

November 2018

MISSOURI CROP  
PERFORMANCE

# 2018

*corn*



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**MU Variety Testing Program**

COLLEGE OF AGRICULTURE, FOOD and NATURAL RESOURCES, UNIVERSITY of MISSOURI

# 2018 MISSOURI CORN TEST

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## PREFACE

Our motto is “We test the best” and that is exactly what we do. Each year, the best seed companies and organizations select several of their best hybrids for evaluation by the MU Variety Testing Program. We use the latest scientific principles and procedures to provide farmers and others with an interest in corn hybrid performance with accurate and unbiased information.

We respect the seed companies and organizations that put their hybrids to the test. We are honored that they entrust us with their valuable products. It takes courage to allow their hybrids to be compared with all of the others. Not every company participates in our program for various reasons. Those companies that do participate deserve your consideration when purchasing seed for the next growing season. Please view the table at the back of our book for names and addresses of participating seed companies. Thank them for their courage and tell them you saw their hybrid in our program.

The MU Variety Testing Program has provided Missouri farmers with unbiased variety comparisons for more than 75 years, first with corn, then soybean and wheat. We have a young and ambitious staff with excellent experience with testing crop yield performance. Our plots are placed where you farm. They have the soils and weather conditions your fields have. The MU Variety Testing Program is on-farm research in the truest sense of the word. Most of our locations are on farmer fields in your communities. Several locations are MU farms. These CAFNR owned and operated research centers sample the north, central and southeast regions of Missouri and combined with the private farm locations provide you with the diversity of environments you need to select the best hybrids for your farm. View the map in our procedures section to see the placement of our locations and the cooperators that are so important to the quality of our information.

Evaluating yield and making decisions based on that evaluation are difficult because yield is highly affected by environment – even the small differences that exist across a field. We use replication, plot size, and plot placement to minimize the “noise.” Please read the procedures section of this book to better understand what we do and the tools we provide you to make hybrid selection decisions. Our data tables are arranged to help you quickly see how hybrids compare. We strongly suggest that you use information from more than one location. Our tables of “region means” provide you comparisons across multiple locations. Although yield is extremely important, please see our hybrid characteristics table located near the back of the book to view additional information that you might find helpful during hybrid selection.

Thank you for your interest and support. Please support the companies that participate in our program. If you have suggestions on how we can improve our program, please contact me directly at [wieboldw@missouri.edu](mailto:wieboldw@missouri.edu). The MU Variety Testing Program exists to serve your needs. We want to provide you with the best information possible.



William “Bill” Wiebold

# PROCEDURES

## Regions and locations

The MU Variety Testing Program divides the corn growing area of Missouri into four regions: North, Central, Southeast, and Southwest. Each region contains two to five locations, depending on the tests conducted in a region. The same hybrids are tested in all locations of a test within a region. Locations for corn tests are as follows:

### North Region

Albany (1), Craig (2), Canton (3), Mooresville (4), Novelty (5)

### Central Region

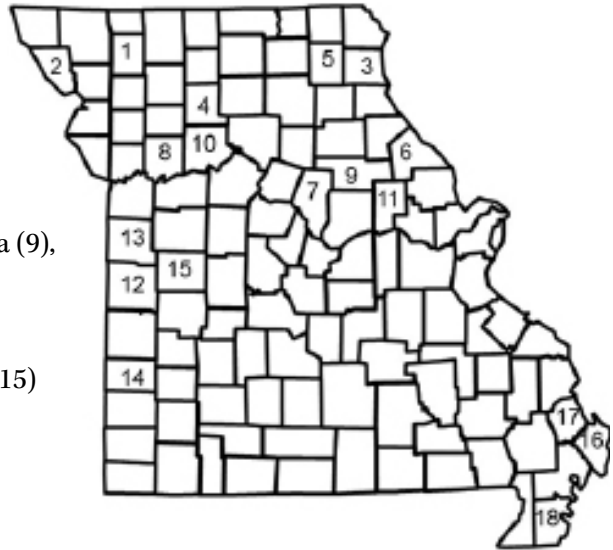
Annada (6), Columbia (7), Henrietta (8), Laddonia (9), Norborne (10), Truxton (11)

### Southwest Region

Adrian (12), Garden City (13), Lamar (14), Urich (15)

### Southeast Region

Charleston North (16), Charleston South (16), Oran (17), Portageville (18)



The MU Variety Testing Program depends upon and is highly appreciative of the cooperators that allow it to use their farms. Thank you Steve Cunningham, Ron Beetsma, Bill Lloyd, John Williams, Kyle Durham, Larry Deimeke, Roy Cope, Bob Burkemper, Tom Kurzweil, Bill Cook, Darrel Tenholder, Kurt Gretzinger, Ron Bean, Glenn Nothdurft, Don McCan, Don Deline, and the Missouri Agriculture Experiment Station.

## Entries

All seed companies were eligible to enter hybrids into the corn tests. Participation was voluntary and the MU Variety Testing Program exercised no control over which, or how many, hybrids were entered. The MU Variety Testing Program receives no Missouri tax dollars, so a fee was collected for each entry to fund the program.

At least three “Standard Check” hybrids from several major brands are included at each location of each test. The companies have asked that the hybrid names be kept proprietary. Hybrids are identified in the data tables as “Brand Standard #”. These standard hybrids were selected and entered by the MU Variety Testing Program.

## 2018 test descriptions

**Non-Irrigated Corn Test** consists of five locations in the North Region, five locations in the Central Region, and three locations in the Southwest Region. Plots were not irrigated in this test.

**Irrigated Corn Test** consists of two locations in the Central Region, three locations in the Southwest Region, and four locations in the Southeast Region. Plots were irrigated as weather conditions warranted.

## Field plot design and plot management

Hybrids were randomly arranged in the field according to a lattice design with three replications. At all locations, plots were four rows wide (10 feet) and 27 feet long. All tests were planted and harvested with commercial equipment modified for small plot work. Row spacing for all corn tests was 30 inches. Planting rates were 30,000 kernels/acre for the Non-Irrigated Corn Test and 38,000 kernels/acre for the Irrigated Corn Test. The center two rows of each plot were harvested to determine yield.

Fertilizer was applied at each site at the discretion of the farmer or the research station manager. Herbicides were used to control weeds, and additional hand weeding was performed as required. An in-furrow insecticide was applied at all locations. Management details varied among locations and are specified in individual regional crop management summaries.

### **Data recorded**

Lodging was rated immediately before harvest using a scale of 1 to 5 where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged. During harvest, plot grain weights were measured and an electronic moisture tester was used to determine the moisture content of the grain. Yields were corrected to a grain moisture content of 15.5% and expressed as bushels/acre.

### **Comparing varieties**

The performance of a hybrid cannot be measured with absolute precision. Uncontrolled variability is involved in the determination of each plot's yield. This variability exists in all field experiments and in farmer fields. Statistics are used to account for this variability and to assist farmers in selecting superior hybrids. The statistical tool used by the MU Variety Testing Program is called "least significant difference" (LSD). The LSD is simple to use. When two hybrids are compared and the difference between them is greater than the LSD, the entries are considered to be significantly different. Differences between two hybrids that are smaller than the LSD may have occurred by chance and are considered to be not significant. In other words, the two hybrids might have the same yield, grain moisture or other characteristics of interest. The LSD can be found at the bottom of each table.

The MU Variety Testing Program arranges hybrids within each table from highest yield to lowest yield. The "top yielding" hybrid in each test is identified by a double asterisk (\*\*) placed next to its yield. Hybrids that did not yield significantly less than the highest yielding hybrid in the test are denoted in the tables by a single asterisk (\*). Thus, by reading down the yield column, readers can readily identify the highest yielding hybrids at a location.

Hybrid performance may seem inconsistent from location to location and from year to year. These differences are caused by differences among environments for rainfall, temperatures, soil fertility, diseases, insects, and many other factors. To obtain an improved estimate of relative hybrid performance, readers should consider results from more than one environment (locations and/or years). The vast majority of hybrids are entered into our tests for only one year, so comparing hybrids across multiple locations becomes even more important. The MU Variety Testing Program facilitates hybrid comparisons across locations by publishing Region Means. Region Means tables contain yield data from all individual locations in the region with yields averaged across the locations. The hybrid with the highest average yield and hybrids that do not differ for yield from that hybrid are designated with double (\*\*) and single (\*) asterisks.

Although yield usually receives first consideration, other agronomic characteristics may be important when selecting a corn hybrid. Stalk strength, maturity, and resistance to insects and diseases are among the hybrid characteristics that deserve careful consideration. We provide a table that contains several important characteristics of hybrids entered into the MU Variety Testing Program. This information was provided by seed companies. Please contact seed company representatives for the latest information. Seed entered into the MU Variety Testing Program is usually treated with one or more seed treatments. These seed treatments are identified in the table listing the hybrid characteristics.

### **Accessibility of data**

Results of the 2018 crop performance tests are available in print format and online at [varietytesting.missouri.edu](http://varietytesting.missouri.edu). If you need help accessing the website or would like to receive a printed copy, please call 573-882-2307.

### **Authors**

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## **CROP MANAGEMENT AT TEST LOCATIONS**

### **Adrian**

Region/Test: Southwest Non-irrigated  
Cooperator: Darrel Tenholder  
Tillage: Minimum tillage  
Planting date: April 18  
Harvest date: Sept. 27  
Nitrogen (pounds/acre): 182  
Herbicides (pre): Basis, Atrazine, Degree Xtra  
Insecticides: Hero

### **Adrian**

Region/Test: Southwest Irrigated  
Cooperator: Darrel Tenholder  
Tillage: Minimum tillage  
Planting date: April 18  
Harvest date: Sept. 27  
Nitrogen (pounds/acre): 182  
Herbicides (pre): Basis, Atrazine, Degree Xtra  
Insecticides: Hero

### **Albany**

Region/Test: North Non-irrigated  
Cooperator: Missouri Ag Exp. Station  
Tillage: No-till  
Planting date: April 30  
Harvest date: Sept. 27  
Nitrogen (pounds/acre): 148  
Herbicides (pre): Accuron, Durango  
Insecticides: Province

### **Annada**

Region/Test: Central Non-irrigated  
Cooperator: Bob Burkemper  
Tillage: Minimum tillage  
Planting date: April 24  
Harvest date: Sept. 18  
Nitrogen (pounds/acre): 200  
Herbicides (pre): Atrazine, Resicore

### **Canton**

Region/Test: North Non-irrigated  
Cooperator: Bill Lloyd  
Tillage: Conventional tillage  
Planting date: April 25  
Harvest date: Sept. 20  
Nitrogen (pounds/acre): 150  
Herbicides (pre): Atrazine, Resicore

### **Charleston S.**

Region/Test: Southeast Irrigated  
Cooperator: Don Deline  
Tillage: Conventional tillage  
Planting date: May 7  
Harvest date: Sept. 20  
Nitrogen (pounds/acre): 240

### **Columbia**

Region/Test: Central Non-irrigated  
Cooperator: Missouri Ag Exp. Station  
Tillage: Conventional tillage  
Planting date: April 23  
Harvest date: Oct. 1  
Nitrogen (pounds/acre): 160  
Herbicides (pre): Atrazine, Resicore

### **Columbia**

Region/Test: Central Irrigated  
Cooperator: Missouri Ag Exp. Station  
Tillage: Conventional tillage  
Planting date: April 23  
Harvest date: Oct. 1  
Nitrogen (pounds/acre): 160  
Herbicides (pre): Atrazine, Resicore

### **Craig**

Region/Test: North Non-irrigated  
Cooperator: Steve Cunningham  
Tillage: Minimum tillage  
Planting date: May 1  
Harvest date: Sept. 26  
Nitrogen (pounds/acre): 200  
Herbicides (pre): Atrazine, Resicore

### **Garden City**

Region/Test: Southwest Irrigated  
Cooperator: Bill Cook  
Tillage: Conventional tillage  
Planting date: May 11  
Harvest date: Sept. 25  
Nitrogen (pounds/acre): 205  
Herbicides (pre): Atrazine, Roundup, Degree Xtra

### **Henrietta**

Region/Test: Central Non-irrigated  
Cooperator: John Williams  
Tillage: Minimum tillage  
Planting date: May 9  
Harvest date: Sept. 24  
Nitrogen (pounds/acre): 200  
Herbicides (pre): Atrazine, Resicore, Roundup

### **Lamar**

Region/Test: Southwest Non-irrigated  
Cooperator: Ron Bean  
Tillage: Conventional tillage  
Planting date: May 17  
Harvest date: Oct. 9  
Nitrogen (pounds/acre): 240  
Herbicides (pre): Atrazine, Resicore

### **Lamar**

Region/Test: Southwest Irrigated  
Cooperator: Ron Bean  
Tillage: Conventional tillage  
Planting date: May 17  
Harvest date: Oct. 9  
Nitrogen (pounds/acre): 240  
Herbicides (pre): Atrazine, Resicore

### **Moorseville**

Region/Test: North Non-irrigated  
Cooperator: Ben Beetsma  
Tillage: Conventional tillage  
Planting date: May 10  
Harvest date: Sept. 21  
Nitrogen (pounds/acre): 190  
Herbicides (pre): Bicep II Magnum, Explorer,  
Atrazine, Resicore

### **Norborne**

Region/Test: Central Non-irrigated  
Cooperator: Kyle Durham  
Tillage: Minimum tillage  
Planting date: April 19  
Harvest date: Oct. 1  
Nitrogen (pounds/acre): 164  
Herbicides (pre): Atrazine, Resicore, Roundup  
Insecticides: Hero

### **Novelty**

Region/Test: North Non-irrigated  
Cooperator: Missouri Ag Exp. Station  
Tillage: Minimum tillage  
Planting date: May 14  
Harvest date: Sept. 19  
Nitrogen (pounds/acre): 183  
Herbicides (pre): Atrazine, Resicore, Roundup

### **Oran**

Region/Test: Southeast Irrigated  
Cooperator: Glenn Nothdurft  
Tillage: Conventional tillage  
Planting date: May 7  
Harvest date: Sept. 19  
Nitrogen (pounds/acre): 270  
Herbicides (pre): Atrazine, Realm Q

### **Truxton**

Region/Test: Central Non-irrigated  
Cooperator: Roy Cope  
Tillage: No-tillage  
Planting date: April 28  
Harvest date: Sept. 13  
Nitrogen (pounds/acre): 135  
Herbicides (pre): Roundup, Lexar  
Insecticides: Grizzly Too

### **Urich**

Region/Test: Southwest Non-irrigated  
Cooperator: Nathan and Kurt Gretzinger  
Tillage: Minimum tillage  
Planting date: May 2  
Harvest date: Sept. 26  
Nitrogen (pounds/acre): 82  
Herbicides (pre): Atrazine, Resicore

## SOIL AND WEATHER INFORMATION FOR TEST LOCATIONS

Location	Soil type	Precipitation (inches)				
		May	June	July	August	Season
Adrian	Kenoma silt loam	8.9	2.6	3.3	5.0	19.8
Albany	Grundy silt loam	2.4	3.6	1.2	7.6	14.8
Annada	Tice silt loam	3.9	4.5	3.7	6.6	18.7
Canton	Westerville silt loam	3.4	2.5	4.1	8.0	18.0
Charleston S.	Dundee silt loam	5.7	5.3	1.7	3.2	15.9
Columbia	Mexico silt loam	3.7	5.1	2.9	4.9	16.6
Craig	Blencoe silty clay	2.8	4.5	2.3	5.5	15.1
Garden City	Haig silt loam	5.0	2.3	3.5	3.2	14.0
Henrietta	Haynie silt loam	2.9	3.2	0.9	4.9	11.9
Lamar	Parsons silt loam	4.8	2.5	2.4	7.2	16.9
Mooreville	Grundy silt loam	3.5	2.2	1.5	7.5	14.7
Norborne	Norborne loam	2.8	2.4	2.1	5.4	12.7
Novelty	Putnam silt loam	2.6	2.5	1.1	3.9	13.1
Oran	Commerce silt loam	7.7	7.0	2.5	2.5	19.7
Truxton	Mexico silt loam	4.3	6.0	2.0	5.2	17.5
Urich	Hartwell silt loam	6.4	3.6	3.7	4.7	18.4



# NORTH REGION — NON-IRRIGATED CORN TEST

## Summary

Brand-Hybrid	Canton (bu/ac)	Mooreville (bu/ac)	Novelty (bu/ac)	Mean (bu/ac)
NuTech/G2 5FB-4516	275.5**	184.1	138.4	199.3**
MorCorn MC 4750 SS RIB	247.7	197.2*	149.1	198.0*
AgVenture AV8915AM	239.7	204.3**	145.9	196.6*
NuTech/G2 5FB-9909	249.0	189.9*	147.6	195.5*
MorCorn MC 4319 VT2P RIB	252.1	193.0*	139.4	194.8*
MorCorn MC 4457 VT2P RIB	247.0	194.0*	142.3	194.4*
Dekalb Standard 6#	240.5	195.0*	147.7	194.4*
AgVenture RL7844AM	239.7	195.5*	146.0	193.7*
LG Seeds LG61C48VT2	237.6	185.8	157.6*	193.7*
FS InVISION FS 66ZV1 RIB	240.1	188.4*	152.4*	193.6*
Hoegemeyer Hybrids HPT 8572 AM	245.3	191.3*	143.9	193.5*
NuTech/G2 5FB-3113	240.8	191.3*	145.3	192.5*
FS InVISION FS 64SV1 RIB	229.9	194.6*	151.8*	192.1*
Dyna-Gro D52VC63	218.4	197.7*	160.0**	192.0*
Hoegemeyer Hybrids HPT 8217 AM	243.2	179.3	152.2*	191.6*
AgVenture RL8430AM	256.3	175.1	140.1	190.5*
Pioneer Standard 3#	228.3	192.5*	148.9	189.9*
LG Seeds LG62C02STXRIB	247.8	176.3	145.2	189.8*
FS InVISION FS 62TV1DG RIB	230.7	192.2*	144.4	189.1
FS InVISION FS 60UX1 RIB	229.5	195.1*	141.8	188.8
Dekalb Standard 1#	243.3	167.1	155.5*	188.6
MorCorn MC 4725 VT2P RIB	242.6	193.9*	128.9	188.5
NuTech/G2 E5FN-A714	249.5	170.2	142.7	187.5
FS InVISION FS 63ZV1 RIB	244.5	189.6*	128.0	187.4
AgVenture AV8714AM	246.8	177.0	137.2	187.0
Midland 669PR	248.7	165.2	145.5	186.5
Hoegemeyer Hybrids HPT 8414 AM	237.0	183.6	137.9	186.2
AgVenture AV8614AM	263.5*	162.7	131.7	186.0
NuTech/G2 E5FN-A213	233.7	177.9	145.1	185.6
AgVenture RL8537AM	241.8	185.6	128.3	185.2
Prairie Hybrids 8759	246.4	152.9	155.7*	185.0
NuTech/G2 5FB-6313	247.1	166.5	140.3	184.6
Midland 735PR	241.2	178.1	134.4	184.6
FS InVISION FS 62ZX1 RIB	225.3	192.8*	135.3	184.5
Dyna-Gro D52VC15	228.4	172.8	148.1	183.1
Hoegemeyer Hybrids HPT 8382 AM	213.5	182.2	151.4*	182.4
Pioneer Standard 4#	236.3	174.8	134.4	181.8
NuTech/G2 5LB-7215	223.1	178.9	141.8	181.3
Midland 573PR	232.3	170.9	140.4	181.2
Hoegemeyer Hybrids HPT 7946 AM	245.6	160.0	136.3	180.6
FS InVISION FS 67SV1 RIB	231.4	167.9	142.2	180.5

## North Region — Non-Irrigated (continued)

<b>Brand-Hybrid</b>	<b>Canton (bu/ac)</b>	<b>Mooreville (bu/ac)</b>	<b>Novelty (bu/ac)</b>	<b>Mean (bu/ac)</b>
Syngenta NK1066-3120	242.0	162.0	134.9	179.6
Midland 429PR	225.2	166.3	147.2	179.6
Midland 349PR	225.6	175.4	137.3	179.4
AgVenture AV8113AM	219.7	184.2	130.3	178.1
NuTech/G2 5F-713	247.1	160.7	125.7	177.8
Hoegemeyer Hybrids HPT 7886 AM	240.0	144.6	141.0	175.2
Dyna-Gro D49VC70	222.7	162.5	138.1	174.4
Syngenta NK0962-3220A	222.9	151.8	141.5	172.1
Syngenta NK1284-3220	227.5	170.5	116.4	171.5
LG Seeds LG59C66VT2PRIB	226.1	155.5	125.0	168.9
NuTech 5NN-8812	201.3	184.1	118.3	167.9
Midland 347PR	232.6	157.0	113.4	167.7
<b>Mean</b>	<b>236.7</b>	<b>177.5</b>	<b>140.0</b>	<b>184.8</b>
<b>LSD (10%)</b>	<b>13.3</b>	<b>16.7</b>	<b>11.7</b>	<b>10.1</b>
<b>CV (%)</b>	<b>5.3</b>	<b>8.9</b>	<b>7.9</b>	<b>7.0</b>

\*\* Highest yielding variety in test

\* Yield not significantly less than the highest yielding variety in the test

# Standard hybrids were selected and entered by the MU Variety Testing Program

# CENTRAL REGION — NON-IRRIGATED CORN TEST

## Summary

Brand-Hybrid	Annada (bu/ac)	Columbia (bu/ac)	Norborne (bu/ac)	Henrietta (bu/ac)	Truxton (bu/ac)	Mean (bu/ac)
LG Seeds LG5650VT2RIB	260.3	224.7**	232.5	228.3*	212.0*	231.6**
Dyna-Gro D55VC45	264.8*	207.4	245.3*	215.9	200.3	226.7*
FS InVISION FS 64SV1 RIB	248.8	209.4	224.5	222.4*	217.4**	224.5*
MorCorn MC 4319 VT2P RIB	235.2	211.2	235.2	232.0**	208.0*	224.3*
FS InVISION FS 66ZV1 RIB	246.5	204.8	247.1*	231.9*	184.6	223.0*
LG Seeds LG62C02STXRIB	232.4	203.6	239.6*	213.1	215.3*	220.8*
MorCorn MC 4750 SS RIB	246.9	212.6	212.9	220.2*	210.5*	220.6*
FS InVISION FS 67SV1 RIB	246.7	207.1	244.9*	200.5	200.3	219.9
Midland 429PR	245.9	203.6	235.4	214.8	199.7	219.9
AgVenture AV8714AM	252.8	210.4	223.8	205.4	206.4*	219.8
AgVenture AV8614AM	277.2**	206.6	213.6	223.1*	174.1	218.9
Dyna-Gro D52VC63	244.3	216.7*	236.3*	208.7	187.3	218.7
FS InVISION FS 62ZX1 RIB	247.8	206.5	231.3	202.4	201.5	217.9
NuTech/G2 5F-713	225.7	208.3	249.2**	215.6	189.4	217.6
FS InVISION FS 60UX1 RIB	231.9	193.3	234.3	222.0*	199.2	216.1
AgVenture AV8113AM	232.5	214.9*	222.4	205.2	203.6	215.7
NuTech/G2 5FB-6313	239.5	200.0	219.8	213.0	204.1*	215.3
Hoegemeyer Hybrids HPT 8414 AM	242.8	191.4	238.3*	201.7	201.8	215.2
FS InVISION FS 63ZV1 RIB	231.2	197.8	234.9	219.3	192.7	215.2
Prairie Hybrids 8759	262.7	184.6	212.7	224.2*	191.5	215.1
NuTech/G2 E5FN-A213	235.6	200.3	216.6	210.5	205.9*	213.8
FS InVISION FS 62TV1DG RIB	228.7	203.1	215.9	219.2	200.3	213.4
Prairie Hybrids 7387	247.9	193.8	221.8	206.1	197.5	213.4
Midland 669PR	238.7	197.2	213.7	207.8	209.6*	213.4
LG Seeds LG5606STXRIB	232.6	196.5	223.9	214.0	199.3	213.3
Pioneer Standard 3#	243.4	196.5	214.2	202.1	207.4*	212.7
MorCorn MC 4457 VT2P RIB	231.1	193.6	218.8	209.2	210.2*	212.6
MorCorn MC 4725 VT2P RIB	238.4	192.6	219.1	196.4	215.2*	212.3
NuTech/G2 5FB-3113	226.9	202.5	225.7	218.0	188.2	212.3
Hoegemeyer Hybrids HPT 8382 AM	239.8	192.5	218.1	205.0	203.0	211.7
AgVenture AV8915AM	212.1	191.2	224.0	226.7*	203.7	211.5
Syngenta NK1573-3110	241.1	197.2	218.2	214.1	185.4	211.2
AgVenture RL8430AM	239.1	202.0	240.6*	186.3	183.5	210.3
Dyna-Gro D52VC15	224.0	181.3	209.5	219.1	216.1*	210.0
Dekalb Standard 1#	238.9	203.9	208.4	202.1	196.0	209.9
Hoegemeyer Hybrids HPT 8572 AM	215.6	202.4	213.5	218.9	198.5	209.8
Midland 757PR	230.0	189.9	227.9	205.3	195.7	209.8
Hoegemeyer Hybrids HPT 8091 AM	226.2	203.2	214.2	196.2	208.6*	209.7
NuTech/G2 5LB-7215	220.1	194.4	219.5	204.3	206.8*	209.0
NuTech/G2 E5FN-A714	250.3	188.0	209.8	203.8	192.8	208.9
Hoegemeyer Hybrids HPT 7946 AM	216.3	193.9	227.7	206.1	199.7	208.7

## Central Region — Non-Irrigated (continued)

<b>Brand-Hybrid</b>	<b>Annada (bu/ac)</b>	<b>Columbia (bu/ac)</b>	<b>Norborne (bu/ac)</b>	<b>Henrietta (bu/ac)</b>	<b>Truxton (bu/ac)</b>	<b>Mean (bu/ac)</b>
AgVenture RL7844AM	234.0	188.4	208.0	200.6	203.3	206.9
Midland 735PR	236.8	180.2	215.6	209.5	190.5	206.5
Hoegemeyer Hybrids HPT 8217 AM	216.3	192.5	203.9	211.0	202.6	205.3
Pioneer Standard 4#	210.8	186.9	208.5	211.6	199.9	203.5
AgVenture RL8537AM	217.9	178.9	215.9	198.4	203.8	203.0
Midland 573PR	228.6	183.9	217.3	195.9	184.6	202.1
Syngenta NK1284-3220	223.6	203.8	213.3	175.5	173.7	198.0
Syngenta NK1066-3120	230.2	189.5	200.3	187.6	176.6	196.8
<b>Mean</b>	236.5	198.7	222.8	209.8	199.1	213.4
<b>LSD (10%)</b>	13.5	10.5	13.2	12.6	13.4	11.0
<b>CV (%)</b>	5.4	5.0	5.6	5.7	6.4	5.4

\*\* Highest yielding variety in test

\* Yield not significantly less than the highest yielding variety in the test

# Standard hybrids were selected and entered by the MU Variety Testing Program

## CENTRAL REGION — IRRIGATED CORN TEST

### Columbia

Brand-Hybrid	Yield (bu/ac)	Moisture (%)	Lodging ~
AgVenture AV8113AM	246.6**	14.4	1
MorCorn MC 4750 SS RIB	245.4*	15.2	1
AgVenture AV8614AM	243.1*	15.2	1
NuTech/G2 5FB-4516	241.3*	14.6	1
USA 1139	237.4*	15.1	1
AgVenture AV8714AM	236.4*	14.9	1
Midland 429PR	236.3*	14.3	1
Midland 669PR	235.7*	14.3	1
NuTech/G2 5F-713	235.7*	14.4	1
NuTech/G2 5FB-3113	233.7*	14.1	1
NuTech/G2 5FB-6313	233.3*	14.3	1
AgVenture AV8915AM	232.8	14.0	1
Dekalb Standard 6#	231.6	14.4	1
MorCorn MC 4725 VT2P RIB	231.2	15.9	1
Pioneer Standard 4#	230.9	15.2	1
Prairie Hybrids 8759	229.8	14.3	1
NuTech/G2 E5FN-A213	227.6	14.5	1
MorCorn MC 4457 VT2P RIB	225.5	14.1	1
Dekalb Standard 1#	225.4	14.5	1
MorCorn MC 4319 VT2P RIB	224.7	14.9	1
Pioneer Standard 3#	224.4	14.5	1
AgVenture RL8430AM	224.1	14.4	1
NuTech/G2 5LB-7215	222.4	14.9	1
NuTech/G2 E5FN-A714	222.0	14.5	1
USA 1141	191.1	15.6	1
<b>Mean</b>	<b>230.7</b>	<b>14.7</b>	<b>1</b>
<b>LSD (10%)</b>	<b>13.4</b>	<b>0.7</b>	
<b>CV (%)</b>	<b>5.5</b>	<b>4.2</b>	

\*\* Highest yielding variety in test

\* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.

# Standard hybrids were selected and entered by the MU Variety Testing Program

## SOUTHWEST REGION — NON-IRRIGATED CORN TEST

### Summary

Brand-Hybrid	Adrian (bu/ac)	Urich (bu/ac)	Mean (bu/ac)
MorCorn MC 4319 VT2P RIB	220.3**	198.4*	209.4**
Dekalb Standard 1#	215.8*	198.1*	207.0*
LG Seeds LG5643VT2RIB	212.9*	199.9*	206.4*
Midland 669PR	206.5*	206.0**	206.3*
LG Seeds LG66C32VT2PRIB	203.2	197.8*	200.5*
Dekalb Standard 2#	198.4	201.6*	200.0*
Hoegemeyer Hybrids HPT 8217 AM	204.0	194.3	199.2*
ProHarvest 8277 VT2P	203.4	193.6	198.5
Midland 429PR	205.1	191.8	198.5
Hoegemeyer Hybrids HPT 7946 AM	193.6	203.2*	198.4
Midland 735PR	204.4	191.6	198.0
Pioneer Standard 5#	205.1	188.5	196.8
Hoegemeyer Hybrids HPT 7434 AM	208.9*	183.6	196.3
MorCorn MC 4725 VT2P RIB	207.4*	184.6	196.0
Midland 757PR	199.3	192.3	195.8
ProHarvest 8404 VT2P	203.7	187.5	195.6
Pioneer Standard 4#	200.3	183.5	191.9
MorCorn MC 4750 SS RIB	210.4*	171.5	191.0
ProHarvest 8312 VT2P	197.8	182.8	190.3
MorCorn MC 4457 VT2P RIB	184.7	189.9	187.3
<b>Mean</b>	<b>204.3</b>	<b>192.0</b>	<b>198.1</b>
<b>LSD (10%)</b>	<b>13.9</b>	<b>9.5</b>	<b>10.6</b>
<b>CV (%)</b>	<b>7.4</b>	<b>5.4</b>	<b>6.4</b>

\*\* Highest yielding variety in test

\* Yield not significantly less than the highest yielding variety in the test

# Standard hybrids were selected and entered by the MU Variety Testing Program

## SOUTHWEST REGION — IRRIGATED CORN TEST

### Summary

Brand-Hybrid	Adrian (bu/ac)	Garden City (bu/ac)	Mean (bu/ac)
LG Seeds LG5643VT2RIB	218.0*	225.0*	221.5**
Dekalb Standard 1#	207.4	235.0**	221.2*
MorCorn MC 4319 VT2P RIB	225.9*	215.8	220.9*
Pioneer Standard 3#	226.8**	214.8	220.8*
Pioneer Standard 5#	209.8	226.1*	218.0*
MorCorn MC 4725 VT2P RIB	211.7*	211.4	211.6*
Dekalb Standard 2#	205.4	216.2	210.8*
ProHarvest 8277 VT2P	212.9*	207.1	210.0*
Pioneer Standard 4#	213.9*	196.2	205.1
LG Seeds LG66C32VT2PRIB	214.1*	195.5	204.8
Midland 429PR	215.4*	193.6	204.5
ProHarvest 8404 VT2P	215.2*	186.6	200.9
MorCorn MC 4750 SS RIB	218.5*	177.3	197.9
Midland 735PR	175.1	196.4	185.8
MorCorn MC 4457 VT2P RIB	194.9	174.0	184.5
ProHarvest 8312 VT2P	179.4	184.1	181.8
<b>Mean</b>	<b>209.0</b>	<b>203.4</b>	<b>206.2</b>
<b>LSD (10%)</b>	<b>16.7</b>	<b>13.6</b>	<b>13.7</b>
<b>CV (%)</b>	<b>8.7</b>	<b>7.2</b>	<b>8.0</b>

\*\* Highest yielding variety in test

\* Yield not significantly less than the highest yielding variety in the test

# Standard hybrids were selected and entered by the MU Variety Testing Program

## SOUTHEAST REGION — IRRIGATED CORN TEST

### Summary

Brand-Hybrid	Charleston S. (bu/ac)	Oran (bu/ac)	Mean (bu/ac)
LG Seeds LG5650VT2RIB	263.9**	219.8	241.9**
AgriGold A6544VT2RIB	251.7*	230.1*	240.9*
AgriGold A6572VT2RIB	254.9*	225.3	240.1*
Augusta A1166	240.4	229.4*	234.9*
FS InVISION FS 64SV1 RIB	245.6	219.6	232.6*
Syngenta NK1694-3111	226.0	238.2*	232.1*
Dyna-Gro CX17117	231.9	232.2*	232.1*
Armor 0887	246.4	217.5	232.0*
AgriGold A6659VT2RIB	239.4	224.2	231.8*
Syngenta NK1573-3110	248.8	214.2	231.5*
Pioneer Standard 5#	234.5	225.2	229.9*
Dyna-Gro D58VC65	244.9	212.7	228.8
LG Seeds LG5643VT2RIB	227.8	229.3*	228.6
Dekalb Standard 2#	239.3	217.5	228.4
Hefty HCEXP11322	235.4	220.0	227.7
AgriGold A647-90VT2RIB	243.7	209.1	226.4
MorCorn MC 4457 VT2P RIB	251.8*	200.8	226.3
Armor 1447	230.7	220.3	225.5
Terral Seed REV 28BHR18	206.5	242.7**	224.6
MorCorn MC 4750 SS RIB	230.3	217.9	224.1
AgriGold A646-12STXRIB	242.1	203.8	223.0
Armor X8111	223.9	220.4	222.2
Armor 1667	230.3	210.3	220.3
Dyna-Gro D54VC14	226.9	211.6	219.3
Armor X8117	233.4	204.5	219.0
FS InVISION FS 60UX1 RIB	227.0	208.6	217.8
Pioneer Standard 4#	232.1	202.5	217.3
Pioneer Standard 3#	204.8	225.1	215.0
Terral Seed REV 27BHR79	208.9	219.2	214.1
FS InVISION FS 62ZX1 RIB	218.9	208.8	213.9
Hefty H6524	221.7	204.1	212.9
Terral Seed REV 25BHR89	201.4	221.7	211.6
FS InVISION FS 67SV1 RIB	232.1	186.8	209.5
Hefty H6324	215.6	201.9	208.8
Augusta A1266	209.6	207.8	208.7
Dekalb Standard 1#	220.3	192.4	206.4
AgriGold A6711VT2PRO	221.5	189.5	205.5
Hefty HCEXP11522	220.4	187.4	203.9
FS InVISION FS 66ZV1 RIB	235.1	172.6	203.9
FS InVISION FS 62TV1DG RIB	215.5	191.8	203.7
Augusta A1165	222.0	184.2	203.1



<b>Brand-Hybrid</b>	<b>Charleston S. (bu/ac)</b>	<b>Oran (bu/ac)</b>	<b>Mean (bu/ac)</b>
Terral Seed REV 25BHR26	190.1	212.4	201.3
FS InVISION FS 63ZV1 RIB	207.7	192.2	200.0
Hefty H6413	216.8	181.5	199.2
Terral Seed REV 24BHR99	212.5	184.1	198.3
Terral Seed REV 23BHR55	196.4	189.8	193.1
MorCorn MC 4725 VT2P RIB	187.6	197.2	192.4
MorCorn MC 4319 VT2P RIB	222.3	143.9	183.1
Dyna-Gro D57VC51	221.3	135.9	178.6
<b>Mean</b>	<b>226.8</b>	<b>226.8</b>	<b>216.8</b>
<b>LSD (10%)</b>	<b>14.6</b>	<b>14.6</b>	<b>12.8</b>
<b>CV (%)</b>	<b>6.1</b>	<b>6.1</b>	<b>6.2</b>

\*\* Highest yielding variety in test

\* Yield not significantly less than the highest yielding variety in the test

# Standard hybrids were selected and entered by the MU Variety Testing Program

## CHARACTERISTICS FOR CORN HYBRIDS

All information in this table was provided by the seed companies. The MU Variety Testing Program does not guarantee accuracy. Please contact seed dealers for the latest information.

Hybrid	Maturity <sup>1</sup>	Seed Treatment <sup>2</sup>	Biotechnology traits			
			Herbicide <sup>3</sup>		Insect <sup>4</sup>	
			Gly	Glu	AG	BG
AgriGold A646-12STXRIB	116	Poncho 500 + VOTiVO	Y	Y	Y	Y
AgriGold A647-90VT2RIB	117	Poncho 500 + VOTiVO	Y	N	Y	N
AgriGold A6544VT2RIB	113	Poncho 500 + VOTiVO	Y	N	Y	N
AgriGold A6572VT2RIB	114	Poncho 500 + VOTiVO	Y	N	Y	N
AgriGold A6659VT2RIB	116	Poncho 500 + VOTiVO	Y	N	Y	N
AgriGold A6711VT2PRO	118	Poncho 500 + VOTiVO	Y	N	Y	N
AgVenture AV8113AM	113	N/I	Y	Y	Y	N
AgVenture AV8614AM	114	N/I	Y	Y	Y	N
AgVenture AV8714AM	114	N/I	Y	Y	Y	N
AgVenture AV8915AM	115	N/I	Y	Y	Y	N
AgVenture RL7844AM	110	N/I	Y	Y	Y	N
AgVenture RL8430AM	113	N/I	Y	Y	Y	N
AgVenture RL8537AM	113	N/I	Y	Y	Y	N
Armor 0887	108	Acceleron A500	Y	N	Y	N
Armor 1447	114	Acceleron A500	Y	N	Y	N
Armor 1667	116	Acceleron A500	Y	N	Y	N
Armor X8111	111	Acceleron A500	Y	N	Y	N
Armor X8117	117	Acceleron A500	Y	N	Y	N
Augusta A1165	115	Cruiser 250	Y	N	Y	N
Augusta A1166	116	Cruiser 250	Y	N	Y	N
Augusta A1266	116	Cruiser 250	Y	N	Y	N
Dyna-Gro CX17117	117	Acceleron 500	Y	Y	Y	Y
Dyna-Gro D49VC70	109	Acceleron 500	Y	N	Y	N
Dyna-Gro D52VC15	112	Acceleron 500	Y	N	Y	N
Dyna-Gro D52VC63	113	Acceleron 500	Y	N	Y	N
Dyna-Gro D54VC14	114	Acceleron 500	Y	N	Y	N
Dyna-Gro D55VC45	115	Acceleron 500	Y	N	Y	N
Dyna-Gro D57VC51	117	Acceleron 500	Y	N	Y	N
Dyna-Gro D58VC65	118	Acceleron 500	Y	N	Y	N
FS InVISION FS 60UX1 RIB	110	Acceleron + Poncho 500 + VOTiVO	Y	Y	Y	Y
FS InVISION FS 62TV1DG RIB	112	Acceleron 250	Y	N	Y	N
FS InVISION FS 62ZX1 RIB	112	Acceleron + Poncho 500 + VOTiVO	Y	Y	Y	Y
FS InVISION FS 63ZV1 RIB	113	Acceleron 250	Y	N	Y	N
FS InVISION FS 64SV1 RIB	114	Acceleron 250	Y	N	Y	N
FS InVISION FS 66ZV1 RIB	116	Acceleron 250	Y	N	Y	N
FS InVISION FS 67SV1 RIB	117	Acceleron 250	Y	N	Y	N
Hefty H6423 RIB	115	Acceleron 250	Y	N	Y	N

Hybrid	Maturity <sup>1</sup>	Seed Treatment <sup>2</sup>	Biotechnology traits			
			Herbicide <sup>3</sup>		Insect <sup>4</sup>	
			Gly	Glu	AG	BG
Hefty H6502 RIB	115	Acceleron 250	Y	N	Y	N
Hefty H6614 NON RIB	116	Acceleron 500	Y	N	Y	Y
Hefty H6624 RIB	116	Acceleron 500	Y	N	Y	Y
Hefty H6714 NON RIB	117	Acceleron 500	Y	N	Y	Y
Hoegemeyer Hybrids HPT 7434 AM	104	Poncho 1250 + VOTiVO	Y	Y	Y	N
Hoegemeyer Hybrids HPT 7886 AM	108	Poncho 1250 + VOTiVO	Y	Y	Y	N
Hoegemeyer Hybrids HPT 7946 AM	109	Poncho 500 + VOTiVO	Y	Y	Y	N
Hoegemeyer Hybrids HPT 8091 AM	110	Cruiser 250 + Lumivia	Y	Y	Y	N
Hoegemeyer Hybrids HPT 8217 AM	112	Cruiser 250 + Lumivia	Y	Y	Y	N
Hoegemeyer Hybrids HPT 8382 AM	113	Poncho 1250 + VOTiVO	Y	Y	Y	N
Hoegemeyer Hybrids HPT 8414 AM	114	Cruiser 250 + Lumivia	Y	Y	Y	N
Hoegemeyer Hybrids HPT 8572 AM	115	Poncho 1250 + VOTiVO	Y	Y	Y	N
LG Seeds LG5606STXRIB	111	Poncho 500 + VOTiVO	Y	Y	Y	Y
LG Seeds LG5643VT2RIB	114	Poncho 500 + VOTiVO	Y	N	Y	N
LG Seeds LG5650VT2RIB	115	Poncho 500 + VOTiVO	Y	N	Y	N
LG Seeds LG59C66VT2PRIB	109	Poncho 500 + VOTiVO	Y	N	Y	N
LG Seeds LG61C48VT2	111	Poncho 500 + VOTiVO	Y	N	Y	N
LG Seeds LG62C02STXRIB	112	Poncho 500 + VOTiVO	Y	Y	Y	Y
LG Seeds LG66C32VT2PRIB	116	Poncho 500 + VOTiVO	Y	N	Y	N
Midland 347PR	108	Acceleron	Y	N	Y	N
Midland 349PR	108	Acceleron	Y	N	Y	N
Midland 429PR	110	Acceleron	Y	N	Y	N
Midland 573PR	112	Acceleron	Y	N	Y	N
Midland 649PR	113	Acceleron	Y	N	Y	N
Midland 735PR	115	Acceleron	Y	N	Y	N
Midland 757PR	115	Acceleron	Y	N	Y	N
MorCorn MC 4319 VT2P RIB	113	Acceleron 250	Y	N	Y	N
MorCorn MC 4457 VT2P RIB	114	Acceleron 250	Y	N	Y	N
MorCorn MC 4725 VT2P RIB	117	Acceleron 250	Y	N	Y	N
MorCorn MC 4750 SS RIB	117	Poncho 500 + VOTiVO	Y	Y	Y	Y
NuTech 5NN-8812	112	Cruiser 250 + Lumivia 250	Y	Y	Y	Y
NuTech/G2 5F-713	113	Poncho 500	Y	Y	Y	N
NuTech/G2 5FB-3113	113	Cruiser 250 + Lumivia 250	Y	Y	Y	N
NuTech/G2 5FB-4516	116	Cruiser 250 + Lumivia 250	Y	Y	Y	N
NuTech/G2 5FB-6313	113	Cruiser 250 + Lumivia 250	Y	Y	Y	N
NuTech/G2 5FB-9909	109	Cruiser 250 + Lumivia 250	Y	Y	Y	N
NuTech/G2 5LB-7215	115	Cruiser 250 + Lumivia 250	Y	Y	Y	N
NuTech/G2 E5FN-A213	113	Cruiser 250 + Lumivia 250	Y	Y	Y	N
NuTech/G2 E5FN-A714	114	Cruiser 250 + Lumivia 250	Y	Y	Y	N
Prairie Hybrids 7387	112	Maxim XL + Dynasty	N	N	N	N
Prairie Hybrids 8759	114	Maxim XL + Dynasty	N	N	N	N
ProHarvest 8277 VT2P	112	Acceleron 250	Y	N	Y	N

## Characteristics for corn hybrids (continued)

Hybrid	Maturity <sup>1</sup>	Seed Treatment <sup>2</sup>	Biotechnology traits			
			Herbicide <sup>3</sup>		Insect <sup>4</sup>	
			Gly	Glu	AG	BG
ProHarvest 8312 VT2P	113	Acceleron 250	Y	N	Y	N
ProHarvest 8404 VT2P	115	Acceleron 250	Y	N	Y	N
Syngenta NK0962-3220A	112	Avicta 500	Y	Y	Y	N
Syngenta NK1066-3120	110	Avicta 500	Y	Y	Y	N
Syngenta NK1284-3220	109	Avicta 500	Y	Y	Y	N
Syngenta NK1573-3110	115	Avicta 500	Y	Y	Y	N
Syngenta NK1694-3111	116	Avicta 500	Y	Y	Y	Y
Terral Seed REV 23BHR55	113	Poncho 1250 + VOTiVO + Raxil	Y	Y	Y	Y
Terral Seed REV 24BHR99	114	Poncho 1250 + VOTiVO + Raxil	Y	Y	Y	Y
Terral Seed REV 25BHR26	115	Poncho 1250 + VOTiVO + Raxil	Y	Y	Y	Y
Terral Seed REV 25BHR89	115	Poncho 1250 + VOTiVO + Raxil	Y	Y	Y	Y
Terral Seed REV 27BHR79	117	Poncho 1250 + VOTiVO + Raxil	Y	Y	Y	Y
Terral Seed REV 28BHR18	118	Poncho 1250 + VOTiVO + Raxil	Y	Y	Y	Y
USA 1139	113	Cruiser 250 + Maxim XL	N	N	N	N
USA 1141	114	Cruiser 250 + Maxim XL	N	N	N	N

<sup>1</sup> CRM (Relative Corn Maturity)

<sup>2</sup> Seed treatments were applied by companies to seed entered into the MU Variety Testing Program tests. Purchased seed may contain other seed treatments. See seed company representatives and seed tags for more information.

<sup>3</sup> Several biotechnology traits confer herbicide resistance. “Y” in the “Gly” column means the hybrid is resistant to glyphosate. “Y” in the “Glu” column means the hybrid is resistant to glufosinate. Check seed tags for registered trademarks of specific traits of interest.

<sup>4</sup> Several biotechnology traits confer insect resistance. “Y” in the “AG” column means that the hybrid possess one or more traits that provide resistance to European corn borer and, perhaps, other insects that feed above ground. “Y” in the “BG” column means that the hybrid possess one or more traits that provide resistance to corn rootworm, and perhaps, other insects that feed below ground. Specific traits differ in effectiveness of control of specific insect pests. Check seed tags for registered trademarks of specific traits of interest.

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