1991

EC91-106-A Nebraska Grain Sorghum Hybrid Tests

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EXTENSION CIRCULAR 91-106

NEBRASKA GRAIN SORGHUM HYBRID TESTS

January 1992

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ACKNOWLEDGMENTS

This circular is a progress report of grain sorghum trials conducted to obtain yield and other information for some of the hybrids being marketed. The 1991 season was the 34th year that private hybrids were included in these trials. Seed producers supported tests through fee payments.

Cooperating were the Agronomy Department and the South Central, West Central and Panhandle Research and Extension Centers. Acknowledgment is made to Extension Agents and others who assisted in these tests. Special acknowledgment is made to farmers who furnished land for the trials.

Conduct of experiments and publication of results is a joint effort of the Agricultural Research Division and the Cooperative Extension Service. Statistical calculations were performed by the Biometrics and Information Systems Center at UN-L.

We want to acknowledge the State Climate Program at the University of Nebraska-Lincoln for providing the climate data used in this report. The reports of temperature and rainfall conditions at the various locations are found on pages 37 and 38.

We also wish to acknowledge the Nebraska Agricultural Statistics Service for data on crop acreages. Their data is included in the introduction on page 4.

We want to thank the people who provided technical support for this project, namely Glen Frickel, Patrick Tenopir, John A. Eis, Robert Hendrickson, George Hoffmeister, Don Thrailkill, Tom O'Hare, Scott Ferguson and Robert Skates.
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METRIC EQUIVALENTS

1 centimeter = 0.394 inches          cm = inches x 2.54
1 hectare = 2.471 acres             ha = acres x 0.405
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
Kilograms/hectare = bu/A x 62.78 (56# bu)
NEBRASKA GRAIN SORGHUM HYBRID TESTS

1991

Recent grain sorghum acreage and yields for Nebraska were as follows:

<table>
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<tr>
<th>Year</th>
<th>Yield bu/A</th>
<th>Acres (000)</th>
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<tr>
<td>1984</td>
<td>64.0</td>
<td>1,900</td>
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<tr>
<td>1985</td>
<td>80.0</td>
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<td>1986</td>
<td>89.0</td>
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<td>1987</td>
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<td>1988</td>
<td>76.0</td>
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<tr>
<td>1989</td>
<td>62.0</td>
<td>1,650</td>
</tr>
<tr>
<td>1990</td>
<td>77.0</td>
<td>1,400</td>
</tr>
<tr>
<td>1991</td>
<td>65.0</td>
<td>1,250</td>
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</table>

May 28, planting was 50% completed which was about average. Weather conditions provided excellent growing conditions for crops as well as weeds. Some producers were able to apply chemical weed control or cultivate between rains. On June 9, wet fields delayed weed control activities in many areas. Storms caused crop damage to the northeast, east central, central, south central and western districts from hail, high winds, and excessive rainfall. Replanting of sorghum is being planned where damaged by storms. On June 17, the crop is virtually all planted. Hot temperatures and limited rainfall during July and August caused severe stress on yield potentials. August 26, sorghum condition was rated at 6% very poor, 32% poor, 31% fair, 30% good, and 3% excellent. On September 19, a killing frost occurred but most grain sorghum was already mature and escaped serious damage. Some late planted, replanted, or drought-affected slow maturing crop was hurt by early frost. Harvest was two weeks ahead of normal by Oct.7. Chinch bugs, greenbugs, hot, dry weather caused some lodging in southeast Nebraska.

PROCEDURE

Locations of trials are shown on the map (page 36). Names of cooperators are shown in Table A. Entrants and entries are shown in Tables B and C, respectively.

Seed for testing was furnished by the entrant. In each trial, entries were seeded at equivalent seeding rates on a live-seed basis. Seeding rates varied with location as shown in Table D. Seeding was accomplished with cone or belt units mounted on commonly used row planters. Two-row plots, 20 to 30 feet long were used.

Data on one-half bloom were obtained by visiting plots on alternate days during the flowering period. Where included, grain moisture determinations were made at harvest at a time when differences between entries were relatively high. This gives an indication of relative grain drying rates.

Plant height and head exsertion readings were made at harvest. Lodging readings were taken at harvest. Reported yields are based on 56 pounds per bushel and 14 percent grain moisture.

Entries in data tables are listed in order of decreasing yield. There are variations in maturity among trials and over years. Maturity is listed as plant bloom days or days from planting to bloom. The maturity of a hybrid is an important consideration in its adaptation to a given location, etc. In making yield evaluations, hybrids should be compared with those having similar maturities.

Changes were made in the alignment of zones in 1990. The two tests in the Clay Center area (South Central zone) were separated from the two tests in the Southeast zone. This affects the over years averages since data prior to 1990 were combined with the Southeast zone.

Changes were also made in the West Central zone in 1990 by splitting it into a West Central and a Southwest zone. Over years averages from these tests prior to 1990 were combined with the Southwest zone.

Variations in soil fertility, moisture conditions and other factors are found in each test area. This makes it impossible to measure yielding ability of hybrids with absolute
accuracy. For this reason, small yield differences have little meaning. A statistical measure of differences required for significance is given in each table. These differences were computed at the 5 percent and 25 percent levels of significance. At the 5 percent level a difference of that magnitude would be expected once in twenty trials through chance alone. At the 25 percent level, a difference as large or larger would be expected by chance alone in one of four trials.

RESULTS

The average performance of all entries at each 1991 test location is shown in Table D. All tests were machine harvested this year. The maturity yield-correlation (r value) is an indication of the relationship between maturity (as measured by days from planting to bloom) and grain yield.

The average performance of hybrids included in trials over a five-year period is shown in Table E. This data indicates the effect of seasonal growing conditions on the characters measured. Stalk lodging data are included only for experiments where differentials among hybrids were observed.

Southeast (Pages 12 - 18)

Fifty-seven entries were planted at two locations. Lancaster county were yields averaged for all entries 132 Bu/A dryland despite the drought. Maturity yield correlation was highly significant at the 1% level for this location. This correlation was positive meaning the later maturity gave higher yields. Lodging was not a problem.

Saline county with fifty-seven entries had a 50 bu/A average was under severe drought stress all summer including an infestation of greenbugs and an early frost reduced potential yields.

South Central (Pages 20-26)

Clay county had 60 entries which was irrigated with a 151 bu/A average. Webster county had 60 entries dryland with a 94 bu/A average yield. Grain yields at both locations were excellent considering the dry conditions that occurred after the first of June. Especially notable were the yields at the Webster county location in an area where most sorghum did not head out due to drought. The difference was due to cropping sequence. This field is in a fallow-wheat-sorghum rotation and was no-tilled. Although crop stands were reduced by heavy wheat residue in some areas (average planted stand = 62,000 seeds/acre; average harvested stand = 25,000 plants/acre), plants were able to compensate. All hybrids were headed out very well. Plant stands of some of the University's experimental lines (90P651 x TX850, N122A x TX8505, 90P594 x TX850 and R5626) were especially low (average = 18,135 plants/acre). Precipitation for the season (1 April to 22 September) was 76% of normal at South Central Research and Extension Center and 78% of normal at Holdrege (the Webster County site is between but south of these two weather stations). Growing degree day accumulations were normal during the season at both weather stations. At South Central Research and Extension Center (the Clay County location) potential ET for the season was lower than the long-term average. Decreased potential ET results in a decrease in crop water use. Since growing degree days and average daily temperatures were not significantly different from normal, the lower ET can be attributed to 1) higher than normal humidity, 2) lower solar radiation, and 3) less than normal winds. These all occurred during the season at South Central Research and Extension Center. (This ET analysis is by Joel Cahoon, Extension Water Management Engineer.)

The growing season was abruptly terminated by an extremely early frost at both locations on 19 September. Temperatures were below freezing for six hours at South Central Research and Extension Center (a low of 25 degrees F) and for five hours at Holdrege (a low of 32 degrees F). Sorghum hybrids were generally mature at this date.

Southwest (Pages 27-30)

A total of thirty eight entries were tested at two locations in this zone. Red Willow and Hayes county plots were planted in wheat stubble from the 1990 harvest. Hayes County had better yields 56 bu/A then Red Willow with 31 bu/A. The average performance of all entries included in trials over a five-year period are included for this zone.

West Central (Pages 32-33)
These trials were seeded into wheat stubble from 1990 crop. There were 19 entries tested at two locations. Yields averaged 88 bu/A at Lincoln county and Perkins county 55 bu/acre. The hot dry summer and early frost reduced the yields in Perkins county.

West (Pages 34-35)

Five entries were tested at two locations, both in Cheyenne County. One test was an ecofallow and the other was black fallow. Black fallow had a 20 month fallow following wheat while ecofallow had eight months following wheat. Negative values of correlation of yield and maturity indicate some late varieties were affected by frost. Planting on both plots was delayed due to wet weather. Hot dry summer enabled crop to mature faster then normal, although probably no hybrids were fully mature when killed by frost September 19.

Cultural Practices

Lancaster (dryland): No till on soybean stubble. Surface applied herbicide was 1 qt Dual 20 days before planting and early preplant 1 qt Atrazine. At planting time 1 pt. Dual and 60 lbs liquid N 28-0-0. No insecticide was used. Cultivated twice and hand hoed.

Saline (dryland): 1990 grain sorghum. Preplant 97 lbs of Anhydrous ammonia. At planting 6-20-0 one inch to the side of seed (5.3 gal of 10-34-0). Broadcast 6.25 lbs Ramrod / Atrazine DF. 8 ounces of Parathion (aerial application for greenbug). Extreme drought.

Clay (irrigated): No till following soybeans. Applied 50 lbs Nitrogen, 40 lbs Phosphate/acre broadcast. No insecticide was used.

Webster (dryland): This field was in a fallow-wheat-sorghum rotation and was no-tillled. Nitrogen 100 lbs, Phosphorus 20 lbs, Zn 2 lbs/A. P and Zn were placed below soil surface to be effective in no-till situations.

Red Willow (ecofallow): Previous crop was wheat. 85 lbs Nitrogen and 5 lbs Sulfur were applied per acre. Preplant 0.5 lbs Atrazine + 2 pt Dual + 0.5 pt 2,4-D (6 lb lo-vol) + 1.5 pt cyclone. Lorsban 15G (8 oz/1000 ft of row) was applied.

Hayes (ecofallow): No-tilled. Previous crops were 1990-winter wheat, 1989-fallow. Twenty lbs Nitrogen was applied preplant and at planting 17-24-0 was applied. On July 18, 1990, 2.5 lbs Atrazine, 1.5 pt Roundup, 2,4-D 0.5 pt of 6 lbs LVE. Spring-Bladex + Atrazine. Post-Banvel.

Lincoln (ecofallow): Crop history 1989-fallow, 1990-wheat. Herbicides: Atrazine and Paraquat were used on stubble and Landmaster preplant. Fertilizer: 60 lbs of N.

Perkins (ecofallow): Fallow-wheat-sorghum rotation and was no-tilled. 70 lbs of Nitrogen at planting. No insecticide was used. 0.5 lbs Atrazine preemergence. 1.5 lbs Atrazine in fall of 1990.


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<th>Location</th>
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<tr>
<td>Lancaster (dryland)</td>
<td>Sharpsburg Silty Clay Loam</td>
<td>U of N Extension in Lancaster</td>
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<td></td>
<td>Dual + Atrazine</td>
<td>Lincoln</td>
</tr>
<tr>
<td>Saline (dryland)</td>
<td>Crete &amp; Hastings Silty Clay Loam</td>
<td>Larry Eigsti</td>
</tr>
<tr>
<td></td>
<td>Ramrod + Atrazine</td>
<td>Friend</td>
</tr>
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<td><strong>South Central</strong></td>
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<td></td>
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<tr>
<td>Clay (irrigated)</td>
<td>Hastings Silt Loam</td>
<td>South Central REC</td>
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<td>Ramrod + Atrazine</td>
<td>Clay Center</td>
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<tr>
<td>Webster (dryland)</td>
<td>Hastings Silty Loam</td>
<td>Bob Walters</td>
</tr>
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<td>Dual + Atrazine, Ramrod</td>
<td>Guide Rock</td>
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<tr>
<td><strong>Southwest</strong></td>
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<td></td>
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<td>Red Willow (ecofallow)</td>
<td>Holdrege &amp; Keith Silt Loam</td>
<td>Ervin Schaffert</td>
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<td></td>
<td>Atrazine+Dual+2,4-D+Cyclone</td>
<td>Indianola</td>
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<td>Hayes (ecofallow)</td>
<td>Kyma Silt Loam</td>
<td>Dennis Riener</td>
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<td>Banvel,Bladex+Atrazine;</td>
<td>Palisade</td>
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<td>Atrazine,Roundup,2,4-D</td>
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<td>Lincoln (ecofallow)</td>
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<td>Atrazine+Landmaster+Paraquat</td>
<td>North Platte</td>
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<td>Perkins (ecofallow)</td>
<td>Keith Silt Loam</td>
<td>Tom Kraus</td>
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<tr>
<td></td>
<td>Atrazine</td>
<td>Madrid</td>
</tr>
<tr>
<td><strong>West</strong></td>
<td></td>
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<tr>
<td>Cheyenne(black fallow)</td>
<td>Duroc Loam</td>
<td>High Plains Ag. Lab.</td>
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<td>Ramrod + Atrazine</td>
<td>Sidney</td>
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<tr>
<td>Cheyenne (ecofallow)</td>
<td>Alliance Silt Loam</td>
<td>High Plains Ag. Lab.</td>
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## Table B. Entrants. Nebraska grain sorghum performance tests. 1991.

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<td>Asgrow Seed Company</td>
<td>7000 Portage Rd., Kalamazoo, MI 49001</td>
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<tr>
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<td>Cargill Hybrid Seeds</td>
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## TABLE C. Grain sorghum entries and zone where tested. 1991.

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* Zone A = Southeast, Zone I = South Central, Zone B = Southwest, Zone C = West Central, Zone D = West
**Table D. Grain sorghum. Average performance at each test location. 1991.**

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<th>Plant height inches</th>
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<sup>1</sup> Correlation of average days to bloom for zone with acre grain yield. Higher r values indicate closer agreement. * significant (5% level). ** highly significant (1% level). Negative values indicate that later flowering was accompanied by lower yield.

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# Lancaster County Sorghum Hybrid Test – 1991

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9-YEAR AVERAGE (Continued)

4-YEAR AVERAGE

5-YEAR AVERAGE
### Clay County Irrigated Grain Sorghum Test—1991

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**AVERAGE ALL ENTRIES**

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**DIF. REQ. FOR SIG.**

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| 5%      | 12.6| 2.2| 2.8| 2.1| 0  |
| 25%     | 7.4 | 1.3| 1.6| 1.2| 0  |
# Webster County Dryland Sorghum Test – 1991

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## Webster County Dryland Sorghum Test – 1991

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| AVERAGE ALL ENTRIES    | 56           | 45                 | 12             | 28              | 56.5               |
| DIR. REQ. FOR SIG.     | 5%           | NS                 | 3.6            | 1.1             | 28.9               | NS               |
|                        | 25%          | 16.9               | 2.1            | 0.7             | 16.9               | NS               |
## Southwest Ecofallow Sorghum Performance Test.

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| AVERAGE ALL ENTRIES | 44 | 44 | 12 | 22 | 56.8 |
| DIF. REQ. FOR SIG.  | 5% | NS | 2  | 1  | 24  | 1.9  |
|                     | 25%| 11 | 1  | 1  | 14  | 1.1  |
Southwest Sorghum Performance Tests.

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AVERAGE ALL ENTRIES
GRAIN YIELD BU/A | PLANT HEIGHT IN | EARLY MOIST PCT | STALK LODGE PCT | TEST WEIGHT LB/BU | Plant Bloom Days
--- | --- | --- | --- | --- | ---
55 | 41 | 13 | 13 | 57.6 |

DIF. REQ. FOR SIG. 5%
GRAIN YIELD BU/A | PLANT HEIGHT IN | EARLY MOIST PCT | STALK LODGE PCT | TEST WEIGHT LB/BU
--- | --- | --- | --- | ---
NS | 1 | NS | NS | 0.6 |

DIF. REQ. FOR SIG. 25%
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**AVERAGE ALL ENTRIES**

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West Central Ecofallow Sorghum Hybrid Tests.

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West Central Sorghum Performance Test.
1990 – 1991

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25% 2.1 0.9 0.7 NS 6.0 0.5
Cheyenne County Black Fallow Grain Sorghum Test – 1991.

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<th>BRAND</th>
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<th>GRAIN YIELD BU/A</th>
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<th>PLANT HT IN</th>
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<th>TEST WEIGHT LB/BU</th>
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AVERAGE ALL ENTRIES

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| 3–YEAR AVERAGE |              |                  |                  |                 |                 |                 |                   |
| 4–YEAR AVERAGE |              |                  |                  |                 |                 |                 |                   |

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Locations of 1991 Sorghum Tests

1 Southeast
2 South Central
3 Southwest
4 West Central
5 West
Average rainfall deviation from normal for May, June, July, and August (inches)

- Lancaster
- Saline
- Red Willow
- Hayes
- Perkins
- Cheyenne
- Webster
- Lincoln

Counties
Average temperature deviations from normal for May, June, July, and August (°F)
Institute of Agriculture and Natural Resources
University of Nebraska-Lincoln

Agricultural Research Division
College of Agricultural Sciences and Natural Resources
College of Home Economics
Conservation and Survey Division
Cooperative Extension Division
International Programs

Panhandle Research and Extension Center
Panhandle Educational Center
Gudmunsen Sandhills Laboratory
Nebraska College of Technical Agriculture
UNL EAST CAMPUS, IANR
Headquarters and Southeast Research and Extension Center
South Central Research and Extension Center,
USDA Meat Animal Research Center and
Great Plains Veterinary Education Center

Sidney
Whitman
North Platte
Curtis
Dalbey-Hallock Farm

High Plains Agricultural Laboratory
West Central Research and Extension Center

Northeast Research and Extension Center

Foundation Seed Farm

Agricultural Research and Development Center
Horning Forestry Farm

UNL EAST CAMPUS, IANR
Headquarters and Southeast Research and Extension Center
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Extension Offices
Research & Extension Centers
Research Facilities
College of Technical Agriculture