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# EC 94-102-A Nebraska Spring Wheat, Oats, Barley, Canola and Crambe Variety Tests 1994

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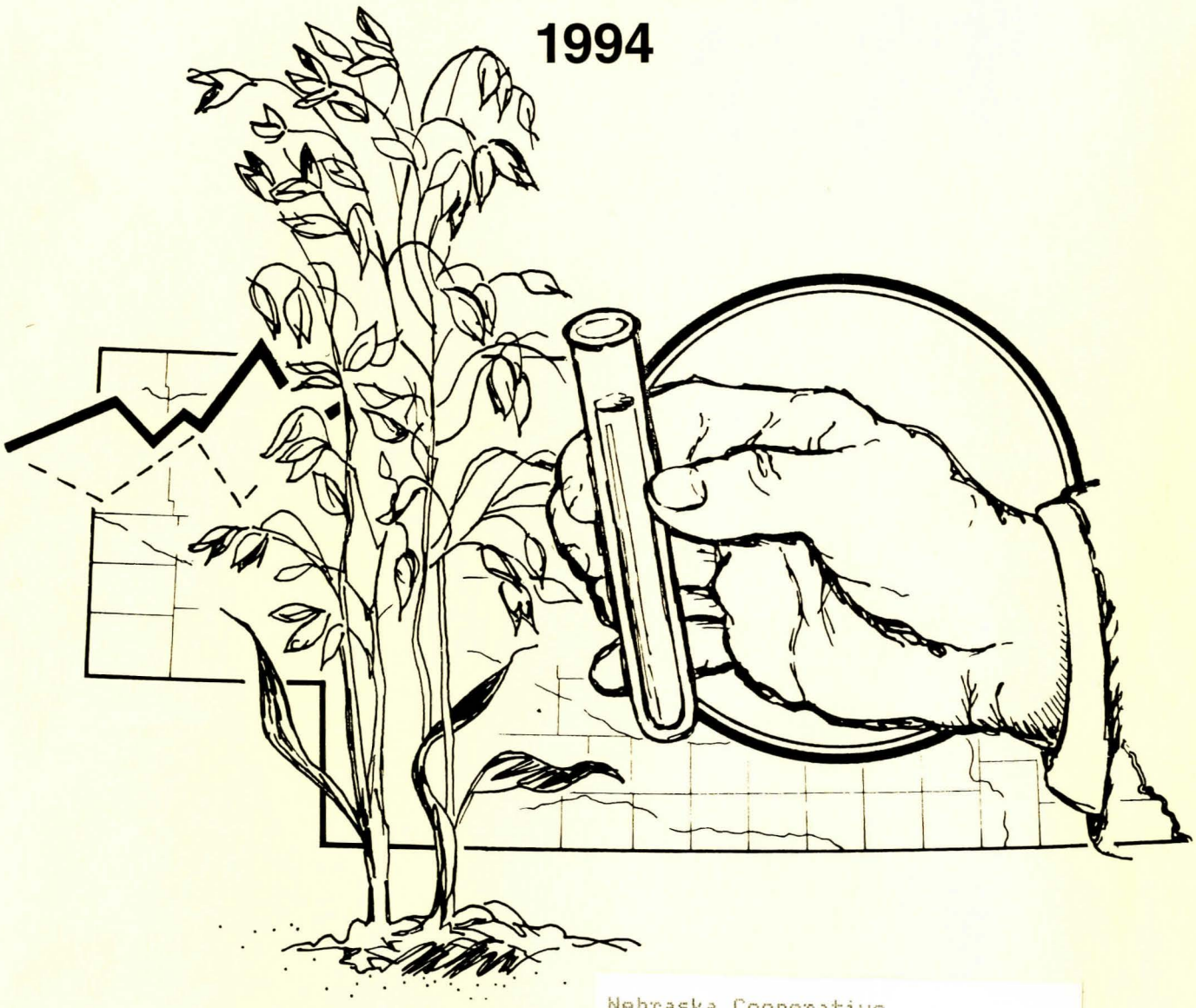
# NEBRASKA SPRING WHEAT, OATS, BARLEY, CANOLA AND CRAMBE VARIETY TESTS 1994



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# EXTENSION CIRCULAR 94-102

# NEBRASKA SPRING WHEAT, OATS, BARLEY CANOLA, AND CRAMBE VARIETY TESTS

**November 1994**

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## METRIC EQUIVALENTS

| | |
|---|---|
| 1 centimeter = 0.394 inches | cm = inches x 2.54 |
| 1 hectare = 2.471 acres | ha = acres x 0.045 |
| 1 kilogram = 2.205 pounds | kg = pounds x 0.454 |
| 1 hectoliter = 2.838 bushels | hl = bushels x 0.352 |

Kilogram/hectoliter = lb/bu x 1.287
Kilogram/hectare = bu/A x 35.87 (32#bushel) oats
Kilogram/hectare = bu/A x 53.81 (48#bushel) barley
Kilogram/hectare = bu/A x 67.26 (60#bushel) wheat

# EXTENSION CIRCULAR 94-102

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## NEBRASKA OATS AND BARLEY PRODUCTION

| | Oats | | Barley | |
|---|---|---|---|---|
| Year | Harv. acres 000 | Yield bu/A | Harv. acres 000 | Yield bu/A |
| 1920 | 2,400 | 33.0 | 256 | 25.0 |
| 1930 | 2,485 | 29.0 | 726 | 25.5 |
| 1940 | 1,426 | 24.0 | 1,321 | 16.0 |
| 1950 | 2,562 | 24.0 | 310 | 15.0 |
| 1960 | 1,213 | 35.5 | 225 | 29.0 |
| 1970 | 573 | 42.0 | 45 | 36.0 |
| 1980 | 380 | 41.0 | 25 | 38.0 |
| 1985 | 420 | 61.0 | 120 | 32.0 |
| 1986 | 360 | 59.0 | 135 | 40.0 |
| 1987 | 360 | 48.0 | 75 | 36.0 |
| 1988 | 300 | 37.0 | 60 | 34.0 |
| 1989 | 310 | 31.0 | 30 | 23.0 |
| 1990 | 280 | 48.0 | 22 | 40.0 |
| 1991 | 210 | 54.0 | 27 | 45.0 |
| 1992 | 220 | 70.0 | 30 | 50.0 |
| 1993 | 160 | 43.0 | 32 | 38.0 |
| 1994 [1] | 150 | 50.0 | 20 | 38.0 |

[1] 1994 data are preliminary. Comparable data for spring wheat are not available. Data furnished by Nebraska Agricultural Statistics Service.

# Nebraska Spring Wheat, Oat, Barley, Crambe, Canola, Rapeseed Trial 1994

## Introduction - Wheat, oats, barley

The purpose of the Nebraska Spring Grain Variety Trial is to provide interested growers with information as to the varieties best suited to their areas. The trial includes spring barley, spring wheat, and spring oats. Entries for this trial were acquired from Foundation Seed centers and plant breeders from Ohio, North Dakota, South Dakota, Illinois, Minnesota, and Wisconsin.

### Locations

Three locations were selected for this year's trial. A dryland trial was grown in Mead, Nebraska, (Saunders County), and in Concord, Nebraska (Dixon County). A dryland and irrigated trial were grown in Sidney, Nebraska (Cheyenne County).

### Experimental Design

All trials were designed as a Randomized Complete Block with four replications with the exception of the Dixon county oat trial which had five replications. The spring barley trial consisted of thirteen entries. Eight of these entries were spring varieties. The other five were winter varieties with facultative type growth habits. The spring barley trial was grown at all locations. The spring wheat trial included seven entries. This trial was tested in Saunders and Cheyenne Counties. The Southeast and Northeast spring oat trials were comprised of 25 entries. Twenty eight varieties were grown in the dryland and irrigated trial in Sidney, Nebraska. Plot size and seeding rates were different at each location. See Table A for plot size and seeding rate at each location.

### Plot culture

Planting and harvest date are recorded for each location in Table A. Plant height, percent lodging, heading date, yield, and test weight are recorded at each location. Due to the low incidence of disease, there were no disease ratings taken for the 1994 spring grains.

## Results for the 1994 Trials

### Spring Oat

Troy oats was the highest yielding variety in Saunders County. For Saunders County yields and plant height, see page 8. Over years average yields are found on page 9. Dixon County yield and field data are located on page 10. Over years average yields are found on page 11. The Cheyenne County irrigated oat data is found on page 12. 'Whitestone' the new release from North Dakota was the highest yielding variety for this location. Over years average yields are found on page 13. Yield and

field data for the dryland oat trial in Cheyenne County are found on page 14. This year, O-29, an experimental from Illinois had the highest yield. For over years average yields, see page 15.

### Spring Barley

In Saunders County (Mead, Nebraska), the Minnesota variety 'Excel' topped the trial with 43 bu/a. Yield and field data for Saunders and Dixon Counties are found on page 16. Yield averages from 1990 to 1994 are found on page 17. The experimental B-01 from North Dakota had the highest yield with 39 bu/a for the 1994 Dixon County Trial.

The Cheyenne County dryland and irrigated data is found on page 18. 'Steptoe' was the highest yielding variety for both the dryland and irrigated trial. The over year averages for yield are on page 19.

### Spring Wheat

Kulm, the new variety from North Dakota was the highest yielding variety for Saunders County with 23 bu/a. Yield and field data for Saunders and Cheyenne Counties are on page 20. In Cheyenne County, 2375 had the best yields for both the irrigated and dryland trials with 25 and 28 bu/a respectively.

## Varieties Released in 1994

**Milton-(PVP)**

Milton, formerly Mn 86231, is an oat selection released by the Minnesota Agricultural Experiment Station. Milton has the pedigree: Premier sib/Mn80111. Foundation seed is available with the Minnesota Crop Improvement Association.

**Whitestone- (PVP)**

Whitestone is a North Dakota oat selection developed by the Agricultural Experiment Station, North Dakota State University, in cooperation with the United States Department of Agriculture. Whitestone was formerly tested as ND870258. The pedigree for Whitestone is Porter/4/ M23/ RL3038// Otana/3/ Froker/ RL3038// Hudson.

**Kulm- (PVP)**

Kulm is a hard red spring wheat developed by the Agricultural Experiment Station, North Dakota State University, in cooperation with the United States Department of Agriculture. 'Kulm' was previously tested as ND671. This variety was selected from a Stoa sib/ND620 cross.

**2375**

2375 is a hard red spring wheat which has not been tested in Nebraska before 1994. It was developed by Pioneer and given to North Dakota State University when their wheat breeding program was closed.

# Crambe and Canola/Rapeseed Trials

**Spring Canola**

Twelve canola/rapeseed varieties were planted in four replicated trials in Cheyenne, Gage, and Lancaster Counties. Cheyenne County had dryland and irrigated sites. Both Cheyenne County trials were abandoned after a late spring freeze destroyed most of the plants. The Gage County plot was short of moisture most of the summer. There was also considerable weed competition at the Gage County trial. The 1994 Lancaster County locations had excellent yields. Canola/rapeseed yields from Gage and Lancaster Counties are reported on pages 21 and 22..

**Crambe**

Twelve genotypes of crambe were planted in four replicated sites in Cheyenne, Gage, and Lancaster Counties. Cheyenne County had dryland and irrigated trials. A late spring freeze destroyed the plots in Cheyenne County. Dry weather and weed competition reduced yields in Gage County. The trial in Lancaster County had very good yields. The 1994 crambe yields from Lancaster County are reported on page 23, and the over years average yields are reported in page 24.

## Table A. Spring grain plot information – 1994

| LOCATION | PLANTING DATE | HARVEST DATE | PLOT SIZE | SEED DENSITY |
|---|---|---|---|---|
| Northeast (Concord) | April 22 | July 21 | 15 X 4.5 ft | 60 lbs/A |
| Southeast (Mead) | March 22–23 | July 14 | 8 X 4 ft | 60 lbs/A |
| Panhandle–dryland (Sidney) | March 31 | July 27 | 11 X 4 ft | 56 lbs/A |
| Panhandle–irrigated (Sidney) | April 1 | August 1 | 12 X 4 ft | 65 lbs/A |

# Southeast District oat variety test
# Saunders County dryland – 1994

| Variety | GRAIN YIELD BU/A | PLANT HEIGHT IN |
|---|---|---|
| TROY | 72 | 30 |
| VALLEY | 70 | 26 |
| MILTON | 69 | 28 |
| O–37 | 68 | 28 |
| JERRY | 67 | 29 |
| SHELDON | 65 | 29 |
| WHITESTONE | 63 | 25 |
| OGLE | 63 | 28 |
| O–38 | 62 | 28 |
| O–39 | 62 | 28 |
| SETTLER | 62 | 29 |
| O–30 | 62 | 28 |
| O–40 | 61 | 28 |
| O–29 | 59 | 27 |
| DON | 56 | 24 |
| STARTER | 55 | 26 |
| PREMIER | 54 | 27 |
| NEWDAK | 52 | 28 |
| PRAIRIE | 52 | 27 |
| DANE | 51 | 25 |
| BRAWN | 51 | 23 |
| O–31 | 51 | 28 |
| RUSSELL | 42 | 30 |
| PAUL | 41 | 29 |
| HAZEL | 33 | 25 |
| Average all entries | 58 | 27 |
| Dif. Req. for Sig. 5% | 16 | 1 |
| 25% | 9 | 1 |

# Southeast District Oat Variety Tests – 1990 – 1994

| Variety | Grain yield | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Brawn | 48.0 | 26.1 | 23.0 | . | . | . | . | . | . |
| Dane | 59.0 | 31.8 | 25.0 | 70.0 | 31.9 | 63.8 | 31.9 | | |
| Don | 46.0 | 30.0 | 24.0 | 51.8 | 31.0 | 53.9 | 31.3 | 47.2 | 32.3 |
| Hazel | 34.5 | 24.1 | 25.0 | 48.3 | 28.1 | 51.5 | 29.4 | 45.8 | 30.3 |
| Newdak | 53.5 | 29.3 | 28.0 | 63.7 | 30.7 | 61.1 | 31.1 | 52.4 | 31.3 |
| O–29 | 52.0 | 26.8 | 27.0 | . | . | . | . | . | . |
| O–30 | 60.5 | 26.6 | 28.0 | . | . | . | . | . | . |
| O–31 | 56.0 | 29.6 | 28.0 | . | . | . | . | . | . |
| Ogle | 55.0 | 27.0 | 28.0 | 68.5 | 29.5 | 70.0 | 30.3 | 69.4 | 30.8 |
| Prairie | 49.5 | 25.8 | 27.0 | 67.1 | 28.9 | 68.2 | 29.9 | | |
| Premier | 39.0 | 24.8 | 27.0 | 52.7 | 28.4 | 51.6 | 29.6 | 45.7 | 30.2 |
| Russell | 38.5 | 25.4 | 30.0 | . | . | . | . | . | . |
| Settler | 57.5 | 25.4 | 29.0 | 66.1 | 28.7 | 62.4 | 29.8 | | |
| Sheldon | 53.0 | 24.3 | 29.0 | . | . | . | . | . | . |
| Starter | 48.0 | 28.1 | 26.0 | 58.4 | 30.1 | 58.7 | 30.7 | 52.0 | 31.8 |
| Troy | 64.5 | 27.1 | 30.0 | 69.5 | 29.6 | | | | |
| Valley | 61.0 | 31.6 | 26.0 | 69.7 | 31.8 | 65.8 | 31.9 | 57.6 | 31.9 |
| Whitestone | 60.5 | 28.0 | 25.0 | . | . | . | . | . | . |
| Average all entries | 52.0 | 27.3 | 26.9 | 62.3 | 29.8 | 60.7 | 30.6 | 52.9 | 31.2 |
| Dif. Req. for Sig. 5% | N.S. | – | – | N.S. | N.S. | N.S. | N.S. | 6.1 | N.S. |
| 25% | 4.9 | – | – | 4.4 | N.S. | 3.9 | N.S. | 3.5 | N.S. |

# Northeast District Oat Variety Test
# Dixon County dryland – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Plant lodging pct | Flower date June |
|---|---|---|---|---|---|
| Jerry | 62.0 | 30.8 | 36.0 | 0.0 | 12.0 |
| O–37 | 53.0 | 28.6 | 34.0 | 1.0 | 10.0 |
| Ogle | 53.0 | 25.6 | 34.0 | 2.0 | 12.0 |
| Troy | 52.0 | 27.2 | 38.0 | 2.0 | 16.0 |
| O–30 | 51.0 | 27.2 | 37.0 | 2.0 | 14.0 |
| Valley | 49.0 | 29.6 | 35.0 | 0.0 | 15.0 |
| Whitestone | 47.0 | 28.6 | 35.0 | 6.0 | 16.0 |
| O–39 | 46.0 | 25.2 | 35.0 | 4.0 | 14.0 |
| Prairie | 46.0 | 26.2 | 35.0 | 8.0 | 14.0 |
| Settler | 45.0 | 29.6 | 34.0 | 3.0 | 12.0 |
| O–31 | 45.0 | 28.8 | 35.0 | 2.0 | 11.0 |
| O–38 | 44.0 | 25.8 | 34.0 | 4.0 | 10.0 |
| Milton | 44.0 | 28.2 | 35.0 | 1.0 | 14.0 |
| Brawn | 43.0 | 25.2 | 32.0 | 2.0 | 15.0 |
| O–29 | 42.0 | 26.2 | 34.0 | 2.0 | 11.0 |
| Dane | 41.0 | 25.6 | 35.0 | 2.0 | 10.0 |
| Newdak | 38.0 | 26.4 | 35.0 | 1.0 | 14.0 |
| O–40 | 37.0 | 26.0 | 34.0 | 2.0 | 12.0 |
| Sheldon | 37.0 | 26.6 | 34.0 | 9.0 | 11.0 |
| Starter | 36.0 | 29.2 | 33.0 | 8.0 | 10.0 |
| Paul | 35.0 | 34.6 | 39.0 | 1.0 | 15.0 |
| Russell | 35.0 | 28.6 | 40.0 | 2.0 | 16.0 |
| Premier | 35.0 | 27.8 | 36.0 | 6.0 | 12.0 |
| Don | 29.0 | 26.4 | 31.0 | 6.0 | 10.0 |
| Hazel | 17.0 | 24.0 | 33.0 | 1.0 | 15.0 |
| Average all entries | 42.0 | 27.5 | 35.0 | 3.0 | 13.0 |
| Dif. Req. for Sig. 5% | 14.9 | 2.0 | 2.8 | 2.2 | 1.4 |
| | 8.7 | 1.2 | 1.7 | 1.3 | 0.8 |

# Northeast District Oat Variety Tests – 1990 – 1994

| Variety | Grain yield | Lodging pct | Plant height | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Dane | 48.5 | 14.0 | 26.2 | 32.0 | 70.3 | 28.3 | 79.6 | 27.3 | 73.7 | 29.4 |
| Don | 33.5 | 34.0 | 26.6 | 30.0 | 59.3 | 29.1 | 71.2 | 28.7 | 68.7 | 28.5 |
| Hazel | 22.5 | 29.0 | 25.0 | 32.0 | 55.7 | 27.6 | 67.1 | 27.5 | 74.5 | 27.7 |
| Newdak | 40.5 | 7.0 | 26.4 | 34.0 | 75.7 | 28.1 | 78.7 | 27.2 | . | . |
| O–29 | 45.5 | 48.0 | 25.5 | 32.0 | . | . | . | . | . | . |
| O–30 | 54.0 | 15.0 | 26.3 | 35.0 | . | . | . | . | . | . |
| O–31 | 55.0 | 20.0 | 28.5 | 34.0 | . | . | . | . | | |
| Ogle | 45.5 | 47.0 | 25.2 | 32.0 | 78.0 | 27.4 | 85.1 | 26.6 | 84.4 | 27.1 |
| Prairie | 43.5 | 51.0 | 23.3 | 33.0 | 76.0 | 26.2 | 82.6 | 26.1 | . | . |
| Premier | 33.5 | 49.0 | 26.9 | 34.0 | 61.7 | 30.2 | 71.1 | 29.9 | 73.0 | 30.0 |
| Russell | 26.5 | 7.0 | 27.1 | 37.0 | . | . | . | . | . | . |
| Settler | 53.5 | 40.0 | 29.1 | 32.0 | 75.7 | 31.2 | 79.6 | 29.8 | . | . |
| Sheldon | 31.5 | 54.0 | 25.2 | 32.0 | . | . | . | . | . | . |
| Starter | 33.5 | 53.0 | 27.4 | 30.0 | 59.0 | 29.8 | 67.2 | 29.2 | 69.3 | 29.7 |
| Valley | 46.0 | 4.0 | 29.2 | 34.0 | 78.7 | 31.1 | 84.8 | 29.6 | 78.0 | 29.1 |
| Whitestone | 56.5 | 22.0 | 27.1 | 34.0 | . | . | . | . | . | . |
| Average all entries | 41.8 | 30.8 | 26.6 | 32.8 | 69.0 | 28.9 | 76.7 | 28.2 | 74.5 | 28.8 |
| Dif. Req. for Sig. 5% | 9.0 | N.S. | 1.5 | 1.2 | 8.5 | 1.2 | N.S. | 1.1 | N.S. | N.S. |
| 25% | 5.1 | N.S. | 0.8 | 0.7 | 4.8 | 0.7 | 4.1 | 0.6 | N.S. | 0.6 |

# West District Oat Variety Test
# Cheyenne County Irrigated – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Flower date June |
|---|---|---|---|---|
| Whitestone | 70.0 | 31.2 | 27.0 | 20.0 |
| O–40 | 67.0 | 31.2 | 27.0 | 13.0 |
| Ogle | 64.0 | 30.0 | 27.0 | 13.0 |
| O–37 | 61.0 | 33.1 | 29.0 | 10.0 |
| Border | 58.0 | 30.6 | 26.0 | 13.0 |
| Brawn | 58.0 | 30.8 | 23.0 | 15.0 |
| Prairie | 57.0 | 31.1 | 24.0 | 15.0 |
| Don | 57.0 | 33.0 | 25.0 | 9.0 |
| Russell | 56.0 | 31.8 | 30.0 | 18.0 |
| Newdak | 55.0 | 31.2 | 27.0 | 13.0 |
| O–38 | 54.0 | 29.3 | 28.0 | 9.0 |
| O–31 | 50.0 | 30.9 | 25.0 | 10.0 |
| Troy | 50.0 | 32.8 | 26.0 | 19.0 |
| Milton | 49.0 | 30.5 | 25.0 | 14.0 |
| O–39 | 49.0 | 31.3 | 22.0 | 11.0 |
| Monida | 49.0 | 30.9 | 27.0 | 21.0 |
| Valley | 49.0 | 33.1 | 24.0 | 15.0 |
| Dane | 48.0 | 28.4 | 26.0 | 8.0 |
| O–29 | 48.0 | 31.4 | 25.0 | 10.0 |
| Sheldon | 46.0 | 31.4 | 28.0 | 12.0 |
| Bay | 45.0 | 31.1 | 23.0 | 20.0 |
| Jerry | 45.0 | 33.5 | 26.0 | 13.0 |
| Paul | 43.0 | 34.3 | 28.0 | 19.0 |
| Hazel | 43.0 | 30.0 | 23.0 | 10.0 |
| O–30 | 42.0 | 30.4 | 23.0 | 12.0 |
| Premier | 41.0 | 33.4 | 25.0 | 12.0 |
| Settler | 41.0 | 33.5 | 27.0 | 12.0 |
| Starter | 35.0 | 32.1 | 23.0 | 9.0 |
| Average all entries | 51.0 | 31.5 | 26.0 | 14.0 |
| Dif. Req. for Sig. 5% | 20.6 | 1.8 | 4.9 | 1.8 |
| 25% | 12.0 | 1.0 | 2.8 | 1.1 |

# West District Irrigated Spring Oat Variety Test – 1990 – 1994

| Variety | Grain yield | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Dane | 45.0 | 29.8 | 26.0 | 65.5 | 31.3 | . | . | . | . |
| Don | 52.5 | 33.8 | 25.0 | 78.5 | 35.3 | 72.1 | 34.0 | 68.7 | 33.6 |
| Hazel | 43.0 | 32.1 | 23.0 | 70.4 | 33.5 | 63.3 | 32.6 | 64.4 | 32.6 |
| Newdak | 57.5 | 32.5 | 27.0 | 75.7 | 33.1 | 73.6 | 31.4 | . | . |
| Ogle | 63.0 | 32.5 | 27.0 | 79.1 | 33.5 | 74.6 | 32.6 | 72.0 | 32.4 |
| Prairie | 62.0 | 32.8 | 24.0 | 85.5 | 33.1 | . | . | . | . |
| Premier | 39.5 | 35.1 | 25.0 | 64.3 | 36.5 | 61.5 | 34.9 | . | . |
| Russell | 55.0 | 33.7 | 30.0 | 59.7 | 33.3 | . | . | . | . |
| Settler | 41.5 | 34.9 | 27.0 | 57.0 | 35.2 | . | . | . | . |
| Starter | 36.0 | 33.7 | 23.0 | 59.6 | 34.8 | 58.2 | 32.7 | 55.9 | 32.8 |
| Troy | 50.5 | 34.2 | 26.0 | . | . | . | . | . | . |
| Valley | 47.5 | 34.6 | 24.0 | 78.0 | 36.4 | 72.5 | 34.3 | . | . |
| Average all entries | 49.4 | 33.3 | 25.6 | 70.3 | 34.2 | 68.0 | 33.2 | 65.3 | 32.9 |
| Dif. Req. for Sig. 5% | 3.9 | 0.7 | – | N.S. | 1.1 | N.S. | 0.9 | N.S. | N.S. |
| 25% | 2.1 | 0.4 | – | 6.1 | 0.6 | 3.6 | 0.5 | 3.4 | N.S. |

# West District Oat Variety Test
# Cheyenne County dryland – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Flower date June |
|---|---|---|---|---|
| O–29 | 47 | 31.5 | 24 | 9 |
| Russell | 46 | 32.3 | 25 | 14 |
| O–37 | 46 | 32.7 | 24 | 9 |
| O–40 | 46 | 29.2 | 23 | 10 |
| O–30 | 46 | 30.6 | 22 | 10 |
| O–31 | 44 | 31 | 24 | 8 |
| Prairie | 44 | 29.7 | 23 | 12 |
| Ogle | 42 | 30.4 | 21 | 10 |
| Valley | 42 | 33.9 | 24 | 12 |
| Bay | 41 | 29.4 | 22 | 16 |
| Jerry | 41 | 34.5 | 26 | 10 |
| Monida | 40 | 27.3 | 24 | 16 |
| Troy | 39 | 31.1 | 23 | 13 |
| Whitestone | 39 | 31.2 | 18 | 14 |
| Border | 39 | 29.5 | 26 | 13 |
| Newdak | 39 | 30.2 | 24 | 11 |
| O–39 | 38 | 30.5 | 20 | 8 |
| O–38 | 38 | 29.2 | 22 | 8 |
| Brawn | 37 | 29.9 | 20 | 11 |
| Dane | 35 | 28.6 | 21 | 8 |
| Settler | 35 | 34.4 | 24 | 10 |
| Milton | 33 | 28.4 | 22 | 11 |
| Premier | 32 | 32.5 | 22 | 11 |
| Paul | 32 | 38.6 | 25 | 12 |
| Hazel | 31 | 29.3 | 19 | 12 |
| Sheldon | 30 | 32.8 | 22 | 9 |
| Starter | 29 | 33.8 | 23 | 9 |
| Don | 27 | 33.7 | 22 | 10 |
| Average all entries | 39 | 31.3 | 23 | 11 |
| Dif. Req. for Sig. 5% | 9.2 | 2 | 2.9 | 1.4 |
| 25% | 5.5 | 1.2 | 1.7 | 0.79 |

# West District Dryland Oat Variety Tests – 1990 – 1994

| Variety | Grain yield | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Dane | 36.5 | 29.5 | 21.0 | 56.5 | 30.1 | . | . | . | . |
| Don | 31.0 | 33.6 | 22.0 | 52.6 | 33.6 | 43.5 | 31.6 | 42.2 | 31.6 |
| Hazel | 34.5 | 31.0 | 19.0 | 56.4 | 31.2 | 45.8 | 29.6 | 44.5 | 30.3 |
| Newdak | 46.5 | 32.1 | 24.0 | 60.9 | 31.4 | 50.2 | 29.2 | . | . |
| Ogle | 48.0 | 31.8 | 21.0 | 71.0 | 31.6 | 61.0 | 29.4 | 57.2 | 29.7 |
| Prairie | 52.5 | 31.6 | 23.0 | 66.3 | 30.3 | . | . | . | . |
| Premier | 35.0 | 33.5 | 22.0 | 55.0 | 33.8 | 47.0 | 32.7 | . | . |
| Russell | 48.5 | 33.2 | 25.0 | 52.1 | 31.4 | . | . | . | . |
| Settler | 37.5 | 35.3 | 24.0 | 50.5 | 34.5 | . | . | . | . |
| Starter | 30.0 | 34.0 | 23.0 | 55.3 | 34.3 | 45.2 | 32.3 | 42.8 | 32.7 |
| Troy | 48.0 | 33.5 | 23.0 | . | . | . | . | . | . |
| Valley | 41.0 | 34.0 | 24.0 | 59.8 | 33.4 | 48.3 | 31.4 | . | . |
| Average all entries | 40.8 | 32.7 | 22.6 | 57.9 | 32.3 | 48.7 | 30.7 | 46.6 | 31.1 |
| Dif. Req. for Sig. 5% | 4.9 | 1.2 | – | N.S. | 1.2 | 4.4 | 0.9 | 2.9 | 0.7 |
| 25% | 2.7 | 0.7 | – | N.S. | 0.7 | 2.5 | 0.5 | 1.4 | 0.4 |

# Southeast District spring barley variety test
# Saunders County dryland – 1994

| Variety | Grain yield bu/a | Plant height inches |
|---|---|---|
| EXCEL | 43 | 21 |
| B–O1 | 40 | 21 |
| ROBUST | 33 | 22 |
| STEPTOE | 26 | 20 |
| HAZEN | 24 | 23 |
| STARK | 23 | 23 |
| STANDER | 23 | 20 |
| PERKINS | 21 | 18 |
| BOWMAN | 18 | 22 |
| NE80725 | 17 | 19 |
| HITCHCOCK | 15 | 18 |
| NEBAR | 14 | 24 |
| SCHUYLER | 4 | 14 |
| Average all entries | 23 | 20 |
| Dif. Req. for Sig. 5% | 7 | 2 |
| 25% | 4 | 1 |

# Northeast District spring barley variety test
# Dixon County dryland – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Plant lodging pct |
|---|---|---|---|---|
| B–01 | 39 | 32.3 | 27 | 2 |
| Stander | 32 | 36.8 | 27 | 2 |
| Hazen | 31 | 33.3 | 31 | 2 |
| Robust | 29 | 37.5 | 30 | 2 |
| Excel | 24 | 36.3 | 29 | 2 |
| Stark | 21 | 37.3 | 29 | 2 |
| Steptoe | 18 | 33.0 | 24 | 2 |
| Bowman | 11 | 31.5 | 25 | 7 |
| PERKINS | 9 | 32.0 | 23 | 2 |
| NE86954 | 7 | 30.0 | 24 | 2 |
| HITCHCOCK | 7 | . | 25 | 2 |
| NEBAR | 5 | . | 26 | 1 |
| SCHUYLER | 4 | . | 18 | 0 |
| Average all entries | 18 | 34.0 | 26 | 2 |
| Dif. Req. for Sig. 5% | 9 | N.S. | 4 | 1 |
| 25% | 5 | 2.2 | 3 | 0 |

## Southeast District Barley Variety Tests – 1990 – 1994

| Variety | Grain yield | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Bowman | 17.0 | | 22.0 | 19.4 | 48.0 | 16.5 | 48.0 | 18.9 | 48.0 |
| Hazen | 24.0 | 42.8 | 23.0 | 25.8 | 45.4 | 24.5 | 46.3 | 26.3 | 46.7 |
| Robust | 27.0 | 46.5 | 22.0 | 30.2 | 47.3 | 27.3 | 47.5 | 29.5 | 47.6 |
| Stark | 23.0 | 46.0 | 23.0 | 24.1 | 47.0 | 22.4 | 47.3 | . | . |
| Steptoe | 21.5 | 33.3 | 20.0 | . | . | . | . | . | . |
| Average all entries | 22.5 | 42.2 | 22.0 | 24.9 | 46.8 | 22.7 | 47.2 | 24.9 | 47.4 |
| Dif. Req. for Sig. 5% | N.S. | – | – | 3.3 | N.S. | 2.5 | N.S. | 2.1 | N.S. |
| 25% | N.S. | – | – | 1.7 | N.S. | 1.4 | N.S. | 1.2 | N.S. |

## Northeast District Barley Variety Tests – 1990 – 1994

| Variety | Grain yield | Lodging pct | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Bowman | 22.5 | 9.0 | 35.5 | 26.0 | 41.3 | 38.6 | 40.3 | 39.7 | 44.4 | 41.3 |
| Hazen | 42.5 | 3.0 | 34.5 | 31.0 | 66.0 | 35.9 | 63.9 | 36.0 | 63.1 | 37.4 |
| Robust | 39.0 | 5.0 | 35.2 | 30.0 | 61.3 | 36.9 | 58.9 | 37.2 | 58.1 | 38.7 |
| Stark | 32.0 | 3.0 | 38.5 | 29.0 | 48.7 | 40.4 | 47.8 | 40.5 | . | . |
| Steptoe | 31.5 | 9.0 | 32.3 | 25.0 | . | . | . | . | . | . |
| Average all entries | 33.5 | 5.6 | 35.2 | 28 | 54.3 | 38.0 | 52.7 | 38.3 | 55.2 | 39.2 |
| Dif. Req. for Sig. 5% | 2.5 | N.S. | N.S. | 1.5 | 5.5 | N.S. | 3.8 | N.S. | 5.2 | N.S. |
| 25% | 1.2 | N.S. | N.S. | 0.7 | 2.8 | N.S. | 2.1 | 1.1 | 2.8 | 1.0 |

# West District Irrigated Barley Variety Test
# Cheyenne County – 1994

| Variety | Grain yield bu/a | Bushel weight lbs/bu | Plant height inches | Flower date June |
|---|---|---|---|---|
| Steptoe | 33.0 | 41.1 | 20.0 | 10.0 |
| Bowman | 31.0 | 45.5 | 21.0 | 12.0 |
| Excel (MN) | 29.0 | 42.4 | 21.0 | 12.0 |
| B–01 (ND11055) | 28.0 | 42.2 | 25.0 | 12.0 |
| PERKINS | 28.0 | 44.5 | 20.0 | 23.0 |
| Stark | 25.0 | 45.3 | 21.0 | 12.0 |
| HITCHCOCK | 25.0 | 41.4 | 17.0 | 23.0 |
| Hazen | 23.0 | 42.6 | 23.0 | 14.0 |
| Stander (MN) | 23.0 | 43.0 | 21.0 | 13.0 |
| NE86954 | 22.0 | 41.4 | 18.0 | 23.0 |
| Robust | 22.0 | 44.4 | 22.0 | 12.0 |
| NEBAR | 19.0 | 41.4 | 25.0 | 24.0 |
| SCHUYLER | 14.0 | 36.5 | 20.0 | |
| Average all entries | 25.0 | 42.4 | 21.0 | 16.0 |
| Dif. Req. for Sig. 5% | 6.7 | 2.0 | 3.3 | 1.1 |
| 25% | 3.9 | 1.1 | 1.7 | 0.6 |

# West District Dryland Barley Variety Test
# Cheyenne County – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Flower date June |
|---|---|---|---|---|
| Steptoe | 37.0 | 43.3 | 20.0 | 9.0 |
| Bowman | 33.0 | 49.9 | 22.0 | 12.0 |
| Stark | 27.0 | 49.6 | 22.0 | 13.0 |
| Stander | 25.0 | 45.8 | 20.0 | 13.0 |
| Excel | 24.0 | 46.2 | 18.0 | 12.0 |
| PERKINS | 22.0 | 45.1 | 14.0 | 20.0 |
| NE86954 | 21.0 | 42.0 | 15.0 | 15.0 |
| Hazen | 20.0 | 46.0 | 19.0 | 12.0 |
| Robust | 19.0 | 46.0 | 20.0 | 12.0 |
| HITCHCOCK | 19.0 | 42.6 | 14.0 | 18.0 |
| B–01 | 17.0 | 44.5 | 18.0 | 12.0 |
| SCHUYLER | 15.0 | 43.4 | 14.0 | . |
| NEBAR | 11.0 | 42.0 | 19.0 | 18.0 |
| Average all entries | 22.0 | 45.1 | 18.0 | 14.0 |
| Dif. Req. for Sig. 5% | 6.4 | 1.1 | 2.8 | 2.5 |
| 25% | 3.7 | 0.7 | 1.6 | 1.4 |

## West District Irrigated Barley Variety Tests –1990 – 1994

| Variety | Grain yield | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Bowman | 43.0 | 46.5 | 21.0 | 57.0 | 48.0 | 61.5 | 48.1 | 67.8 | 49.1 |
| Hazen | 27.5 | 43.2 | 23.0 | 43.7 | 44.4 | 51.3 | 44.7 | 59.2 | 45.7 |
| Robust | 24.0 | 44.4 | 22.0 | 39.3 | 45.2 | 44.8 | 45.6 | 49.8 | 45.9 |
| Stark | 42.5 | 46.6 | 21.0 | 56.0 | 47.8 | . | . | . | . |
| Steptoe | 47.0 | 41.5 | 20.0 | 52.8 | 41.5 | 59.4 | 41.9 | 67.9 | 43.1 |
| Average all entries | 36.8 | 44.4 | 21.4 | 49.8 | 45.4 | 54.2 | 45.1 | 61.2 | 45.9 |
| Dif. Req. for Sig. 5% | N.S. | 1.0 | – | N.S. | 1.1 | N.S. | 0.8 | 5.7 | 0.8 |
| 25% | 6.2 | 0.5 | – | 4.9 | 0.6 | 3.8 | 0.4 | 3.1 | 0.5 |

## West District Dryland Barley Variety Tests – 1990 – 1994

| Variety | Grain yield | Bushel weight | Plant height | Grain yield | Bushel weight | Grain yield | Bushel weight | Grain yield | Bushel weight |
|---|---|---|---|---|---|---|---|---|---|
| | Two year ave. | | | Three year ave. | | Four year ave. | | Five year ave. | |
| Bowman | 39.5 | 48.0 | 22.0 | 56.6 | 48.1 | 47.9 | 45.8 | 49.1 | 46.0 |
| Hazen | 26.5 | 45.4 | 19.0 | 40.7 | 45.7 | 34.6 | 41.9 | 36.0 | 42.1 |
| Robust | 28.5 | 45.8 | 20.0 | 39.4 | 45.1 | 33.3 | 41.9 | 33.6 | 41.9 |
| Stark | 36.5 | 48.0 | 22.0 | 54.0 | 48.1 | . | . | . | . |
| Steptoe | 45.5 | 41.8 | 20.0 | 58.8 | 41.2 | 50.1 | 39.3 | 50.9 | 39.4 |
| Average all entries | 35.3 | 45.8 | 20.6 | 49.9 | 45.6 | 41.5 | 42.2 | 42.4 | 42.3 |
| Dif. Req. for Sig. 5% | 3.0 | 1.4 | – | 4.7 | 1.0 | 3.8 | 1.5 | 3.0 | 1.1 |
| 25% | 1.4 | 0.7 | – | 2.5 | 0.5 | 2.1 | 0.8 | 1.6 | 0.6 |

# Southeast District spring wheat variety test Saunders County dryland – 1994

| Variety | GRAIN YIELD BU/A | PLANT HEIGHT IN |
|---|---|---|
| KULM | 23 | 31 |
| PIONEER | 22 | 29 |
| SHARP | 20 | 28 |
| PROSPECT | 19 | 28 |
| BUTTE 86 | 17 | 28 |
| STOA | 17 | 26 |
| W 01 | 17 | 23 |
| AVERAGE | 19 | 27 |
| DIF.REQ.FOR SIG 5% | 5 | 2 |
| 25% | 2 | 1 |

# West District spring wheat variety test Cheyenne County irrigated – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Flower date June |
|---|---|---|---|---|
| 2375 | 25 | 55.4 | 24 | 11 |
| Prospect | 24 | 53.9 | 22 | 13 |
| Sharp | 20 | 56.8 | 26 | 12 |
| Kulm | 20 | 57.2 | 24 | 11 |
| W 01 | 17 | 54.4 | 27 | 15 |
| Butte 86 | 17 | 53.6 | 27 | 12 |
| Stoa | 16 | 52.6 | 25 | 20 |
| Average all entries | 20 | 54.8 | 25 | 13 |
| Dif. Req. for Sig. 5% | 7 | 2.0 | 2 | 1 |
| 25% | 4 | 1.1 | 1 | 1 |

# West District spring wheat variety test Cheyenne County dryland – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Flower date June |
|---|---|---|---|---|
| 2375 | 28 | 58.2 | 22 | 10 |
| Sharp | 27 | 59.2 | 26 | 9 |
| Kulm | 27 | 59.2 | 23 | 9 |
| Butte 86 | 26 | 56.8 | 26 | 10 |
| Prospect | 23 | 56.3 | 23 | 11 |
| W 01 | 23 | 56.0 | 25 | 13 |
| Stoa | 23 | 54.4 | 24 | 14 |
| Average all entries | 25 | 57.2 | 24 | 11 |
| Dif. Req. for Sig. 5% | 5 | 0.9 | 2 | 1 |
| 25% | 3 | 0.5 | 2 | 0 |

# Lancaster Co. canola/rapeseed variety test—1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Plant lodging pct | Flower date May |
|---|---|---|---|---|---|
| Lethbridge 22A | 1117 | 47.1 | 43 | 8 | 26 |
| Common Brown | 1044 | 49.3 | 45 | 3 | 21 |
| Gisilba | 954 | 50.8 | 32 | 0 | 21 |
| Forage | 935 | 47.4 | 48 | 4 | 25 |
| Tilney | 928 | 51.9 | 28 | 0 | 21 |
| Ochre | 849 | 53.2 | 31 | 0 | 22 |
| Legend | 705 | 40.2 | 37 | 2 | 25 |
| Westar | 633 | 40.8 | 40 | 2 | 26 |
| Tobin | 547 | 44.0 | 33 | 2 | 14 |
| Parkland | 523 | 43.6 | 30 | 2 | 19 |
| Horizon | 477 | 43.4 | 34 | 5 | 13 |
| Celebra | 261 | 37.0 | 38 | 0 | 29 |
| AVERAGE ALL ENTRIES | 748 | 46.4 | 36 | 2 | 22 |
| DIF. REQ. FOR SIG. 5% | 226 | 3.1 | 5 | 3 | 5 |
| 25% | 129 | 1.8 | 3 | 2 | 3 |

# Gage Co. canola/rapeseed variety test – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Plant lodging pct | Flower date May |
|---|---|---|---|---|---|
| Gisilba | 444 | 33 | 8.8 | 0 | 24 |
| Common Brown | 430 | 43 | 8.8 | 5 | 31 |
| Ochre | 327 | 29 | 7.5 | 0 | 24 |
| Forage | 318 | 48 | 8.8 | 5 | 29 |
| Tilney | 294 | 28 | 8.3 | 0 | 23 |
| Lethbridge 22A | 240 | 39 | 10 | 8 | 31 |
| Westar | 99 | 37 | 8.8 | 8 | 31 |
| Legend | 77 | 37 | 7.5 | 2 | 31 |
| Horizon | . | 29 | . | . | 20 |
| Tobin | . | 28 | . | . | 18 |
| Celebra | . | . | . | . | . |
| Parkland | . | 29 | . | . | 20 |
| AVERAGE ALL ENTRIES | 279 | 34 | 8.5 | 3.4 | 25 |
| DIF. REQ. FOR SIG. 5% | 153 | 4 | NS | 3.2 | 3 |
| 25% | 87 | 2 | NS | 1.8 | 1 |

Seed was not harvested from several early maturing varieties because of insect damage.

# Spring Canola/rapeseed variety tests Lancaster County – 1993 – 1994

| Variety | Grain yield lb/a | Plant lodging pct | Bushel weight lb/bu | Plant height inches |
|---|---|---|---|---|
| | 2 Year average | | | |
| Lethbridge 22A | 1099 | 19 | 48.0 | 50 |
| Legend | 1066 | 18 | 40.3 | 45 |
| Common Brown | 1047 | 21 | 48.9 | 51 |
| Westar | 991 | 13 | 40.7 | 45 |
| Tilney | 899 | 9 | 52.3 | 37 |
| Gisilba | 891 | 8 | 52.1 | 39 |
| Forage | 874 | 20 | 47.5 | 51 |
| Ochre | 761 | 14 | 53.3 | 40 |
| Celebra | 755 | 10 | 38.4 | 46 |
| Horizon | 710 | 25 | 43.8 | 39 |
| Parkland | 684 | 41 | 42.5 | 35 |
| Tobin | 625 | 36 | 42.0 | 37 |
| AVERAGE ALL ENTRIES | 867 | 19 | 45.8 | 43 |
| DIF. REQ. FOR SIG. 5% | NS | NS | 1.5 | 3 |
| 25% | NS | NS | 0.8 | 2 |

# Spring Canola/rapeseed variety tests Barnston (1994) and West Point (1993)

| Variety | Grain yield lb/a | Plant lodging pct | Bushel weight lb/bu | Plant height inches |
|---|---|---|---|---|
| | 2 Year average | | | |
| Tilney | 1454 | 34 | 52.7 | 40 |
| Legend | 1387 | 37 | 45.8 | 48 |
| Westar | 1288 | 49 | 47.9 | 48 |
| Gisilba | 1175 | 50 | 52.8 | 42 |
| Lethbridge 22A | 1110 | 49 | 52.0 | 50 |
| Common Brown | 1094 | 41 | 52.0 | 53 |
| Ochre | 1042 | 43 | 50.9 | 43 |
| Forage | 909 | 40 | 52.8 | 58 |
| AVERAGE ALL ENTRIES | 1182 | 43 | 50.9 | 47 |
| DIF. REQ. FOR SIG. 5% | NS | NS | – – | 2 |
| 25% | NS | NS | – – | 1 |

# Lancaster Co. Crambe Variety Test – 1994

| Variety | Grain yield bu/a | Bushel weight lb/bu | Plant height inches | Flower date May |
|---|---|---|---|---|
| Belann | 3231 | 22.1 | 32 | 29 |
| C 22 | 3199 | 21.8 | 30 | 30 |
| Belenzien | 3138 | 22.1 | 29 | 30 |
| NM 89 | 3130 | 24.4 | 31 | 27 |
| C 29 | 3065 | 23.3 | 28 | 30 |
| NM 97 | 2798 | 23.0 | 31 | 25 |
| C 37 | 2793 | 21.4 | 31 | 30 |
| Meyer | 2765 | 21.5 | 27 | 29 |
| Indy | 2755 | 22.5 | 28 | 30 |
| NM 28 | 2710 | 24.6 | 28 | 26 |
| Prophet | 2533 | 19.9 | 29 | 30 |
| NM 2 | 2504 | 24.3 | 28 | 26 |
| AVERAGE ALL ENTRIES | 2885 | 22.6 | 29 | 28 |
| DIF. REQ. FOR SIG. 5% | NS | 2.9 | NS | 3 |
| 25% | 481 | 1.7 | 2 | 2 |

# Crambe Variety Tests 1990 – 1994
# Plots at Barnston, Lincoln, and West Point

| Variety | Grain yield bu/a | Plant lodging pct | Bushel weight lb/bu | Plant height inches |
|---|---|---|---|---|
| | 2 Year average | | | |
| Belann | 1756 | 15 | 22.1 | 37 |
| Belenzien | 1680 | 15 | 22.1 | 36 |
| C 22 | 1697 | 22 | 21.8 | 37 |
| C 29 | 1674 | 15 | 23.3 | 35 |
| C 37 | 1507 | 18 | 21.4 | 36 |
| Indy | 1489 | 14 | 22.5 | 33 |
| Meyer | 1506 | 7 | 21.5 | 34 |
| NM 2 | 1337 | 13 | 24.3 | 34 |
| NM 28 | 1461 | 16 | 24.6 | 33 |
| NM 89 | 1704 | 9 | 24.4 | 35 |
| NM 97 | 1488 | 19 | 23.0 | 36 |
| Prophet | 1369 | 19 | 19.9 | 35 |
| Average all entries | 1556 | 15 | 22.6 | 35 |
| Dif. Req. for Sig. 5% | NS | NS | -- | NS |
| 25% | NS | NS | -- | 1 |
| | 3 Year average | | | |
| Meyer | 1384 | 13 | 21.5 | 34 |
| NM 2 | 1393 | 11 | 23.7 | 34 |
| NM 28 | 1419 | 17 | 23.3 | 34 |
| NM 89 | 1615 | 7 | 23.6 | 35 |
| NM 97 | 1421 | 22 | 22.6 | 36 |
| Average all entries | 1446 | 14 | 22.9 | 34 |
| Dif. Req. for Sig. 5% | NS | NS | NS | NS |
| 25% | NS | NS | 0.4 | NS |
| | 4 Year average | | | |
| NM 2 | 1419 | 9 | 22.6 | 34 |
| NM 28 | 1446 | 13 | 21.9 | 34 |
| NM 89 | 1598 | 5 | 22.5 | 35 |
| NM 97 | 1392 | 17 | 21.0 | 35 |
| Average all entries | 1463 | 11 | 22.0 | 34 |
| Dif. Req. for Sig. 5% | NS | NS | 0.4 | NS |
| 25% | 61 | 2 | 0.2 | 1 |
| | 5 Year average | | | |
| NM 2 | 1250 | 9 | 21.3 | 30 |
| NM 89 | 1408 | 5 | 21.4 | 31 |
| NM 97 | 1207 | 17 | 20.1 | 31 |
| Average all entries | 1288 | 10 | 20.9 | 31 |
| Dif. Req. for Sig. 5% | NS | NS | 0.4 | NS |
| 25% | 56 | 2 | 0.2 | 1 |

# Institute of Agriculture and Natural Resources

## University of Nebraska-Lincoln

## Agricultural Research Division

## College of Agricultural Sciences and Natural Resources

## College of Home Economics

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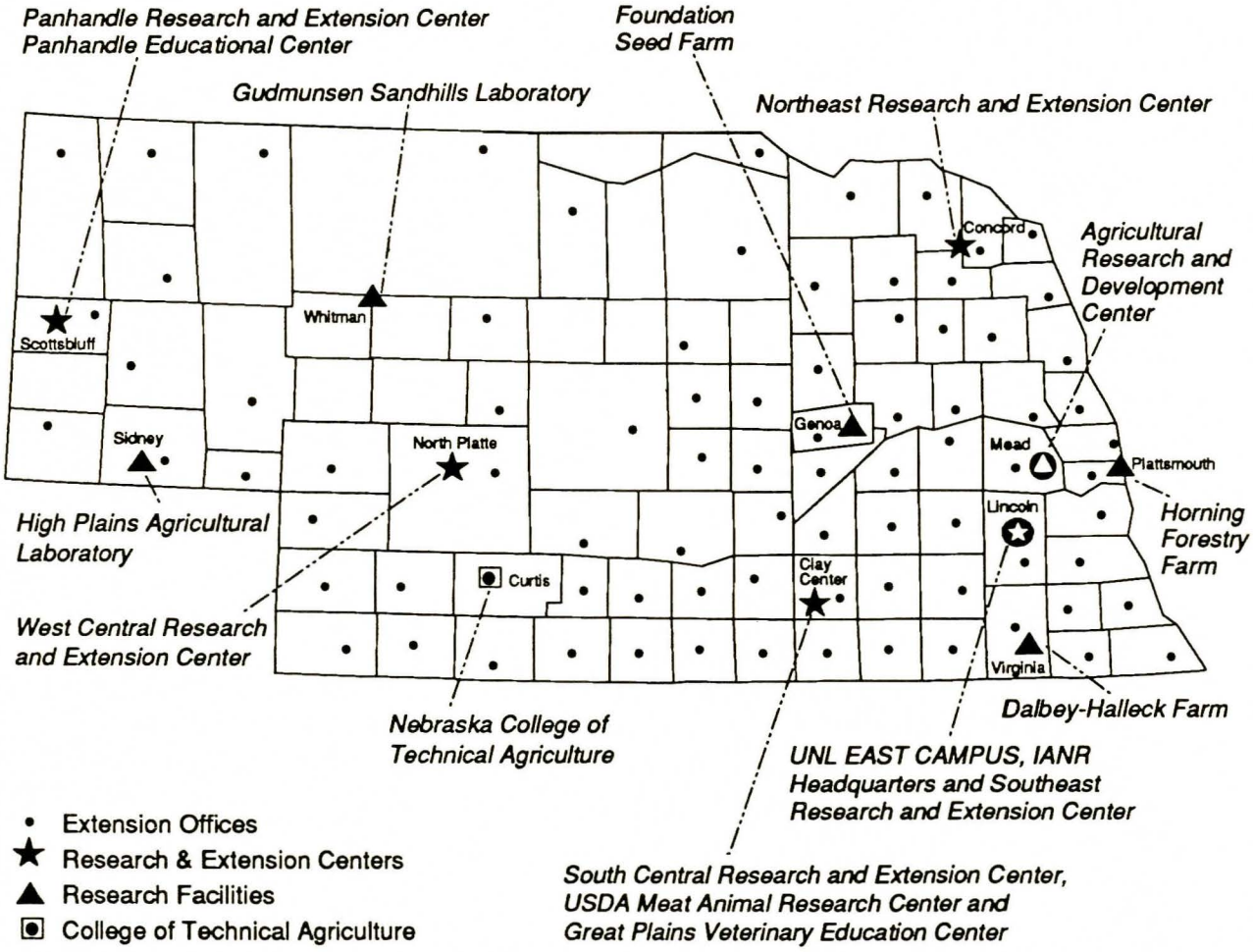
## Cooperative Extension Division

## International Programs

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- ★ Research & Extension Centers
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- ◉ College of Technical Agriculture