.5	11.1	57.1	12.8	9.2	30.4	42.2
SemiDwarf 3	Blend #2	107.4	10.7	58.4	13.9	9.5	27.7	44.4
---	Yumar	107.2	12.1	60.0	14.3	10.2	29.6	41.8
---	Lakin (W)	107.0	11.1	60.2	12.5	9.5	2.3	42.5
---	Antelope (W)	106.6	11.0	60.2	13.5	9.6	8.6	42.3
AGRI PRO	Dumas	106.3	10.9	60.2	13.7	9.9	2.7	41.0
---	NI03418	106.0	11.8	59.7	13.5	10.4	20.1	40.1
---	NE99543	105.9	10.0	58.6	12.3	9.4	17.1	42.3
---	Halt	105.8	10.4	59.6	14.4	10.3	13.9	40.7
SemiDwarf 3	Blend #5	105.8	11.2	59.3	13.2	9.8	6.4	43.5
---	NE01643	105.7	10.9	58.7	13.6	9.3	3.1	43.5
---	NW99L7068	105.3	9.6	57.3	13.3	9.2	34.9	41.2
---	NE99495	105.0	10.6	59.2	13.8	9.9	33.4	42.0
---	NW97S412-1 (W)	104.9	11.7	60.6	13.3	9.4	5.3	42.4
AGRI PRO	W99-194	104.5	11.4	57.2	12.8	9.6	15.9	41.7
---	NI03415	104.1	10.7	58.9	13.9	10.3	14.2	41.4
---	Nuplains (W)	103.8	13.2	59.1	13.4	9.3	13.5	39.7
---	NP-02 (W)	103.2	12.0	60.2	14.9	10.3	14.6	40.4
SemiDwarf 3	Blend #4	102.0	10.5	58.1	13.8	9.0	37.9	43.2
SemiDwarf 4	Blend #8	101.7	10.5	58.0	14.6	10.0	33.7	41.9
Gen Mills	NuFrontier (W)	101.7	10.8	59.1	16.3	10.0	16.1	43.3
White 3	Blend #9 (W)	101.2	12.3	57.1	13.4	10.5	40.7	44.2
SmDf	2 Blend #6	101.1	11.4	57.4	14.3	9.7	17.8	43.4
---	NI03426	99.9	10.6	59.1	13.7	10.2	17.7	39.1
SemiDwarf 3	Blend #3	99.6	11.1	57.7	14.8	10.4	19.9	43.2
SemiDwarf 4	Blend #7	98.8	10.5	58.3	13.4	10.2	43.0	42.2
---	Alliance	97.4	10.0	55.5	14.1	9.5	56.3	42.0
---	Arrowsmith (W)	96.5	12.4	58.3	13.8	9.6	36.6	44.0
---	NI01824	95.3	10.6	59.5	13.1	10.1	35.3	42.2
---	Millennium	94.4	12.7	58.0	14.3	9.4	18.7	44.3
---	Harry	94.2	10.5	55.3	13.9	8.7	41.7	41.0
---	NE98471	94.2	10.0	57.1	14.2	9.3	24.1	43.4
---	NI03424	91.9	11.8	58.1	14.4	10.6	38.4	41.2
---	Trego (W)	91.4	10.5	57.4	13.6	9.7	45.2	41.7
SemiDwarf 3	Blend #1	90.9	11.3	57.5	14.2	9.5	41.9	43.3
---	Wahoo	89.1	10.8	55.2	13.5	9.9	46.6	43.4
---	NW97S218-lt (W)	87.4	11.2	57.0	15.9	11.0	51.6	41.7
---	NH01046	84.5	11.0	57.4	14.8	10.4	54.9	42.8
Tall 3	Blend #11	79.1	10.9	58.5	14.2	10.7	67.0	46.8
---	Goodstreak	78.2	12.1	56.4	13.4	11.1	48.1	47.6
---	Pronghorn	77.8	10.5	59.3	14.3	10.4	59.0	48.0
---	Buckskin	77.0	11.3	56.7	13.8	10.9	53.5	45.9
Average all entries		101.3	11.1	58.5	13.9	9.9	25.2	42.3
Difference required for sig. 5%		11.5	1.0	2.1	1.9	1.1	27.0	2.1

(W) Indicates Hard White Wheat

Albin Wyoming Irrigated Winter Wheat Variety Test - 2004

BRAND	VARIETY	Grain yield bu/a	Grain moisture pct	Bushel weight lb/bu	Heading date Julian	Plant height inches
----	Yumar	135.1	15.1	61.1	152	25.8
----	NW97S139-1 (W)	126.2	13.0	60.8	152	25.3
----	NW99L7068	125.1	12.5	58.7	150	27.9
----	NI03427	124.5	14.6	60.7	152	27.1
----	Harry	123.9	13.6	60.2	153	26.4
Gen Mills	NuFrontier (W)	121.5	13.6	61.4	152	28.5
----	Halt	121.1	13.8	60.3	151	25.6
----	Wahoo	120.7	14.1	61.5	153	25.1
----	NW97S412-1 (W)	120.7	13.8	62.0	153	26.1
----	NE97V121	118.2	14.6	60.3	151	28.0
Gen Mills	NuHorizon (W)	117.9	14.2	63.6	152	24.3
----	NE99495	117.7	13.4	61.2	151	26.9
----	Lakin (W)	117.7	14.0	61.6	151	26.9
----	Goodstreak	116.9	14.9	61.1	153	29.0
SemiDwarf 3	Blend #4	115.7	14.3	60.8	153	26.1
SemiDwarf 4	Blend #8	115.1	13.9	60.7	152	26.5
----	NW98S097 (W)	115.1	13.7	62.1	155	24.4
----	NI01824	114.8	12.7	62.0	150	29.4
White 3	Blend #9 (W)	114.2	14.5	60.1	153	25.5
SemiDwarf 3	Blend #3	114.0	13.9	61.1	152	26.2
SemiDwarf 3	Blend #1	113.4	14.1	61.4	152	26.4
----	Arrowsmith (W)	113.4	16.6	58.7	156	29.2
----	Wesley	113.2	12.6	60.5	151	25.5
----	NI03418	113.1	13.3	60.9	152	26.3
Irrigated 3	Blend #10	112.6	13.6	61.5	152	25.2
---- SmDf	2 Blend #6	112.4	14.3	60.9	152	25.6
SemiDwarf 3	Blend #2	112.3	13.9	61.3	153	26.2
----	NH01046	111.8	14.2	60.9	152	26.7
SemiDwarf 4	Blend #7	111.7	13.7	60.9	152	26.3
----	Antelope (W)	111.1	13.1	61.1	151	25.4
----	NE98471	111.0	12.4	58.5	151	28.6
AGRIPRO	Dumas	110.9	13.5	61.8	152	24.8
----	Trego (W)	110.7	13.7	62.4	152	24.4
----	NE01643	110.6	13.3	60.3	152	26.0
----	Alliance	109.2	13.5	60.9	150	26.6
----	NI03415	108.9	12.9	60.6	151	25.8
----	Jagger	108.6	12.0	60.6	151	27.6
----	2145	108.4	13.8	61.4	153	23.9
Tall 3	Blend #11	108.3	14.4	61.4	152	29.8
SemiDwarf 3	Blend #5	108.1	14.0	61.0	152	25.5
AGRIPRO	Jagalene	107.8	13.8	61.0	152	24.9
----	NE99543	107.3	12.5	59.9	151	26.8
----	NI03424	107.1	14.0	61.1	152	26.5
AGRIPRO	W99-194	106.5	14.5	60.8	151	28.4
AGRIPRO	Platte (W)	106.2	14.1	62.4	153	23.5
----	2137	106.0	14.9	59.2	153	24.5
----	NP-02 (W)	105.2	13.9	62.8	155	24.8
----	NI03426	103.7	13.5	61.6	151	25.2
----	Millennium	102.8	14.4	60.7	153	26.1
----	Nuplains (W)	102.8	14.1	62.4	154	24.4
----	Pronghorn	102.6	14.6	61.5	152	30.3
Gen Mills	NuHills (W)	102.1	12.8	61.4	151	26.8
----	NW97S218-It (W)	101.6	13.4	60.6	156	26.0
----	Buckskin	101.5	14.2	61.3	152	29.5
Average all entries		112.6	13.8	61.0	152	26.4
Difference required for sig. 5%		8.3	0.7	1.0	1	1.0

(W) Indicates Hard White Wheat

West Irrigated Wheat Variety Tests 2000-2004

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb pct	Grain Protein lb/bu	Bushel Weight inches	Plant Height
Two year averages						
---	Wesley	107.5	13.4	10.8	60.8	34.0
AGRI PRO	Jagalene	104.5	13.3	10.4	60.8	34.5
---	2145	100.3	14.5	11.0	62.4	34.5
---	Antelope (W)	99.8	13.3	10.3	61.7	35.3
---	NE97V121	99.3	12.9	10.2	59.6	35.0
Gen Mills	NuFrontier (W)	98.8	15.3	10.4	61.9	37.0
---	Jagger	97.8	13.2	11.3	60.8	33.0
---	Halt	97.5	13.9	11.3	61.0	34.3
Gen Mills	NuHorizon (W)	96.8	13.2	10.1	61.5	32.5
---	Yumar	96.3	14.0	10.8	61.3	35.3
AGRI PRO	Dumas	95.3	13.6	10.4	61.7	34.0
---	Lakin (W)	94.8	13.3	10.2	60.8	36.0
---	NE99543	94.8	12.6	10.2	59.9	35.5
---	2137	93.5	13.1	10.4	60.8	34.3
---	Nuplains (W)	93.3	14.3	10.5	61.5	34.3
---	NW99L7068	93.3	13.4	10.1	59.4	34.0
AGRI PRO	Platte (W)	93.0	13.6	11.0	62.3	31.8
---	Alliance	91.8	14.3	10.0	58.7	35.8
---	NI01824	91.3	13.2	11.1	61.8	35.8
---	Arrowsmith (W)	90.8	13.0	10.6	60.5	38.0
---	NE99495	90.0	14.5	10.7	59.9	34.8
---	Harry	89.8	13.7	9.8	58.2	35.0
---	Millennium	89.5	14.8	10.4	60.7	37.3
---	Wahoo	89.3	13.8	10.4	58.8	36.8
---	NE98471	88.8	14.1	10.4	59.3	35.8
---	Trego (W)	88.8	13.7	10.3	60.4	35.0
---	NH01046	88.8	13.5	10.8	60.0	36.8
Average all entries		94.6	13.7	10.5	60.6	35.1
Difference required for sig. 5% N.S.		N.S.	N.S.	0.8	2.2	1.3

Three year averages						
---	Wesley	102.2	14.4	11.7	59.7	32.8
AGRI PRO	Jagalene	101.7	14.8	11.6	60.2	34.2
---	Antelope (W)	98.7	14.2	11.3	60.9	34.7
---	2145	96.8	15.3	11.7	61.2	33.8
---	NE97V121	96.7	14.1	11.2	58.4	34.5
AGRI PRO	Dumas	96.0	14.8	11.3	61.4	33.3
Gen Mills	NuFrontier (W)	95.3	16.1	11.3	61.3	36.5
---	Jagger	95.3	14.4	12.1	59.2	32.8
---	Yumar	95.2	14.8	11.5	60.3	35.0
---	Lakin (W)	94.2	14.1	10.9	60.2	35.3
---	Halt	93.8	15.5	12.1	59.6	33.5
Gen Mills	NuHorizon (W)	93.2	14.7	10.9	60.5	32.0
---	NI01824	92.2	13.8	11.8	61.2	35.2
---	2137	92.2	14.4	11.0	59.5	33.8

Brand	Variety	Grain Yield bu/a	Kernel Weight 000/lb pct	Grain Protein lb/bu	Bushel Weight inches	Plant Height
---	Nuplains (W)	91.5	15.3	11.6	61.4	33.5
---	Trego (W)	89.5	14.4	11.2	59.1	34.3
---	Millennium	88.8	15.4	11.3	60.2	36.8
---	Alliance	87.8	15.6	10.8	57.6	35.0
---	Harry	87.8	15.1	10.9	57.0	34.7
---	Arrowsmith (W)	87.7	14.2	11.7	59.1	37.7
---	NE98471	87.0	14.8	11.4	58.2	35.2
---	Wahoo	86.2	14.9	11.4	57.3	35.8
Average all entries		93.2	14.8	11.4	59.7	34.6
Difference required for sig. 5%		9.5	1.5	0.8	2.1	1.2

Four year averages						
---	Wesley	95.8	14.2	11.9	59.3	31.3
---	Antelope (W)	93.8	14.4	11.4	60.2	32.9
Gen Mills	NuFrontier (W)	91.9	16.1	11.4	60.7	35.3
---	Jagger	91.1	14.5	12.2	58.9	31.8
---	Yumar	89.0	15.0	11.7	59.6	33.4
Gen Mills	NuHorizon (W)	88.0	15.1	11.2	60.1	30.8
---	Halt	87.8	15.9	12.3	58.6	31.8
---	Millennium	87.5	15.2	11.4	60.1	35.9
---	Lakin (W)	86.1	14.8	11.1	59.5	33.5
---	2137	85.8	14.7	11.0	58.7	32.4
---	Harry	85.8	15.4	11.0	56.7	33.5
---	Trego (W)	85.5	14.7	11.3	58.7	32.8
---	Arrowsmith (W)	85.0	14.3	11.9	59.0	36.4
---	Wahoo	84.8	15.1	11.5	57.2	34.6
---	Nuplains (W)	84.4	16.0	11.7	60.9	32.4
---	Alliance	84.3	15.7	11.0	56.9	33.6
Average all entries		87.9	15.1	11.5	59.1	33.3
Difference required for sig. 5% N.S.		N.S.	1.6	0.7	2.2	1.5

Five year averages						
---	Wesley	96.4	14.3	12.0	59.3	31.8
---	Antelope (W)	95.4	14.3	11.3	60.5	33.7
---	Jagger	91.3	15.2	12.3	59.1	32.4
---	Yumar	90.5	15.2	11.7	59.6	34.3
---	Halt	89.2	16.0	12.2	58.8	32.8
---	Millennium	88.8	15.3	11.5	60.1	36.9
---	2137	88.2	14.8	11.1	59.2	33.7
---	Nuplains (W)	87.1	16.0	11.8	61.0	33.1
---	Trego (W)	85.8	15.1	11.4	59.2	33.8
---	Wahoo	85.5	15.5	11.7	57.4	35.5
---	Arrowsmith (W)	85.2	14.6	11.9	59.0	37.3
---	Alliance	84.4	15.9	11.1	57.4	34.3
Average all entries		89.0	15.2	11.7	59.2	34.1
Difference required for sig. 5%		10.7	1.6	0.7	2.1	1.6

Cheyenne Co. Organic Winter Wheat Variety Test - 2004

BRAND	VARIETY	Grain yield bu/a	Grain moisture pct	Bushel weight lb/bu	Kernel weight 000/lb	Grain protein pct	Plant height inches
Gen Mills	NuFrontier (W)	45.7	10.0	57.6	12.9	10.4	24.1
----	NW97S139-1 (W)	45.5	10.5	56.5	11.1	9.1	24.6
----	Alliance	45.2	10.1	57.0	12.0	8.8	23.0
----	Lakin (W)	44.1	10.5	57.4	11.5	9.6	24.5
----	Buckskin	44.0	9.8	57.5	11.7	10.1	26.9
----	NI03427	43.5	10.5	58.9	11.4	9.6	23.2
----	NE97V121	43.5	10.1	58.3	11.4	10.1	21.3
----	Trego (W)	43.3	10.9	59.2	11.4	9.8	22.4
----	Wahoo	42.6	10.3	57.8	12.4	10.1	25.3
----	Harry	42.6	9.4	55.7	12.1	9.8	25.1
----	2137	42.3	10.1	57.6	11.5	9.6	23.9
Gen Mills	NuHorizon (W)	42.3	10.8	59.6	11.8	10.1	21.2
----	NE99495	42.2	10.1	56.8	12.0	10.1	23.1
SemiDwarf 3	Blend #1	41.9	10.6	57.3	12.2	10.1	23.8
----	NH01046	41.6	10.1	58.1	11.8	9.7	23.9
----	Goodstreak	41.4	10.3	59.3	12.7	10.1	26.0
----	NW97S412-1 (W)	41.4	10.0	57.6	11.7	10.1	21.6
AGRIPRO	W99-194	41.3	10.2	57.7	11.6	10.6	23.7
Tall 3	Blend #11	41.1	10.3	58.6	12.3	10.0	25.4
SemiDwarf 3	Blend #4	41.0	10.4	58.2	12.2	10.8	22.9
SemiDwarf 4	Blend #7	40.8	10.1	58.6	12.1	11.0	23.6
AGRIPRO	Jagalene	40.7	10.6	59.5	11.7	10.5	24.5
SemiDwarf 4	Blend #8	40.5	10.2	57.3	12.3	9.9	22.2
----	NI01824	40.1	10.2	58.0	13.5	10.1	22.3
----	NI03418	40.0	10.2	57.3	11.7	10.8	22.4
---- SmDf	2 Blend #6	39.7	10.4	58.5	12.6	10.0	25.1
----	NW97S218-1t (W)	39.7	9.7	57.3	13.5	11.3	22.2
----	NE99543	39.7	9.6	57.0	11.8	10.2	25.3
AGRIPRO	Platte (W)	39.7	10.4	59.0	12.7	10.7	21.3
SemiDwarf 3	Blend #2	39.6	10.0	58.2	12.2	10.6	25.2
White 3	Blend #9 (W)	39.6	10.3	57.6	12.2	10.4	23.2
----	Pronghorn	39.4	10.2	57.6	12.0	9.7	27.0
Irrigated 3	Blend #10	39.3	10.4	58.4	11.9	10.4	22.8
----	Wesley	39.0	10.0	57.4	11.5	11.3	22.0
----	Antelope (W)	39.0	10.3	57.3	11.5	10.1	21.6
----	NW98S097 (W)	38.9	10.4	58.4	12.1	10.9	21.8
----	NE98471	38.8	9.5	54.8	12.3	9.7	23.9
SemiDwarf 3	Blend #5	38.7	10.3	58.0	11.9	10.6	23.8
----	NI03426	38.7	10.8	58.1	11.9	10.6	22.1
AGRIPRO	Dumas	38.3	10.4	58.4	12.1	10.8	25.0
Gen Mills	NuHills (W)	38.2	10.7	59.6	12.7	10.4	21.7
----	2145	38.2	10.6	57.6	12.0	10.6	21.4
----	NI03415	37.9	10.3	57.3	11.4	11.2	21.9
----	NE01643	37.8	10.0	57.3	12.3	10.4	24.2
----	Nuplains (W)	37.8	10.4	58.3	12.7	10.5	21.1
----	Millennium	37.2	10.3	58.9	13.1	11.0	24.7
----	NP-02 (W)	37.1	10.3	58.7	13.1	10.6	20.9
----	NI03424	36.7	10.1	57.9	12.8	10.6	21.3
----	NW99L7068	36.6	9.8	54.6	11.7	10.4	21.6
----	Arrowsmith (W)	36.3	10.3	59.2	12.1	11.6	24.9
----	Jagger	36.1	10.4	57.3	12.3	11.3	22.7
Average all entries		40.3	10.2	57.8			23.3
Difference required for sig. 5%		2.6	0.4	1.0			3

(W) Indicates Hard White Wheat

Protein (%) of all varieties at all locations for 2004

Wheat protein at all locations tested. Ranked according to relative performance across areas tested.

BRAND	HYBRID	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17
AGRIPRO	Thunderbolt					13.3	16.2	13.9	14.6							13.5	
-----	Arrowsmith (W)	12	13.2	12.9	13.5	13.4	15.8	13.9	13.1	16.8	13.6	12.5	14.3	12.5	9.6	14.3	11.6
-----	Turkey	13.2	13.7	13.8	14.1	13.1	15.2	14.3	14.1	15.3	12.4	12.3	13.6	12.6		13.8	
-----	Halt	12.8	13.7	13.3	13.2	12.8	16.3	14.2	14.2	16.1	12.4	12.7	13.1	12.7	10.3	12.5	
-----	2145	12.6	13.3	12.7	13.2	12.6	15.6	14	13.7	16.4	13.1	13.5	13.3	11.9	10.3	14	10.6
-----	Arapahoe	12.8	13.8	13.3	13	13.2	15.4	13.4	13.4	15	12.3	12.5	13.7	12.5		14.4	
-----	NP-02 (W)	12.1	13.5	12.5	12.9	12.6	14.7	13.2	13.8	16.2	12.3	13.7	13.9	12.8	10.3	14.4	10.6
-----	Jagger	12	13.2	12.3	13	12.3	16.3	15.1	14.2	16	11.7	12.8	12.8	12.2	10.2	14	11.3
-----	NW97S218-It (W)	12.6	13	12.6	12.8	13.4	15.2	13.2	13	15.8	12.8	12.7	14.2	12.2	11	12.9	11.3
AGRIPRO	W96-1311-01 (W)	12.6	13	13.1	13.7												
-----	Goodstreak	12.9	13	13.8	13.6	12.7	15.9	13	13.2	15.2	11.5	12	13	13.1	11.1	13.9	10.1
-----	Nuplains (W)	12.1	13.1	12.6	13.4	13	15.6	13.8	13.2	15.4	12.7	12.2	14.2	12.4	9.3	13.8	10.5
Tall 3	Blend #11	12.9	13.2	13.7	13.7	13.2	15.9	13.7	13.5	14.9	11.9	11	13.6	12	10.7	13.4	10
Gen Mills	NuHills (W)	12.8	13	12.1	12.7	12.6	15.6	14.5	13.7	15.1	11.9	12	13.4	12	10.7	14.2	10.4
-----	Wesley	12.1	13.2	12.6	12.9	12.5	15.7	14	13.6	16.5	11.7	11.8	13	12	9.9	13.5	11.3
AGRIPRO	Platte (W)														9.9		10.7
-----	NW98S097 (W)	12.5	13	12.8	13.4	12.8	15.4	13.6	13.8	15.5	11.8	12	12.9	12	9.6	14.3	10.9
-----	NE99464									15.5	12.1	12.2	13.3	11.8			
SemiDwarf 3	Blend #3	12.5	12.8	12.8	13.5	12.8	14.9	13.8	13.4	15.7	12.8	10.9	13.4	11.9	10.4	13.3	
-----	Pronghorn	13	12.7	13.3	14	12.8	15.1	13.4	13.1	14.4	11.4	12.5	12.8	12.4	10.4	14	9.7
-----	NE01643	12.5	12.9	12.9	12.8	13	15.4	13.6	13.5	15.5	12.4	12.6	13.2	11.9	9.3	12.9	10.4
SemiDwarf 4	Blend #7	12.2	12.7	12.6	13.1	12.5	15.2	13.3	13.6	15.2	12.2	11	13.4	12	10.2	14.5	11
-----	Scout66	12.9	13.5	13.4	13.6	12.7	14.8	13.2	13.7	15.1	11.8	12	12.4	11.9		13.4	
-----	Buckskin	12.1	13.9	13.1	13.1	12.8	15	13.4	13.2	14.1	11.6	11.9	12.7	12.7	10.9	13.8	10.1
AGRIPRO	W99-194	12.3	13	13.3	13.1	12.5	14.1	13.6	13.2	15.9	11.8	12.6	12.9	12	9.6	13.9	10.6
White 3	Blend #9 (W)	12.3	13	12.3	13.1	13.1	14.6	13.7	13	15.2	12	12.3	12.6	12	10.5	13.4	10.4
-----	Avalanche				12.3		15.6	13.3	13.1	15	11.3	12.3	13.5	12.2		13.5	
-----	Millennium	12.2	13.5	12.9	12.7	12.7	14.3	13.8	12.5	15.3	11.9	12.2	13.6	11.8	9.4	14.1	11
-----	2 Blend #6	12	13.3	12.6	13.4	12.2	15.8	13.5	13.1	15.8	11.8	12.1	13.4	11.7	9.7	13.4	10
AGRIPRO	TAM 111				12.7		15.3	12.9	13.1	15.4	11.9	11.8	13.6	11.5		13.6	
SemiDwarf 3	Blend #5	12.2	12.9	12.5	13.1	12.2	15.3	13.3	13.5	15.6	11.8	11.7	13.3	11.6	9.8	13.5	10.6
SemiDwarf 3	Blend #1	12.3	13.1	12.8	12.8	12.6	14.9	13.4	13.3	15.1	12.1	12.3	13.1	11.2	9.5	14	10.1
-----	Antelope (W)	12.2	13.7	12.5	13.5	12.5	15.8	13.8	13.1	15.3	10.8	12	12.8	11.8	9.6	12.9	10.1
-----	NW97S412-1 (W)	12.2	13.2	11.6	13.3	12.5	15.7	13.6	12.7	14.5	11.6	12.9	13.3	11.8	9.4	13.7	10.1
-----	Trego (W)	12.4	13.4	12.8	13.8	12.3	15	13.3	12.8	14.9	11.6	11.9	13.3	12	9.7	13.1	9.8
AGRIPRO	Jagalene	12.4	13	12.4	12.6	12.7	15	13.9	13.2	15.3	12	11.6	13.3	11.8	9.5	12.6	10.5
-----	Wahoo	11.9	12.9	12.8	12.7	12.5	15.2	13.4	13.2	15.3	11.7	12	12.8	11.7	9.9	13.7	10.1
-----	NE00564									14.5	12	12	13.1	12			
-----	NE99543	11.4	12.5	12.5	13.2	12.8	14.6	14	12.7	15.7	11.5	12.9	13.5	11.7	9.4	12.9	10.2
Irrigated 3	Blend #10	12.2	13.1	12.6	12.9	12.2	14.5	13.9	13	14.6	12	11.5	13	11.7	10.2	13.7	10.4
-----	Culver	12.1	12.9	12.5	12.4	12.3	14.9	12.9	13.3	14.9	11.7	11.7	13.7	11.5		14.5	
SemiDwarf 3	Blend #2	12.4	13	12.6	12.7	12.4	15.2	13.1	13.4	15.5	12	10.7	13.1	11.9	9.5	13.1	10.6
SemiDwarf 3	Blend #4	12.2	12.9	12.8	12.9	11.6	14.4	13.2	13.4	15.3	12	11.9	12.9	11.9	9	13.8	10.8
-----	NH01046	11.9	13.3	12.9	12.8	12.3	15.6	13.1	13.1	14.3	11.5	12.4	12.9	11.6	10.4	13.3	9.7
-----	NE99495	11.9	13.4	12.8	12.5	12.5	15.3	13.6	12.7	14.9	11.7	11.6	12.9	11.9	9.9	13.1	10.1
-----	NE98471	12.4	13.1	13.1	13.2	12.1	15.7	11.9	13.4	15.4	11.1	11.4	12.8	12	9.3	13.1	9.7
Gen Mills	NuHorizon (W)	12.1	13.4	12.9	12.9	12.2	14.5	13.6	12.5	15	11.4	12.3	13.1	11.3	8.9	13.3	10.1
SemiDwarf 4	Blend #8	12.2	12.8	12.3	12.5	12.3	15.7	12.9	12.9	15.4	11.3	11.1	13.1	11.9	10	13.1	9.9
-----	Lakin (W)	11.7	13.4	12.2	12.3	12.6	15	14.1	13.1	14.8	10.8	13	12.5	11.7	9.5	12.8	9.6
Gen Mills	NuFrontier (W)	12.1	12.3	12.8	13.1	12.1	14.6	12.8	13	14.5	11.2	11.7	12.6	11.6	10	14.1	10.4
-----	NW97S139-1 (W)	12	13	12	12.9	12.1	15.3	13.4	12.4	16	11.2	10.9	12.9	11.4	9.3	13.8	9.1
-----	Niobrara				12.5		14.4	13.2	13	14.8	11.6	11.6	12.1	11.8		13.4	
-----	2137	11.3	12.5	11.8	12.6	12.4	15.6	13.3	12.8	14.5	11.7	11.9	13.3	10.7	10.2	13.2	9.6
-----	NW99L7068	11.6	12.8	11.9	13.2	12.3	15	13.2	12.2	15.4	11.5	11.8	12	11.6	9.2	13.2	10.4
NuPride	Empire	12.3	12.9	12.6	12.3	12.1	14.9	13	12.4							13.3	
-----	Above				12		14.5	13.2	13.3	15	10.8	11.3	12.4	11.7		13.1	
-----	Ankor				11.9		14.6	13.1	12.4	15.3	11.2	12	12.5	11.2		12.9	
-----	NE97V121														9.2		10.1
AGRIPRO	AP502CL					11.9	14.6	13.4	13.3	15.2	11.3	10.5	11.9	11.8		13.2	
-----	Harry	11.7	12.9	12.7	12.6	12.5	14.8	12.7	12.5	14.4	11.7	11.7	12.4	10.8	8.7	13.4	9.8
-----	CO00D007					11.6	14.1	12.8	12.2	15.3	11.6	11.9	11.7	11.3		13.7	
-----	Alliance	11.3	12.6	11.9	12.2	11.8	15.1	13	12.7	14.8	11.7	11.8	12.4	11.1	9.5	12.6	8.8
-----	CO980607									14.5	10.6	11.1	12.5	11.6			

Those varieties entered only in the irrigated and organic tests in Cheyenne Co.

-----	NI03415														10.3		11.2
-----	NI03418														10.4		10.8
-----	NI03424														10.6		10.6
-----	NI03426														10.2		10.6
-----	Yumar														10.2		
AGRIPRO	Dumas														9.9		10.8
-----	NI01824														10.1		10.1
-----	NI03427														10.1		9.6

Key to locations: 1=Saline, 2=Saunders, 3=Lancaster, 4=Clay, 5=Keith, 6=Hitchcock, 7=Perkins, 8=Lincoln, 9=Cheyenne Fallow, 10=Deuel, 11=State Line, 12=Box Butte, 13=Cheyenne Continuous, 14=Morrill, 15=Cheyenne Irrigated, 16=Furnas Continuous, 17=Cheyenne Organic.

Bushel weight (lb/bu) of all varieties at all locations for 2004

Wheat bushel weights at all locations tested. Ranked according to relative performance across areas tested.

Numeric code of county where tested. Key at bottom of page

BRAND	HYBRID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17
AGRI PRO	W96-1311-01 (W)	57	54	58	58												
AGRI PRO	Thunderbolt					61	59	58	59								
AGRI PRO	Jagalene	57	53	58	58	60	59	58	58	59	59	63	60	52	63	58	60
Gen Mills	NuHorizon (W)	56	50	52	55	60	59	58	58	60	59	63	62	56	62	60	60
Gen Mills	NuHills (W)	59	54	56	58	60	60	58	59	55	58	61	58	52	62	58	60
	Goodstreak	58	51	57	57	59	58	57	57	60	59	62	61	54	62	56	59
	Trego (W)	57	54	55	56	59	59	57	58	57	59	60	60	55	60	57	59
	Pronghorn	57	53	57	56	59	57	55	57	59	58	60	60	56	62	59	58
	Avalanche					60	58	57	58	57	59	61	60	55	62		
AGRI PRO	TAM 111					58	58	56	57	58	59	62	61	56	62		
	2145	57	49	57	56	58	57	57	57	59	58	61	60	54	62	61	58
	NP-02 (W)	56	44	53	54	59	59	59	57	61	60	62	60	52	64	60	59
3	Blend #11	56	50	56	55	59	58	57	56	59	59	61	61	54	62	59	59
	Nuplains (W)	56	47	53	56	59	59	58	56	61	59	60	61		63	59	58
	Lakin (W)	57	50	55	55	58	58	57	56	57	59	62	60	53	62	60	57
Irrigated 3	Blend #10	56	52	57	56	58	58	56	56	56	58	61	58	53	61	59	58
	Buckskin	55	44	55	54	58	58	58	57	60	60	61	61	56	62	57	58
	Scout66	55	51	54	54	59	59	57	57	56	59	60	59		60		
	NE99464									58	59	60	61	52	61		
	NW98S097 (W)	57	44	53	56	59	57	56	57	58	58	62	60	53	62	59	58
	NE00564									58	58	59	60		61		
	Millennium	56	47	52	55	57	56	57	55	58	58	61	60		61	58	59
	2137	56	51	56	55	58	57	56	56	54	57	62	58	55	60	59	58
Gen Mills	NuFrontier (W)	53	48	51	54	59	58	56	56	58	58	61	60	55	62	59	58
	Jagger	56	52	56	55	57	58	57	57	53	57	61	57	54	60	58	57
AGRI PRO	W99-194	55	50	54	54	58	58	56	55	55	58	61	60	54	59	57	58
	CO980607									55	58	62	59	53	61		
	NE99543	54	51	54	56	58	57	56	55	54	57	61	58	54	61	59	57
	NH01046	56	47	54	55	58	56	56	55	56	58	61	59	54	60	57	58
	NE99495	55	48	54	54	58	57	56	56	56	57	61	59	51	61	59	57
	NE01643	56	48	54	54	57	57	56	55	57	58	60	59	51	61	59	57
	Ankor					58	58	56	55	55	58	61	59	54	61		
	Niobrara					58	57	56	56	55	57	60	58	55	60		
SemiDwarf 3	Blend #5	55	48	55	54	57	57	56	55	55	57	60	58		60	59	58
	Above					59	58	57	57	53	57	62	58	52	60		
SemiDwarf 3	Blend #1	55	46	52	54	57	57	56	55	57	58	61	60	53	60	58	57
White 3	Blend #9 (W)	54	47	51	53	57	57	56	56	57	58	59	59		61	57	58
	Arapahoe	55	45	53	54	57	56	56	56	59	57	59	58		61		
SmDf	2 Blend #6	54	47	51	53	57	57	56	55	57	58	59	58		60	57	59
SemiDwarf 4	Blend #7	55	47	53	53	57	56	55	55	56	57	60	59		60	58	59
SemiDwarf 3	Blend #3	54	47	51	54	57	56	56	55	56	57	61	58		60	58	
	Halt	53	48	55	53	57	57	56	56	52	56	64	57	51	59	60	57
	Antelope (W)	54	46	49	53	58	56	55	55	55	57	61	58	54	62	60	57
SemiDwarf 3	Blend #2	54	45	52	54	56	56	55	55	56	57	60	59		60	58	58
	Turkey	53	46	52	52	57	57	56	56	59	58	58	59		59		
	Alliance	54	48	53	54	57	57	55	55	54	57	61	58		59	56	57
SemiDwarf 4	Blend #8	54	45	52	54	56	56	55	54	55	57	61	59	52	60	58	57
	Wesley	55	44	54	53	56	56	55	55	54	57	58	58	53	60	58	57
	Wahoo	54	46	50	52	57	56	55	55	57	58	59	58	54	59	55	58
	NW97S412-1 (W)	55	47	50	52	56	55	54	54	55	57	57	60		59	61	58
	Culver	53	45	50	54	57	56	55	55	55	56	60	58	52	59		
	Arrowsmith (W)	51	40	46	51	56	58	55	54	60	59	63	60		59	58	59
SemiDwarf 3	Blend #4	53	43	49	53	56	56	55	55	56	57	59	59	52	59	58	58
AGRI PRO	AP502CL					58	57	56	57	52	55	59	57	50	59		
	NE98471	53	47	53	53	56	55	54	54	53	55	59	56	51	59	57	55
	NW97S139-1 (W)	51	45	48	51	57	56	53	55	53	56	59	59		60	60	57
	NW99L7068	53	47	52	53	56	57	54	54	53	55	59	56	53	59	57	55
	NW97S218-It (W)	53	44	47	53	56	56	54	53	57	57	59	56		60	57	57
	CO00D007					57	57	56	55	49	56	57	56	53	58		
NuPride	Empire	53	45	51	52	56	54	55	54								
	Harry	52	43	47	50	56	54	54	53	54	56	60	59	52	58	55	56
Those varieties entered only in the irrigated and organic tests in Cheyenne Co.																	
AGRI PRO	Platte (W)															61	59
	Yumar															60	
AGRI PRO	Dumas															60	58
	NI03427															60	59
	NI01824															60	58
	NI03426															59	58
	NI03418															60	57
	NI03415															59	57
	NI03424															58	58
	NE97V121															57	58

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Certified Nebraska Seed Wheat & AgriPro Varieties

- AP 502
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- Wahoo
- 2137
- Cougar
- Thunderbolt
- Jagger
- Niobrara
- Wesley
- Vista

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Watch For Our Planted Spring Guide Coming in December!

Information on Advance Barley Trials:

The advance barley trial was grown at three locations, Lincoln and Sidney, NE; and Colby, KS. We gratefully acknowledge Mr. Pat Evans and Kansas State University for running the Colby trial. Lincoln had very good growing conditions with ample moisture. The season was earlier than normal and harvest began approximately 7 days before normal (June 28). It was harvested before the rains delayed our small grains harvest. Colby and Sidney suffered through severe drought and both were delayed by rains. The low test weight at Colby was due to weathering and sprouting. At Sidney the delayed harvest lead to increased shattering.

Winter Barley

ENTRY	VARIETY	Lincoln				Mead				Sidney				Colby, KS				State		State Rank
		HD Day after 4/30	HT in.	Yield Lbs/a	Rank	HD Day after 4/30	HT in.	Yield Lbs/a	Rank	HD Day after 4/30	HT in.	Yield Lbs/a	Rank	HD Day after 4/30 in.	HT in.	Yield Lbs/a	Rank	Test Wt. lbs/bu	Average lbs/a	
1	P-954	9.50	31.75	6462.0	10	18.00	25.00	1771.5	38	17.0	3073.5	7	13.00	23.00	3326.4	8	42.1	3658.4	26	
2	P-713	8.00	34.00	6376.5	12	17.50	28.00	3264.0	19	19.5	3219.0	5	11.00	24.50	3490.1	3	40.2	4087.4	6	
3	NE97891	6.75	32.50	5891.3	30	18.00	27.00	3198.0	20	19.0	2734.5	20	10.50	22.50	3367.7	6	41.0	3797.9	17	
4	NE99845	8.00	31.75	6822.0	2	15.00	25.50	3174.0	22	18.5	2955.0	11	10.50	23.50	3616.8	1	40.4	4142.0	2	
5	NE95711	7.50	33.50	6090.8	23	19.00	26.50	3003.0	25	18.8	2484.0	31	12.25	24.75	3117.1	22	39.8	3673.7	24	
6	P-721	9.25	32.50	6145.5	19	19.00	24.50	3084.0	24	18.8	3251.3	3	11.75	22.50	3036.0	27	40.7	3879.2	12	
7	NE99875	9.75	33.25	6772.5	4	18.00	28.00	3547.5	9	18.5	2926.5	13	13.25	23.25	3202.6	13	43.2	4112.3	4	
8	NE94738	7.00	34.00	5419.5	37	16.00	30.00	2896.5	29	20.0	2966.3	10	11.00	25.00	3079.7	25	43.0	3590.5	30	
9	NE99885	5.50	32.75	6465.0	9	12.50	26.50	2229.0	34	19.3	2544.0	26	10.00	25.00	3398.4	5	42.5	3659.1	25	
10	Perkins	12.00	31.50	5118.8	39	21.00	29.00	3001.5	26	17.0	1608.0	39	18.50	22.25	3010.1	29	39.1	3184.6	37	
11	NE99838	8.50	31.75	6195.8	17	19.50	26.50	2481.0	32	18.0	2316.0	34	12.50	22.00	3138.2	19	41.5	3532.8	33	
12	NE99820	7.50	34.25	6314.3	13	13.50	29.00	2908.5	28	22.3	2946.0	12	8.50	25.75	3006.2	30	36.1	3793.8	18	
13	NE99881	9.25	33.25	6900.0	1	20.00	26.50	3769.5	6	18.5	2574.8	24	15.50	22.50	2666.4	38	42.2	3977.7	10	
14	NE98936	9.50	32.75	6300.0	15	19.00	25.50	2932.5	27	18.3	2725.5	21	13.00	22.50	3189.1	15	42.6	3786.8	20	
15	NE98934	8.75	35.50	5670.0	34	14.50	28.00	2310.0	33	18.0	2393.3	33	13.25	23.00	3085.5	24	43.6	3364.7	36	
16	TAMBAR 501	5.75	34.25	6016.5	27	13.00	26.00	1779.0	37	17.0	1476.8	40	7.75	24.75	3153.1	17	40.5	3106.4	38	
17	NE99874	11.75	36.00	6393.8	11	22.00	30.00	3517.5	10	18.0	2517.8	29	15.50	25.00	3049.0	26	38.3	3869.5	14	
18	NE018030	9.25	31.75	6159.0	18	19.50	25.50	2707.5	31	17.0	2655.0	22	13.75	20.50	3094.6	23	41.7	3654.0	27	
19	NE018100	9.00	32.00	5673.0	33	20.00	25.00	3796.5	5	16.0	2217.8	37	16.25	20.75	2843.5	35	39.6	3632.7	28	
20	NE018131	6.75	34.50	5849.3	31	16.00	31.00	2875.5	30	19.5	2268.0	36	10.00	25.50	3339.9	7	42.8	3583.2	31	
21	NE018161	7.75	33.75	6077.3	25	17.00	26.00	3513.0	11	19.5	2768.3	19	13.00	22.25	2796.0	36	41.9	3788.7	19	
22	NE018163	7.50	33.25	6779.3	3	17.00	29.00	3477.0	13	17.8	2865.8	14	12.00	23.00	3252.0	12	43.2	4093.5	5	
23	NE018177	5.75	33.50	6103.5	22	13.50	28.50	3312.0	18	17.8	2300.3	35	10.50	25.00	3198.7	14	41.6	3728.6	23	
24	NE018180	6.25	35.25	6491.3	7	13.50	31.00	3660.0	7	19.5	2842.5	16	10.00	26.25	3126.7	20	42.0	4030.1	9	
25	NE018187	8.00	31.50	5450.3	36	20.50	27.00	3862.5	2	17.0	2504.3	30	14.50	21.50	3255.4	11	41.6	3768.1	21	
26	NE018196	6.50	33.00	5725.5	32	17.50	26.50	3408.0	16	18.0	2426.3	32	11.50	24.25	2877.1	34	35.4	3609.2	29	
27	NE018199	10.00	33.25	6032.3	26	22.00	27.50	4014.0	1	18.3	3001.5	8	17.25	22.50	3163.2	16	39.8	4052.8	8	
28	NE018211	7.50	33.50	5566.5	35	16.50	27.00	3838.5	4	18.0	2532.0	28	11.25	24.50	2987.0	31	37.5	3731.0	22	
29	NB03402	6.50	30.75	5930.3	28	15.00	24.50	1414.5	39	18.3	2643.0	23	9.25	22.75	3607.7	2	36.1	3398.9	34	
30	NB03403	5.25	35.00	6498.0	6	17.50	29.50	3381.0	17	20.0	2970.0	9	12.25	25.00	2630.9	39	36.0	3870.0	13	
31	NB03410	5.75	33.25	6303.0	14	13.50	24.50	2116.5	35	18.3	2552.3	25	11.00	21.75	2622.2	40	39.7	3398.5	35	
32	NB03413	7.00	31.75	4242.8	40	17.00	25.50	1831.5	36	16.5	2544.0	27	10.25	23.50	3294.7	10	43.1	2978.3	39	
33	NB03419	6.25	34.75	5326.5	38	14.00	27.00	3190.5	21	18.8	2811.8	18	10.75	24.25	2971.2	33	44.4	3575.0	32	
34	NB03423	8.00	33.25	5915.3	29	16.50	26.50	3444.0	15	18.5	2864.3	15	11.50	24.25	3019.7	28	42.0	3810.8	15	
35	NB03429	10.25	31.25	6082.5	24	20.00	27.00	3480.0	12	17.3	3109.5	6	13.50	21.75	3126.2	21	42.5	3949.6	11	
36	NB03435	10.50	33.50	6753.8	5	19.50	26.50	3460.5	14	18.8	3693.0	1	13.50	24.75	3454.1	4	37.9	4340.4	1	
37	NB03437	11.00	25.50	6136.5	20	21.00	27.00	3561.0	8	17.0	3295.5	2	15.75	23.50	3319.2	9	34.3	4078.1	7	
38	NB03439	9.00	35.50	6258.8	16	18.00	28.00	3843.0	3	18.0	3239.3	4	13.00	25.75	3152.6	18	44.1	4123.4	3	
39	NB03440	9.00	34.75	6481.5	8	18.50	29.00	3144.0	23	19.0	2840.3	17	15.00	24.25	2760.5	37	42.2	3806.6	16	
40	NB98919	5.00	36.50	6108.8	21	11.00	28.50	574.5	40	17.3	2048.3	38	9.50	25.25	2980.3	32	37.7	2928.0	40	
GRAND MEAN		8.1	33.2	6082.5		17.3	27.2	3019.3		18.3	2692.6		12.3	23.6	3120.1	0.0	40.6	3728.7		
CV		12.67	7.88	8.8		9.13	5.41	17.2		5.9	18.7		9.49	4.60	13.2	0	14.6			
LSD		1.20	3.06	628.3		2.66	2.48	877.7		1.3	589.0		1.37	1.27	482.1	0	6.9			



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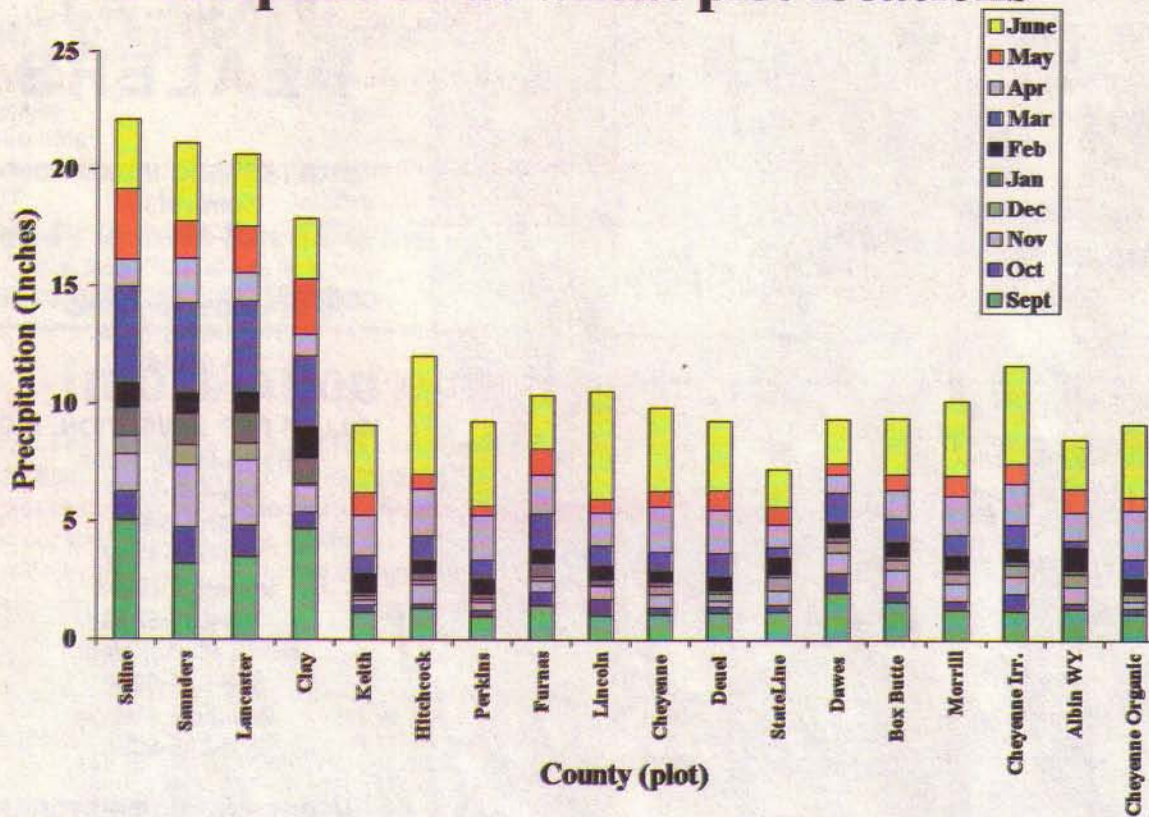
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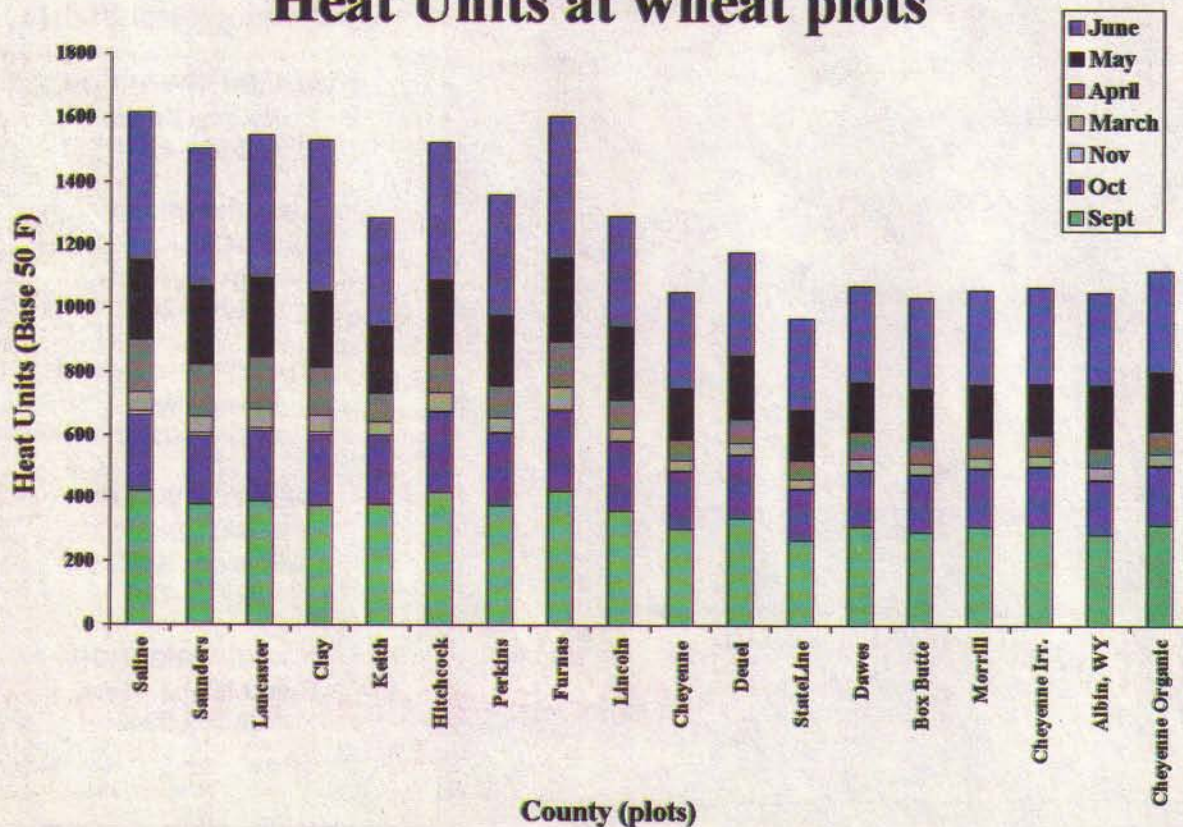
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Precipitation at wheat plot locations



Heat Units at wheat plots



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- Wesley
- Harry
- Wahoo
- Jagalene

Maschmann Mills
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Variety Test - 2004

VARIETY	Yield (bu/acre)	Test weight (lb/bu)
IA 97105-3	117	31.2
Spurs	102	29.2
Jerry	98	32.6
Rodeo	97	28.8
973A38-9-3-27	96	33.0
971A9-7-4-1	94	32.1
MN 98236	90	31.4
Oak Creek	79	29.4
Vogel	74	25.8
Don	61	31.4
Mean	90.8	30.5
LSD (0.05)	19.2	1.6

Oat Tests

One oat test in Saunders County was harvested in time for the data to be included in the seed guide. The yield best yielding variety had over 100 bu/a which indicates the influence of rain and cool weather during grain fill period. The plot was planted on March 23 and harvested on July 20.

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2003 U. of Nebraska Soybean Results

Brown County Roundup Ready Test

<u>Brand/Entry</u>	<u>Yield</u>	<u>Rank</u>	<u>Period/Test</u>
Kruger 211+ RR	66.7	#1 - 2003 Yield	entire test
Kruger 223+ RR	65.0	#2 - 2003 Yield	entire test
Kruger 227 RR	64.9	#3 - 2003 Yield	entire test

Perkins County Roundup Ready Test

<u>Brand/Entry</u>	<u>Yield</u>	<u>Rank</u>	<u>Period/Test</u>
Kruger 223+ RR	57.7	#1 - 2003 Yield	entire test
Kruger 211+ RR	55.7	#2 - 2003 Yield	entire test
Kruger 262-2 RR	55.6	#3 - 2003 Yield	entire test

Clay County Roundup Ready Test

<u>Brand/Entry</u>	<u>Yield</u>	<u>Rank</u>	<u>Period/Test</u>
Kruger 322-2 RR	76.2	#2 - 2003 Yield	early test
Kruger 289+ RR	74.7	#6 - 2003 Yield	early test
Kruger 260 RR	74.3	#9 - 2003 Yield	early test

Richardson County Roundup Ready Test

<u>Brand/Entry</u>	<u>Yield</u>	<u>Rank</u>	<u>Period/Test</u>
Kruger 353 RR	47.7	#9 - 2003 Yield	early test
Kruger 393 RR/SCN	48.2	#5 - 2003 Yield	late test
Kruger 380 RR/SCN	47.7	#6 - 2003 Yield	late test
Kruger 379 RR	47.4	#7 - 2003 Yield	late test

Saunders County Roundup Ready Test

<u>Brand/Entry</u>	<u>Yield</u>	<u>Rank</u>	<u>Period/Test</u>
Kruger 292 RR	68.3	#2 - 2003 Yield	early test
Kruger 289+ RR	67.1	#7 - 2003 Yield	early test
Kruger 251 RR	66.7	#8 - 2003 Yield	early test
Kruger 355 RR	64.7	#2 - 2003 Yield	late test
Kruger 379 RR	64.0	#5 - 2003 Yield	late test



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2003 U. of Nebraska Corn Results

Dixon Co. Dryland

(40 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.4
Pioneer	.2
Garst	No Entries
DeKalb	.1
Northrup King	No Entries
Golden Harvest	No Entries
Fontanelle	No Entries
Mycogen	No Entries

Clay Co. Dryland

(41 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.3
Pioneer	.0
Garst	No Entries
DeKalb	.1
Northrup King	.0
Golden Harvest	.1
Fontanelle	No Entries
Mycogen	.0

Hamilton Co. Irrigated

(76 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.3
Pioneer	.0
Garst	.0
DeKalb	.2
Northrup King	.0
Golden Harvest	.1
Fontanelle	.0
Mycogen	.0

Burt Co. Dryland

(73 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.3
Pioneer	.0
Garst	.0
DeKalb	.1
Northrup King	.0
Golden Harvest	.0
Fontanelle	.0
Mycogen	.0

Pierce Co. Irrigated

(63 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.2
Pioneer	.2
Garst	No Entries
DeKalb	.0
Northrup King	No Entries
Golden Harvest	No Entries
Fontanelle	.1
Mycogen	No Entries

Saunders Co. Irrigated

(84 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.1
Pioneer	.2
Garst	.0
DeKalb	.2
Northrup King	.0
Golden Harvest	.0
Fontanelle	.0
Mycogen	.0

Richardson Co. Dryland

(60 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.1
Pioneer	.2
Garst	.0
DeKalb	.0
Northrup King	No Entries
Golden Harvest	No Entries
Fontanelle	.1
Mycogen	.1

Gage Co. Dryland

(60 Competitive Entries)

Number of Entries in the Top 10 Yields

Kruger	.1
Pioneer	.0
Garst	.0
DeKalb	.0
Northrup King	No Entries
Golden Harvest	No Entries
Fontanelle	.0
Mycogen	.0

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Growing Above The Competition!

Corn, Soybean, and Grain Sorghum tests

As of the first of August, our corn, soybean and grain sorghum plots across the state look very good. All of them got planted on time and between the irrigated and timely rain, the crops are ahead of normal at most locations. I got word this morning that the Cheyenne County plots at the High Plains Ag Lab near Sidney were destroyed by hail.

As usual, our dryland crops will need some more rain during August, but with normal rainfall and temperatures, we anticipate good data for the Seed Guide which will be printed in December.

Information on Advance Triticale Trials:

The advanced triticale trial was grown at three locations: Lincoln, Mead, and Sidney, NE. Lincoln had exceptional growing conditions and the yields were very high. Diseases were rare, but foliar blotches were present on some lines. At Mead, the winter is more severe and tillering was reduced. Wheat streak mosaic virus was extraordinarily severe in eastern NE. Though triticale is phenotypically resistant to this disease, it may have reduced yields. In addition, the early season with high temperatures and a short term drought in early May also may have reduced tillering. Mead is normally about 7 days behind Lincoln, hence could have been at a more vulnerable stage when the stress came. At Sidney, the conditions were very similar to those described for barley with severe drought. However, as can be seen by the data, triticale was remarkably resistant to the droughty conditions. In cooperation with Dr. Ken Vogel, USDA-ARS, two forage trials were harvested. We gratefully acknowledge Dr. Vogel and the USDA-ARS for running the forage trials. Additional analyses on end-use quality are underway so we can provide useful information on forage triticale to our growers.

Winter Triticale

ENTRY	VARIETY	TYPE	GRAIN												
			Mead				Lincoln				Sidney				
			Hdate In May	Height in	Grain Yield lbs/a	Rank	Hdate In May	Height in	Grain Yield lbs/a	Rank	Height in	Grain Yield lbs/a	Rank	Average lbs/a	
1	NE426GT	GR	19.0	37.5	3805	5	13.3	44.7	6913	3	34.6	4082	7	4933	
2	NT00428	GR	18.4	38.6	3476	10	13.0	46.7	7217	1	34.1	3876	10	4857	
3	NT01410	GR	17.5	42.0	3876	3	13.0	46.7	6535	7	33.7	3976	9	4796	
4	NT01451	GR	19.9	38.2	3825	4	13.3	43.7	6326	13	33.1	4106	6	4752	
5	NT02403	GR	17.9	39.6	3596	8	13.0	44.0	5836	22	33.6	3437	27	4290	
6	NT02410	GR	17.8	42.5	2770	20	13.0	47.0	6350	12	33.7	3588	22	4236	
7	NT02419	GR	19.0	42.4	3910	1	13.7	48.7	6671	4	33.8	3755	15	4779	
8	NT02421	GR	17.2	43.0	3375	15	12.7	47.3	6464	9	34.8	3819	12	4552	
9	NT02431	GR	19.1	42.4	3456	12	14.0	48.3	6917	2	33.8	3578	24	4650	
10	NT02454	GR	18.1	41.9	3884	2	13.0	45.3	6097	17	33.2	4173	4	4718	
11	NE03T407	GR	17.5	42.0	3716	7	11.0	49.0	6410	11	34.1	3709	16	4612	
12	NE03T411	GR	18.2	40.5	3734	6	13.3	46.3	6081	18	33.3	4009	8	4608	
13	NE03T416	GR	14.8	38.1	3179	16	12.0	45.0	6272	14	32.4	4160	5	4537	
14	NE03T432	GR	20.5	40.3	2610	22	13.7	45.3	5518	26	32.1	3839	11	3989	
15	NE03T451	GR	18.9	40.9	3456	11	14.0	47.7	6105	16	33.1	4359	2	4640	
16	JAGGER	GR	15.2	27.0	619	30	10.0	34.7	3975	30	31.0	3424	28	2673	
17	NE03T456	GR	21.0	43.2	2498	23	15.7	46.7	6601	6	33.7	4433	1	4511	
18	NT02458	GR.FO	19.3	42.7	3478	9	14.0	45.0	6611	5	34.4	4227	3	4772	
19	NE03T452	3SEED FLORET	14.7	39.6	3397	14	10.7	43.7	5895	21	34.2	3672	18	4321	
20	NT00421	A-/FO	20.7	41.0	2110	25	13.0	47.3	5917	20	35.0	3655	20	3894	
21	NT01435	F/G	21.9	41.5	2715	21	15.7	48.3	4958	28	32.5	3691	17	3788	
22	NE422T	FO	25.2	53.1	2822	19	20.3	54.7	6129	15	39.2	3464	25	4139	
23	NT00449	FO	18.6	45.3	2904	18	12.3	51.3	5820	23	37.5	3581	23	4102	
24	NT02435	FO	18.4	41.3	3062	17	13.7	50.0	5955	19	35.0	3605	21	4208	
25	TRICAL	FO	26.1	49.6	1374	29	22.0	51.3	4556	29	37.1	2864	30	2931	
26	NE03T413	FO	18.6	47.5	3414	13	12.7	53.7	6488	8	39.6	3808	13	4570	
27	NE03T449	FO	23.6	52.8	1625	28	17.0	59.3	6425	10	40.8	3230	29	3760	
28	NE03T454	FO	23.6	51.0	2084	27	16.7	58.3	5360	27	39.3	3449	26	3631	
29	NT02456	FO.A-	20.7	40.2	2307	24	16.0	51.7	5774	24	35.3	3785	14	3955	
30	NE03T447	FO?	21.8	49.6	2105	26	16.7	60.0	5665	25	38.6	3667	19	3812	
	GRAND MEA		19.4	42.5	2972.8	0	14.1	48.4	6061.4		34.9	3767.4		4267.2	
	CV		3.7	3.1	10.26	0	5.4	3.3	8.9		4.8	5.7			
	LSD		1.0	1.8	416.40	0	1.0	2.2	738.7		2.3	295.0			

Forage Triticale Test - 2004

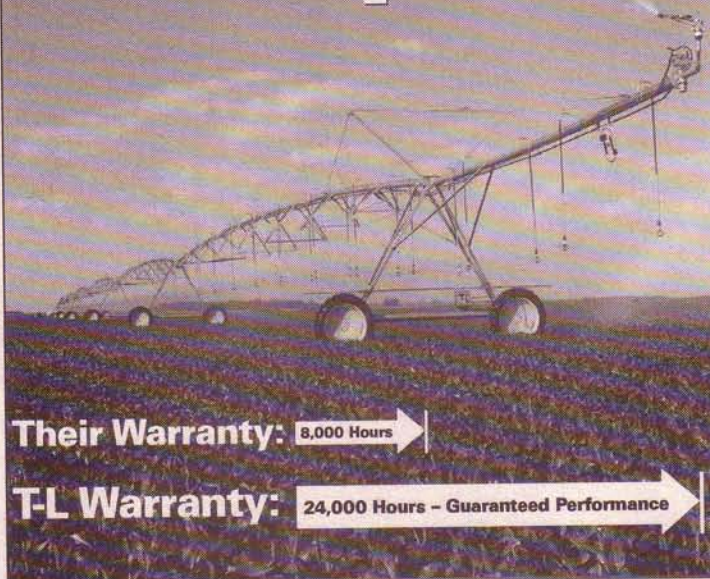
ENTRY	VARIETY	SEEDING_RA	DMATTER04M	DMTA04M	DMATTER04S	DMTA04S	DMATTERAV	DMTA04AVG	RANK
1	NE422T	40g	0.303	4.18	0.380	2.50	0.342	3.340	15
2	NE95T426	40g	0.338	4.03	0.443	3.00	0.391	3.515	12
3	Blend 60:40	40g	0.320	4.28	0.420	2.84	0.370	3.560	9
4	Blend 70:30	40g	0.313	4.07	0.418	3.04	0.366	3.555	10
5	Blend 80:20	40g	0.310	4.07	0.408	2.97	0.359	3.520	11
6	NE422T	60g	0.305	4.19	0.390	2.63	0.348	3.410	14
7	NE95T426	60g	0.335	4.40	0.440	2.91	0.388	3.655	6
8	Blend 60:40	60g	0.315	4.73	0.405	2.79	0.360	3.760	2
9	Blend 70:30	60g	0.320	4.54	0.393	2.89	0.357	3.715	4
10	Blend 80:20	60g	0.318	4.21	0.398	2.67	0.358	3.440	13
11	NE422T	80g	0.308	4.75	0.363	2.72	0.336	3.735	3
12	NE95T426	80g	0.343	4.43	0.413	3.10	0.378	3.765	1
13	Blend 60:40	80g	0.323	4.44	0.413	2.80	0.368	3.620	7
14	Blend 70:30	80g	0.323	4.49	0.413	2.66	0.368	3.575	8
15	Blend 80:20	80g	0.318	4.48	0.403	2.84	0.361	3.660	5
	GRAND MEAN		0.319	4.35	0.406	2.83	0.363	3.590	
	CV		3.206	7.17	6.391	13.73	4.799		
	LSD		0.012	0.37	0.031	0.46	0.022		

Grain table

STRANK04	VARIETY	FORAGE		Mead-----		---Sidney-----	
		Hdate	Height	Dry matter	Forage YLD	Dry matter	Forage YLD
		In May	in	At Cutting	t/a	At Cutting	t/a
1	NE426GT	19.0	39.9	0.347	4.92	0.455	2.96
2	NT00428	19.0	41.0	0.327	4.50	0.500	2.91
3	NT01410	18.1	41.8	0.335	4.50	0.468	2.78
6	NT01451	20.7	39.1	0.334	4.45	0.473	2.87
17	NT02403	18.6	40.9	0.334	4.71	0.465	2.88
18	NT02410	18.8	42.9	0.338	4.66	0.455	2.89
4	NT02419	18.5	43.2	0.342	4.54	0.443	2.93
13	NT02421	18.9	43.5	0.334	4.66	0.470	2.76
8	NT02431	19.0	41.7	0.330	4.21	0.460	2.65
7	NT02454	19.3	40.5	0.324	4.50	0.460	2.80
10	NE03T407	15.9	44.2	0.334	4.59	0.468	3.06
11	NE03T411	16.9	41.6	0.343	4.58	0.493	2.85
14	NE03T416	15.9	41.5	0.346	4.41	0.453	2.65
22	NE03T432	19.3	38.8	0.326	4.11	0.488	2.74
9	NE03T451	18.9	40.5	0.332	4.41	0.460	2.71
30	NE97426	18.4	31.5	0.364	3.37	0.580	2.41
15	NE03T456	21.6	42.1	0.315	4.60	0.428	2.95
5	NT02458	19.8	40.9	0.334	4.50	0.445	2.88
16	NE03T452	16.3	40.7	0.350	4.89	0.490	2.83
24	NT00421	21.7	41.1	0.336	4.26	0.430	2.81
26	NT01435	22.9	42.4	0.303	4.61	0.443	2.74
20	NE422T	25.9	51.0	0.311	4.43	0.420	2.83
21	NT00449	18.9	45.2	0.349	4.47	0.465	2.95
19	NT02435	19.9	42.1	0.348	4.44	0.463	2.93
29	TRICAL	25.4	50.3	0.327	4.27	0.410	2.16
12	NE03T413	20.3	47.4	0.348	5.04	0.445	2.88
27	NE03T449	23.5	53.1	0.341	4.33	0.450	2.61
28	NE03T454	24.5	51.5	0.300	4.30	0.433	2.62
23	NT02456	21.8	41.7	0.319	4.00	0.438	2.67
25	NE03T447	22.0	49.9	0.338	4.52	0.450	2.47
	GRAND MEA	20.0	43.1	0.334	4.46	0.460	2.77
	CV	3.7	3.4	3.351	7.29	4.248	8.85
	LSD	0.9	1.7	0.013	0.38	0.023	0.29

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Table 1. NEBRASKA 2003 Alfalfa Variety Test

Scottsbluff County, Panhandle Research and Extension Center
Irrigated -- 2002 Seeding

Entry	DRY MATTER TONS/ACRE					
	Seeding Year ¹	2003				
	Total	30-May	1-Jul	1-Aug	4-Sep	Total
<u>Released Cultivars</u>						
54V54	4.20	2.37	2.07	2.61	2.19	9.24
DKA 42-15	4.05	2.23	1.97	2.65	2.20	9.05
USA 4230	4.08	2.23	2.07	2.42	2.30	9.02
WL 327	4.35	2.35	1.90	2.56	2.17	8.97
Rebound 4.2	4.09	2.10	1.86	2.69	2.26	8.92
Macon	4.11	2.16	2.06	2.44	2.24	8.90
Reliance	4.14	2.12	1.86	2.66	2.22	8.85
WL 342	4.19	2.29	1.89	2.60	2.07	8.85
Feast + EV	4.08	2.29	1.90	2.47	2.05	8.72
Garst 6420	4.33	2.13	1.85	2.48	2.23	8.69
HybriForce 400	4.32	1.99	1.80	2.63	2.19	8.61
AmeriStand 403T	4.02	2.12	1.66	2.54	2.11	8.42
Vernal	4.03	2.09	1.82	2.39	2.12	8.42
Wrangler	4.09	2.22	1.81	2.22	2.15	8.39
Baker	3.87	2.31	1.81	2.30	1.93	8.36
Dawson	3.95	2.08	1.79	2.38	2.02	8.27
Perry	4.13	2.13	1.70	2.38	2.04	8.25
53Q60	4.04	2.14	1.76	2.38	1.88	8.17
<u>Experimental Strains</u>						
AFS 109 HYB	4.15	2.15	1.99	2.53	2.14	8.80
FG 4A75	4.11	2.32	1.95	2.49	2.01	8.78
FK 4A75	4.04	2.09	1.82	2.57	2.15	8.63
Experiment mean	4.12	2.19	1.87	2.50	2.13	8.68
CV (%)	9.27					5.98
MCV (%)	12.86					8.33
LSD (0.05)	0.46					0.72
LSD (0.25)	0.31					0.42
LSR (%)	96					67

¹=3 cuts

DESIGN: Randomize block
METHOD OF SEEDING: Kincaid cone drill
SOIL TYPE: Tripp fine sandy loam

PLOT SIZE: 5 rows 3' by 15'
PLANTING DATE: 5-02-02
REPS: 4

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Table 2. NEBRASKA 2003 Alfalfa Variety Test

Concord, Dixon County, Northeast Research and Extension Center
Dryland -- 2000 Seeding

Entry	DRY MATTER TONS/ACRE				2001 ² Total	2002 ² Total	3-yr Total
	Seeding Year ¹ Total	2003		Total			
		12-Jun	14-Jul				
Released Cultivars							
53V08	2.60	3.68	3.09	6.77	6.71	6.58	20.06
Target II Plus	2.70	3.66	2.91	6.57	6.87	6.10	19.53
Feast + EV	2.37	3.73	2.82	6.55	6.97	5.82	19.33
54Q53	2.47	3.65	2.83	6.47	6.24	6.38	19.10
Trophy	2.54	3.63	2.71	6.34	6.76	5.83	18.92
A 30-06	2.21	3.79	2.80	6.59	6.62	5.64	18.84
Multiplier 3	2.20	3.75	2.94	6.69	6.31	6.21	18.51
Perry	2.41	3.85	2.81	6.66	6.17	5.65	18.47
Saranac	2.23	3.59	2.60	6.19	6.55	5.64	18.38
Onedia VR	1.95	3.74	2.83	6.57	6.07	5.71	18.35
Baker	2.44	3.57	2.57	6.14	6.45	5.64	18.23
Vernal	2.79	3.67	2.64	6.30	6.45	5.24	17.99
Wrangler	3.05	3.68	2.74	6.41	6.28	5.26	17.95
Dawson	2.01	3.90	2.51	6.40	6.13	5.21	17.74
Defense + EV	2.14	3.57	2.61	6.18	5.99	5.06	17.23
Ineffective Saranac	2.46	3.15	1.92	5.07	5.53	4.65	15.25
Experimental Strains							
CW 94008	2.17	3.62	3.39	7.01	6.67	6.13	19.80
ZN 9933	2.36	3.86	2.80	6.66	6.85	6.12	19.62
4M72	2.89	3.55	2.72	6.27	7.04	6.22	19.52
CW 75044	2.19	3.75	2.76	6.51	6.77	6.17	19.45
ZG 9931	2.57	3.80	3.00	6.80	6.51	6.05	19.36
5M85	2.64	3.65	2.96	6.61	6.43	5.55	19.22
ZN 9936	2.33	3.81	2.88	6.69	6.58	5.90	19.17
CW 93007	2.25	3.57	2.96	6.54	6.52	6.03	19.08
ZG 9930	3.06	3.88	2.77	6.66	6.67	5.59	18.91
CW 64004	3.15	3.68	2.99	6.67	6.81	4.86	18.91
CW 74040	2.49	3.50	2.84	6.34	6.48	6.08	18.90
CW 83019	2.25	3.92	3.10	7.02	6.39	5.39	18.81
CW 64049	2.17	3.59	2.84	6.44	5.86	6.47	18.77
5S44	2.18	3.43	2.86	6.29	6.33	6.01	18.63
ZN 9836	2.37	3.43	2.84	6.27	6.63	5.42	18.32
ZG 9934	2.43	3.66	2.82	6.48	6.47	5.04	18.23
CW 64026	2.14	3.72	2.73	6.45	6.25	5.47	18.17
CW 54033	2.26	3.70	2.63	6.33	6.33	5.42	18.07
CW 73029	2.43	3.80	2.98	6.78	6.46	4.75	17.99
ZG 9840	2.21	3.58	2.75	6.33	6.52	5.09	17.94
CW 62050	2.39	3.51	2.66	6.17	6.41	5.11	17.69
CW 63053	2.34	3.63	2.71	6.33	6.01	5.09	17.43
Experiment mean	2.41	3.64	2.75	6.38	6.43	5.11	18.41
CV (%)	21.74	10.32	9.51	7.76	9.98	8.91	6.61
MCV (%)	29.46	14.38	13.25	10.81	12.44	12.33	9.21
LSD (0.05)	0.71	0.52	0.36	0.69	0.80	0.63	1.69
LSD (0.25)	0.41	0.31	0.21	0.40	0.47	0.37	0.99
LSR (%)	59	68	25	35	53	34	35

¹=2 cuts ²=3 cuts ³=4 cuts
DESIGN: Randomize block
METHOD OF SEEDING: V-belt drill
SOIL TYPE: Moody silty clay loam

PLOT SIZE: 5 rows 3' by 15'
PLANTING DATE: 5/03/00
REPS: 4

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Seed Guide 2004

Table 3. NEBRASKA 2003 Alfalfa Variety Test

Dawson County
Sub-irrigated -- 2002 Seeding

Entry	Seeding Year ¹ Total	19-Jun	16-Jul	2003 4-Sep	21-Oct	Total
<u>Released Cultivars</u>						
Journey Brand 204 Hybrid	1.35	3.70	1.65	1.91	1.41	8.67
Garst 6420	1.35	3.66	1.60	1.88	1.34	8.48
	1.32	3.47	1.76	1.91	1.26	8.40
5 Star	1.24	3.45	1.62	1.89	1.35	8.31
Dakota	1.30	3.25	1.57	1.90	1.49	8.20
WL 342	1.30	3.40	1.65	1.86	1.27	8.18
54H46	1.41	3.42	1.66	1.81	1.22	8.11
Masterpiece	1.28	3.33	1.62	1.81	1.28	8.04
Perry	1.37	3.30	1.48	1.95	1.26	7.99
Perfect	1.22	3.25	1.59	1.77	1.32	7.94
WL 319 HQ	1.39	3.26	1.71	1.70	1.23	7.91
Rebound 4.2	1.29	3.42	1.56	1.69	1.19	7.86
Feast + EV	1.28	3.35	1.47	1.70	1.09	7.61
GH 766	1.19	3.11	1.63	1.74	1.11	7.59
54V54	1.14	3.15	1.59	1.59	1.14	7.48
Wrangler	1.18	3.21	1.32	1.73	1.18	7.44
Dawson	1.34	3.01	1.38	1.76	1.13	7.27
Vernal	1.23	3.36	1.47	1.39	0.98	7.21
<u>Experimental Strains</u>						
DS106 HYB	1.30	3.43	1.75	1.87	1.32	8.36
40M157	1.27	3.59	1.75	1.61	1.28	8.23
CW 93013	1.26	3.69	1.74	1.63	1.15	8.20
CW 83010	1.32	3.42	1.70	1.71	1.25	8.09
50M171	1.24	3.10	1.74	1.87	1.38	8.09
CW 74041	1.21	3.27	1.58	1.86	1.29	8.00
CW 04030	1.20	3.21	1.71	1.77	1.30	8.00
40M159A	1.29	3.40	1.72	1.53	1.34	7.98
4S40	1.44	3.14	1.60	1.85	1.29	7.88
CW 94023	1.45	3.31	1.59	1.67	1.26	7.84
CW 03019	1.24	3.35	1.66	1.67	1.14	7.83
50M172	1.24	2.69	1.74	1.91	1.46	7.80
CW 94025	1.33	3.38	1.63	1.67	1.12	7.80
CW 14026	1.31	3.09	1.57	1.84	1.28	7.78
CW 04022	1.50	3.11	1.61	1.69	1.26	7.68
CW 84017	1.22	3.14	1.54	1.69	1.25	7.62
CW 04027	1.37	3.03	1.59	1.69	1.24	7.55
CW 05009	1.21	2.92	1.67	1.60	1.23	7.42
Experiment mean	1.29	3.29	1.62	1.75	1.25	7.91
CV (%)	7.47	9.59	7.19	11.82	10.48	5.03
MCV (%)	10.10	13.36	10.02	16.46	14.49	7.01
LSD (0.05)	0.15	0.44	0.16	0.29	0.18	0.55
LSD (0.25)	0.08	0.26	0.09	0.17	0.11	0.32
LSR (%)	36	44	37	52	36	38

¹=1 cut

DESIGN: Randomized block
METHOD OF SEEDING: V-belt drill
SOIL TYPE: Hall very fine sandy loam

PLOT SIZE: 5 rows 3' by 15'

PLANTING DATE: 4-9-2002
REPS: 4

Table 4 NEBRASKA
2003 Alfalfa Variety Test
 Mead, Saunders County, Agricultural Research and Development Center
 Irrigated -- 2000 Seeding

DRY MATTER TONS/ACRE										
Entry	Seeding Year ¹	2003						2001 ¹ Total	2002 ² Total	3-year Total
	Total	17-May	20-Jun	29-Jul	5-Sep	22-Oct	Total			
NO TRAFFIC										
Released Cultivars										
Ineffective Saranac	1.88	1.36	1.07	1.04	0.96	0.54	4.91	1.31	6.99	15.58
Dawson	3.85	2.16	1.65	1.85	1.63	0.49	7.78	8.57	9.73	25.50
Vernal	3.80	2.28	1.72	1.86	1.64	0.32	7.82	8.78	9.92	25.74
Saranac	3.43	2.26	1.79	1.96	1.64	0.59	8.34	7.73	9.60	25.98
Onedia VR	3.96	2.33	1.94	1.85	1.79	0.56	8.48	8.34	9.65	26.02
Perry	3.84	2.49	1.92	2.00	1.83	0.22	8.46	8.61	9.88	26.24
Feast + EV	3.91	2.26	2.09	1.88	1.80	0.69	8.72	8.74	9.71	26.82
Trump	3.98	2.46	2.16	1.96	1.80	0.50	8.88	8.35	9.84	27.05
USA 4230	3.93	2.33	2.16	2.02	1.76	0.39	8.65	8.46	10.33	27.18
Lightning II	3.93	2.51	2.30	2.15	1.87	0.59	9.42	8.11	9.45	27.31
A 30-06	3.78	2.31	2.18	2.00	1.70	0.42	8.61	9.01	9.86	27.40
Wrangler	4.09	2.54	1.86	2.31	1.62	0.46	8.79	8.47	9.70	27.48
Target II Plus	4.15	2.39	1.99	2.03	1.96	0.53	8.91	8.00	10.26	27.50
WinterCrown	4.17	2.46	2.25	2.01	1.79	0.44	8.94	8.39	10.04	27.57
Ripin	4.18	2.50	2.14	2.19	1.94	0.56	9.33	8.39	10.22	27.64
54Q53	3.97	2.58	2.20	1.94	1.79	0.46	8.97	8.82	9.90	27.71
53V08	4.04	2.52	2.23	2.19	1.73	0.47	9.14	8.41	10.77	27.74
Arapahoe	4.06	2.53	2.31	2.09	1.92	0.47	9.32	8.61	10.23	27.80
Excel	4.07	2.62	2.27	2.01	1.93	0.46	9.28	9.31	9.88	28.03
ArrowHead	4.10	2.65	2.16	2.26	1.84	0.68	9.61	8.71	10.05	28.03
Abundance	4.20	2.65	2.15	2.13	2.11	0.40	9.45	8.27	10.40	28.15
Wetland	4.21	2.55	2.11	2.27	2.02	0.74	9.69	9.30	9.99	28.64
Experimental Strains										
DS 012	4.13	2.54	2.27	2.09	1.86	0.43	9.20	7.55	9.51	25.89
CW 54033	4.19	2.48	2.11	2.00	1.54	0.47	8.60	7.45	9.50	26.18
DS 011	4.08	2.45	2.05	2.01	1.93	0.48	8.91	7.78	9.96	26.20
5M87	4.14	2.38	2.54	2.05	1.62	0.42	9.02	8.49	9.55	26.28
CW 73029	4.26	2.53	2.17	2.17	2.03	0.53	9.44	7.87	9.30	26.41
ZG 9W	4.28	2.42	2.13	2.02	1.75	0.56	8.88	8.22	9.90	26.42
CW 64004	4.30	2.54	2.16	1.96	1.61	0.52	8.79	8.33	9.83	27.00
ZG 9941	4.28	2.35	2.01	2.09	1.82	0.64	8.91	8.67	9.24	27.26
DS 014	4.14	2.64	2.33	2.24	1.77	0.40	9.39	8.39	9.90	27.35
CW 64049	4.17	2.39	2.20	2.06	1.91	0.66	9.22	8.55	9.84	27.37
CW 64026	4.23	2.31	2.31	2.03	2.21	0.45	9.31	8.42	9.98	27.46
ZG 9840	4.11	2.61	2.17	2.07	1.93	0.67	9.44	8.72	9.68	27.59
DSS 5106	4.18	2.36	2.22	2.35	1.99	0.58	9.49	8.07	9.70	27.62
CW 94008	4.20	2.67	2.56	2.00	1.72	0.49	9.43	9.36	9.95	27.79
ZC 9854 A	4.05	2.61	2.26	2.29	1.85	0.66	9.68	8.38	9.58	27.82
4M74	4.20	2.53	2.34	2.19	2.04	0.64	9.75	8.70	10.15	27.91
CW 74040	4.16	2.41	2.33	2.05	2.12	0.42	9.32	8.29	10.05	28.03
DS 015 HYB	4.05	2.48	2.26	2.10	2.12	0.56	9.53	8.50	10.46	28.04
DS 9833 HYB	4.21	2.53	2.19	2.10	2.29	0.52	9.63	8.31	10.04	28.14
CW 75044	4.19	2.54	2.61	2.18	1.99	0.45	9.77	9.12	9.82	28.20
DS 9501	4.01	2.68	2.35	2.18	1.87	0.51	9.59	9.48	9.99	28.28
DS 013	4.03	2.65	2.24	2.02	1.93	0.56	9.39	8.71	10.65	28.51
BPR 380	4.21	2.77	2.38	2.04	1.80	0.68	9.67	8.78	10.55	29.02
DS 9810 HYB	4.21	2.57	2.36	2.30	2.05	0.61	9.88	8.05	10.25	29.22
Experiment Means	4.03						8.84	8.32	9.87	26.66
CV (%)	3.38						7.57	8.87	4.20	4.61
MVC (%)	4.47						10.54	10.41	5.60	6.42
LSD (0.05)	0.18						0.93	0.48	0.55	1.71
LSD (0.25)	0.11						0.54	0.27	0.29	0.99
LSR (%)	4						19	6	15	13
TRAFFIC ⁴										
Released Cultivars										
Ineffective Saranac	1.89	1.41	1.16	1.12	1.39	0.49	5.57	1.73	6.96	17.08
Saranac	3.45	2.15	1.74	1.42	1.49	0.48	7.28	7.88	9.45	24.71
Perry	3.74	2.32	1.67	1.52	1.69	0.49	7.70	7.32	9.26	25.15
Trump	4.03	2.53	2.03	1.56	1.63	0.19	7.94	7.97	9.38	25.63
54Q53	4.01	2.61	2.09	1.68	1.85	0.34	8.52	8.38	9.28	26.29

Continued on page 41

Table 4 NEBRASKA 2003 Alfalfa Variety Test (Continued)

Mead, Saunders County, Agricultural Research and Development Center

Irrigated -- 2000 Seeding - Continued

DRY MATTER TONS/ACRE

Entry	Seeding Year ¹ Total	17-May	20-Jun	29-Jul	5-Sep	22-Oct	Total	2001 ² Total	2002 ³ Total	3-year Total
Feast +EV	3.89	2.25	1.93	1.54	1.75	0.39	7.86	7.71	8.86	26.44
Onedia VR	4.11	2.17	1.90	1.64	1.66	0.56	7.93	8.17	9.08	26.46
WinterCrown	3.98	2.76	2.22	1.66	1.87	0.30	8.81	8.27	9.21	26.55
Cawson	3.93	2.27	1.62	1.55	2.01	0.29	7.35	7.80	9.98	26.59
Ripin	4.07	2.49	1.93	1.75	1.77	0.52	8.46	7.24	9.77	26.66
Arapahoe	4.09	2.72	2.07	1.68	1.79	0.46	8.83	8.64	9.80	26.73
Vernal	3.83	2.26	1.58	1.69	1.73	0.42	7.68	8.37	9.35	26.78
Lightning II	4.07	2.57	2.22	1.67	1.78	0.26	8.51	7.68	9.83	27.31
Wrangler	4.05	2.52	1.79	1.78	1.83	0.48	8.39	8.10	9.74	27.48
Target II Plus	4.11	2.69	2.18	1.79	1.98	0.43	9.15	7.64	10.10	27.63
Excel	3.92	2.65	2.19	1.79	1.99	0.59	9.20	7.88	9.36	27.72
Abundance	4.09	2.56	1.92	1.74	1.71	0.40	8.38	8.72	10.22	27.85
53V08	4.04	2.66	2.24	1.65	1.90	0.46	8.91	8.96	10.20	27.92
ArrowHead	4.01	2.69	2.12	1.60	1.88	0.52	8.78	8.61	9.63	27.97
USA 4230	3.80	2.36	2.07	1.69	1.80	0.47	8.39	7.61	9.77	28.11
Wetland	4.07	2.50	1.97	1.48	1.74	0.60	8.29	8.26	9.87	28.44
A 30-06	3.77	2.78	2.11	1.81	1.80	0.46	9.40	8.12	10.00	28.56
DS 981 0 HYB	4.07	2.77	2.09	1.47	1.98	0.49	8.49	7.62	9.26	25.31
DS 9501	4.20	2.57	2.01	1.74	1.82	0.41	8.57	7.97	9.91	26.01
CW 64004	4.05	2.57	2.12	1.69	2.08	0.26	8.33	9.42	9.33	26.81
CW 94008	4.26	2.53	2.28	1.78	1.90	0.37	8.81	8.23	9.45	27.05
DS 011	4.06	2.66	2.09	1.69	1.85	0.42	8.63	7.42	10.30	27.26
CW 64026	4.36	2.43	2.21	1.70	1.85	0.38	8.51	7.28	9.71	27.33
ZG 9840	4.14	2.71	2.06	1.94	1.96	0.48	9.15	7.86	8.91	27.52
DS 9833 HYB	4.30	2.68	2.08	1.81	2.25	0.46	8.99	7.23	9.76	27.53
DSS 5106	4.24	2.43	2.05	1.72	1.82	0.38	8.39	7.90	9.57	27.64
CW 64049	4.12	2.60	2.38	1.90	1.62	0.49	9.25	7.96	9.79	27.84
DS 014	4.12	2.53	2.12	1.66	1.91	0.37	8.59	8.01	9.85	27.86
CW 73029	4.18	2.60	2.16	1.84	1.77	0.61	9.16	7.94	9.48	27.88
CW 54033	4.30	2.42	2.22	2.00	1.84	0.29	8.73	8.22	9.37	28.06
DS 015 HYB	4.03	2.43	2.15	1.79	1.90	0.34	8.73	7.81	10.13	28.10
5M87	3.96	2.55	2.45	2.02	2.10	0.56	9.56	7.83	9.50	28.10
ZG 9940	4.05	2.53	1.96	1.65	1.56	0.44	8.13	7.78	9.78	28.10
CW 74040	3.99	2.56	2.29	1.79	2.01	0.59	9.05	8.62	9.68	28.18
ZG 9941	4.29	2.67	1.98	1.55	1.95	0.31	8.45	8.21	10.23	28.21
4M74	4.20	2.63	2.39	1.71	1.74	0.41	9.05	8.68	9.86	28.41
CW 75044	4.17	2.65	2.33	1.85	1.91	0.45	9.36	7.56	9.86	28.45
DS 013	3.83	2.70	2.01	1.78	1.96	1.18	9.58	6.59	9.92	28.47
ZC 9854 A	4.10	2.71	2.15	1.93	1.84	0.47	9.10	8.42	9.36	28.49
DS 012	4.09	2.48	2.18	1.82	1.66	0.51	9.00	7.33	10.08	28.92
BPR 380	4.24	2.73	2.09	1.84	1.94	0.64	9.39	9.53	10.09	30.01
Experiment Means	4.02	2.46	2.01	1.67	1.80	0.44	8.39	7.88	9.61	26.68
CV (%)	3.38	6.18	7.91	11.35	10.85	40.94	6.09	5.90	3.73	5.75
MVC (%)	4.23	8.61	11.01	15.82	15.12	57.03	8.48	8.15	4.89	8.01
LSD (0.05)	0.17	0.21	0.22	0.26	0.27	0.25	0.71	0.64	0.47	2.14
LSD (0.25)	0.10	0.12	0.13	0.15	0.16	0.15	0.42	0.38	0.27	1.25
LSR (%)	7.00	15.00	17.00	29.00	31.00	25.00	18.00	9.00	1.4	16.00
Overall Trial Summary										
Experiment Means	4.03						8.62	9.78	8.10	26.67
CV (%)	3.62						6.91	3.89	6.67	5.42
MVC (%)	4.71						9.62	5.03	9.26	7.69
LSD (0.05)	0.19						0.83	0.49	0.75	2.05
LSD (0.25)	0.11						0.46	0.31	0.44	1.20
LSR (%)	8						17	14	10	14

¹ = 2 cuts.

² = 4 cuts.

³ = 5 cuts.

⁴ = Wheel traffic was applied to plots after 4 to 6 inches of regrowth had occurred and prior to irrigation. Offset passes were made on each plot so all plants within the plot received wheel traffic.

DESIGN: Split-block

METHOD OF SEEDING: V-belt drill

SOIL TYPE: Sharpsburg silty clay loam

PLOT SIZE: 5 rows 3' by 12'

PLANTING DATE: 4-27-00

REPS: 6

Table 5. NEBRASKA 2003 Alfalfa Variety Test

Mead, Saunders County, Agricultural Research and Development Center
Irrigated -- 2001 Seeding

Entry	Seeding Year ¹ Total	DRY MATTER TONS/ACRE						2002 ² Total	2-year Total
		2003							
		17-May	20-Jun	29-Jul	5-Sep	22-Oct	Total		
Released Cultivars									
Reward II	3.08	2.19	2.15	1.86	1.74	0.67	8.62	9.97	18.65
Jade II	3.04	2.21	2.01	1.82	1.74	0.60	8.38	9.85	18.31
Grandeur	3.20	2.20	1.91	1.69	1.85	0.68	8.33	9.55	17.89
Perry	3.04	2.28	1.88	1.75	1.89	0.58	8.38	9.60	17.87
Garst 6420	3.34	2.22	2.09	1.82	1.78	0.67	8.58	9.33	17.86
53Q60	3.28	2.08	2.03	1.93	1.81	0.65	8.50	9.32	17.77
DKA 42-15	3.05	2.36	1.95	1.77	1.79	0.73	8.60	9.23	17.76
Rebound 4.2	3.04	2.21	1.89	1.79	1.80	0.72	8.41	9.12	17.74
Dawson	3.09	2.07	2.14	1.83	1.72	0.35	8.11	9.52	17.69
HybriForce 400	3.15	2.25	1.91	1.95	1.87	0.67	8.65	8.98	17.65
Radiant	3.07	2.05	1.91	1.96	1.71	0.57	8.19	9.40	17.64
Macon	2.88	2.24	2.16	1.89	1.79	0.68	8.76	8.95	17.63
MultiQueen	2.99	2.06	2.05	2.01	1.85	0.56	8.53	9.04	17.63
Vernal	3.12	2.08	2.09	1.80	1.78	0.34	8.09	9.36	17.50
Wrangler	3.00	2.04	2.11	1.86	1.78	0.56	8.35	9.21	17.45
54V54	3.08	2.20	2.11	1.68	1.85	0.64	8.48	8.86	17.42
Feast + EV	3.25	2.18	1.98	1.70	1.76	0.51	8.13	9.07	17.23
FK 421	2.89	2.17	2.27	1.87	1.78	0.53	8.61	8.43	16.89
Experimental Strains									
FG 4S41	3.31	2.40	1.89	1.96	1.76	0.79	8.80	10.38	19.24
FG 4S40	2.99	2.41	2.01	2.09	1.84	0.79	9.14	9.53	18.74
CW 93018	3.17	2.28	2.08	2.06	1.90	0.71	9.02	9.58	18.59
DS 024 HYS	3.22	2.24	2.03	1.88	1.75	0.66	8.57	10.08	18.53
CW 94006	3.10	2.26	1.84	2.07	1.81	0.76	8.75	9.64	18.31
FR 98	3.00	2.10	2.02	1.89	1.83	0.73	8.56	9.64	18.21
DS 021 HYB	3.11	2.36	1.96	1.90	1.83	0.63	8.68	9.30	18.19
CW 94022	3.13	2.25	1.97	1.83	1.83	0.79	8.67	9.50	18.08
DS 023 HYB	3.10	2.33	2.15	1.80	1.83	0.76	8.87	9.25	18.05
DU 200	3.07	1.90	2.19	1.83	1.88	0.93	8.73	9.12	17.94
DAK 9900	3.07	2.23	1.88	1.84	1.84	0.86	8.64	9.01	17.82
DS 022 HYB	3.22	2.19	2.09	1.64	1.84	0.68	8.43	9.18	17.73
FG 4A75	3.20	2.24	2.18	1.77	1.82	0.65	8.67	8.71	17.40
AFS109HY	3.17	2.28	2.04	1.88	1.88	0.71	8.80	8.56	17.34
CW 83018	3.21	2.21	2.32	1.75	1.85	0.66	8.78	8.24	17.00
WR 98	3.02	2.01	2.09	1.79	1.80	0.61	8.30	8.30	16.60
Experiment Means	3.11	2.19	2.03	1.85	1.81	0.66	8.55	9.26	17.82
CV (%)	9.56	7.92	10.38	12.30	8.16	17.26	5.17	6.74	5.00
MCV (%)	13.20	11.03	14.46	17.13	11.36	24.05	7.20	9.40	6.96
LSD (0.05)	0.41	0.24	0.29	0.32	0.21	0.16	0.62	0.87	1.24
LSD (0.25)	0.24	0.14	0.17	0.18	0.12	0.09	0.36	0.51	0.72
LSR (%)	89	48	62	71	111	27	59	41	47

¹ = 2 cuts.

² = 5 cuts.

DESIGN: Randomized block
METHOD OF SEEDING: V-belt drill
SOIL TYPE: Sharpsburg silty clay loam

PLOT SIZE: 5 rows 3' by 12'

PLANTING DATE: 5-10-01

REPS: 4

Table 6. NEBRASKA 2003 Alfalfa Variety Test

Mead, Saunders County, Agricultural Research and Development Center
Irrigated -- 2002 Seeding

Entry	Seeding Year ¹ Total	Dry Matter Tons/Acre				Total
		37405.00	37446.00	2003.00 37480.00	37531.00	
<u>Released Cultivars</u>						
Journey Brand 204 Hybrid	4.93	2.81	1.97	2.26	1.41	8.45
54V54	4.88	2.57	1.86	2.51	1.35	8.29
54H91	5.35	2.61	1.96	2.24	1.41	8.21
Dakota	5.28	2.62	1.85	2.12	1.60	8.19
WL 319 HQ	5.09	2.81	1.76	1.98	1.51	8.07
Hybriforce 400	5.15	2.76	1.78	2.01	1.46	8.00
GH 750	4.92	3.02	1.86	1.70	1.37	7.96
Reward II	5.19	2.55	1.70	2.18	1.50	7.93
AmeriStand 401+Z	5.00	2.64	1.92	2.04	1.30	7.90
54H56	5.30	2.35	1.87	2.13	1.53	7.89
Perry	4.83	2.57	1.73	2.07	1.41	7.78
Garst 6420	4.76	2.58	1.72	1.83	1.45	7.58
Feast + EV	4.84	2.41	1.71	2.07	1.36	7.56
Dawson	4.55	2.42	1.67	2.11	1.27	7.48
Wrangler	4.86	2.35	1.49	1.97	1.37	7.19
Vernal	5.29	2.32	1.44	2.01	1.30	7.06
<u>Experimental Strains</u>						
DS 9809 HYB	5.22	2.68	1.90	2.65	1.58	8.80
DS 206 HYB	4.96	2.88	1.86	1.97	1.58	8.28
ZG 0043	4.83	2.61	2.00	2.12	1.51	8.23
DS 210 HYB	4.83	2.71	1.91	2.02	1.59	8.23
LS 103	4.92	2.59	1.84	2.21	1.56	8.20
DS 108 HYB	4.58	2.55	1.93	2.07	1.62	8.16
ZG 0044	4.53	2.76	1.97	2.04	1.37	8.13
ZG 9941	5.09	2.58	1.98	1.98	1.47	8.01
ZG 0146 A	4.98	2.65	1.87	1.95	1.49	7.95
ZG 0152 A	5.07	2.44	1.75	2.23	1.52	7.94
ZG 0140	4.90	2.55	1.78	2.17	1.42	7.92
DS 107 HYB	4.81	2.72	1.89	1.86	1.42	7.90
DS 204 HYB	4.83	2.49	1.96	1.96	1.49	7.90
ZG 0240 H	5.08	2.51	1.85	1.89	1.58	7.83
ZG 0147 A	4.82	2.47	1.89	1.99	1.41	7.75
ZG 0240 M	4.83	2.40	1.76	2.11	1.44	7.71
ZG 0142	5.32	2.50	1.70	2.15	1.36	7.70
ZG 0150 A	4.79	2.33	1.75	1.92	1.55	7.56
CK 2000	5.19	2.39	1.60	2.09	1.41	7.49
Experiment mean	5.11	2.58	1.81	2.07	1.46	7.92
CV (%)	6.65	10.40	12.14	12.42	5.88	6.27
MCV (%)	9.20	14.49	16.90	17.30	8.19	8.72
LSD (0.05)	0.47	0.37	0.31	0.36	0.12	0.69
LSD (0.25)	0.28	0.22	0.18	0.21	0.07	0.40
LSR (%)	61	53	55	38	34	40

¹=3 cuts

DESIGN: Randomized block
METHOD OF SEEDING: V-belt drill
SOIL TYPE: Sharpsburg silty clay loam

PLOT SIZE: 5 rows 3' by 12'
PLANTING DATE: 4-17-02
REPS: 4

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Table 7. NEBRASKA 2003 Alfalfa Variety Test

Mead, Saunders County, Agricultural Research and Development Center
Irrigated -- 2003 Seeding

Entries 2003
1-Oct

Released Cultivars

Jade II	1.68
54Q25	1.60
6400HT	1.55
6530A	1.49
A 30-06	1.48

WL 319 HQ	1.47
Phirst	1.45
Power 4.2	1.43
Vernal	1.43
Hybriforce-420/Wet	1.39

Prolific	1.37
Arapaho	1.36
Journey Brand 204 Hybrid	1.36
54V46	1.35
WL 357 HQ	1.34

Evermore	1.28
GH 711	1.26
Goldleaf	1.16
Wrangler	1.08

Experimental Strains

FSG 505	1.40
DS 310 HYB	1.38
FSG 406	1.38
DS 304 HYB	1.36
Americas Alfalfa Z-1	1.35

DS 307 HYB	1.34
DS 313 HYB	1.31
DS 311 HYB	1.30
GG 201	1.09
Americas Alfalfa Z-2	1.06

CV (%)	15.42
MCV (%)	21.48
LSD (0.05)	0.29
LSD (0.25)	0.17
LSR (%)	47

DESIGN: Randomized block
METHOD OF SEEDING: V-belt drill
SOIL TYPE: Sharpsburg silty clay loam

PLOT SIZE: 5 rows 3' by 12'
PLANTING DATE: 4-23-03
REPS: 4



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Fremont, Nebraska
800-658-4209
402-727-4200

Virgl Impl. Inc.

Wahoo, Nebraska
800-365-4505
402-443-4505

Kracl Irrigation

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402-336-4437

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NEBRASKA CROP IMPROVEMENT ASSOCIATION

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<http://www.unl.edu/ncia>

The Nebraska Crop Improvement Association is dedicated to enhancing the economic viability and well-being of the people of Nebraska and the world, through value-added products and processes.

We will achieve this goal through an organizational structure which attracts the finest people, fully develops and challenges individual talents, encourages industry-wide collaboration to advance agriculture, and maintains the Association's historic principles of integrity.

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The purpose of this directory is to provide crop producers, decision makers, and the seed industry with a reference to seed sources in Nebraska for:

This seed book includes those members whose fields were planted with eligible seed stocks and whose applications for field inspection were received by the publication date.

Inquiries about seed supplies and prices should be directed to the growers and/or seed enterprises listed, not to the Nebraska Crop Improvement Association.

1. Certified Quality Seeds

In no case is the seed listed in this seed book yet CERTIFIED, for it must be conditioned, tested in the laboratory, and labeled with the official certification tag or bulk sale certificate before it can be offered for sale as Certified Quality Seed.

Seed producers, conditioners, and distributors voluntarily use the seed certification process to assure their customers that extra care has been taken to provide them with correctly identified, genetically pure seed. The CERTIFIED SEED label identifies seed meeting quality requirements and assures the buyer of obtaining reliable performance of the variety named on the label.

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Orders for Certified seed may be accepted by the listed growers, approved conditioners, and authorized distributors only with the understanding that they will be filled if and when ALL the certification requirements are completed.

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The purpose of the NCIA's seed Quality Assurance (QA) program is to provide an unbiased and uniform quality control process and marketing tool for crop seeds grown in Nebraska and merchandised as branded products as permitted by applicable seed laws.

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Notice to Buyer: *Exclusion of Warranties and Limitations of Damages*

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Therefore, the Nebraska Crop Improvement Association *makes no warranties, expressed or implied, including warranty of merchantability, or fitness for a particular purpose concerning certified seed and hereby expressly disclaims the same.*

In no event shall the Nebraska Crop Improvement Association be responsible for *damages, actual, incidental, or consequential*, regarding certified seed provided by applicants/members and/or vendors.

However, complaints addressed to the Secretary of the Nebraska Crop Improvement Association will be investigated.

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The Nebraska Foundation Seed Division has available the following varieties for the purpose of seed certification.

Alfalfa	Wrangler				
Beans - Edible	Chase Pinto	Wei hing GN			
Millet - Proso	Dawn	Earlybird	Huntsman	Sunrise	
Millet - Foxtail	Golden German	White Wonder			
Oats - Spring	Don Jerry	Ogle	Riser	Rodeo	Settler
Wheat - HRW	Alliance Arapahoe Buckskin Centura	Cougar Culver Goodstreak	Harry Karl 92 Millennium	Niobrara Pronghorn Scout 66	Wahoo Wesley 2137
Wheat - HWW	Antelope	Arrowsmith			
Grasses - Cool Season	Manska pubescent wheatgrass				
Grasses - Warm Season	Champ big bluestem Pawnee big bluestem Camper little bluestem Trailblazer switchgrass	Trailway sideoats grama Pathfinder switchgrass Shawnee switchgrass			

All inquiries about supplies of Foundation seed should be addressed to:

Foundation Seed Division
1071 CR G RM C
Ithaca, NE 68033
402-624-8038

PLANT VARIETY PROTECTION ACT AND HOW IT BENEFITS YOU!



- Any varieties listed in this publication under the Plant Variety Protection Act will be marked with the logo and further information will be given in the variety description.
- It takes up to ten years to develop a new variety. PVP encourages plant breeding research to produce even better varieties for tomorrow. Without PVP, plant breeders could not afford to invest capital into new varieties and would not be interested in breeding improved varieties.
- Most protected varieties can only be sold as certified quality seed. This helps ensure that the seed buyer gets the variety exactly as the breeder intended it to be.
- The use of certified quality, genetically pure seed allows the complementary varieties you've chosen to make the most of the growing environment. After all, if the seed is less than the best, the crop will be, too.
- The Department of Agriculture is responsible for enforcement of Plant Variety Protection violations in Nebraska. Private seed companies are authorized to take appropriate legal action. Contact the Department of Agriculture (402-471-2394) for more information about your rights and responsibilities with PVP varieties.

WHEAT VARIETY SELECTION & COMPLEMENTATION

Because there is no single perfect variety, using complementation enables you to offset the potential weaknesses (production limitations) found in each variety with the strengths of others. This compensation improves the opportunity for yield stability and profitability of your entire wheat production system.

The number of complementary varieties you grow or the acres to be planted to each variety will depend entirely on your production conditions and special needs. There are four simple steps in using the variety complementation strategy.

- 1. Identify your workhorse varieties** - These are the varieties now being grown on a majority of your acres with a reliable and proven record of performance over a period of years.
- 2. Complement production needs and limits** - Select varieties that have useful characteristics needed for your specific production practices, soil conditions, and offer the best protection from diseases and other yield limiting factors common to your growing area.
- 3. Complement with a range of maturities** - Select varieties that mature earlier or later than your workhorse variety, because some years may favor early varieties and some may favor later varieties. A spread of maturities will also allow you to stagger your harvest and take maximum advantage of your equipment and reduce potential losses to weathering, shattering, etc.
- 4. Complement with different genetics** - Select varieties that share 50% or less similar parentage to your workhorse variety and each other. Varieties with similar genetic backgrounds can often be susceptible to the same disease and production risks.

Table 1. Partial Lists of Wheat Variety Families that Share 50% Common Parentage

ARILENE	COLT	SUMNER	YONA
Ogallala	Ike	Wesley	Lamar
Agalene	Laredo	TAM 105	Lindon*
1145	Pronghorn	Crimson	Prowers
ARAPAHOE	KARL	TAM 107	Wings*
Calver	Jagger	TAM 107	Yuma
*ahoo	Karl 92**	Akron	Yumar
Arrowsmith	PLAINSMAN V	Halt	WARRIOR
BRULE	Karl	Nekota	Cody
Arapahoe	Karl 92	Niobrara	Siouxland
Niobrara	SCOUT	Prairie Red	2163
Redland**	Agate	TAM 200	2137
Tandem	Arkan	Ogallala	LESS THAN 50% OF ANY
Vista	Buckskin	Hickok	FAMILY LISTED
CENTURK	Jules	THUNDERBIRD	Big Dawg
Centura	Larned	Longhorn	Hondo
Centurk 78**	Scout 66**	Ponderosa	Coronado
Cody	Scoutland**	Cougar	Thunderbird
CHISHOLM	TAM 105	VICTORY	Millennium
Alliance	SIOUXLAND	Laredo	Goodstreak
uster	Rawhide	Tomahawk	
Tonkawa	Windstar		

*Sister Selection (identical pedigree) **Selection from or reselection of original variety (identical pedigree)

The varieties listed within each family share at least 50% of the same parent lines. For more specific information about the parentage of your wheat varieties, see your nearby Nebraska Certified Quality Seed Source or the individual variety description in this Nebraska Wheat Seed Book.

Nebraska Crop Improvement Association

WINTER WHEAT VARIETY CHARACTERISTICS-2004

Origin	Variety	PVP Status ¹	Agronomic Characteristics ²							Reaction ³					
			Maturity	Winter-Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Protein Content	Hessian Fly	Leaf Rust	Stem Rust	Stripe Rust	Soil Borne Mosaic	Wheat Streak Mosaic
CO	Akron	P-94	med early	fair	fair-good	medium	medium	good	good	S	S	MR-MS	MS-MR	S	S
NE	Alliance	P-94	med early	fair	fair	medium	medium	good	good	MR	S	MR	MR	S	LT
NE	Arapahoe	P	medium	good	fair	medium	medium	good	very good	MR-MS	MR-MS	R	MR-MS	S	S
KS	Betty**	P-94	med early	fair	fair-good	mod short	short	good	very good	S	MS	MS-MR	R	R	MS-MR
AP*	Big Dawg	P-94	medium	fair-poor	good	medium	long	good	good	S	MR	MR-MS	R	R	MS
NE	Buckskin	N	med early	fair	fair-good	tall	long	good	good	MR	S	S	—	MR	MS
NE	Centura	P	med early	fair	fair-good	tall	long	very good	good	S	MS	MR	—	S	MS
NE	Cougar	N	medium	good	very good	medium	long	very good	very good	S	MS	MR	MR-MS	MS	S
NE	Culver	P-94	medium	fair-good	fair-good	medium	med short	good	good	S	MS-MR	R	MS	S	S
AP	Dumas	P-94	med early	fair-good	very good	short	medium	good	good	S	MS	R	S	S	MS
NE	Empire	N	medium		fair-good	medium	short	good	good	MR	MR	MR	R	S	S
NE	Goodstreak	A-94	medium	good	fair-good	tall	long	good	good	MR	S	MR	R	S	S
NE	Harry	N	medium	good	fair-good	medium	short	good	good	MR	MR	MR	MS-MR	S	S
KS	Heyne**	P-94	med early	poor	fair-good	short	short	good	good	S	MR	R	R	R	N
AP	Jagalene	P-94	medium	good	very good	short	med short	very good	good	S	R	R	R	R	MR
KS	Jagger	P-94	very early	poor	good	short	med long	fair-good	very good	S	MR-MS	MR	R	R	MT
KS	Karl 92	P	very early	fair	good	short	medium	very good	very good	S	VS	MS-MR	—	R	VS
AP	Longhorn	P	med early	fair	very good	medium	long	very good	good	S	MR-MS	R	MS	S	LT
NE	Millennium	P-94	medium	fair-good	medium good	medium	med short	good	good	R	MS	MR	MR	S	S
NE	Niobrara	P-94	medium	good	fair-good	medium	medium	fair-good	fair-good	S	MS	MR	MS	S	LT
NE	Nuplains**	P-94	medium	fair-good	good	medium	medium	good	good	S	MS-S	R	MS	S	MS-S
AP	Ogallala	P	med early	fair	good	short	medium	very good	good	S	MR-MS	MR	S	VS	LT
NE	Pronghorn	N	med early	good	fair	tall	long	very good	good	S	MS	MR	R	S	S
NE	Scout 66	N	med early	fair	fair	tall	long	good	good	S	MS	MR-MS	R	S	MS
AP	Thunderbird	P	med early	fair	good	medium	long	very good	very good	S	MS	MR	—	R	LT
AP	Thunderbolt	P-94	med early	fair-good	fair-good	mod short	medium	fair-good	fair-good		R		MS-MR	S	MT
AP	Tomahawk	P	early	fair	good	short	medium	good	good	S	MR	MR	MS	R	S
KS	Trego**	P-94	early	fair-good	good	mod short	med short	very good	good	R	MR-MS	MR	MR	MR	MT
NE	Vista	P	med early	fair-good	fair-good	short	short	good	good	R	MS-MR	MR-MS	R	S	MT
NE	Wahoo	P-94	medium	good	good	medium	medium	fair	fair-good	MR	MR	MR	R	S	S
NE	Wesley	N	medium	good	very good	short	short	good	good	S	MS	R	R	R	S
NE	Windstar	P-94	medium	good	good	medium	short	fair-good	good	S	MS-S	MR	MS	S	MS-S
KS	2137	P-94	early	fair-good	very good	mod short	medium	good	good	R	MS-MR	MS-MR	S	R	MT
KS	2145	P-94	medium	fair-good	good	mod short	med short	good	good	S	MS-MR	MS-MR		MR	S

* AgriPro

** Hard white winter wheat

1 U.S. Plant Variety Protection: N = not protected, P = protected variety, P-94 = protected under the revised PVP Act of 1994, A-94 = applied for or protected under the revised PVP Act of 1994.

2 Actual height, bushel weight, and protein content will vary widely with season, location, and production conditions. General bushel weight ratings: very good = 62 lb/bu, good = 60 lb/bu, fair = 58 lb/bu.

General height ratings (in optimum moisture) = short = 30-35", medium = 35-40", tall = 40-45"

3 R = resistant, S = susceptible, MT = moderately tolerant, LT = low tolerance, MR = moderately resistant, MS = moderately susceptible

HARD RED WINTER WHEAT

Notice: These member of the Nebraska Crop Improvement Association have available carryover certified quality wheat seed from previous years. Contact these NCIA members for more information on availability.

AgriPro brand ABILENE Abilene is a moderately early maturing variety, short in height and has very good straw strength. It has a short coleoptile, very good tillering ability, and good winterhardness. The grain has very good test weight patterns and good milling/baking qualities. It was developed, produced, and marketed exclusively under the AgriPro brand name. U.S. Protected Variety. Certificate No. 8700200. Abilene can only be sold as a class of certified seed.

COUNTY	GROWER	T
Scotts Bluff	Jirdon Agri Chemicals*	Morrill 3

PVP ABOVE Above is an awned, white-chaffed, early maturing, moderately short variety. It has good straw strength with good winterhardness. The non-transgenic herbicide tolerance in Above was developed by American Cyanamid (now BASF) using induced mutagenesis. This is a process that has been used by wheat breeders and geneticists for several decades to enhance the range of variability available for genetic improvement. Above is a wheat to be used as a component of the BASF CLEARFIELD Production System. CLEARFIELD is a unique production system comprised of herbicide-tolerant seed varieties and Beyond herbicide, a new imazamox-based herbicide to manage problem weeds. This system is designed to control weeds like jointed goatgrass, cheatgrass and other Bromus spp., ryegrass, foxtails, wild oats, wild mustard, and volunteer cereals. This production system also provides a superior broad-spectrum grass control with a wide application window. This system incorporates low rates of the Beyond herbicide which allow a large rotational crop profile and fits all tillage methods. The CLEARFIELD Production System will include a stewardship program that will help maintain the stability of the system. This means the grower must purchase Certified Above wheat seed and must agree not to save seed for planting. This means the grower must sell all of his production. Any unauthorized planting of the Above variety will be punishable under the U.S. Patent law. Above is available from your NuPride Genetics Network Affiliate. U.S. Protected Variety. Certificate No. 200200206. Above can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		228
Deuel	Carter Certified Seed*	Chappell	308-874-2595		324

PVP ALLIANCE Alliance is a moderately early maturing, moderately short height variety best adapted to dryland production. It has fair to good winterhardness, short coleoptile, very good tillering ability, moderately strong straw, and good milling/baking qualities. Alliance is similar to Redland in test weight and protein. Alliance was developed by Nebraska and the USDA-ARS from the cross Arkan/Colt/Chisholm sib. U.S. Protected Variety (PVPA 1994). Certificate No. 9400264. Alliance can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288	14	410
	D & S Hansen Farms	Hemingford	308-760-0189		151
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		70
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424	201	117
	Winkelman Seed*	Dalton	308-377-2453	12	116
Deuel	Ag Operations Group*	Big Springs	308-889-3429		233
	Carter Certified Seed*	Chappell	308-874-2595		159
	V & F Farms Co.*	Chappell	308-874-2840		157
Dundy	Dale/Henry Wicke*	Wauneta	308-394-5777	20	
Frontier	Scharf Farms	Curtis	308-367-4369	50	
Furnas	Petersen Land & Cattle	Cambridge	308-697-4370		184
Keith	Spurgin, Inc.	Paxton	308-239-4539	35	
Perkins	Glenn Colson*	Elsie	308-228-2322		
	ORK Farms*	Grant	308-352-2132		250
Sheridan	William Junge*	Gordon	308-327-2823		

PVP AgriPro brand AP502 CL AP502 CL is an awned, bronze-chaffed, early maturing, semidwarf variety. It has good straw strength and good winterhardness. The non-transgenic herbicide tolerance in AP502CL was developed by American Cyanamid (now BASF) using induced mutagenesis. This is a process that has been used by wheat breeders and geneticists for several decades to enhance the range of variability available for genetic improvement. AP502 CL is a wheat to be used as a component of the BASF CLEARFIELD Production System. CLEARFIELD is a unique production system comprised of herbicide-tolerant seed varieties and Beyond herbicide, a new imazamox-based herbicide to manage problem weeds. This system is designed to control weeds like jointed goatgrass, cheatgrass and other Bromus spp., ryegrass, foxtails, wild oats, wild mustard, and volunteer cereals. This production system also provides a superior broad-spectrum grass control with a wide application window. This system incorporates low rates of the Beyond herbicide which allow a large rotational crop profile and fits all tillage methods. The CLEARFIELD Production System will include a stewardship program that will help maintain the stability of the system. This means the grower must purchase Certified AP502 CL wheat seed and must agree not to save seed for planting. This means the grower must sell all of his production. Any unauthorized planting of the AP502 CL variety will be punishable under the U.S. Patent law. U.S. Plant Variety Protection Applied For (PVPA 1994). Certificate No. 200300044. AP502 CL can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	D & S Hansen Farms	Hemingford	308-760-0189		
Chase	Luhrs Cert Seed & Cond	Enders	308-882-5917		
Custer	Arrow Seed Company*	Broken Bow	308-872-6826		
Hitchcock	Peters Seed Farms Inc.	McCook	308-345-5170		

PVP ARAPAHOE Arapahoe is a medium maturity, medium height variety with very good winterhardiness and tillering ability. It is well adapted to most dryland sites in the northern and western HRW regions. Arapahoe has a medium length coleoptile and fair to good straw strength. The grain has good test weight patterns and milling/baking qualities. Arapahoe was developed by Nebraska and the USDA-ARS from the cross Brule/3/Parker*4/Agent//Belot.198/Lancer. U.S. Protected Variety. Certificate No. 8900295. Arapahoe can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288		
Buffalo	Donald Muhlbach	Ravenna	308-452-3588	14	
Chase	Luhrs Cert Seed & Cond*	Enders	308-882-5917		90
Frontier	Kelly/Kent Lehmann	Eustis	308-486-5505	12	
Gage	Paben Farms	Beatrice	402-228-0629	17	
Kearney	J.M. Kuehn Inc.*	Heartwell	308-563-2101		15
Perkins	Poppe Farms*	Grant	308-289-1148		
Saunders	Kubik Seed Sales*	Prague	402-663-4379		
Webster	Robert Bolte	Blue Hill	402-756-2107		15

PVP BUCKSKIN Buckskin is a moderately early maturing, tall variety with good yield stability in the Nebraska panhandle and surrounding dryland production areas. It has fair winterhardiness, good test weight patterns, long coleoptile, good tillering ability, moderately strong straw, and good milling/baking qualities. Buckskin was developed by Nebraska and the USDA-ARS from the cross Scout/4/Quivira/2/Tenmarq/3/Marquillo/Oro.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288		
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424		
Kimball	Dewain Lockwood*	Kimball	308-235-4104		

PVP CENTURA Centura is a moderately early maturing, tall variety with good fall and early spring growth for use on the lighter dryland soils. It has fair winterhardiness, long coleoptile, good tillering ability, and fair straw strength. The grain has good test weight patterns and milling/baking qualities. Centura was developed by Nebraska and the USDA-ARS from the cross Warrior*5/Agent//NE 68457/3/Centurk 78. U.S. Protected Variety. Certificate No. 8400086. Centura can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288		80

COUGAR Cougar is a medium maturing, medium height variety and is slightly shorter than Arapahoe and Rawhide. It was tested under the designation NE93496. Yield performance and protein content are similar to Arapahoe, but with much superior standability and improved test weight patterns (+ 3 lbs/bu). Cougar has a long coleoptile and is well adapted to both dryland and irrigated production conditions. It is moderately resistant to stem rust; moderately susceptible to leaf rust; and susceptible to soilborne mosaic virus, Hessian fly, barley yellow dwarf virus, and wheat streak mosaic virus. Cougar was developed by Nebraska and the USDA-ARS from the cross NE85707/Thunderbird.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Hamilton	Andersen & Associates*	Marquette	402-854-2225		26
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		

PVP CULVER Culver is a medium maturing, medium height variety best adapted to south central and southwest Nebraska and similar dryland wheat production areas in adjacent states. It was tested under the designation NE93554. Culver may be described as a shorter Arapahoe, 2 to 3 inches shorter, with higher yield, similar in maturity and other agronomic/end-use traits, but is susceptible to Hessian fly. Its performance in western Nebraska has been equal to Arapahoe. It has fair to good winterhardiness, medium length coleoptile, very good tillering ability, and moderately strong straw. Culver was developed by Nebraska and the USDA-ARS from the cross of NE82419/Arapahoe which includes parentage from Trapper, Scout, Buckskin, Homestead and others. U.S. Protected Variety (PVPA 1994). Certificate No. 9900404. Culver can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Frontier	Dunbar Seed*	Eustis	308-486-5590		25
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		

PVP AgriPro brand CUTTER Cutter is a medium maturing, medium height variety. It has average winterhardiness (equal to Jagger) with a short coleoptile. It has resistance to stem rust, leaf rust and is moderately resistant to wheat streak mosaic. Cutter is a good quality wheat with very good drought tolerance and good milling and baking qualities. Seed is produced and marketed exclusively under the AgriPro brand name. U.S. Protected Variety. Certificate No. 200200199. Cutter can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Butler	Arrow Seed Co.	Broken Bow	308-872-6826		
Franklin	Ingram Feed & Seed	Franklin	308-425-3200		
Logan	Husa Seed Farms	Barneston	402-674-3188		

PVP AgriPro brand DUMAS Dumas is a medium early maturing, short variety with excellent straw strength. It has average winterhardiness (equal to Jagger) with a short coleoptile. It has resistance to stem rust and is moderately susceptible to leaf rust and wheat streak mosaic. Dumas is recommended for irrigate and high production dryland areas. Dumas is a good quality wheat with very good test weight. Seed is produced and marketed exclusively under the AgriPro brand name. U.S. Protected Variety (PVPA 1994). Certificate No. 200100218. Dumas can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		
Butler	Arrow Seed Company*	Broken Bow	308-876-6826		
Furnas	Von Johnson	Cambridge	308-697-4654		
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		
Scotts Bluff	Jirton Agri Chemicals*	Morrill	308-247-2126		

NuPride EMPIRE brand Empire is late maturing, 1-2 days later than Arapahoe and Wesley. Empire has moderate straw strength with a short coleoptile. The mature plant height is 35 inches. It is moderately resistant to stem rust, leaf rust, and Hessian fly. Empire is susceptible to wheat soilborne mosaic virus and wheat streak mosaic virus, but demonstrates a low level of tolerance to barley yellow dwarf virus. Empire is a brand name for NE97638 which was developed by the Nebraska Agricultural Experiment Station. It was selected from the cross NE90614/NE87612. The pedigree of NE90614 is Brule/4/Parker*4/Agent//Beloterkovskaia 198/Lancer /3/Newton/Brule. The pedigree of NE87612 is Newton//Warrior*5/Agent/3/Agate sib. Empire is marketed exclusively under the NuPride Genetics Network brand name.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		362
Butler	Arrow Seed Company	Broken Bow	308-872-6826	12	88
Frontier	Dunbar Seed*	Eustis	308-486-5590		17
	Kent & Kelly Lehmann	Eustis	308-485-5505		12
Perkins	ORK Farms	Grant	308-352-2132	40	
Thayer	Maschmann Mills*	Deshler	402-365-4369		129

PVP GOODSTREAK Goodstreak is medium in maturity about 1 day earlier than Buckskin and 2 days later than Pronghorn. It has a long coleoptile similar in length to Pronghorn and slightly shorter than Buckskin. The mature plant height of Goodstreak is 38 inches. It has moderate straw strength better than Arapahoe, Buckskin, and Pronghorn, but not as good as Wesley. The winter hardiness of Goodstreak is good to very good and comparable to other winter wheat cultivars adapted and commonly grown in Nebraska. Goodstreak is moderately resistant to stem and stripe rust and Hessian fly (better than Buckskin). It is susceptible to leaf rust and wheat streak mosaic virus. Goodstreak was evaluated as NE97465 in Nebraska yield nurseries. It was selected from the cross SD3055/KS88H164//NE89646. The pedigree of SD3055 is ND604/SD2971 where ND604 is Len//Butte/ND526 and SD2971 is Agent/3/ND441// Waldron/Bluebird/4/Butte/5/Len. The pedigree of KS88H164 is Dular/Eagle//2*Cheney/Larned /3/TAM107. The pedigree of NE89646 is Colt *2/Patrizanka. Goodstreak was developed cooperatively by the Nebraska Agricultural Experiment Station and the USDA-ARS and released in 2002 by the developing institutions and the Wyoming Agricultural Experiment Station. Application for Plant Variety Protection is anticipated.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms	Hemingford	308-487-5288		18
	D & S Hansen Farms	Hemingford	308-760-0189		228
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424		434
	Winkelman Seed	Dalton	308-377-2453		12
Deuel	Ag Operations Group*	Big Springs	308-889-3429		200
	V & F Farms Co.*	Chappell	308-874-2840		311
Keith	Spurgin, Inc.	Paxton	308-239-4539		35
Scotts Bluff	Kiowa Creek Land & Cattle	Scottsbluff	308-632-7712		62

HARRY Harry is late in maturity about 2-3 days later than Arapahoe and Wesley. Harry is a semi-dwarf wheat cultivar with a short coleoptile similar to Arapahoe. It is shorter than Arapahoe with a mature height of 32 inches. Harry has moderate straw strength similar to Arapahoe, but less than Wesley. The winterhardiness of Harry is good to very good, similar to Abilene and comparable to other winter wheat cultivars adapted and commonly grown in Nebraska. Harry is moderately resistant to stem and leaf rust. It is susceptible to wheat soilborne mosaic virus and wheat streak mosaic virus but may contain a low level of tolerance to barley yellow dwarf virus. Harry was selected from the cross NE90614/NE87612 which was made in 1991. It was evaluated as NE97689 in Nebraska yield nurseries starting in 1998. The pedigree of NE90614 is Brule/4/Parker*4/Agent//Beloterkovskaia 198/Lancer /3/Newton/Brule. The pedigree of NE87612 is Newton//Warrior*5/Agent/3/Agate sib. Harry was developed by Nebraska and the USDA-ARS.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288		242
Cheyenne	Kriesel Certified Seed	Gurley	308-884-2424		26
Clay	James Nejezchleb	Deweese	402-262-2277		11
Deuel	Ag Operations Group	Big Springs	308-889-3429		54
Furnas	Petersen Land & Cattle Co.	Cambridge	308-697-4370		50
Scotts Bluff	Kiowa Creek Land & Cattle	Scottsbluff	308-632-7712		67
Thayer	Maschmann Mills	Deshler	402-365-4369		28
Webster	Providence Farms/K. Berns*	Bladen	402-756-1094		30

PVP AgriPro brand JAGALENE Jagalene is a medium maturing variety with excellent straw strength. It is resistant to stem rust, leaf rust and soilborne wheat mosaic virus. It is moderately resistant to wheat streak mosaic virus and is susceptible to Hessian fly. Jagalene is widely adapted and demonstrates good disease resistance and drought tolerance. Jagalene was selected from the cross Abilene/Jagger. Certified seed is produced and marketed exclusively under the AgriPro band name. U.S. Protected Variety (PVPA 1994). Certificate No. 200200160. Jagalene can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	D & S Hansen Farms	Hemingford	308-760-0189		
Chase	Luhrs Cert Seed & Cond.	Enders	308-882-5917		
Custer	Arrow Seed Company	Broken Bow	308-872-6826		
Dawes	Heritage Seed Co. Inc.*	Crawford	308-665-1672		
Franklin	Ingram Feed & Seed*	Franklin	308-425-3200		
Furnas	Von Johnson*	Cambridge	308-697-4654		
Gage	Anderson Seed	Odell	402-766-3790		
	Blue Valley Seed	DeWitt	402-683-5615		
	Husa Seed Farms	Barneston	402-674-3188		
Hitchcock	Peters Seed Farm Inc.	McCook	308-345-5170		
Jefferson	Knobel Seeds	Fairbury	402-446-7394		
Lincoln	Nelson Certified Seed	Wallace	308-387-4698		
Saunders	Rezac Seed	Valparaiso	402-784-3875		
Scotts Bluff	Jirdon Agri Chemicals*	Morrill	308-247-2126		
Thayer	Maschmann Mills	Deshler	402-365-4369		
Webster	Leon Lutkemeier	Bladen	402-756-8488		

PVP JAGGER Jagger is a very early maturing, moderately short variety with good straw strength. It has poor winterhardiness similar to TAM 200 and Newton. Jagger has good protection to many of the important wheat diseases in Kansas. It is susceptible to Hessian fly and powdery mildew. Grain has average test weight patterns with acceptable milling and baking qualities. Jagger was developed by Kansas and the USDA-ARS from the cross KS82W418/Stephens. U.S. Protected Variety (PVPA 1994). Certificate No. 9500324. Jagger can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond*	Enders	308-882-5917		100
Furnas	Petersen Land & Cattle	Cambridge	308-697-4370		90
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		70

PVP KARL 92 Karl 92 is a very early maturing, moderately short variety with strong straw strength. It has a medium length coleoptile and fair winterhardiness. Karl 92 is very similar to Karl for most traits but has more uniformity, better yield and test weight. It was developed by Kansas and the USDA-ARS from selections taken from Karl. U.S. Protected Variety. Certificate No. 9300124. Karl 92 can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Gage	Husa Seed Farms	Barneston	402-674-3188	9	
Kearney	Roberts Seed	Axtell	308-743-2565	8	30
Nuckolls	C & C Farms	Superior	402-879-4639	16	50
Thayer	Kenneth Degenhardt	Hebron	402-768-2352	9	117
	Maschmann Mills*	Deshler	402-365-4369	160	
	Pohlmann Land & Cattle*	Deshler	402-365-7676		20
Webster	Robert Bolte	Blue Hill	402-756-2107	9	12
	Leon Lutkemeier*	Bladen	402-756-8488		84
	Jeff/Norman Rose	Blue Hill	402-756-2073	22	

PVP AgriPro brand LONGHORN Longhorn is a medium early, medium height awnless variety. It has strong straw strength and is suitable for grazing or haylage. Longhorn has fair winterhardiness and long coleoptile. It has vigorous fall and early spring growth. The grain has very good test weight and good milling/baking qualities. Longhorn was developed, produced, and marketed exclusively under the AgriPro brand name. U.S. Protected Variety. Certificate No. 9100198. Longhorn can only be sold as a class of certified seed.

<u>COUNTY</u>	<u>GROWER</u>	<u>TOWN</u>	<u>TELEPHONE</u>	<u>REG</u>	<u>CERT</u>
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		
Dawes	Heritage Seed Co. Inc.*	Crawford	308-665-1672		

PVP MILLENNIUM Millennium is a medium maturing, medium height variety and is well adapted throughout most of the Nebraska dryland wheat production areas and adjacent states. It has been competitive in yield to Niobrara and Culver. It was tested under the designation NE94479. Millennium has fair to good winterhardiness, medium length coleoptile, very good tillering ability, and moderately strong straw (equal to 2137 and Windstar). It is resistant to Hessian fly; moderately resistant to stem rust; moderately susceptible to leaf rust; susceptible to soilborne mosaic and barley yellow dwarf viruses. Millennium was developed by Nebraska and the USDA-ARS from the cross Arapahoe/Abilene/NE86488. U.S. Protected Variety (PVPA 1994). Certificate No. 200100236. Millennium can only be sold as a class of certified seed.

<u>COUNTY</u>	<u>GROWER</u>	<u>TOWN</u>	<u>TELEPHONE</u>	<u>REG</u>	<u>CERT</u>
Box Butte	Cullan Farms*	Hemingford	308-487-5288		271
	D & S Hansen Farms	Hemingford	308-760-0189		121
Buffalo	West Seeds	Shelton	308-647-6903		11
Cass	David Stock	Murdock	402-867-3771		16
Chase	Luhrs Cert Seed & Cond.	Enders	308-882-5917		268
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424		362
	Steve Schumacher*	Dalton	308-377-2502		73
	Winkelman Seed*	Dalton	308-377-2453		98
Custer	Arrow Seed Company	Broken Bow	308-872-6826		62
Deuel	Ag Operations Group*	Big Springs	308-889-3429		254
	Carter Certified Seed	Chappell	308-874-2595		106
Dundy	Dale/Henry Wicke*	Wauneta	308-394-5777		155
Franklin	Ingram Feed & Seed	Franklin	308-425-3200		24
Frontier	Dunbar Seed	Eustis	308-486-5590		36
	Scharf Farms*	Curtis	308-367-4369		39
Furnas	Petersen Land & Cattle	Cambridge	308-697-4370		139
Gage	Thimm Farms Inc.*	Beatrice	402-228-2222		68
Hitchcock	Peters Seed Farms Inc.	McCook	308-345-5170		345
Jefferson	Knobel Seeds	Fairbury	402-446-7394		7
Kearney	J.M. Kuehn Inc.*	Heartwell	308-568-2101		12
	Roberts Seed*	Axtell	308-743-2565		108
Keith	Spurgin Inc.	Paxton	308-239-4539		35
Lincoln	Nelson Certified Seed*	Wallace	308-387-4698		70
Perkins	ORK Farms*	Grant	308-352-2132		80
	Poppe Farms*	Grant	308-289-1148		30
Sedgwick	James J. Dolezal	Julesburg, CO	970-885-3365		20
Thayer	Kenneth Degenhardt	Hebron	402-768-2352		50
	Maschmann Mills*	Deshler	402-365-4369		45
Webster	Stanley Pavelka Farms	Bladen	402-756-3945		83
	Providence Farms/K. Berns*	Bladen	402-756-1094		28
	Jeff/Norman Rose	Blue Hill	402-756-2073		25

PVP NIOBRARA Niobrara is a medium maturing, medium height variety. Niobrara has good winterhardiness, medium length coleoptile, good tillering ability, moderately strong straw, and acceptable milling/baking qualities. Niobrara was developed by Nebraska and the USDA-ARS from the cross TAM 105*4/Amigo/Brule selection. U.S. Protected Variety (PVPA 1994). Certificate No. 9500318. Niobrara can only be sold as a class of certified seed.

<u>COUNTY</u>	<u>GROWER</u>	<u>TOWN</u>	<u>TELEPHONE</u>	<u>REG</u>	<u>CERT</u>
Box Butte	Cullan Farms*	Hemingford	308-487-5288		
	D & S Hansen Farms	Hemingford	308-760-0189		
Buffalo	Donald Muhlbach	Ravenna	308-452-3588	12	
Dundy	Dale/Henry Wicke	Wauneta	308-394-5777		
Frontier	Dunbar Seed*	Eustis	308-486-5590		21
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		129

PVP AgriPro brand OGALLALA Ogallala is a moderately early maturing, moderately short variety. It has a medium length coleoptile, very good tillering ability, and very good straw strength. Winterhardiness is fair to good. Its grain has very good test weight patterns. Milling and baking properties are very acceptable. Ogallala was selected from the cross TAM 200 sib x Abilene. Seed is produced and marketed exclusively under the AgriPro brand name. U.S. Protected Variety. Certificate No. 9300292. Ogallala can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond.	Enders	308-882-5917		
Custer	Arrow Seed Company	Broken Bow	308-872-6826		
Dawes	Heritage Seed Co. Inc.*	Crawford	308-665-1672		
Lincoln	Nelson Certified Seed	Wallace	308-387-4698		
Scotts Bluff	Jirdon Agri Chemicals*	Morrill	308-247-2126		

PRONGHORN Pronghorn is a tall variety of moderately early maturity with good tillering ability and moderately strong straw. It has good yield stability in the Nebraska panhandle and dryland production areas in adjacent states. Yield is comparable to Buckskin with superior stem rust resistance. Pronghorn has a long coleoptile, very good early spring regrowth, and good winterhardiness. The grain has good test weight patterns and very acceptable milling/baking qualities. Pronghorn was developed by Nebraska and the USDA-ARS from the cross Centura/Dawn//Colt sib.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288	15	361
	D & S Hansen Farms	Hemingford	308-760-0189		124
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		300
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424	127	120
	Steve Schumacher*	Dalton	308-377-2502		66
	Winkelman Seed*	Dalton	308-377-2453	12	116
Deuel	Ag Operations Group*	Big Springs	308-889-3429		499
	Carter Certified Seed*	Chappell	308-874-2595		378
	V & F Farms Co.*	Chappell	308-874-2840		180
Keith	Spurgin Inc.	Paxton	308-239-4539		50
Perkins	Max Hanson	Elsie	308-228-2255		60
	Poppe Farms*	Grant	308-289-1148	3	30
Sedgwick	James J. Dolezal	Julesburg, CO	970-885-3365	20	

SCOUT 66 Scout 66 is a moderately early maturing, tall variety with fair straw strength. It has a long coleoptile, very good early spring regrowth, and fair to good winterhardiness. Scout 66 is the long time standard for grain quality (protein, milling, baking) in the HRW wheat region. It was developed by Nebraska and the USDA-ARS from selections made in the variety Scout.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424		

PVP AgriPro brand TAM 111 TAM 111 is a tall semidwarf wheat with good drought tolerance. It is a medium maturing variety with good straw strength. The grain has very good test weight patterns and good milling/baking qualities. It was developed, produced, and marketed exclusively under the AgriPro brand name. U.S. Protected Variety. Certificate No.200300291. TAM 111 can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Certified Seed & Cond.	Enders	308-882-5917		
Custer	Arrow Seed Co.	Broken Bow	308-872-6826		
Furnas	Von Johnson	Cambridge	308-697-4654		

PVP AgriPro brand THUNDERBIRD Thunderbird is a moderately early maturing, medium height variety with very good straw strength. It has a long coleoptile, fair to good winterhardiness, fast fall establishment, and fair tillering ability. The grain has very good test weight patterns and acceptable milling/baking qualities. It was developed and is produced and marketed exclusively under the AgriPro brand name. U.S. Protected Variety. Certificate No. 8500199. Thunderbird can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Dawes	Heritage Seed Co. Inc.*	Crawford	308-665-1672		

PVP AgriPro brand THUNDERBOLT Thunderbolt is a moderately early, medium height variety. It was developed by AgriPro Seeds, Inc. and tested as W95-188. Test weight patterns are good and straw strength is fair to good. It has a medium length coleoptile. Thunderbolt is well adapted to the western dryland production areas of Nebraska and other states of the central High Plains. It is moderately susceptible to moderately resistant to stem rust; resistant to leaf rust; has some tolerance to wheat streak mosaic; is susceptible to soilborne mosaic, spindle streak mosaic, and Hessian fly. Thunderbolt was developed from the cross Abilene/KS90WGRC10. U.S. Protected Variety (PVPA 1994). Certificate No. 9900304. Thunderbolt can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond.	Enders	308-882-5917		
Custer	Arrow Seed Company*	Broken Bow	308-872-6826		
Dawes	Heritage Seed Co. Inc.*	Crawford	308-665-1672		
Franklin	Ingram Feed & Seed	Franklin	308-425-3200		
Furnas	Von Johnson*	Cambridge	308-697-4654		
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		

Scotts Bluff	Jirdon Agri Chemicals*	Morrill	308-247-2126
Webster	Leon Lutkemeier*	Bladen	402-756-8488

PVP VISTA Vista is a medium maturity, short height variety with moderately strong straw. It has fair winterhardiness and very good tillering ability. Vista has good protection to leaf rust and septoria leaf/glume blotch. It has a short coleoptile. The grain has good test weight patterns and very acceptable milling/baking qualities. Vista was developed by Nebraska and the USDA-ARS from the cross NE68513/NE68457//Centurk/3/Brule. U.S. Protected Variety. Certificate No. 9300284. Vista can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		

PVP WAHOO Wahoo is a medium maturing, medium height variety similar to Arapahoe. Wahoo has preformed well throughout most of Nebraska and eastern Wyoming. Early yield trials indicate Wahoo's best yield performance is in eastern Nebraska. It was tested under the designation NE94645. Wahoo has shown good to very good winterhardiness, a medium coleoptile length, and moderate straw strength. Wahoo is moderately resistant to stem rust, leaf rust, and Hessian fly and is susceptible to wheat streak mosaic virus, and barley yellow dwarf virus. Wahoo was developed by Nebraska and the USDA-ARS from the cross of Arapahoe/AbileneArapahoe. U.S. Protected Variety. Certificate No. 200100237. Wahoo can be sold only as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms	Hemingford	308-487-5288		14
Cass	Stock Seed Farm	Murdock	402-867-3771		14
Clay	Darrel Wehnes & Sons*	Inland	402-772-8101		101
Custer	Arrow Seed Co*	Broken Bow	308-872-6826		
Frontier	Dunbar Seed*	Eustis	308-486-5590		49
	Kent/Kelly Lehmann	Eustis	308-486-5505		12
Furnas	Petersen Land & Cattle	Cambridge	308-697-4370		91
Gage	Anderson Seed	Odell	402-766-3790		19
	Blue Valley Seed	DeWitt	402-683-5615		14
	Thimm Farms Inc.*	Beatrice	402-228-2222		61
Hamilton	Veburg Seed Farm	Hordville	402-757-3399		15
Hitchcock	Peters Seed Farms Inc.	McCook	308-345-5170		210
	Potthoff Coyote Canyons	Trenton	308-276-2548		13
Jefferson	Knobel Seeds*	Fairbury	402-446-7394		87
Keith	Spurgin Inc.	Paxton	308-239-4539		35
Lancaster	Edgar Farms	Firth	402-791-5797		39
Nemaha	Jandrea Inc.*	Brock	402-868-4215		24
Nuckolls	Edgar Buescher & Sons*	Lawrence	402-756-7791		
Otoe	Dale Henke	Syracuse	402-269-2522		23
Saunders	Kubik Seed Sales*	Prague	402-663-4379		10
	Rezac Seed*	Valparaiso	402-784-3875		40
Sedgwick	James J. Dolezal	Julesburg, CO	970-885-3365		20
Thayer	Harlan F. Husa*	Hebron	402-768-2423		23
	Maschmann Mills*	Deshler	402-365-4369		105
Webster	Robert Bolte	Blue Hill	402-756-2107		10
	Providence Farms/K. Berns*	Bladen	402-756-1094		56
	Jeff/Norman Rose	Blue Hill	402-756-2073		17
York	Miller Seed & Supply	York	402-362-5516		23

WESLEY Wesley is a moderately early maturing, moderately short height variety with excellent straw strength. It was tested as N95L158. Wesley is bronze chaffed similar in color to Jagger. Compared to 2137, it has similar adaptation and yield on optimum production soils and sites in the central and northern Great Plains. Wesley is more winterhardy, about 2 days later heading, slightly shorter, with similar protein and test weight patterns, and a lower level of protection to some foliar diseases. It is genetically complementary to most varieties being grown in Nebraska. Wesley was derived from the cross Sumner sib (Plainsman V/Odesskaya 51)//Colt/Cody. It was developed by the USDA-ARS in cooperation with Nebraska and co-released by those institutions with South Dakota.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
	Polansky Seed	Belleville, KS	785-527-2271		28
Box Butte	Cullan Farms*	Hemingford	308-487-5288		260
Buffalo	Donald Muhlbach	Ravenna	308-452-3588		9
	West Seeds	Shelton	308-647-6903		48
Chase	Luhrs Cert Seed & Cond*	Enders	308-882-5917		375
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424		401
Clay	Darrel Wehnes & Sons	Inland	402-772-8101		145
Custer	Arrow Seed Company	Broken Bow	308-872-6826		65

Deuel	Ag Operations Group*	Big Springs	308-889-3429	328
Frontier	Kent/Kelly Lehmann	Eustis	308-486-5505	12
	Scharf Farms	Curtis	308-367-4369	15
Furnas	Petersen Land & Cattle	Cambridge	308-697-4370	120
Gage	Anderson Seed	Odell	402-766-3790	79
	Blue Valley Seed	Dewitt	402-683-5615	45
	Paben Farms	Beatrice	402-228-0629	18
	Thimm Farms, Inc.	Beatrice	402-228-2222	7
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170	73
Jefferson	Knobel Seeds	Fairbury	402-446-7394	137
Kearney	J.M. Kuehn Inc.*	Heartwell	308-563-2101	20
	Roberts Seed	Axtell	308-743-2565	8
Lincoln	Nelson Certified Seed	Wallace	308-387-4698	47
Nemaha	Jandrea Inc.	Brock	402-868-4215	19
Nuckolls	C & C Farms*	Superior	402-879-4639	46
Saunders	Rezac Seed	Valparaiso	402-784-3875	11
Thayer	Kenneth Degenhardt	Hebron	402-768-2352	9
	Harlan F. Husa	Hebron	402-768-2423	41
	Maschmann Mills*	Deshler	402-365-4369	125
	Wiedel's Circle E Inc.*	Hebron	402-768-6691	48
Webster	Providence Farms/K. Berns	Bladen	402-756-1094	16

PVP 2137 2137 is an early maturing variety of moderately short height, slightly taller than TAM 107 and Karl 92. It can be grown statewide and is best adapted to more productive soils and sites. Straw strength is very good to excellent. 2137 is well suited to irrigated production. Its above average resistance to residue-borne foliar diseases makes it a useful choice for reduced tillage/continuous wheat systems. 2137 is very susceptible to fusarium head scab. It has a moderately short coleoptile, good tillering ability, and fair to good winterhardness. Grain has average test weight patterns with acceptable milling and baking qualities. 2137 was selected by Kansas State and USDA-ARS from lines resulting from the cross W2440/W9488//2163 made by Pioneer HiBred Int'l. U.S. Protected Variety. (PVPA 1994) Certificate No. 9600304. 2137 can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Cullan Farms*	Hemingford	308-487-5288		
Cheyenne	Kriesel Certified Seed*	Gurley	308-884-2424		
Frontier	Dunbar Seed*	Eustis	308-486-5590		26
Gage	Blue Valley Seed	DeWitt	402-683-5615	8	30
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		93
Jefferson	Glenn H. Ebberts	Daykin	402-446-7423		60
	Knobel Seeds	Fairbury	402-446-7394		34
Johnson	Muddy Creek Seed Farm*	Johnson	402-868-6775		
Kearney	J.M. Kuehn Inc.*	Heartwell	308-563-2101		20
	Roberts Seed*	Axtell	308-743-2565		15
Nuckolls	Edgar Buescher & Sons	Lawrence	402-756-7791	7	33
Perkins	Poppe Farms*	Grant	308-289-1148		50
Saunders	Rezac Seed*	Valparaiso	402-784-3875		29
Sheridan	William Junge*	Gordon	308-327-2823	30	

PVP 2145 2145 is an awned, white chaffed, semi-dwarf wheat with good straw strength. It is similar to 2137 for maturity and is slightly shorter than Jagger. 2145 is a medium maturity variety with average winterhardness. It has resistance to leaf rust, soil-borne mosaic virus and moderate resistance to stem rust. 2145 was developed cooperatively by Kansas State Research & Extension and the Agricultural Research Service. It was evaluated as HBK630-4-5 and KS97P0630-4-5. Its pedigree consists of HBA142A/HBZ621A//Abilene. U.S. Protected Variety (PVPA 1994). Certificate No. 200200133. 2145 can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Gage	Anderson Seed	Odell	402-766-3790		25
	Husa Seed Farms	Barneston	402-674-3188	7	
Jefferson	Knobel Seeds	Fairbury	402-446-7394		67
Nemaha	Mayer Seed	Auburn	402-274-5743		20
Thayer	Harlan F. Husa	Hebron	402-768-2423		28
	Wiedel's Circle E Inc.*	Hebron	402-768-6729		
Webster	Providence Farms/K. Berns*	Bladen	402-756-1094		

HARD WHITE WINTER WHEAT

PVP AgriPro brand AP401 CL AP401 CL is a hard white wheat developed by AgriPro Seeds exclusively for use in a contract grown Identity Preserved grain production system. AP401 CL has short plant height with medium maturity and excellent straw strength. It is moderately resistant to leaf rust and resistant to soilborne mosaic virus and spindle streak mosaic virus. Milling and baking characteristics are good. AP401 CL is a wheat to be used as a component of the BASF CLEARFIELD Production System. CLEARFIELD is a unique production system comprised of herbicide-tolerant seed varieties and Beyond herbicide, a new imazamox-based herbicide to manage problem weeds. This system is designed to control weeds like jointed goatgrass, cheatgrass and other Bromus spp., ryegrass, foxtails, wild oats, wild mustard, and volunteer cereals. This production system also provides a superior broad-spectrum grass control with a wide application window. This system incorporates low rates of the Beyond herbicide which allow a large rotational crop profile and fits all tillage methods.

The CLEARFIELD Production System will include a stewardship program that will help maintain the stability of the system. This means the grower must purchase Certified AP401 CL wheat seed and must agree not to save seed for planting. This means the grower must sell all of his production. Any unauthorized planting of the AP401 CL variety will be punishable under the U.S. Patent law. AP401 CL is a hard white wheat developed by AgriPro Seeds exclusively for use in a contract grown Identity Preserved grain production system. It has short plant height with medium maturity and excellent straw strength. AP401 CL is moderately resistant to leaf rust and resistant to soilborne mosaic virus and spindle streak mosaic virus. Milling and baking characteristics are good. U.S. Plant Variety Protection Applied For (PVPA 1994). Certificate No. 200300045. AP401 CL can only be sold as a class of certified seed.

COUNTY	GROWER	T
Chase	Luhrs Cert Seed & Cond.*	E

PVP BETTY Betty is a moderately early, moderately short height hard variety. It was developed by Kansas State from a single plant selected from the variety Jagger and tested as KS84063-2W. It is best adapted to central and western Kansas, like Jagger, but is more winterhardy. Straw strength is moderately good. Betty is currently rated as resistant to soilborne mosaic virus; moderately resistant to wheat spindle streak mosaic, tan spot and septoria leaf blotch; intermediate (MS-MR) to stem rust and wheat streak mosaic; moderately susceptible to leaf rust; and susceptible to Hessian fly. Betty is comparable to Jagger in milling and bread baking properties. U.S. Protected Variety. Certificate No. 200000155. Betty can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Perkins	Poppe Farms*	Grant	308-289-1148		

PVP LAKIN Lakin is a medium maturing variety. It is moderately resistant to stem rust and wheat streak mosaic virus. It is resistant to soilborne mosaic virus but is susceptible to leaf rust and hessian fly and has very little sprouting tolerance. Lakin is the first white wheat released by Kansas Agricultural Experiment Station that has excellent noodle quality along with above average bread quality. U.S. Protected Variety. Certificate No. 200200049. Lakin can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Perkins	Poppe Farms*	Grant	308-289-1148		10

PVP NUPLAINS Nuplains is a moderately early maturing variety about 3 days earlier than Arapahoe. It was developed cooperatively by the USDA-ARS and the Nebraska Agricultural Experiment Station. Nuplains was derived as a single head selection from the cross Abilene/KS831872. It is targeted for dryland production in south central and west central Nebraska, irrigated production in the south west and panhandle areas of Nebraska, and adjacent states. Test weight patterns are good to very good with above average protein. Nuplains has demonstrated acceptable quality properties for both bread and noodle products. Plant height is moderately short with good straw strength. It is moderately resistant to stem rust, moderately susceptible to current races of leaf rust and is susceptible to soilborne mosaic virus, wheat streak mosaic virus, and Hessian fly. U.S. Protected Variety (PVPA 1994). Certificate No. 200100266. Nuplains can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	D & S Hansen Farms*	Hemingford	308-760-0819		

PVP PLATTE Platte is a hard white wheat developed by AgriPro Seeds exclusively for use in a contract grown Identity Preserved grain production system. Platte has short plant height with medium maturity and excellent straw strength. Platte is moderately resistant to leaf rust and resistant to soilborne mosaic virus and spindle streak mosaic virus. Milling and baking characteristics are good. U.S. Protected Variety. Certificate No. 9700012. Platte can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhrs Cert Seed & Cond.*	Enders	308-882-5917		1024

PVP TREGO Trego is a moderately early maturing variety, similar in maturity to 2137. Mature plant height is moderately short. Based on performance trials, it appears best adapted to central and western production areas, irrigated or rainfed. Coleoptile length is moderately short. Trego has fair to good standability, and test weight patterns and protein content are average. Overall bread baking quality has been rated above average. Trego is moderately resistant to stem rust, leaf rust, soilborne mosaic, and wheat spindle streak mosaic virus; moderately tolerant to wheat streak mosaic virus; moderately susceptible to tan spot; and susceptible to Hessian fly. U.S. Protected Variety (PVPA 1994). Certificate No. 200100117. Trego can only be sold as a class of certified seed.

TRITICALE

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Furnas	Petersen Land & Cattle*	Cambridge	308-697-4370		
Hitchcock	Peters Seed Farms Inc.*	McCook	308-345-5170		
Perkins	Poppe Farms*	Grant	308-289-1148		10

*Notice: These members of the Nebraska Crop Improvement Association have available carryover certified quality wheat seed from previous years. Contact these NCI members for more information on availability.

PVP Nupride brand NE422T NE422T is a late maturity (7 days later than Newcale) high yielding winter forage triticale with good winterhardness. NE422T is a tall forage triticale (12 inches taller than Newcale) with good to average straw strength. It is moderately resistant to stem rust, leaf rust, and wheat streak mosaic virus. NE422T was developed by the Nebraska Agricultural Experiment Station and the USDA-ARS. Seed of NE422T may be legally produced and labeled for sale as Certified seed by qualified members of a recognized marketing association. In Nebraska this marketing association is the Nupride Genetics Network. U.S. Plant Variety Protection applied for (PVP 1994). Certificate No. 200200153. NE422T can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Chase	Luhns Cert Seed & Cond.*	Enders	308-882-5917		93
Cheyenne	Kriesel Certified Seed	Gurley	308-884-2424		48
Custer	Arrow Seed Company	Broken Bow	308-872-6826	201	
Saunders	Kubik Seed Sales	Prague	402-663-4379		15

Nupride brand NE426GT NE426GT is a medium maturity (6 days earlier than NE422T) high yielding winter triticale with good winterhardness. NE426GT is a grain and fall forage triticale (13 inches shorter than NE422T) with good to average straw strength. It is moderately resistant to stem rust, leaf rust, and wheat streak mosaic virus. NE426GT was developed by the Nebraska and Iowa Agricultural Experiment Station. Seed of NE426GT may be legally produced and labeled for sale as Certified seed by qualified members of a recognized marketing association. In Nebraska this marketing association is the Nupride Genetics Network. U.S. Plant Variety Protection applied for (PVP 1994). NE426GT can only be sold as a class of certified seed.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Custer	Arrow Seed Company	Broken Bow	308-872-6826	28	

NEBRASKA CERTIFIED LANDSCAPE QUALITY TURFGRASS SOD SOURCES

Nebraska Certified Quality Sod can be readily identified by the special Certificate of Quality and Composition attached to the buyer's invoice. This Certificate is issued by the Nebraska Crop Improvement Association (NCIA) for exclusive use on certified quality sod.

Nebraska Certified Quality Sod is planted with Sod Quality Certified seed of well adapted varieties, grown, and harvested using approved procedures. It is inspected regularly by NCIA to assure it meets high standards for varietal identity, freedom from objectionable weeds and grasses, plus other measurable quality factors affecting performance.

The following Nebraska sod producers are voluntarily using the sod certification process on selected fields in 2003 to assure their customers that extra care has been taken to provide a premium quality turfgrass sod.

KENTUCKY BLUEGRASS BLENDS (Choice of Residential or Sports/Industrial Uses)

COUNTY	PRODUCER	TOWN	TELEPHONE	ACRES
Hall	Mettenbrink Farms	Grand Island	308-382-8828	52
Saunders	Todd Valley Farms	Mead	402-624-6385	30

TURF-TYPE TALL FESCUE/KENTUCKY BLUEGRASS MIXTURES

COUNTY	PRODUCER	TOWN	TELEPHONE	ACRES
Saunders	Todd Valley Farms	Mead	402-624-6385	20

COOL-SEASON GRASSES

Brome grass is an introduced cool-season, sod-forming grass which produces abundant forage in the spring and late summer for hay and pasture. It is very palatable until mature. It is widely adapted to eastern and central Nebraska and responds to intensive management practices. It is an early maturing grass and has moderate tolerance to drought and grazing.

LINCOLN Lincoln was developed by Nebraska and the USDA-ARS from selections made in long established fields derived from seed of Hungarian origin. It has good seedling vigor and high forage yields under favorable conditions. It is easily established on critical planting sites.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Knox	Condon Farms Inc.	Creighton	402-358-3506	121	

REGAR Regar meadow brome grass was released by the USDA Soil Conservation Service, Plant Materials Center, Aberdeen, Idaho in 1966. It was derived from a introduction PI 172390 from Kars province, Turkey. Clones were selected and their seed was increased. Regar remains greener in the fall compared to smooth brome grass. Regar is slower to establish and is less tolerant of spring flooding than smooth brome grass.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Custer	Arrow Seed Company	Broken Bow	308-872-6826	35	

Western Wheatgrass is a native cool-season perennial, sod forming grass. It is a tenacious, dry range type of native grass which makes good spring grazing for several weeks before it becomes stemmy and unpalatable. Western wheatgrass is generally saline or alkaline tolerant. It does not do well on light soils but will tolerate periods of drought.

ARRIBA Arriba is a rapidly germinating variety with good seedling establishment. It has dense, dark green, medium height foliage with aggressive rhizomes. It was developed by the Plant Materials Center at Los Lunas, NM, from a selection found near Arriba, CO.

COUNTY	GROWER	TOWN	TELEPHONE	REG	CERT
Box Butte	Dan Laursen	Alliance	308-487-5541	18	

APPROVED SEED CONDITIONERS

An active APPROVED SEED CONDITIONER system is very important and an integral part of Nebraska's certification program. Approved Conditioners are seed cleaning firms who are authorized by the Board of Directors to purchase field-approved seed and move it to their plants for conditioning, submit samples for testing, order tags or certificates, and merchandise the finished product on a retail basis.

1. To expand the marketing options of seed producers who may not have adequate cleaning or merchandising facilities.
2. To provide the retail seed trade with reliable high quality sources of seed as markets demand.
3. To improve the quality of seed available, while insuring maintenance of varietal purity.
4. To promote acceptance and use of Nebraska certified seed.

West District

Big Springs	308-889-3429
Chappell	308-874-2595
Hemingford	308-487-5288
Hemingford	308-760-0189
Crawford	308-665-1672
Morrill	308-247-2126
Scottsbluff	308-635-6438
Gurley	308-884-2424
Kimball	308-235-4104
Alliance	308-762-8014
Bridgeport	308-262-1361

Southwest District

Eustis	308-486-5590
Venango	308-447-5551
Imperial	308-882-3224
Wanneta	308-394-5530
Ender	308-882-5917
Hagler	308-297-3283
Ogallala	308-284-3264
Healy, KS	316-398-2231

Central District

Broken Bow	308-872-6826
Keamey	308-234-9710
Kavenna	308-452-3588

Ag Operations Group
Carter Certified Seed
Callan Farms
D & S Hansen Farms
Heritage Seed Company Inc.
Irion Agri Chemicals, Inc.
Kelley Bean Company
Kriesel Certified Seed
Dewain Lockwood
New Alliance Bean & Grain
Trinidad/ Benham

Dunbar Seed
Frenchman Valley Coop
Frenchman Valley Farmers Cooperative
Haskins Seed Cleaning
Luhns Certified Seed & Conditioning
Olson Livestock & Seed
Rainbow Grain
Sharp Brothers Seed Company

Arrow Seed Company

Monsanto Co.
Muhlbach Seeds

Andersen & Associates
 Knobel Seeds
 Lauber Seed Farm
 Maschmann Mills
 Miller Seed & Supply Company
 Mycogen Plant Sciences
 NC+ Hybrids
 Pioneer Hi-Bred International, Inc.
 Pioneer Hi-Bred International, Inc.
 Roberts Seed (Joe Roberts)
 Star Seed, Inc.
 Syngenta Seeds Inc.
 Darrel Wehnes and Sons

Orchard Seed

Hoegemeyer Enterprises
 Kaup Seed & Fertilizer
 W.A. Lafleur & Sons
 Producers Hybrids Inc.
 Seed Enterprises Inc.

Anderson Seed
 Bern Seed Company
 Blue Valley Seed
 Cole Seed Farm, Inc.
 Husa Seed Farms
 Mayer Seed
 Miller Seed Company
 Muddy Creek Seed Farm
 Ohlde Seed Farms
 Rezac Seed
 J.C. Robinson Seed Co.
 Rohlfing Seeds
 Stock Seed Farm
 Thimm Farms, Inc.
 United Seeds, Inc.

South Central District

Marquette	402-854-2225
Fairbury	402-446-7394
Geneva	402-759-3102
Deshler	402-365-4369
York	402-362-5516
York	402-362-7441
Hastings	402-463-5661
Doniphan	402-744-3271
York	402-362-3349
Axtell	308-743-2565
Osborne, KS	913-346-5447
Phillips	402-886-2257
Inland	402-772-8101

Northeast District

Orchard	402-893-2445
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East Central District

Hooper	402-654-3399
West Point	402-372-5588
Madison	402-454-2232
Battle Creek	402-675-2975
West Point	402-372-3238

Southeast District

Odell	402-766-3790
Bern, KS	785-336-3046
DeWitt	402-683-5615
Plattsmouth	402-298-8169
Barneston	402-674-3188
Auburn	402-274-5743
Lincoln	402-438-1232
Johnson	402-868-6775
Palmer, KS	913-692-4555
Valparaiso	402-784-3875
Waterloo	402-779-2531
Talmage	402-264-3515
Murdock	402-867-3771
Beatrice	402-228-2222
Omaha	402-331-4800

CUSTOM CERTIFIED CONDITIONERS

In Nebraska, the function of the Custom Certified Conditioner is solely to provide seed cleaning and handling services which prepare certifiable seed produced by members from inspected acres for marketing channels.

Seed conditioners in this category voluntarily request inspection by the Association to provide quality assurance for the seed producer and seed consumer. Custom Certified Conditioners are subject to minimal procedural and equipment guidelines which are enacted by the NCIA Board of Directors.

The objectives of the Custom Certified Conditioner program are:

1. To provide necessary conditioning services for seed producers and merchandisers who do not have adequate cleaning facilities.
2. To improve the quality of seed available while insuring maintenance of varietal purity.
3. To promote acceptance and use of Nebraska certified seed.

*Radke Engineering, Inc.

Greenbank Inc.
 Lytle Seed Company
 George Russell

Kamterter II LLC

Alliance Production

*Portable Seed Cleaner

NOTE: Some firms listed as Approved Seed Conditioners also provide custom seed cleaning services.

West District

Cedar Falls, IA	877-588-3211
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Southwest District

Fort Morgan, CO	800-615-4769
Waneta	308-394-5128
Maywood	308-362-4459

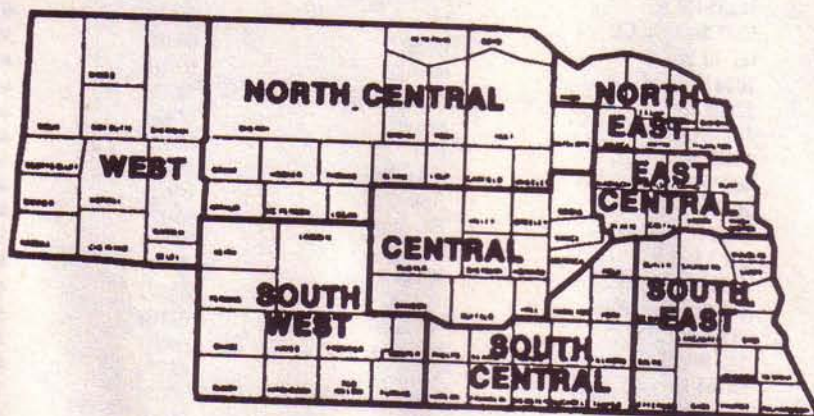
Southeast District

Lincoln	402-466-1224
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East Central District

Whiting, IA	712-458-2175
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NEBRASKA CROPPING DISTRICTS



2004 NCIA MEMBERS

Grower (GR) A member who applies for field inspection services and used the services of either Custom or Approved Conditioners to prepare seed for marketing channels.

Grower-Conditioner (GC) A member who applies for field inspection services and has adequate facilities for conditioning his own seed produced from inspected acres in preparation for marketing channels.

Custom Certified Conditioner (CC) A member who may or may not apply for field inspection services and has adequate facilities for conditioning seed produced from inspected acres (by himself or other members) in preparation for sale in marketing channels.

Approved Seed Conditioner (AC) A member who may or may not apply for field inspection services, has adequate facilities for conditioning seed, and may purchase bulk uncleaned seed from inspected acres of a crop grown by another member for conditioning, tagging, and sale in marketing channels as a class of certified seed.

Associate Member (AM) Any other person, partnership, or corporation who would not be involved directly in the production, conditioning, or marketing of seed but is interested in furthering the goals of the Association may become a non-voting member.

Ag Operations Group	3026 Rd. 199	Big Springs	69122	308-889-3429	AC
Agri Pro Wheat	806 N 2nd St.	Berthoud, CO	80513	970-532-3721	GR
Alliance Production	14633 Hwy K64	Whiting, IA	51063	712-458-2175	CC
Andersen & Associates	2204 No. S Rd	Marquette	68854	402-854-2225	AC
Anderson Seed	42401 SW 610dell Rd	Odell	68415	402-766-3790	AC
Arrow Seed Company	PO Box 722	Broken Bow	68822	308-872-6826	AC
Asgrow Seed Co.	3403 Montreal Circle	Omaha	68123	402-293-5851	AM
Kendall Atkins	3455 Rd 55 E.	Dix	69133	308-682-5647	GC
Bartco	34605 Rd 725	Wauneta	69045	308-394-5423	GR
Leonard Bayer	2115 CR 14	Howells	68641	402-986-1397	GR
Beebe Seed Farms, Inc.	1291 Old Lincoln Hwy	North Bend	68649	402-652-3741	GR
Bergmeier Farms	PO Box 96	Clatonia	68328	402-683-4845	GR
Bern Seed Co.	505 Railroad St.	Bern KS	66408	785-336-3046	AC
BioPlant Research	PO Box 320	Camp Point, IL	62320	800-593-7708	AM
Blue Valley Seed	6237 W Dogwood Rd	DeWitt	68341	402-683-5615	AC
Boe Seed Farm, Inc.	PO Box 10	Madison	68748	402-454-2884	GR
Robert Bolte	RR 2 Box 114	Blue Hill	68930	402-756-2107	GR
Bratney Companies	3400 - 109th St.	Des Moines, IA	50322	515-270-2417	AM
Broberg Farms	PO Box 586	Tilden	68781	402-368-5647	GR
Edgar Buescher & Sons	RR 1 Box 636	Lawrence	68957	402-756-7791	GR
D.K. Buskirk & Sons	7351 Gage Rd.	Hemingford	69348	308-487-3995	GC
Buysm Sod Farms	PO Box 370	Elm Creek	68836	308-856-4633	GR
C & C Farms	RR 1 Box 64	Superior	68978	402-879-4639	GR
Campstool Farms	102 Ridge Rd	Kimball	69145	308-235-7284	GR
Carter Certified Seed	15571 Rd. 14	Chappell	69129	308-874-2595	AC
Mark Caspers	RR 1 Box 104	Auburn	68305	402-274-3800	GR
Cast Farms, Inc.	2737 Pioneers Rd.	Milford	68405	402-532-7515	GR
Glenn Chvatal	2615 CR U	Prague	68050	402-663-4386	GR
Cole Seed Farm, Inc.	2101 Church Rd.	Plattsmouth	68048	402-298-8169	AC
Glenn Colson	75540 Road 345	Elsie	69134	308-228-2322	GR
Condon Farms, Inc.	86959 Hwy 13	Creighton	68729	402-358-3506	GR
Corn States Hybrid Service	2505 McKinley	Des Moines, IA	50321	515-285-3091	AM

Cullan Farms	6731 Franklin Rd.	Hemingford	69348	308-487-5288	AC
Kenneth Degenhardt	RR 1 Box 70	Hebron	68370	402-768-2352	GR
Jed & Deann Doetker	PO Box 96	Wauneta	69045	308-394-5636	GR
James J. Dolezal	16235 CR 63	Julesburg, CO	80737	970-885-3365	GR
Joseph Dubas	5225 Sunlight Ct.	Lincoln	68516	402-328-9923	GR
Dunbar Seed	HC 70 Box 13	Eustis	69028	308-486-5590	AC
EBM Mill & Elevator	1014 Sherwood Rd.	Norfolk	68701	402-371-2945	AM
Glenn H. Ebberts	57065 Hwy 4	Daykin	68338	402-446-7423	GR
Darrel Eberspacher	787 - 308 St.	Seward	68434	402-761-3178	GR
Edgar Farms	25205 S. 120	Firth	68358	402-791-5797	GR
Edward Eitel	480 Table Rd.	Crawford	69339	308-665-2365	GR
Evergreen Turf Farm	2072 CR 13	Ames	68621	402-622-8246	GR
Fontanelle Hybrids	2005 N. Somers	Fremont	68025	402-721-6348	GC
Kirk Foster	RR 2 Box 965	Berwyn	68819	308-935-1672	GR
Foundation Seed Division	1071 CR G RM C	Ithaca	68033	402-624-8083	AC
Terry Foxhoven	210 St. James Ave.	Wynot	68792	402-357-2396	GR
Frenchman Valley Coop	PO Box 127	Venango	69168	308-447-5551	AC
Frenchman Valley Farmer Coop	143 Broadway	Imperial	69033	308-882-3224	AC
Troy Fuelberth	88165 Hwy 81	Hartington	68739	402-254-6903	GR
Garst Seed Co.	615 Main St.	Coon Rapid, IA	50058	712-684-3248	GR
General Mills Operations	2500 9th Ave. North	Great Falls, MT	59401	406-761-6252	AM
Gleason Farms, Inc.	724 S. Cameron Rd.	Wood River	68883	308-583-2413	GR
Greenbank Inc.	PO Box 1037	Fort Morgan, CO	80701	800-615-4769	CC
Greenkeeper Co. Inc.	PO Box 451123	Omaha	68137	402-333-8813	GR
Gross Seed Co. Inc.	HC 66 Box 13	Johnstown	69214	402-722-4215	AM
Gustafson Inc.	PO Box 660065	Dallas, TX	75266	214-985-8877	AM
Richard Ham	33694 River Road	Benkelman	69021	308-423-2936	GR
D & S Hansen Farms	982 CR 63	Hemingford	69348	308-760-0189	AC
Max Hanson	76065 Road 344	Elsie	69134	308-228-2255	GR
Haskins Seed Cleaning	RR 2 Box 114	Wauneta	69045	308-394-5530	AC
Dale Henke	2490 N Rd	Syracuse	68446	402-269-2522	GC
Hergert Milling Inc.	1424 Ave B	Scottsbluff	69361	308-632-2315	AM
Heritage Seed Co. Inc.	PO Box 544	Crawford	69339	308-665-1672	AC
B.K. Heuermann & Sons	504 W. Hwy 34	Phillips	68865	402-886-2911	GR
Hoegemeyer Hybrids	1755 Hoegemeyer Rd.	Hooper	68031	402-654-3399	AC
Husa Seed Farms	46359 S. 108 Rd.	Barneston	68309	402-674-3188	AC
Harlan F. Husa	RR 1 Box 103	Hebron	68370	402-768-2423	GR
Illinois Foundation Seed	2840 O St Rd.	Seward	68434	402-643-3691	AM
Ingram Feed & Seed	RR 1 Box 84	Franklin	68939	308-425-3200	GR
J.R. Ingwerson	17414 Ingwerson Lane	Plattsmouth	68048	402-298-8572	GC
Iowa Acres Inc.	26767 Timber Rd.	Kelley IA	50134	515-232-1930	GR
IPSA	PO Box 316	Geneseo, IL	61254	309-944-3104	AM
Jandera Inc.	63008 - 733A Road	Brock	68320	402-868-4215	GR
Michael Jasa	654 - 20th Rd	Thurston	68062	402-385-2568	GR
Thomas Jehorek	825 Rd W 50	Brule	69127	308-287-2327	GR
Jirdon Agri Chemicals	PO Box 516	Morrill	69358	308-247-2126	AC
Von Johnson	424 Shole Ave	Cambridge	69022	308-697-4654	GC
William Junge	RR 1 Box 110	Gordon	69343	308-327-2823	GR
Kamterter II LLC	PO Box 30327	Lincoln	68503	402-466-1224	CC
Kaup Seed & Fertilizer	1101 S. Beemer St.	West Point	68788	402-372-5588	AC
KBC Trading & Processing	28810 CR S	Brush, CO	80723	970-842-5082	GR
KBC Trading & Processing	Hwy 18 S	Mayville, ND	58257	701-543-3000	GR
KDH Sales	RR 3 Box 117	Auburn	68305	402-274-5665	GR
Kelley Bean Co.	1520 Ave. B.	Scottsbluff	69361	308-635-6438	AC
Kiowa Creek Land & Cattle Co.	PO Box 800	Scottsbluff	69363	308-632-7712	GR
Kirchhoff Farms, Inc.	RR 1 Box 76	Hardy	68943	402-236-8831	GR
Knobel Seeds	72055 567 Ave.	Fairbury	68352	402-446-7394	AC
Kriesel Certified Seed	4626 Rd 111	Gurley	69141	308-884-2424	AC
Kubik Seed Sales	1860 CR 31	Prague	68050	402-663-4379	GR
J.M. Kuehn Inc.	1639 40 Rd.	Heartwell	68945	308-563-2101	GR
Ladd Farm	PO Box 94	Nickerson	68044	402-727-9903	GC
W.A. Lafleur & Sons	111 E. 2 St.	Madison	68748	402-454-2232	AC
Lauber Seed Farms LLC	549 R St.	Geneva	68361	402-759-3102	AC
Dan Laursen	7678 Madison Rd.	Alliance	69301	308-487-5541	GR
Laux Seed Farm	HC 85 Box 48	Bridgeport	69336	308-262-0512	GC
Kent/Kelly Lehmann	RR 1 Box 43	Eustis	69028	308-486-5505	GR
Dewain Lockwood	3814 N Hwy 71	Kimball	69145	308-235-4104	AC
Luhrs Cert Seed & Conditioning	PO Box 353	Enders	69027	308-882-5917	AC
Leon Lutkemeier	RR 1 Box 108	Bladen	68928	402-756-8488	GR
Lytle Seed Co.	34554 - 727 Rd.	Wauneta	69045	308-394-5128	CC

Waco Seeds	1167 Rd 17	Rogers	68659	402-352-2789	GR
Wase A. Madsen	5284 B Rd.	Nehawka	68413	402-263-5555	GR
Wartin Sod Farms	4026 Lillie Dr.	Grand Island	68801	308-382-5425	GR
Waschmann Mills	PO Box 428	Deshler	68340	402-365-4369	AC
Wayer Seed	RR 3 Box 152	Auburn	68305	402-274-5743	AC
Wertenbrink Farms	3042 N.Engleman Rd.	Grand Island	68803	308-382-8828	GR
Wilder Seed & Supply	327 York Ave.	York	68467	402-362-5516	AC
Wilder Seed Co. Inc.	1600 Cornhusker Hwy	Lincoln	68501	402-438-1232	AC
Wiley Mills, Jr.	RR 1 Box 86A	Mason City	68855	308-732-3419	GR
Wiervey R. Mills	29606 Mill Rd.	Murdock	68407	402-867-2956	GC
Wismanto Co.	PO Box 73	Kearney	68848	308-234-9710	AC
Wuddy Creek Seed Farm	RR 1 Box 59	Johnson	68378	402-868-6775	AC
Wuefler Sod Farm	1680 - 83 St.	Columbus	68601	402-564-6364	GR
Wulfbach Seeds	46385 - 295 Rd.	Ravenna	68869	308-452-3588	AC
Wyngen Plant Sciences	1117 Recharge Rd.	York	68467	402-362-7441	AC
Nature Conservancy	1228 L St. Ste 1	Aurora	68818	402-694-4191	GR
WC+ Hybrids	311 Rd. 3163	Hastings	68901	402-463-5661	AC
WC+ Hybrids	3820 N. 56	Lincoln	68504	402-467-2517	GR
James Nejezchleb	PO Box 5	Deweese	68934	402-262-2277	GR
Nelson Certified Seed	37629 W. Nelson Rd.	Wallace	69169	308-387-4698	GR
Lee E. Nelson & Sons	RR 1 Box 118	Sutton	68979	402-773-4700	GR
New Alliance Bean & Grain	PO Box 619	Alliance	69301	308-762-8014	AC
Phil Nielsen Seed	54136 - 885 Rd	Bloomfield	68718	402-373-2627	GR
O'Brien Obermeier	803 S. F Rd.	Giltner	68841	402-849-2622	GR
Ohde Seed Farms	1577 - 4 Rd.	Palmer, KS	66962	913-692-4555	AC
Oiler Manufacturing	PO Box 512	Rocky Ford, CO	81067	719-254-3480	AM
Olsen Livestock & Seed	31921 Road 711	Haigler	69030	308-297-3283	AC
Orchard Seed	51243 - 862nd Rd	Orchard	68764	402-893-2445	AC
ORK Farms	PO Box 356	Grant	69140	308-352-2132	GR
Oster Farms	34550 Road 751	Elsie	69134	308-228-2296	GC
Paben Farms	27431 SW 32nd Rd	Beatrice	68310	402-228-0629	GR
Paramount Seed	7682 CR Z	Quinter, KS	67752	785-754-2151	GR
Pavelka Farms	18350 S. Conestoga	Bladen	68928	402-756-3945	GR
Perry Brothers Seed	517 S. Washington	Otis CO	80743	970-246-3401	AM
Peters Seed Farms Inc.	RR 4 Box 216	McCook	69001	308-345-5170	GC
Petersen Farms Inc.	1420 E. Capital	Grand Island	68801	308-382-1672	GR
Petersen Land & Cattle	RR 3 Box 326	Cambridge	69022	308-697-4370	GR
Peterson Genetics Inc.	1710 Adams St.	Cedar Falls, IA	50613	319-266-1731	AM
Pioneer Hi-Bred Int'l Inc.	12937 S. US Hwy 281	Doniphan	68832	402-744-3271	AC
Pioneer Hi-Bred Int'l Inc.	1410 Hwy 34	York	68467	402-362-3349	AC
Platte River Seed Co.	PO Box 864	Kearney	68848	308-237-5253	GR
Paul D. Platter	RR 1 Box 47	Shubert	68437	402-883-2365	GC
Pohlmann Land & Cattle	RR 1 Box 72	Deshler	68340	402-365-7676	GR
Polansky Seed	2729 M St.	Belleville, KS	66935	785-527-2271	GR
Popp Engineering Inc.	2710 Ford St.	Ames, IA	50010	515-232-6118	AM
Poppe Farms	200 Central Ave.	Grant	69140	308-289-1148	GR
Pothoff Coyote Canyons	HC 2 Box 122	Trenton	69044	308-276-2548	GR
Producers Hybrids Inc.	PO Box C	Battle Creek	68715	402-675-2975	AC
Providence Farms/Keith Berns	RR 1 Box 140	Bladen	68928	402-756-1094	GR
Radke Engineering	3619 Eastpark Rd.	Cedar Falls, IA	50613	877-588-3211	CC
Rainbow Grain	PO Box 855	Ogallala	69153	308-284-3264	AC
Sad Ready	765 CR 12 Blvd.	Scribner	68057	402-664-2710	GR
Rezac Seed	840 CR 31	Valparaiso	68065	402-784-3875	AC
Armand G. Richert	2320 448 Rd.	Gresham	68367	402-735-7523	GR
Richmond Farms	RR 1 Box 143	Grant	69140	308-352-4473	GR
Roberts Seed	982 - 22 Rd.	Axtell	68924	308-743-2565	AC
J.C. Robinson Seed Co.	PO Box A	Waterloo	68069	402-779-2531	AC
Rocking T-J Farms Inc.	1781 CR 74	Hemingford	69348	308-487-5277	GR
Rohlfing Seed	4275 S Rd.	Talmage	68448	402-264-3515	AC
Jeff/Norman Rose	RR 2 Box 89	Blue Hill	68930	402-756-2073	GR
George Russell	PO Box 82	Maywood	69038	308-362-4459	CC
Scharf Farms	RR 1 Box 9	Curtis	69025	308-367-4369	GR
Scheitel Feed & Seed	PO Box 476	Falls City	68355	402-245-3712	GR
Pete Schmit & Sons LTD	230-40 Rd.	Bellwood	68624	402-538-4645	GR
Steve Schumacher	PO Box 182	Dalton	69131	308-377-2502	GR
Scotts Co.	7644 Keene Rd. NE	Gervais, OR	97026	503-792-3633	AM
Seed Enterprises Inc.	679 - 19 Rd.	West Point	68788	402-372-3238	AC
Sharp Brothers Seed Co.	PO Box 140	Healy, KS	67850	316-398-2231	AC
Ron Smith	27712 CR 10	Hooper	68031	402-654-3895	GR
Smith Seed Farms	RR 3 Box 140	Auburn	68305	402-274-4011	GR

Sonderup Seed Farms	RR 1 Box 190	Fullerton	68638	308-536-2027	GR
Spurgin Inc.	790 Rd E. R So.	Paxton	69155	308-239-4539	GR
Star Seed Inc.	PO Box 228	Osborne, KS	67473	913-346-5447	AC
Starr Partnership	1140 W. Lochland Rd.	Hastings	68901	402-461-4229	GR
Stateline Bean Producers Coop	PO Box 803	Bridgeport	69336	308-262-1222	GR
Stauffer Seeds	PO Box 68	Aurora	68818	402-694-4062	GR
David Stock	28008 Mill Rd.	Murdock	68407	402-867-3771	GR
Stock Seed Farm	28008 Mill Rd.	Murdock	68407	402-867-3771	AC
Richard Swartz	715 S. Minden	Minden	68959	308-832-2152	GR
Syngenta Seed Treatment	#29 Rolling Hills Rd.	Kearney	68847	308-234-4819	AM
Syngenta Seeds Inc.	PO Box 125	Phillips	68865	402-886-2257	AC
Thimm Farms Inc.	5104 W Hwy 136	Beatrice	68310	402-228-2222	AC
Carl Thomas	10038 CR 10	Morrill	69358	308-247-2096	GR
Thorsen Family Farm Inc.	HC 91 Box 47	Gordon	69343	308-282-0189	GR
Todd Valley Farms	E. Hwy 92 Box 202	Mead	68041	402-624-6385	GR
Trinidad/Benham	PO Box 427	Bridgeport	69336	308-262-1361	AC
Turf-Seed Inc.	PO Box 250	Hubbard, OR	97032	800-247-6910	GR
UAP Ag Services	PO Box 98	Imperial	69033	308-882-4308	GR
United Seeds Inc.	PO Box 27322	Omaha	68127	402-331-4800	AC
V & F Farms Co.	PO Box 467	Chappell	69129	308-874-2840	GR
Veburg Seed Farm	2706 N. W Rd.	Hordville	68846	402-757-3399	GC
R.E. Vieselmeyer Inc.	RR 1 Box 79	Deshler	68340	402-365-7781	GR
Ron Vlasin	790 CR 2350	Crete	68333	402-826-3422	GR
Lloyd Vogt & Son	33726 Adams St.	Elmwood	68349	402-994-2475	GC
Darrell Wehnes & Sons	PO Box 237	Inland	68954	402-772-8101	AC
Ruben Wehnes	PO Box 237	Inland	68954	402-772-8101	GR
West Seeds	2345 Shelton Rd	Shelton	68876	308-647-6903	GR
Dale/Henry Wicke	PO Box 76	Wauneta	69045	308-394-5777	GC
Wiedel's Circle E Inc.	RR 1 Box 35	Hebron	68370	402-768-6729	GR
Williams Lawn Seed Inc.	224 W So. Hills Dr.	Maryville, MO	64468	800-457-9571	GR
Winkelman Seed	PO Box 352	Dalton	69131	308-377-2453	GC
Dale/Linda Zoerb	RR 1 Box 105	Litchfield	68852	308-446-2366	GR



DJS Farm Service

John & Diane Schreiter

5573 F Rd., Nebraska City, Nebraska

djseed@alltel.net

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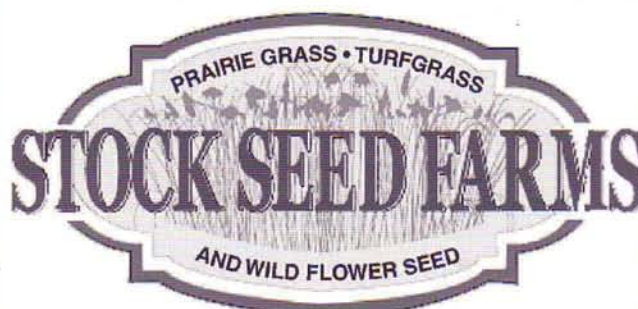
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