PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 2011

TEST PROGRAM

Selection of entries. Each year, producers of corn hybrids in Illinois and surrounding states are invited to enter hybrids in the Illinois performance trials. Financing is provided thru entry fees. Entrants are required to enter their corn hybrids regionally at a fee of $270 for each corn hybrid entered in a region or $90 per hybrid for the corn following corn tests. Most of these hybrids are commercially available, although a few experimental hybrids are also entered.

Number and location of tests. In 2011, hybrid corn entrants were required to enter hybrid(s) in at least one of 4 regions each consisting of 3 locations with a total of 12 locations in the state (see map). These sites represent the major soil and climatic areas of the state.

Hybrids. There were 263 corn hybrids from 31 companies tested in 2011.

Field-plot design. Three replications of an alpha lattice design or randomized complete block were used to give each corn hybrid an equal chance to show its merits.

Planting methods. All trials were planted by a modern four row planter modified for small plot work. A soil insecticide (Force) was applied in furrow at planting for all corn trials. Corn plots were planted to stand and later counted to confirm population. Each plot was four rows wide and 23 feet long. The center two rows of each plot were harvested to determine yields.

Fertilization. All test fields were at a high level of fertility. Additional fertilizer was plowed down or side dressed as needed to ensure top yields.

Method of harvest. All corn plots were harvested with a custom-built, self-propelled, corn plot combine. Grain collected from each plot was weighed, and tested for moisture content. An electronic moisture monitor was used in the combine for all moisture readings. No allowance was made for grain that might have been lost in harvest.

PERFORMANCE DATA

Grain yield. Grain weight and moisture was converted to bushels per acre of No. 2 shelled corn (15.5 percent moisture).

Moisture content. Occasionally, hybrids too late in maturity for a given area are entered in these tests. These hybrids are often high in yield, but their moisture content may make them poor choices for farm use unless proper drying or storage facilities are available.

Erect plants. The number of erect plants in each plot of a hybrid was determined at harvest time. Any plant leaning at an angle of more than 45 degrees or broken below the ear was considered lodged. Plants broken above the ear were considered erect.

Population. Corn plots were planted to population and later counted to confirm population. Stand differences may be caused by failure to germinate or by damage from diseases, insects, cultivation, or rodents.

SUGGESTIONS FOR COMPARING HYBRIDS

It is impossible to measure performance exactly in any test of plant material. Harvesting efficiency may vary, soils may not be uniform, and many other conditions may produce variability. Results of repeated tests, like those reported here, are more reliable than those of a single-year or a single-strip test. When one hybrid consistently out yields another at several test locations and over several years of testing, the chances are good that this difference is real and should be a consideration in choosing a hybrid. When comparing yields, however, grain moisture content, percentage of erect plants, and plant population must also be considered.

A number of statistical tests are available for comparing hybrids within a single trial. One of these tests, the least significant difference (L.S.D.), when used in the manner suggested by Carmer and Swanson is quite simple to apply and is more appropriate than most other tests. When two hybrids are compared and the difference between them is greater than the tabulated L.S.D. value, the hybrids are judged "significantly different."

The L.S.D. is a number expressed in bushels per acre and presented following the average yield for each location. An L.S.D. level of 25% is shown. Find the highest yielding hybrid within the regional table or single location table of interest, subtract the 25% L.S.D. value from the highest yielding hybrid, every hybrid with a greater yield than the resulting number is 'statistically the same' as the highest yielding hybrid. Consider the merits of the hybrids in this group when making hybrid selections.

In a study of the frequencies of occurrence of three types of statistical errors and their relative seriousness, Carmer found strong arguments for an optimal significance level in the range $\alpha = 0.20$ to 0.40, where $\alpha$ is the Type I statistical error rate for comparisons between means that are really equal. Herein, a value of $\alpha = 0.25$ is used in computing the L.S.D. 25-percent level shown in the tables.

To make the best use of the information presented in this circular and to avoid any misunderstanding or misrepresentation of it, the reader should consider an additional caution about comparing hybrids. Readers who compare hybrids in different trials should be extremely careful, because no statistical tests are presented for that purpose. Readers should note that the difference between a single hybrid's performance at one location and its performance at another is caused primarily by environmental effects and random variability. Furthermore, the difference between the performance of hybrid A in one trial and that of hybrid B in another is the result not only of environmental effects and random variability, but of genetic effects as well.


2011 TEST FIELDS

Mt. Morris
Location: Nelson farm, Ogle county, north of Mt. Morris, north central Illinois.
Cooperator: Rick Nelson.
Soil type: Muscatine silt loam.
Planting date: April 4th.
Harvest date: October 15th.
Nitrogen: 204lbs., 179 lbs. as 32% (spring), 25lbs. as dry (fall).
Herbicides: PRE- Bicep II Magnum.
Fungicide: Headline.
Tillage: Spring- field cultivation.

DeKalb
Cooperators: Lyle Paul; research director, David Lindgren; farm foreman.
Soil Type: Flanagan silt loam.
Planting date: May 8th.
Harvest date: October 18th.
Nitrogen (Conv): 180 lbs. as 32% pre.
Nitrogen (CFC): 220 lbs. as 28% sidedress.
Herbicides: (both) PRE- Bicep II Magnum.
Tillage: (Conv) Spring- mulch finish, (CFC) Fall- chisel plow; Spring- mulch finish.

Erie
Location: Slaymaker farm, Whiteside county, west of Rock Falls, northwestern Illinois.
Soil Type: Beaucoup silt loam.
Cooperator: Robert Slaymaker.
Planting date: May 3rd.
Harvest date: October 1st.
Nitrogen: 193 lbs. as 28%, 130 lbs. (spring), 63 lbs. sidedress.
Herbicides: PPI- Lumax.
Tillage: Fall- chisel; Spring- field cultivate.

Monmouth
Location: University of Illinois, Northwestern Illinois Agricultural Research and Demonstration Center, Warren county, northwest of Monmouth.
Cooperators: Eric Adee; research director, Martin Johnson; farm foreman.
Soil type: Sable silt loam.
Planting date: May 2nd (conv), May 3rd (CFC).
Harvest date: September 30th.
Nitrogen (Conv): 180 lbs. as 28%.
Nitrogen (CFC): 220 lbs. as 28%.
Herbicides: PPI- Harness Extra. (Conv), Bicep (CFC).
Post- Callisto, Resource, Atrazine.
Tillage: (CFC) Fall- chisel plow; Spring- field cultivate.
Tillage: (Conv) Fall- subsoil; Spring- field cultivate.

New Berlin
Location: Bennett Farm, Sangamon county, north of New Berlin, central Illinois.
Cooperators: Leahy Bennett.
Soil type: Sable silt loam.
Planting date: May 5th.
Harvest date: September 14th.
Nitrogen: 245 lbs. 185 lbs as NH3 (fall), 60 lbs as 28% (spring).
Herbicides: PPI- Parallel-Plus.
Fungicide: Headline.
Tillage: Fall- V rip; Spring- vertical finisher.

Perry
Location: University of Illinois, Orr Agricultural Research and Demonstration Center, Pike county, west of Perry, west-central Illinois.
Cooperator: Mike Vose; farm foreman.
Soil type: Herrick silt loam.
Planting date: May 4th.
Harvest date: September 25th.
Nitrogen: 200 lbs., 140 lbs. as NH3, 60 lbs. as spring 28%.
Herbicides: Pre- Lumax.
Tillage: Spring- field cultivate.

Dwight
Location: Hoffman farm, Grundy county, north of Dwight, northeastern Illinois.
Cooperator: Allen Hoffman.
Soil type: Reddick silt loam.
Planting date: May 5th.
Harvest date: October 11th.
Nitrogen: 217 lbs., 175 lbs. as fall NH3, 42 lbs. as dry (fall).
Herbicides: PPI- Lumax.
Tillage: Strip Till (fall).

Goodfield
Location: Wurmnest farm, Woodford county, north of Goodfield, central Illinois.
Cooperator: Mike Wurmnest.
Soil Type: Ipava silt loam.
Planting date: May 6th.
Harvest date: September 29th.
Nitrogen: 220 lbs., 160 lbs. 28% (spring), 60 lbs. dry (fall).
Herbicide: Pre- Lumax, Atrazine.
Fungicide: Headline.
Tillage: Strip till (fall), Fall-deep rip.

Urbana
Location: University of Illinois, Crop Sciences Research and Education Center, Champaign county, Urbana, east-central Illinois.
Cooperators: Robert Dunker; superintendent. Jeff Warren; farm foreman.
Soil type: Flanagan silt loam.
Planting date: May 9th conv. May 17th CFC.
Harvest date: October 7th conv. October 10th CFC.
Nitrogen: (Conv) - 200 lbs. as 28% PPI: Nitrogen: (CFC)- 220 lbs. as 28% PPI
Herbicides: PPI- Lumax, Aatrex.
Tillage: Spring- soil finisher, Fall- deep rip.

St. Peter
Location: Magnus Farm, Fayette county, west of St. Peter, south-central Illinois.
Cooperators: Torrey Magnus.
Soil type: Bluford silt loam.
Planting date: May 18th.
Harvest date: September 28th.
Nitrogen: 191 lbs., 164lbs. as NH3, 27lbs. as dry.
Herbicide: PRE- Lumax.
Tillage: Spring- disk-crumbler.
Belleville
Location: Southern Illinois University Research Center, east of Belleville, St. Clair county.
Cooperators: Ron Krausz; field manager.
Soil type: Ebbert silt loam.
Planting date: May 19th.
Harvest date: September 27th.
Herbicides: PPI- Lumax, Atrex.
Nitrogen: 150 lbs.
Tillage: Fall-chisel, Spring- disk, field cultivate, cultimulcher.

Elkville
Location: Funk farm, Jackson county, Elkville, north of Carbondale, southern Illinois.
Cooperators: John and Trent Funk.
Soil Type: Okaw silt loam.
Planting date: May 18th.
Harvest date: September 13th.
Nitrogen: 221 lbs., 185 lbs. as NH3, 36 lbs. as DAP.
Herbicides: PRE- Lexar, Aatrex.
Tillage: Fall- Chisel, Spring- field cultivator, mulch finisher.

GROWING SEASON RAINFALL

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SOURCES OF SEED

Beck, Beck's Superior Hybrids, 6767 E. 276th St., Atlanta, IN 46031 (800-937-2325)
Bo-jac, No Longer in Business.
Burrus, Burrus Seed, 826 Arenzville Road, Arenzville, IL 62611 (217-997-5511)
Channel, Channel Bio. Corp., P.O. Box 157, Kentland, IN 47951 (219-474-6957)
Cornelius, Cornelius Seed, 14760 317th Av., Bellevue, IA 52031 (800-218-1862)
Dairyland, Dairyland Seed, P.O. Box 958, West Bend, WI 53095 (800-236-0163)
DeKalb, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167 (800-768-6387)
Doebler’s, Doebler’s, 202 Tidagathon Avenue, Jersey Shore, PA 17740 (570-753-2210)
Dyna-Gro, Dyna-Gro Seed, #1 Briscoe Dr., Flora, IL 62839 (618-662-4918)
FS Seed, Growmark Inc., 1701 Towanda Ave., Bloomington, IL 61701 (309-557-6234)
Gateway, Gateway Seed Company, 5517 Van Buren Rd. Nashville, IL 62263 (618-327-8000)
Hubner, Hubner Seed, 10280 West SR 28, West Lebanon, IN 47991 (765-893-4428)
Hughes, Hughes Hybrids, 206 N. Hughes Road, Woodstock, IL 60098 (815-338-1141)
Kruger, Kruger Seed, P.O. Box A, Dike, IA 50624 (319-989-2414)
Lewis, Lewis Hybrids, 530 West Maple Avenue, Ursa, IL 62376 (217-964-2411)
Munson, Munson Hybrids, 1262 Knox Road 100 East, Galesburg, IL 61402 (888-813-7333)
Mycogen, Mycogen Seeds, 9330 Zionsville Rd, Indianapolis, IN 46268 (1-800-MYCOGEN)
OMG, Original Maize Genetics, 603 N. McKinstry Road, Woodstock, IL 60098 (815-338-5230)
Pioneer, Pioneer Hi-Bred International, Inc., 421 Detroit Dr., Bloomington, IL 61704 (309-821-9940)
Prairie Hybrids, Prairie Hybrids, 27445 Hurd Rd., Deer Grove, IL 61243 (815-438-7815)
Power Plus, Burrus Hybrids, 826 Arenzville Rd., Arenzville, IL 62611 (217-997-5511)
Renk, Renk Seed Co., 6809 Wilburn Rd., Sun Prairie, WI 53590 (800-289-7365)
Roeschley, Roeschley Hybrids, 8222 E 1500 N Rd., Graymont, IL 61743 (815-743-5938)
RPM, Doebler’s, 202 Tidagathon Avenue, Jersey Shore, PA 17740 (570-753-3210)
Steyer, Steyer Seeds, 36161 SR 10, Mason City, IL 62664 (217-482-3281)
Stone, Stone Seed Group, 5965 West State Route 97, Pleasant Plains, IL 62677 (217-546-8006)
Sun Prairie Seeds, Champaign County Seed Company, 1676 C.R. 2200 East, St. Joseph, IL 61873 (217-469-2351)
Unity, Unity Seeds, LLC 3451 Wyndham Way, Suite A West Lafayette, IN 47906 (765-497-6522)
Viking, Albert Lea Seed House, 1414 West Main St./ P.O. Box 127 Albert Lea, MN 56007 (800-352-5247)
Whisnand, Whisnand Hybrids, 1220 East State Route 133, Arcola, IL 61910 (217-268-3714)
YIELDirect, YIELDirect, 603 N. McKinstry Road, Woodstock, IL 60098 (815-338-5230)

* KEY TO REGIONS
1 (North) = Mt. Morris, DeKalb, Erie
2 (W. Central) = Monmouth, Perry, New Berlin
3 (E. Central) = Dwight, Goodfield, Urbana
4 (South) = St. Peter, Belleville, Elkville
5 = DeKalb Corn Following Corn
6 = Monmouth Corn Following Corn
7 = Urbana Corn Following Corn
** RM = Relative Maturity In Days
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* see page 4 for key to RM and regions entered
### 2011 Corn Entries

**Company** | **Name** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **RM**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
MUNSON | 7251VT3P | 1 | 2 | 6 | 112
MUNSON | 7298-3000GT | 2 | 6 | 112
MUNSON | 7322VT3P | 1 | 2 | 5 | 6 | 113
MUNSON | 7423VT3P | 2 | 6 | 114
MUNSON | 7584VT3P | 2 | 6 | 115
MUNSON | M727RR | 2 | 6 | 112
MUNSON | M735VT3P | 2 | 6 | 113
MYCOGEN | 2A695 | 1 | 5 | 110
MYCOGEN | 2H736 | 1 | 5 | 112
MYCOGEN | 2P616 | 1 | 5 | 107
MYCOGEN | 2VT02 | 1 | 5 | 110
MYCOGEN | 2V715 | 1 | 5 | 111
NUTECH SEED | 5B-1003 | 1 | 2 | 3 | 5 | 110
NUTECH SEED | 5H-607 | 1 | 106
NUTECH SEED | 5N-1004 | 1 | 2 | 3 | 5 | 110
NUTECH SEED | 5V-514 | 2 | 3 | 4 | 6 | 114
NUTECH SEED | 5V-813 | 2 | 3 | 4 | 6 | 113
OMG | 4L92 | 1 | 107
OMG | 4M89 | 1 | 106
OMG | 6E11 | 1 | 110
OMG | 6L39 | 1 | 2 | 3 | 113
OMG | 6M19 | 1 | 110
PIONEER | 32D79 | 4 | 116
PIONEER | 33T57 | 4 | 113
PIONEER | 35K04 | 1 | 106
PIONEER | P0413XR | 1 | 104
PIONEER | P0448XR | 1 | 104
PIONEER | P0916XR | 1 | 109
PIONEER | P1018XR | 1 | 2 | 3 | 110
PIONEER | P1184HR | 4 | 111
PIONEER | P1184XR | 1 | 2 | 3 | 5 | 6 | 7 | 111
PIONEER | P1395HR | 4 | 113
PIONEER | P1395XR | 2 | 3 | 5 | 6 | 7 | 113
PIONEER | P1467XR | 3 | 115
PIONEER | P1615HR | 4 | 116
PIONEER | P1745HR | 4 | 117
POWER PLUS | 4A30 | 1 | 3 | 108
POWER PLUS | 4C58 | 1 | 108
POWER PLUS | 4V43 | 2 | 108
POWER PLUS | 5A45 | 1 | 2 | 3 | 6 | 7 | 110
POWER PLUS | 6A12 | 2 | 3 | 6 | 7 | 112
POWER PLUS | 6B52 | 1 | 2 | 112
POWER PLUS | 6F72 | 2 | 3 | 112
POWER PLUS | 7A18 | 2 | 3 | 4 | 7 | 114
POWER PLUS | 7D51 | 2 | 3 | 4 | 115
PRAIRIE | 3074 | 1 | 104
PRAIRIE | 5200 | 1 | 108
PRAIRIE | 5879 | 1 | 107
PRAIRIE | 6158 | 1 | 111
PRAIRIE | 6469 | 2 | 3 | 111
PRAIRIE | 6950 | 1 | 2 | 3 | 111
PRAIRIE | 8052 | 2 | 114
PRAIRIE | 8229 | 2 | 3 | 114
RENK | RK698VT3 | 1 | 102
RENK | RK741VT3P | 1 | 108
RENK | RK744VT3P | 1 | 107
RENK | RK795VT3P | 1 | 109
RENK | RK818VT3P | 1 | 108
RENK | RK831VT3P | 1 | 112
RENK | RK858VT3P | 1 | 2 | 3 | 112
RENK | RK880STX | 1 | 2 | 3 | 112
RENK | RK902VT3 | 2 | 3 | 113
RENK | RK909VT3P | 2 | 3 | 113
ROESCHLEY | Rx193SS | 1 | 106
ROESCHLEY | Rx218VT3P | 1 | 108
ROESCHLEY | Rx429VT3P | 3 | 110

* see page 4 for key to RM and regions entered
2011 CORN LOCATIONS

- Mt. Morris
- Erie
- DeKalb
- Dwight
- Monmouth
- Goodfield
- Urbana
- Perry
- New Berlin
- St. Peter
- Belleville
- Elkville