The 1979 Iowa Corn Yield Test Report, District 4

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The 1979 Iowa Corn Yield Test Report, District 4

Abstract
Results of the Iowa Corn Yield Test are published to sixtieth consecutive year for the test.

Disciplines
Agriculture | Agronomy and Crop Sciences
The data presented are averages of two locations in 1977, one location in 1978, and two locations in 1979. Yield in bushels per acre and percentage of moisture, root lodging, stalk lodging, dropped ears, and stand are shown for all entries tested in 1979 and for those tested in 1977 and 1978 that were in the 1979 test.

Interpretation of Results

Yield differences due to variation in soil, fertility, moisture availability, insect infestation, and diseases, plus any variation due to planting and harvesting techniques, are identified through statistical analysis. The LSD values shown in tables 1 and 2 represent, in bushels per acre, the amounts of yield variation that could be due to variations in the factors just mentioned. In comparing varieties, yield differences greater than the LSD value can be attributed to genetic differences in the yield potential of these varieties; yield differences less than the LSD value are not statistically different and could have been due to other factors.

Grain moisture shown in tables 1 and 2 are indicators of maturity and natural drying rate. Maturity of varieties entered generally ranged from early to full season. Yield comparisons should be made among varieties of similar maturity.

It is important to select varieties having stable performance over a range of environmental conditions. High yields for two or more consecutive years indicate stable performance. Supplemental yield and agronomic information about specific varieties may be obtained from your seed corn dealers and from neighbors who have grown these varieties.
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<td>1.25</td>
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<td>1.27</td>
<td>1.28</td>
<td>1.29</td>
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**TABLE 1: AVERAGE PERFORMANCE OF VARIETIES PLANTED IN DISTRICT 1.**

*Note: Moderate population - 27,100 planting rate. LSD for 1987 yield is 19.95 in District 1.*

*Boldly grown variety entered by Iowa State University.*
1979 Field Data

The District 4 test was conducted on farms operated by Charles Pike near Whiting in Monona County and by Gerald Thiedeman near Westside in Crawford County. The field data are presented in table A.

Subsoil moisture for the district was favorable at planting time. Rainfall was well below normal in May and July and below normal in June, August, and September. Temperatures were below normal in May, July, and August, normal in June, and above normal in September. Yields were above normal in the district.

**Table A. Field Data**

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<th>Fertilizer applied, lbs</th>
<th>N</th>
<th>P2O5</th>
<th>K2O</th>
<th>N</th>
<th>P2O5</th>
<th>K2O</th>
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<tbody>
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<td>40</td>
<td>20</td>
<td>10</td>
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<td>20</td>
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<tr>
<td>Plowdown</td>
<td></td>
<td></td>
<td></td>
<td>164</td>
<td>74</td>
<td>32</td>
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<td>Preplant</td>
<td>120</td>
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<td></td>
<td>164</td>
<td>74</td>
<td>32</td>
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<tr>
<td>TOTAL</td>
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<td>40</td>
<td>20</td>
<td>164</td>
<td>74</td>
<td>32</td>
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<tr>
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<td>Soybeans</td>
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<td>30</td>
<td></td>
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<tr>
<td>Planting date</td>
<td>May 14</td>
<td></td>
<td></td>
<td>May 16</td>
<td></td>
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<tr>
<td>Harvest date</td>
<td>Nov. 15</td>
<td></td>
<td></td>
<td>Oct. 17</td>
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</table>

**District 4 Designations Identifying Brands in the Yield Test**

*ACCO* ACCO Seed Div. of Anderson, Clayton & Co., Belmond, Iowa 50421

*Agriseed* Agriseed Inc., Ames, Ia. 50010

*Ames Best* Ames Best Hybrids, Ames, Ia. 50010

*Asgrow* Asgrow Seed Company, Des Moines, Ia. 50305

*Blaney* Blaney Farms Inc., Madison, Wis. 53711

*Cargill* Cargill Inc., Minneapolis, Minn. 55440

*Coop* Farmland Industries, Inc., Kansas City, Mo. 64116

*Corn King* Malcom H. Grieve, Pella, Ia. 50169

*Crow's* Crow's Hybrid Corn Co., Milford, Ia. 50671

*Curry* Curry Seed Co., Elk Point, S.D. 57025

*DeKalb* DeKalb Ag. Research Inc., DeKalb, Ill. 60115

*Embro* Remy Seed Company, Mankato, Minn. 56001

*Federal* Federal Hybrids, Marion, la. 52302

*Fontanelle* Fontanelle Hybrids, Nickerson, Neb. 68044

*FS* F.S. Services, Inc., Bloomington, Ill. 61701

*Funk* Funk Seeds International, Inc., Bloomington, Ill. 61701

*Golden Harvest* The J. C. Robinson Seed Company, Waterloo, Ia. 50701

*Gold Tag* Ferry-Morse Seed Co., Geneseo, Ill. 61254

*Hoegemeyer* Hoegemeyer Hybrids, Inc., Hooper, Neb. 68031

*Horizon* Miller Seed Co., Lincoln, Neb. 68501

*Iowa State* Iowa State Hybrid Corn Co., Elkhart, Ia. 50073

*Jacobsen* Jacobsen Hybrids Inc., Coral, Ia. 52556

*Kaltenberg* Kaltenberg Seed Farms, Waunakee, Wis. 53597

*Kraft's* Kraft's Hybrid Corn Co., Bloomington, Ill. 61701

*Migro* North American Plant Breeders, Ames, Ia. 50010

*NC* NC + Hybrids, Lincoln, Neb. 68504

*Northrup King* Northrup King Co., Minneapolis, Minn. 55440

*O's Gold* O's Gold Seed Co., Picketberg, Ia. 50665

*PAG* PAG Seeds, Minneapolis, Minn. 55440

*Pfister* Pfister Hybrid Corn Co., El Paso, Ill. 61738

*Pioneer* Pioneer Hi-Bred International, Inc., Des Moines, Ia. 50308

*Prairie Valley* Prairie Valley, Inc., Phillips, Neb. 68046

*Pride* Pride Company Inc., Glen Haven, Wis. 53810

*SAR* SAR Hybrids, Inc., Charles City, la. 50616

*Super Crop* Edward J. Funk & Sons, Inc., Kentland, Ind. 47951

*Tall Corn* Tall Corn Hybrids, Inc., Grinnell, la. 50112

*Trojan* Trojan Hybrids Inc., Ames, Ia. 50010

*Vike* Vike Hybrids, Ames, Ia. 50010

*Wilson* Wilson Hybrids Inc., Harlan, la. 51537

*Winterset* Winterset Hybrid Company, Winterset, la. 50273

**OTHER REPORTS**

Separate reports for variety performance are available for each district shown in fig. 1. These publications are available at your county extension office or from Publications Distribution, Printing and Publications Building, Iowa State University, Ames, Ia. 50011.

The 1979 Iowa Corn Yield Test Report:

- Pm-660-1-79 District 1
- Pm-660-1-79 District 2
- Pm-660-1-79 District 3
- Pm-660-1-79 District 4

- and justice for all

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