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The 1982 Iowa Corn Yield Test Report, District 5

K. E. Ziegler
Iowa State University

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Iowa State University

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The 1982 Iowa Corn Yield Test Report, District 5

Abstract
Results of the Iowa Com Yield Test are published to aid Iowa farmers in selecting com varieties. This is the sixty-third consecutive year for the test.

Disciplines
Agriculture | Agronomy and Crop Sciences
THE 1982 IOWA CORN YIELD TEST REPORT

District 5

Results of the Iowa Corn Yield Test are published to aid Iowa farmers in selecting corn varieties. This is the sixty-third consecutive year for the test.

The presentation of data for the varieties tested does not imply approval or endorsement by the authors or by the agencies sponsoring or conducting the test. Entries in tables 1, 2, and 3 are designated by brand name and variety.

1982 Procedure

Producers of corn seed and Iowa State University were eligible to enter varieties in the Iowa Corn Yield Test. Each producer was allowed a maximum of six entries per district. All entries had to be available in a quantity of at least 10 bushels of seed.

Two hundred forty-one entries were evaluated in this district—one hundred twenty-one in the early to medium test and one hundred twenty in the medium to late test. Fifteen of the entries were determined to be widely grown, were entered by Iowa State University, and were planted in both the early and the late test. A widely grown entry was planted on 0.81 percent or more of the corn acreage in the district according to a 1980 survey of Iowa corn growers. Iowa State University entered a maximum of three widely grown varieties of any given brand. These entries were given priority over the remaining 211 entries made by seed producers.

Each entry was replicated four times in four-row plots at a planting rate of 27,500 kernels per acre at each location. All locations were machine-planted. The center two rows of each plot were harvested with a corn combine. No gleanings or dropped ears were included in yield data. A moisture determination was made from each plot, and yields were corrected to 15.5-percent moisture for shelled corn.

How Information Is Presented

The data presented are averages of two locations in 1980 and three locations in 1981 and 1982. Yield in bushels per acre and percentage of moisture, root lodging, stalk lodging, dropped ears, and stand are shown for all entries tested in 1982 and for those tested in 1980 and 1981 that were in the 1982 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, 2, and 3 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 moistures shown in tables 1, 2, and 3 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 in the same test.

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.

1982 Field Data

The District 5 test was conducted on farms operated by Don Gardner near Ogden in Boone County, Eugene Lang Farm Corp. near Grinnell in Poweshiek County, and Dick Elijah near Clarence in Cedar County. The field data are presented in table A.

Subsoil moisture for the district was favorable at planting time. Rainfall was well above normal in May and July, well below normal in June, near normal in September, and in August the Cedar County location received well above normal rainfall while the other two locations received below normal rainfall. Temperatures were above normal in May, well below normal in June, and near normal in July, August, and September. The average district yield was 10 bushels per acre above the mean of the five preceding years' averages.

Prepared by K. E. Ziegler, instructor in agronomy, and A. R. Campbell, associate professor of agronomy and secretary of the Iowa Crop Improvement Association.
### Table 1: Average Performance of Varieties Tested in District 8: Early to Medium Test

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### Table 2: Average Performance of Varieties Tested in District 8: Medium to Late Test

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TABLE 3. AVERAGES OF 1981-82 AND 1982-83 OF VARIETIES TESTED IN DISTRICT 5. LENS FOR YIELDS ARE 8 BUSHEL.
Table A. Field Data

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<th>Fertilizer applied, lbs.</th>
<th>Gardner Farm Clarion loam</th>
<th>Lang Farm Mahaska silty clay loam</th>
<th>Elijah Farm Tama silty clay loam</th>
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<td>27</td>
<td>70</td>
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<td>187</td>
<td>70</td>
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1981 crop: Soybeans Row width: 30 inches Planting date: April 29 Harvest date: Oct. 14 & 15

District 5

Designations Identifying Brands in the Yield Test

- Americana Seeds, Bowen, Ill. 62316
- Amex Best, Ames, la. 50010
- Asgrow Seed Company, Kalamazoo, Mich. 49001
- *Cargill, Inc., Minneapolis, Minn. 55440
- CFS, Custom Farm Seed, Monmouth, Ill. 60954
- Cornelius, Cornelius Seed Corn Co., Bellevue, Ia. 52031
- *Crows, Crew's Hybrid Corn Company, Milford, Ia. 60953
- Cyclone, Elm Grove Farms, Inc., Winfield, Ia. 52659
- Dairyland, Dairyland Seed Co., West Bend, Wis. 53095
- *DeKalb, DeKalb AgResearch Inc., DeKalb, Ill. 60115
- Federal, Federal Hybrids, Marion, Ia. 52302
- Fontanelle, Fontanelle Hybrids, Nickerson, Neb. 68044
- *FS, Growmark, Inc., Bloomington, Ill. 61701
- Funk, Funk Seeds International, Inc., Bloomington, Ill. 61701
- Gold Tag, Ferry-Morse Seed Co., Geneseo, Ill. 61254
- Golden Harvest, The J. C. Robinson Seed Company, Waterloo, Neb. 68069
- Great Lakes, Great Lakes Hybrids, Inc., Ovid, Mich. 48866
- Hawkeye Hybrid, Hawkeye Hybrids, Pella, la. 50219
- Hickory Grove, Jay Ranor Hoffman, Aurora, la. 50602
- Horizon, Horizon Seeds, Inc., Lincoln, Neb. 68501
- Iowa State, Ralph Mathis, Elkhart, Ia. 50073
- Jacques, Jacques Seed Company, Prescott, Wis. 54021
- Kaltenberg, Kaltenberg Seed Farms, Waunakee, Wis. 53597
- Kruger, Kruger Seed Company, Cedar Falls, Ia. 50613
- Lewis, Frank W. Lewis & Son Seed Farms, Inc., Ursa, Ill. 62376
- Lyks, Lyks Hybrids, Marshalltown, Ia. 50158
- Martinson, Gordon Martinson Seed Farm, Harcourt, Ia. 50044
- *McAllister, McAllister Seed Farms, Mt. Pleasant, Ia. 52641
- McCurdy, McCurdy Seed Co., Fremont, Ia. 52561
- Middlekoop, Middlekoop Seed Corn Co., Packwood, Ia. 52580
- 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., Pekersburg, Ia. 50655
- *PAG, PAG Seeds, Minneapolis, Minn. 55440

Payco, Payco Seeds, Inc., Dassel, Minn. 55325
Paymaster, Paymaster Seeds, Belmond, Ia. 50421
Pfister, Pfister Hybrid Corn Co., El Paso, I1. 61738
Pioneer, Pioneer Hi-Bred International, Inc., Des Moines, Ia. 50308
Pride, Pride Company, Inc., Glen Haven, Wis. 53810
Renze, Renze Hybrids, Inc., Carroll, Ia. 51401
Riverside, Lynnville Seed Company, Lynnville, Ia. 50153
RO, Ottlie Seed Farms, Marshalltown, Ia. 50158
Sar, Sar Hybrids, Inc., Charles City, Ia. 50616
Schechinger, Schechinger Seed Co., Harlan, Ia. 51537
Sieben, Sieben Hybrids, Inc., Geneseo, I1. 61254
*Stauffer, Stauffer Seeds, Springfield, Ill. 62704
Super Cross, Edward J. Funk & Sons, Inc., Kentland, Ind. 47951
Tall Corn, Tall Corn Hybrids, Inc., Grinnell, Ia. 50112
TJoran, DeKalb-Pfizer Genetics, DeKalb, Ill. 60115
USI, USS Agri Chemicals, Atlanta, Ga. 30301
Wilson, Wilson Hybrids, Inc., Harlan, Ia. 51537
Wyffels, Wyffels Hybrids, Inc., Atkinson, Ill. 61254
YW Hybrids, YW Hybrids, Grand Junction, Ia. 50107

*Companies with one or more widely grown entries made by Iowa State University.

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, Iowa 50011.

The 1982 Iowa Corn Yield Test Report:

- Pm-660-1-82 District 1
- Pm-660-2-82 District 2
- Pm-660-3-82 District 3
- Pm-660-4-82 District 4
- Pm-660-5-82 District 5
- Pm-660-6-82 District 6
- Pm-660-7-82 District 7