1983

**EC83-104 Nebraska Soybean Performance Tests 1982**

A. F. Dreier

J. H. Williams

R. S. Moomaw

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NEBRASKA SOYBEAN
PERFORMANCE TESTS
1982
FOREWORD

This circular is a progress report of soybean performance trials conducted by the variety evaluation and soybean breeding projects of the Agricultural Experiment Station. Cooperating were the Agronomy Department and the Northeast, South Central and North Platte Stations. Conduct of experiments and publication of results is a joint effort of the Agricultural Experiment Station and the Cooperative Extension Service.

Acknowledgment is made to station personnel, county extension agents and farmer cooperators who assisted in conduct of these tests. Tests were supported in part by fees collected from entrants. A grant from the Nebraska Soybean Development Utilization and Marketing Board enabled purchase of planting and harvest equipment necessary for conduct of East Central and Southeast trials. Special acknowledgment is made to James Novotny and Russell Lang of the Dodge County Extension Service for obtaining maturity data for that trial.

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## NEBRASKA SOYBEAN PRODUCTION

The following data were obtained from Nebraska Agricultural Statistics. In 1940, 13,000 acres of soybeans also were cut for hay.

<table>
<thead>
<tr>
<th>Year</th>
<th>Harvested acres (ha) 000</th>
<th>Average yield bushels (kg/ha)</th>
<th>Production bushels (metric tons) 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>1940</td>
<td>4 (2)</td>
<td>14.0 (942)</td>
<td>56 (2)</td>
</tr>
<tr>
<td>1950</td>
<td>50 (20)</td>
<td>24.0 (1614)</td>
<td>1,200 (33)</td>
</tr>
<tr>
<td>1955</td>
<td>180 (73)</td>
<td>10.5 (706)</td>
<td>1,890 (52)</td>
</tr>
<tr>
<td>1956</td>
<td>146 (59)</td>
<td>11.5 (773)</td>
<td>1,679 (46)</td>
</tr>
<tr>
<td>1957</td>
<td>142 (58)</td>
<td>26.0 (1749)</td>
<td>3,692 (101)</td>
</tr>
<tr>
<td>1958</td>
<td>206 (83)</td>
<td>29.0 (1951)</td>
<td>5,974 (163)</td>
</tr>
<tr>
<td>1959</td>
<td>146 (59)</td>
<td>24.0 (1614)</td>
<td>3,504 (95)</td>
</tr>
<tr>
<td>1960</td>
<td>164 (66)</td>
<td>28.0 (1883)</td>
<td>4,592 (125)</td>
</tr>
<tr>
<td>1961</td>
<td>292 (118)</td>
<td>25.5 (1715)</td>
<td>7,446 (203)</td>
</tr>
<tr>
<td>1962</td>
<td>310 (126)</td>
<td>27.0 (1816)</td>
<td>8,370 (228)</td>
</tr>
<tr>
<td>1963</td>
<td>356 (144)</td>
<td>28.5 (1917)</td>
<td>10,146 (276)</td>
</tr>
<tr>
<td>1964</td>
<td>523 (212)</td>
<td>22.0 (1480)</td>
<td>11,506 (313)</td>
</tr>
<tr>
<td>1965</td>
<td>696 (282)</td>
<td>23.5 (1581)</td>
<td>16,356 (446)</td>
</tr>
<tr>
<td>1967</td>
<td>782 (317)</td>
<td>22.5 (1513)</td>
<td>17,595 (479)</td>
</tr>
<tr>
<td>1968</td>
<td>782 (317)</td>
<td>23.5 (1581)</td>
<td>18,377 (501)</td>
</tr>
<tr>
<td>1969</td>
<td>766 (310)</td>
<td>33.5 (2253)</td>
<td>25,661 (699)</td>
</tr>
<tr>
<td>1970</td>
<td>812 (329)</td>
<td>22.0 (1480)</td>
<td>17,864 (487)</td>
</tr>
<tr>
<td>1971</td>
<td>609 (247)</td>
<td>25.0 (1682)</td>
<td>15,225 (415)</td>
</tr>
<tr>
<td>1972</td>
<td>746 (302)</td>
<td>33.0 (2220)</td>
<td>24,618 (671)</td>
</tr>
<tr>
<td>1973</td>
<td>1,210 (490)</td>
<td>30.0 (2018)</td>
<td>36,300 (989)</td>
</tr>
<tr>
<td>1974</td>
<td>1,190 (482)</td>
<td>24.0 (1614)</td>
<td>28,560 (778)</td>
</tr>
<tr>
<td>1975</td>
<td>1,200 (486)</td>
<td>27.0 (1816)</td>
<td>32,400 (883)</td>
</tr>
<tr>
<td>1976</td>
<td>980 (397)</td>
<td>20.0 (1345)</td>
<td>19,600 (534)</td>
</tr>
<tr>
<td>1977</td>
<td>1,130 (458)</td>
<td>36.0 (2421)</td>
<td>40,680 (1108)</td>
</tr>
<tr>
<td>1978</td>
<td>1,250 (506)</td>
<td>34.0 (2287)</td>
<td>42,500 (1158)</td>
</tr>
<tr>
<td>1979</td>
<td>1,610 (652)</td>
<td>34.0 (2287)</td>
<td>54,740 (1491)</td>
</tr>
<tr>
<td>1980</td>
<td>1,770 (717)</td>
<td>30.0 (2018)</td>
<td>53,100 (1446)</td>
</tr>
<tr>
<td>1981</td>
<td>2,070 (838)</td>
<td>38.0 (2566)</td>
<td>78,660 (2142)</td>
</tr>
<tr>
<td>1982 1/</td>
<td>2,300 (932)</td>
<td>37.0 (2489)</td>
<td>85,100 (2318)</td>
</tr>
</tbody>
</table>

1/ November 1 estimate.
The November 1 estimated soybean yield for Nebraska was 37.0 bushels from 2.3 million harvested acres. Total production and acreage were records. The yield was one bushel below the record 38.0 bushels per acre produced in 1981.

Data were obtained from 13 trials at 7 locations in 1982 (Table 1). Experiment Station varieties were included in all trials. Privately developed varieties or blends were included in Northeast, East Central, Southeast and South Central irrigated tests.

PROCEDURE

Privately developed varieties were selected by the seed producer. At each location, entries were divided into early and late for convenience in handling. Three varieties were common to both early and late trials. Yields were calculated as a percentage of the average of these entries. These percentages, not bushel yields, should be used for comparisons of early and late entries at a location.

Names and addresses of entrants are shown in Table 2. A list of entries by brand name is shown in Table 3.

Entries were planted in four-row plots 15 to 35 feet long. Plots were replicated four times in a randomized complete block design. A planting rate of 9 seeds per foot in 30-inch rows (156,800 seeds per acre) was used unless a higher or lower rate was requested by the entrant. Elf and Hobbit also were planted at a 13.5 seeds per foot rate.

At harvest, two rows 10 to 30 feet long were threshed for yield. Reported yields are corrected to 13% moisture. Plots were rated mature when 95% of the pods had turned brown. Lodging scores were based on a 1 to 5 scale where 1 = all plants erect and 5 = all plants flat. Height was measured before harvest.

Seed quality and grams per 100 seeds data were obtained at some locations. Seed quality is rated on a 1 to 5 scale with 1 = best and 5 = poorest. Seeds per pound = 453.6 x 100 ÷ grams per 100 seeds. Seed weight data will be determined for all 1982 trials.

Metric equivalents and conversions are as follows:

1 centimeter = 0.394 inches  
1 hectare = 2.471 acres  
1 kilogram = 2.205 pounds  
1 hectoliter = 2.838 bushels

Kilogram/hectare (kg/ha) = bu/A x 67.26 (60# bushel)
Table 1. Locations, cooperators and planting and harvest dates. Nebraska soybean performance tests, 1982.

<table>
<thead>
<tr>
<th>Test</th>
<th>County</th>
<th>Cooperator</th>
<th>Planted</th>
<th>Harvested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast early entries</td>
<td>Dixon</td>
<td>Arden Olson, Concord</td>
<td>June 9</td>
<td>October 18</td>
</tr>
<tr>
<td>Northeast late entries</td>
<td>Dixon</td>
<td>Arden Olson, Concord</td>
<td>June 9</td>
<td>October 17</td>
</tr>
<tr>
<td>East Central early entries</td>
<td>Dodge</td>
<td>Willis Bopp, Hooper</td>
<td>June 11</td>
<td>October 18</td>
</tr>
<tr>
<td>East Central late entries</td>
<td>Dodge</td>
<td>Willis Bopp, Hooper</td>
<td>June 11</td>
<td>October 25</td>
</tr>
<tr>
<td>Mead irrigated</td>
<td>Saunders</td>
<td>Mead Field Laboratory</td>
<td>June 4</td>
<td>November 2</td>
</tr>
<tr>
<td>Mead nonirrigated</td>
<td>Saunders</td>
<td>Mead Field Laboratory</td>
<td>June 4</td>
<td>November 2</td>
</tr>
<tr>
<td>Southeast early entries</td>
<td>Nemaha</td>
<td>Fred Gauchat, Brock</td>
<td>June 7</td>
<td>October 14</td>
</tr>
<tr>
<td>Southeast late entries</td>
<td>Nemaha</td>
<td>Fred Gauchat, Brock</td>
<td>June 7</td>
<td>October 15</td>
</tr>
<tr>
<td>South Central early entries</td>
<td>Clay</td>
<td>South Central Station</td>
<td>June 4</td>
<td>October 6</td>
</tr>
<tr>
<td>South Central early entries</td>
<td>Adams</td>
<td>Don Bruntz, Hastings</td>
<td>June 5</td>
<td>October 18</td>
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<tr>
<td>South Central late entries</td>
<td>Clay</td>
<td>South Central Station</td>
<td>June 4</td>
<td>October 13</td>
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<tr>
<td>South Central late entries</td>
<td>Adams</td>
<td>Don Bruntz, Hastings</td>
<td>June 5</td>
<td>October 21</td>
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<tr>
<td>Southwest irrigated</td>
<td>Perkins</td>
<td>Big Bryon Farms, Grant</td>
<td>June 10</td>
<td>-----</td>
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Table 2. Entrants. Nebraska Soybean Performance Tests. 1982.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Entrant</th>
<th>Address</th>
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<tbody>
<tr>
<td>AgriGold</td>
<td>Agricultural Experimental Station</td>
<td>Lincoln, NE 68583</td>
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<tr>
<td>Agripro</td>
<td>AgriGold Seed Company</td>
<td>Boone, IA 50036</td>
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<tr>
<td>Asgrow</td>
<td>Agripro Division, N.A.P.B.</td>
<td>Ames, IA 50010</td>
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<tr>
<td>Country Brand</td>
<td>Asgrow Seed Company</td>
<td>Kalamazoo, MI 49001</td>
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<tr>
<td>DeSoy</td>
<td>Country Brand Seeds, Inc.</td>
<td>Altoona, IA 50009</td>
</tr>
<tr>
<td>Fontanelle</td>
<td>Dale Ewing</td>
<td>Jewell, IA 50130</td>
</tr>
<tr>
<td>Funk</td>
<td>Fontanelle Hybrids</td>
<td>Nickerson, NE 68044</td>
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<tr>
<td>Gold Tag</td>
<td>Funk Seeds International, Inc.</td>
<td>Bloomington, IL 61701</td>
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<tr>
<td>Golden Harvest</td>
<td>Ferry-Morse Seed Company</td>
<td>Geneseo, IL 61254</td>
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<tr>
<td>Hoegemeyer</td>
<td>Hoegemeyer Hybrids</td>
<td>Waterloo, NE 68069</td>
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<td>Hofler</td>
<td>Hofler Seed Company</td>
<td>Hooper, NE 68031</td>
</tr>
<tr>
<td>Horizon</td>
<td>Horizon Seeds, Inc.</td>
<td>Nora Springs, IA 50458</td>
</tr>
<tr>
<td>Hy-Vigor</td>
<td>Hy-Vigor Seeds, Inc.</td>
<td>Lincoln, NE 68501</td>
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<tr>
<td>Jacques</td>
<td>Jacques Seed Company</td>
<td>Paulina, IA 51046</td>
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<tr>
<td>Jacobsen</td>
<td>Jacobsen Hybrid Corn Company</td>
<td>Prescott, WI 54021</td>
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<tr>
<td>J. M. Schultz</td>
<td>J. M. Schultz Seed Company</td>
<td>Lake View, IA 51450</td>
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<tr>
<td>Kruger</td>
<td>Kruger Seed Company</td>
<td>Dietrich, IL 62424</td>
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<tr>
<td>Land O'Lakes</td>
<td>Land O'Lakes, Inc.</td>
<td>Cedar Falls, IA 50613</td>
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<tr>
<td>Lewis</td>
<td>Lewis Seeds</td>
<td>Webster City, IA 50595</td>
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<td>Lincoln Seed</td>
<td>Lincoln Seed</td>
<td>Ursa, IL 62376</td>
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<td>McCubbin</td>
<td>McCubbin Seed Farm, Inc.</td>
<td>Sioux City, IA 51101</td>
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<tr>
<td>McCurdy</td>
<td>McCurdy Seed Company</td>
<td>Green Mountain, IA 50637</td>
</tr>
<tr>
<td>Merschman</td>
<td>Merschman Seed &amp; Fertilizer, Inc.</td>
<td>Fremont, IA 52561</td>
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<tr>
<td>Midwest Oilseeds</td>
<td>Midwest Oilseeds, Inc.</td>
<td>West Point, IA 52656</td>
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<td>Migro</td>
<td>Migro</td>
<td>Adel, IA 50003</td>
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<td>N.A.P.B.</td>
<td>North American Plant Breeders</td>
<td>Mission, KS 66201</td>
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<tr>
<td>Northrup King</td>
<td>Northrup King Company</td>
<td>Ames, IA 50010</td>
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<td>Pfizer Genetics</td>
<td>Pfizer Genetics</td>
<td>Norfolk, NE 68701</td>
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<td>Pine Grove Farm</td>
<td>Pine Grove Farm</td>
<td>Doniphan, NE 68832</td>
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<td>Pioneer</td>
<td>Pioneer Hybrid International</td>
<td>Marcus, IA 51035</td>
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<td>Prairie Brand</td>
<td>Prairie Brand</td>
<td>Waterloo, IA 50701</td>
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<tr>
<td>ProfiSeed</td>
<td>ProfiSeed, Inc.</td>
<td>Story City, IA 50248</td>
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<td>Ring Around</td>
<td>Ring Around Products, Inc.</td>
<td>Hampton, IA 50441</td>
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<tr>
<td>Riverside</td>
<td>Lynnville Seed Company</td>
<td>Dallas, TX 75234</td>
</tr>
<tr>
<td>S Brand</td>
<td>Schechinger Seed Company</td>
<td>Lynnville, IA 50153</td>
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<tr>
<td>Sands SOI</td>
<td>Sand Seed Service, Inc.</td>
<td>Harlan, IA 51537</td>
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<td>Schettler</td>
<td>Schettler Seeds, Inc.</td>
<td>Marcus, IA 51035</td>
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<td>Stine</td>
<td>Stine Seed Farm, Inc.</td>
<td>Carroll, IA 51401</td>
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<td>Stock Seed Farms, Inc.</td>
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<td>Tri Valley</td>
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<td>WilsonBlend</td>
<td>Wilson Hybrids, Inc.</td>
<td>Omaha, NE 68137</td>
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<td>Younkerman</td>
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<td>Harlan, IA 51537</td>
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<td></td>
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<td>Council Bluffs, IA 51501</td>
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<table>
<thead>
<tr>
<th>Brand</th>
<th>Entries 1/</th>
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</thead>
<tbody>
<tr>
<td>Amcor (P), Amsoy 71 (P), Beeson 80 (P), Century (P), Corsoy 79 (P), Cumberland (P), Elf (P), Hardin (P), Hobbit (P), Lakota (P), Lawrence (P), Mead (P), Nebsoy (P), Oakland (P), Pella (P), Platte (P), Sparks (P), Union (P), Weber (P), Wells II (P), Will (P), Williams 79 (P), Williams 82 (P), Woodworth (P).</td>
<td></td>
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<tr>
<td>AgriGold</td>
<td>AG-Royal (P), AG-0077 (P), AG-2505 (B1), AG-2510 (P), AG-3605 (B1).</td>
</tr>
<tr>
<td>Agripro</td>
<td>AP200 (P), AP230 (P), AP240 (P), 25 (P), AP250 (P), AP350 (P).</td>
</tr>
<tr>
<td>Asgrow</td>
<td>A2575 (P), A2680 (P), A2858 (P), A3127 (P), A3659 (P), A3860 (P), A4268 (P).</td>
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<tr>
<td>Country Brand</td>
<td>Santana (P), Sunrise II (B1).</td>
</tr>
<tr>
<td>DeSoy</td>
<td>307 (B1), 750A (B1), 777A (B1), 875 (B1).</td>
</tr>
<tr>
<td>Fontanelle</td>
<td>4545 (P), 4747 (P), 5454 (P), 5656 (P), 6161 (P), 6262 (P), 63X (P), 6464 (P).</td>
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<tr>
<td>Funk</td>
<td>G-3340 (P), 12172 (P).</td>
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<tr>
<td>Golden Harvest</td>
<td>H1275, H1285, H1320, H1420, H1483.</td>
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<tr>
<td>Gold Tag</td>
<td>GT 1310, GT 1380.</td>
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<td>Hoegemeyer</td>
<td>200 (P), 205 (P), 350 (P), 384 (P), 402 (P).</td>
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<tr>
<td>Hofler</td>
<td>GEM (P).</td>
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<tr>
<td>Horizon</td>
<td>42 (B1), 52 (B1).</td>
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<tr>
<td>Hy-Vigor</td>
<td>Hylander (P), P1010 (P), P110 (P), Shield (P), 606 (B1), 901 (B1), 905-10 (B1), 907-10 (B1), 909 (B1), P-3350 (P).</td>
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<tr>
<td>Jacques</td>
<td>J-103 (P), J-112 (P), J-125 (P), 114 (B1).</td>
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<td>Jacobsen</td>
<td>Big Red (B1), Cyclone (B1), 822 (P), 823 (P).</td>
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<tr>
<td>Jim Schultz</td>
<td>JMS 3482 (P).</td>
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<tr>
<td>Kruger</td>
<td>KB252 (B1), KB254 (B1), KB365 (B1), K30358 (P), K3999 (P).</td>
</tr>
<tr>
<td>Land O'Lakes</td>
<td>L4104 (P), L4106 (P), L4204 (P), L4207 (P), L4303 (P).</td>
</tr>
<tr>
<td>Lewis</td>
<td>23 (P), 32A (B1), 37 (P), 43 (P).</td>
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<tr>
<td>Lincoln Seed</td>
<td>LS 7110, LS 7225 (P), LS 7340 (P).</td>
</tr>
<tr>
<td>McCubbin</td>
<td>Carson (P), EX 2240 (P), EX 2250 (P), EX 2270 (B1), EX 4290 (P), Leo II (P), Shiloh (P), Trey II (P), 1X 124 (P).</td>
</tr>
<tr>
<td>McCurdy</td>
<td>ML 3 (B1), 101+ (B1), 102+ (B1), 109+ (B1), 204+ (B1), 308+ (B1), 375B (B1), 500A (B1).</td>
</tr>
<tr>
<td>Merschmán</td>
<td>Cheyenne II (P), Cleveland (P), Comanche, (P), Dallas, Kennedy (P), Navaho III (P), Richmond (P), Shawnee II (P), Truman II (P), Washington V (P).</td>
</tr>
<tr>
<td>Midwest Oilseeds</td>
<td>3350 (P).</td>
</tr>
<tr>
<td>Migro</td>
<td>HP 3033 (P), HP 20-20 (P), HP 2530 (P), HP 3700 (P), 4800 (P).</td>
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<td>N.A.P.B.</td>
<td>EX 3016 (P), EX 68225-32 (P), EX 68225-40 (P).</td>
</tr>
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<td>Northrup King</td>
<td>MV 24-59 (B1), MV 32-67 (B1), MV 39-19 (B1), MV 80 (B1), S 1492 (P), S 2596 (P), S 4044 (P).</td>
</tr>
<tr>
<td>Pfizer Genetics</td>
<td>CX 290 (P), CX 321 (P), CX 380 (P), EG 312 (P).</td>
</tr>
<tr>
<td>Pine Grove Farm</td>
<td>B-231 (B1), P-2240 (P), P-2260 (P), P-2330 (P), P-2400 (P), P-3310 (P).</td>
</tr>
<tr>
<td>Pioneer</td>
<td>Variety 3481 (P), Variety 3580 (P), Variety 3981 (P), Variety 4280 (P).</td>
</tr>
<tr>
<td>Prairie Brand</td>
<td>PB-320 (P), Zenith (P).</td>
</tr>
<tr>
<td>ProfiSeed</td>
<td>Trisoy 81 (B1), 1138 (P), 1280 (P), 1350 (P), 322 (P).</td>
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Table 3. CONCLUDED.

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1/ Letters in ( ) indicate: (P) pure line; (B1) blend. These are not part of variety name.

PERFORMANCE

Entries are listed in tables in order of increasing maturity from earliest to latest. Maturity was later in 1982 than in 1981. For entries common in both years, maturity was 3 days later in Northeast, 10 days in East Central and 12 days in Southeast. Early varieties were more delayed than later ones.

Performance of entries cannot be measured with absolute accuracy because of variations in moisture, soil fertility and other factors. For this reason small yield differences have little significance. Differences required for significance are shown in each table at the 5% and 25% levels. This means that differences this great would be expected through chance alone in 1 of 20 or 1 of 4 trials, respectively.

Many soybean varieties have similar yield potentials. Early-maturing varieties are favored in some seasons and later-maturing varieties in others. Period-of-years averages provide a measure of performance over a range of environmental conditions.

This was the second year that privately developed entries were included in these trials. Period-of-years data for varieties included for two-, three-, four-, and five-years are reported.
Northeast

The 1982 data for Dixon County are shown in Tables 4 and 6, respectively. Stands were good. Moisture from mid-July through August was marginal. Frost on September 19 stopped growth. There was little correlation between maturity and yield in the early test. In the late test, later maturity was correlated with lower yields. Period-of-years data from this area are included in Tables 5 and 7.

East Central

Data from Dodge County are shown in Tables 8 and 10. Heavy rains packed soil and delayed emergence. Final stands were excellent. Seasonal conditions were favorable and an average yield of 55.1 bushels per acre was produced. In the early test, later maturity was correlated with higher yields. In the late test, later maturity was correlated with lower yields. Period-of-years data for Dodge County are shown in Tables 9 and 11.

Mead

The Soybean Breeding Project conducts numerous studies at the Mead Field Laboratory. These include evaluation of experimental and released strains as well as various cultural practices.

Irrigated and nonirrigated variety test data for 1982 are shown in Tables 12 and 13, respectively. All entries were Experiment Station releases. The irrigated trial was irrigated only once on August 5, but because of abnormally high rainfalls, there was little yield increase. Three-year data for these trials in 1980 and 1981 were watered once on July 31 and July 30, respectively. Three-year performance of varieties at Mead is shown in Tables 14 and 15.

Southeast

These trials in Nemaha County were on the same field as the 1981 tests. Emergence was good, growing conditions were generally favorable and good yields were produced (Tables 16 and 19). There was no correlation between maturity and yield in either trial. Period-of-years data for this area are shown in Tables 17, 18 and 20.

South Central Irrigated

Early and late trials were planted at two locations. Data from early entries in Clay County are shown in Table 21. Mechanical problems at planting in Adams County resulted in poor stands in many plots. Stands were counted and only those plots with over 60,000 plants per acre were included in final yield data (Table 22). Only 15 of the 37 varieties met this criteria. Only Clay County data were not included in period-of-years averages (Table 23).

Combined late entry data for Clay and Adams Counties are included in Table 24 and individual location data are shown in Tables 25 and 26, respectively. There was no correlation between maturity and yield. Period-of-years data for late entries are included in Table 27.

Southwest Irrigated

This trial was under sprinkler irrigation near Grant (Table 28). The small seed size indicates stress during the seed development period. Four-year yield data from this area are shown in Table 29.
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Yield in bushels per acre and % of average of Amsoy 71, Century and Weber. The % yield should be used to make comparisons with entries in the late test in this area.

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% yield based on average of Amsoy 71, Century and Weber.
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% yield based on average of Century, Mead and Woodworth.

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1/ Average number of seeds/plant calculated from seed yield, 100-seed weight, and average number of plants/acre.
2/ Based upon plant counts taken after complete emergence. Actual viable seeding rates were 150,000 seeds/acre (8.6 seeds/ft.) for indeterminate varieties and 225,000 seeds/acre (12.9 seeds/ft.) for determinate varieties (Gnome, Hobbit, and Elf).

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1/ Average number of seeds/plant calculated from seed yield, 100-seed weight, and average number of plants/acre.

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AVERAGE ALL ENTRIES

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% yield based on average of Pella, Williams 79 and Woodworth.
Maturity data for 1981-1982 only.

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AVERAGE ALL ENTRIES: 48.3, 10-6, 1.9, 38.2

Yield in bushels per acre and % of average of Pella, Williams 79 and Woodworth. The % yield should be used to make comparisons with the early entries in this area.

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% yield based on average of Pella, Williams 79 and Woodworth. Maturity data for 1981-1982 only.
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Yield in bushels per acre and % of average of Century, Mead and Woodworth. The % yield should be used to make comparisons with the late test in Clay County.

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% yield based on average of Century, Mead and Woodworth.
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Yield in bushels per acre and % of average of Century, Mead and Woodworth.
## TABLE 25. SOUTH CENTRAL IRRIGATED SOYBEAN PERFORMANCE. CLAY COUNTY.

Late Entries. 1982.

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Yield in bushels per acre and % of average of Century, Mead and Woodworth. The % should be used to make comparisons with entries in the early test in Clay County.
## TABLE 26. SOUTH CENTRAL IRRIGATED SOYBEAN PERFORMANCE. ADAMS COUNTY.
Late Entries, 1982.

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Yield in bushels per acre and % of average of Century, Mead and Woodworth.
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% yield based on average of Century, Mead and Woodworth.

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Agricultural Research for All of Nebraska

The agricultural research division of the Institute of Agriculture and Natural Resources is the Nebraska Agricultural Experiment Station. The Experiment Station relies on its research centers and field laboratories to provide applied knowledge for development of Nebraska's largest industry—agriculture. In addition, many Nebraska farmers cooperate by furnishing land and other facilities for research projects. This provides information from areas not well represented by stations.

The Cooperative Extension Service transmits data to users through District and County Extension Offices. Area and County Extension Agents are available to provide additional interpretation and more specific recommendations.

Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from 14 to 40 inches per year, and the soil types vary from sands to heavy clays. The research program thus is broad in subject matter and geography, resulting in the need for various stations and satellite locations.

The Cooperative Extension Service provides information and educational programs to all people without regard to race, color, national origin, sex or handicap.