CORN

Iowa Crop Performance Tests

2023

Iowa's Official Variety Trials

IOWA STATE UNIVERSITY

College of Agriculture and Life Sciences

A summary of replicated research by Iowa Crop Improvement Association.

Iowa Crop Improvement Association

Iowa Crop Performance Tests—Corn is conducted each year to provide information farmers need to select the best hybrids for their production conditions. This is the 104th consecutive year for the test. Yield trial information, testing procedures, and more can be found at **croptesting.iastate.edu.**

Testing Procedures

Seed companies, Iowa Crop Improvement Association, and Iowa State University are eligible to enter hybrids in the Iowa Crop Performance Tests—Corn. There are three testing districts and five testing sites within each district (Figure 1). Entries were subdivided into experiments based on relative maturity, providing an early-season and full-season test within each district. This year we evaluated over 161 hybrids from 15 companies in more than 220 district-by-hybrid combinations.

Each entry was replicated four times in four-row plots at a planting rate of 34,000 kernels per acre at each location. Row spacing was 30 inches, plot length was 20 feet, and planted row length was 17.4 feet. 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. Yield determinations are based on a 20 foot plot, which includes the planted row plus the alley. This is because area in alleys may contribute to the yield of plants at the ends of planted rows.

Information Layout

Tables 3-5 contain two-year averages of agronomic information from a maximum of five locations each year. Current year district averages are shown in Tables 6-11, and entries are reported in either the early-season or full-season hybrid tests within each district. These tables contain a mean yield, moisture, and adjusted gross value based on all locations within the district. In addition, there are yield estimates based on the western fields and the eastern fields within a district. In these estimates, the location in the center of the district is used in both subcomponents. Each of these tables also contains the single-location yield for each entry. Lodging and more detailed information from the individual locations is available at **croptesting.iastate.edu.**

Least Squares Means

All trait means in all tables were computed using least squares means. In cases where some values are missing, this provides the best estimates of trait values across replications, locations, and years. Least squares means are not equivalent to simple arithmetic means like those computed in a spreadsheet program using raw data or location means. Least squares means should always be used in multiple-comparison tests like the Iowa Crop Performance Tests.

Interpretation of Results

Statistical analysis identifies the portion of yield differences due to variation in soil types, soil fertility, moisture availability, insect infestation, and diseases; plus any variation due to planting and harvesting techniques. The least significant difference (LSD) values for yield represent, in bushels per acre, the amount of yield variation that could be due to variations in the factors just mentioned. In comparing hybrids, yield differences greater than the LSD value can be attributed to differences in the yield potential of these hybrids; yield differences less than the LSD value are not statistically different and could have been due to other factors.

Grain moistures are indications of maturity and natural drying rate. Yield comparisons should be made among hybrids of similar maturity.

Growing conditions vary at each location. Stressful conditions, such as drought, extended periods of high temperature, or excess rainfall may affect some locations more than others. It is important to select hybrids having stable performance over a range of environmental conditions because it is not certain how next year's growing season will develop. High yields for two or more consecutive years indicate stable performance. If two-year means are not available, regional averages consisting of several locations should be used to make selection decisions. Performance data from a single location have a very low predictive probability and should not be relied upon for hybrid selection decisions.

Supplemental yield and agronomic information about specific hybrids may be obtained from seed dealers, crop consultants, and from neighbors who have grown these hybrids.

Use of Data in Advertisements

Specific advertising statements by a company about the performance of its entries must accurately reflect the published data.

Iowa Crop Performance Tests staff pictured below (left to right): Shawn Bryant, Aaron Sassman, Ryan Budnik, & Logan Shonka.

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The presentation of data for the hybrids tested does not imply endorsement by the authors or the agencies conducting the test.

Iowa Crop Performance Tests offers unbiased, third-party information to Iowa growers on the adaptation and performance of corn hybrids and soybean varieties. The latest results are available at **croptesting.iastate.edu.**

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For More Information

- For more information about the *Iowa Crop Performance Tests,* visit **croptesting.iastate.edu.**
- For information about Iowa Crop Improvement Association, visit **iowacrop.org.**
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Test locations for the 2023 Iowa Crop Performance Tests—Corn

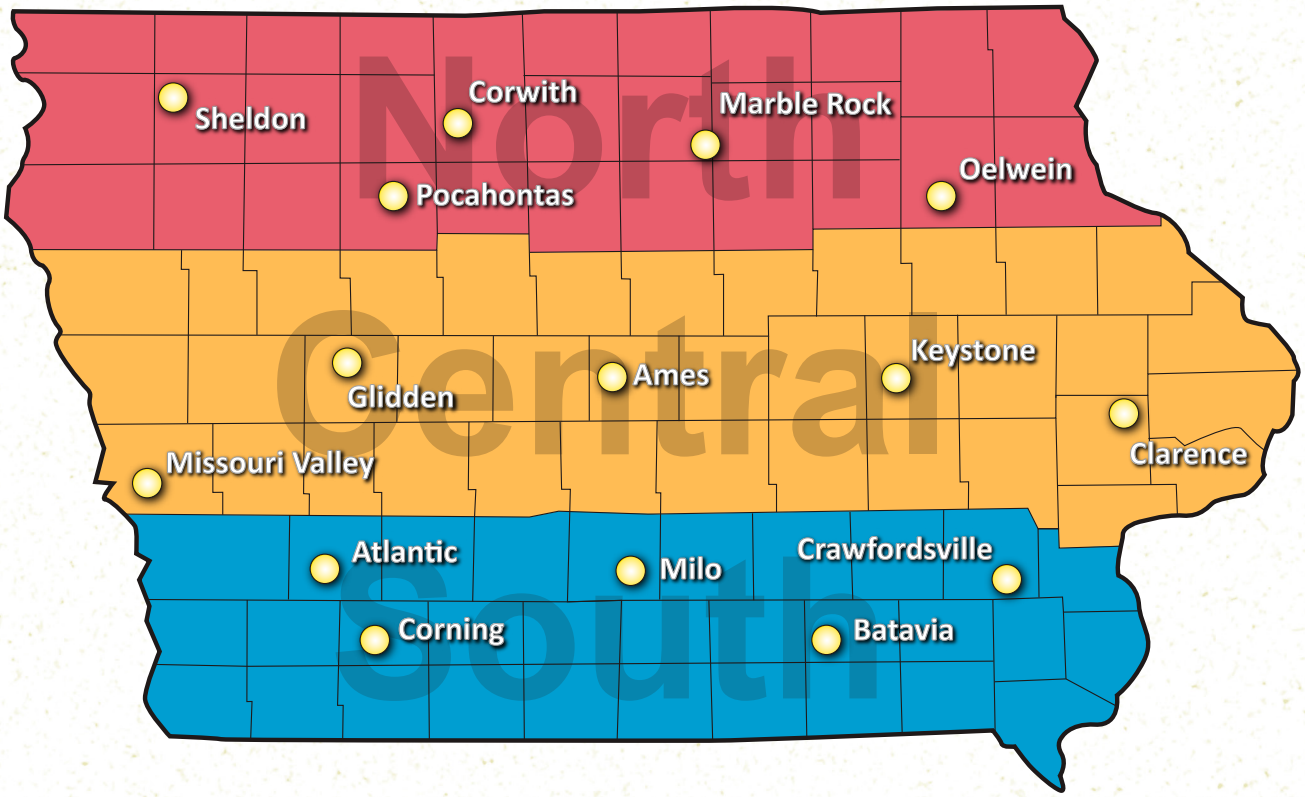

Table 1. General information for the 2023 corn test.

Location and Cooperator	Soil Type	Planting Date	Harvest Date	Avg Yield Bu/Acre
North				
Sheldon, Daryl Roos	Primghar/Galva silty clay loam	8-May	19-Oct	223.2
Pocahontas, John Schott	Nicollet/Webster/Canisteo clay loam	1-May	9-Oct	224.4
Corwith, Norm & Jonathan Chambers	Kossuth silty clay loam, Canisteo/Bode clay loam	1-May	10-Oct	194.6
Marble Rock, Dave Muth	Raddle silt loam, Ostrander/Bolan loam	11-May	26-Sep	177.5
Oelwein, Heath Geiselman	Readlyn silt loam	10-May	2-Oct	246.9
Central				
Missouri Valley, Dean McIntosh	Kennebec silt loam	2-May	25-Sep	210.3
Glidden, David & Andy Theilen	Clarion/Nicollet loam, Beamis moraine	30-Apr	5-Oct	195.7
Ames, Kevin Scholbrock	Canisteo clay loam, Clarion loam, Bemis moraine	19-May	18-Oct	260.6
Keystone, Dennis & Steve Pohlman	Tama/Muscatine silty clay loam	3-May	17-Oct	208.0
Clarence, Dave Elijah	Tama/Muscatine/Garwin silty clay loam	5-May	11-Oct	243.1
South				
Atlantic, Nick Hunt	Marshall/Melia silty clay loam	2-May	29-Sep	247.1
Corning, David Fuller	Winterset silty clay loam	10-May	29-Sep	185.0
Milo, Craig & Adam Hill	Macksburg silty clay loam	27-Apr	3-Oct	284.9
Batavia, Pat Hammes	Grundy/Edina silt loam	28-Apr	25-Sep	228.8
Crawfordsville, Cody Schneider	Mahaska/Taintor silty clay loam	4-May	3-Oct	212.2

Table 2. GMO, Seed treatment, and other data descriptions.

GMO Trait Package

AM	Optimum AQUAMax
DGVT2P	Genuity DroughtGard + VT2P
None	No Seed Treatment
PC	PowerCore
PCE	PowerCore Enlist
Qrome	Qrome
SSX	SmartStax
SSXP	SmartStax Pro
TRC	Trecepta
V3120	Viptera 3120
V5222	Viptera 5222
VT2P	YieldGard VT Double PRO
–RIB	Refuge-in-bag

Herb Tech: Herbicide Technology

None	Conventional
GT	Agrisure Glyphosate
GT, LL	Agrisure Glyphosate + Liberty Link
LL, RR2	Liberty Link + Roundup Ready 2
RR2	Roundup Ready 2

Seed Treatment

A500PV	Acceleron 500/Poncho/VOTiVO
ACL250	Acceleron @ 0.250 mg ai / seed
ACL500	Acceleron @ 0.500 mg ai / seed
ACLE	Acceleron Elite
C250	Cruiser @ 0.250 mg ai / seed
CEP	Cruiser Extreme Pak
LMGN	LumiGEN
MX-QT	Maxim + Quattro
None	No Seed Treatment
P500	Poncho 500
P500V	Poncho 500 + VOTiVO

RM: Relative maturity in days, provided by entrant
Yield: Bushels per acre, standardized at 15.5% moisture
Moist: Harvest moisture, expressed as percent
AGV: Adjusted Gross Value, based on a price per bushel of $4.60 and drying costs of 4 cents per point

This year we evaluated over 161 hybrids from 15 companies in 222 district-by-hybrid combinations.
Entries were distributed in three districts and two experiments per district.
Each experiment was grown at five locations, with four replicates of each entry at each location.

Table 3. North district 2-year means, 2022-2023.

North early-season hybrids, ≈ RM ≤ 103

Company	Hybrid	RM	Trait Pkg	Herb Tech	Yield Bu/A	Moist %	NW Yield Bu/A	NE Yield Bu/A	AGV $
NuTech/G2 Genetics	60A2Q	100	Qrome	LL,RR2	210.7	16.2	209.2	212.2	1,211
Viking	46-02	102	None	None	208.1	15.5	212.0	202.6	1,201
Pioneer	P0220Q	102	Qrome	LL,RR2	204.1	15.5	201.8	204.6	1,177
Renk	RK600VT2P	100	VT2P-RIB	RR2	200.6	14.8	201.8	196.0	1,163
Renk	RK579DGVT2P	99	DGVT2P-RIB	RR2	200.4	14.6	202.6	195.8	1,163
Experiment Mean					**205.6**	**15.4**	**206.0**	**204.2**	
LSD(0.25)					**7.7**	**0.4**	**10.1**	**9.0**	

North full-season hybrids, ≈ RM > 103

Company	Hybrid	RM	Trait Pkg	Herb Tech	Yield Bu/A	Moist %	NW Yield Bu/A	NE Yield Bu/A	AGV $
NuTech/G2 Genetics	66C2Q	106	Qrome	LL,RR2	225.4	18.7	223.5	225.1	1,270
Viking	72-06	106	None	None	224.7	17.7	225.7	219.3	1,276
NuTech/G2 Genetics	68A9AM	108	AM	LL,RR2	224.5	19.4	226.6	215.9	1,259
Viking	85-09	109	None	None	222.3	18.8	218.5	218.6	1,253
Viking	84-05	105	None	None	218.4	17.0	222.1	212.2	1,247
Renk	RK625DGVT2P	104	DGVT2P-RIB	RR2	216.9	16.1	217.7	211.7	1,246
Four Star	6D33	104	VT2P-RIB	RR2	212.4	15.9	215.4	203.6	1,222
Four Star	6D47	109	VT2P-RIB	RR2	211.6	18.3	209.0	207.7	1,197
Cornelius Seed	C6724SS	107	SSX	LL,RR2	211.4	17.6	209.9	207.7	1,201
Experiment Mean					**216.6**	**18.1**	**215.7**	**213.1**	
LSD(0.25)					**8.3**	**0.6**	**10.3**	**9.3**	

Table 4. Central district 2-year means, 2022-2023.

Central early-season hybrids, ≈ RM ≤ 109

Company	Hybrid	RM	Trait Pkg	Herb Tech	Yield Bu/A	Moist %	CW Yield Bu/A	CE Yield Bu/A	AGV $
NuTech/G2 Genetics	68A9AM	108	AM	LL,RR2	230.8	15.9	227.6	245.4	1,328
DuraCrop	3099 VT2P	109	VT2P	RR2	229.7	16.1	221.0	252.6	1,321
Cornelius Seed	C6936SS	109	SSX	LL,RR2	228.8	16.3	223.7	244.1	1,313
NuTech/G2 Genetics	66C2Q	106	Qrome	LL,RR2	222.4	15.6	215.3	235.1	1,283
Cornelius Seed	C6724SS	107	SSX	LL,RR2	220.3	15.2	214.3	235.2	1,274
Prairie Hybrid Seeds	5883/5881	109	None	None	215.2	16.1	214.7	229.8	1,236
Viking	85-09	109	None	None	215.1	16.0	214.5	226.1	1,237
Viking	72-06	106	None	None	212.3	15.0	212.1	223.0	1,229
Four Star	6D47	109	VT2P-RIB	RR2	208.7	15.5	206.2	220.9	1,205
Viking	84-05	105	None	None	206.8	14.9	205.3	220.2	1,198
Prairie Hybrid Seeds	4470	106	None	None	205.9	14.9	204.0	219.9	1,193
Experiment Mean					**218.0**	**15.5**	**213.8**	**231.8**	
LSD(0.25)					**8.7**	**0.4**	**10.5**	**11.9**	

Central full-season hybrids, ≈ RM > 109

Company	Hybrid	RM	Trait Pkg	Herb Tech	Yield Bu/A	Moist %	CW Yield Bu/A	CE Yield Bu/A	AGV $
Cornelius Seed	C7366DGDP	113	DGVT2P	RR2	238.4	17.6	229.5	254.6	1,356
NuTech/G2 Genetics	73A6Q	113	Qrome	LL,RR2	229.5	17.2	220.4	247.2	1,309
NuTech/G2 Genetics	70F6Q	110	Qrome	LL,RR2	229.1	16.4	220.2	245.6	1,314
DuraCrop	3105 GT2X	111	V3120-RIB	GT,LL	227.2	17.6	215.5	249.0	1,292
NuTech/G2 Genetics	74C4AM	114	AM	LL,RR2	225.3	17.2	222.3	238.6	1,285
Four Star	6D59	110	VT2P-RIB	RR2	225.1	17.0	218.7	241.7	1,285
DuraCrop	3143 VT2P	114	VT2P	RR2	224.4	18.4	219.5	239.1	1,268
NuTech/G2 Genetics	74A9AM	114	AM	LL,RR2	223.4	18.6	213.3	239.8	1,261
NuTech/G2 Genetics	72A5Q	112	Qrome	LL,RR2	222.8	16.5	220.3	235.2	1,276
Renk	RK895DGVT2P	113	DGVT2P-RIB	RR2	222.7	17.5	216.6	240.1	1,266
Pioneer	P1185Q	111	Qrome	LL,RR2	220.3	16.9	215.1	234.1	1,258
Prairie Hybrid Seeds	6878	112	None	None	218.6	17.7	215.5	232.0	1,242
NuTech/G2 Genetics	70A8AM	110	AM	LL,RR2	218.2	16.3	209.1	237.6	1,252
Experiment Mean					**223.3**	**17.3**	**215.7**	**240.4**	
LSD(0.25)					**8.7**	**0.4**	**10.1**	**11.4**	

Table 5. South district 2-year means, 2022-2023.

South early-season hybrids, ≈ RM ≤ 112

Company	Hybrid	RM	Trait Pkg	Herb Tech	Yield Bu/A	Moist %	SW Yield Bu/A	SE Yield Bu/A	AGV $
NuTech/G2 Genetics	70F6Q	110	Qrome	LL,RR2	229.3	16.7	229.4	246.9	1,312
NuTech/G2 Genetics	70B4AM	110	AM	LL,RR2	228.3	17.0	230.3	242.7	1,303
DuraCrop	3105 GT2X	111	V3120-RIB	GT,LL	225.7	18.1	222.9	240.1	1,278
DuraCrop	3099 VT2P	109	VT2P	RR2	222.0	16.7	223.6	240.0	1,270
NuTech/G2 Genetics	72A5Q	112	Qrome	LL,RR2	217.6	17.0	220.2	228.9	1,243
NuTech/G2 Genetics	70A8AM	110	AM	LL,RR2	215.9	16.7	211.4	235.3	1,236
Four Star	6D59	110	VT2P-RIB	RR2	214.1	17.1	217.0	226.0	1,221
Pioneer	P1185Q	111	Qrome	LL,RR2	213.4	17.5	215.7	229.7	1,214
Experiment Mean					**219.2**	**17.3**	**220.6**	**234.8**	
LSD(0.25)					**7.6**	**0.4**	**10.7**	**10.0**	

South full-season hybrids, ≈ RM > 112

Company	Hybrid	RM	Trait Pkg	Herb Tech	Yield Bu/A	Moist %	SW Yield Bu/A	SE Yield Bu/A	AGV $
NuTech/G2 Genetics	74A9AM	114	AM	LL,RR2	225.9	20.0	229.1	238.6	1,261
DuraCrop	3143 VT2P	114	VT2P	RR2	225.8	19.0	226.3	241.9	1,270
Renk	RK915VT2P	115	VT2P-RIB	RR2	220.8	18.8	223.4	236.7	1,243
Renk	RK895DGVT2P	113	DGVT2P-RIB	RR2	213.3	17.7	215.5	234.0	1,212
NuTech/G2 Genetics	74C4AM	114	AM	LL,RR2	213.2	18.1	215.8	228.5	1,207
Experiment Mean					**220.0**	**19.0**	**223.0**	**237.0**	
LSD(0.25)					**8.5**	**0.6**	**11.9**	**11.5**	

Table 6. North district, 2023 district and single-location means. Early-season test, RM ≤ 103.

				District Means					Single Location Yield				
Company	Hybrid	Trait Pkg	Herb Tech	Yield Bu/A	NW Yield	NE Yield	Moist %	AGV $	Sheldon	Pocahontas	Corwith	Marble Rock	Oelwein
NuTech/G2 Genetics	60A4AM	AM	LL,RR2	224.2	230.5	220.9	15.3	1,028	235.4	229.2	216.5	180.3	261.6
Latham	LH 5336	PC	None	220.6	218.5	217.2	15.9	1,006	224.3	227.2	201.2	195.0	256.7
NuTech/G2 Genetics	57B5AM	AM	LL,RR2	217.8	227.1	214.7	14.4	1,006	226.9	234.0	217.8	153.8	254.0
NuTech/G2 Genetics	63A5AM	AM	LL,RR2	217.7	217.9	210.5	15.3	998	227.4	226.9	208.8	171.1	252.4
Latham	LH 5377	VT2P	RR2	215.7	224.1	198.9	14.5	996	243.0	227.9	204.7	157.0	244.4
NuTech/G2 Genetics	59C1AM	AM	LL,RR2	215.4	218.3	204.4	14.8	992	230.5	229.5	197.0	170.5	248.3
Cornelius Seed	C5972TRE	TRC	RR2	214.4	223.4	202.8	14.0	994	225.8	239.0	212.5	149.5	244.1
Legacy Seeds	LC512-22	VT2P	RR2	213.4	225.0	201.4	14.6	984	240.7	225.3	199.4	149.9	249.6
Dekalb	DKC101-35VT2PRIB	VT2P-RIB	RR2	213.0	220.9	201.9	14.1	987	226.4	230.6	209.8	160.4	239.2
Four Star	EXP 2305	VT2P-RIB	RR2	212.5	218.4	195.8	14.7	980	228.4	229.7	203.1	161.6	241.0
LG Seeds	LG48C87VT2PRO	VT2P	RR2	212.2	209.6	212.2	14.9	976	203.5	223.6	203.3	172.4	257.3
Renk	RK600VT2P	VT2P-RIB	RR2	212.0	224.8	198.7	14.3	981	231.2	233.1	207.2	151.1	237.3
Legacy Seeds	LC511-21	SSX-RIB	LL,RR2	211.6	219.9	204.7	15.2	971	211.4	232.3	210.0	156.8	245.2
Latham	LH 4866	TRC	RR2	211.3	222.3	198.9	14.1	979	234.9	227.8	206.4	155.0	236.1
NuTech/G2 Genetics	59A1Q	Qrome	LL,RR2	210.5	208.5	205.4	15.2	966	206.0	221.5	200.6	179.9	242.5
Legacy Seeds	LC465-23	PC	LL,RR2	210.5	207.3	207.3	14.6	971	201.5	230.6	187.6	174.9	258.2
Dekalb	DKC103-47SSPRIB	SSXP-RIB	LL,RR2	209.9	208.2	201.7	15.5	961	219.0	220.5	185.1	172.0	250.8
Dekalb	DKC102-28TRERIB	TRC-RIB	RR2	209.7	218.3	196.5	14.6	967	220.0	233.9	200.1	153.1	242.9
Viking	46-02	None	None	209.6	211.8	197.0	14.7	966	222.5	231.3	194.3	153.8	244.5
NuTech/G2 Genetics	60A2Q	Qrome	LL,RR2	209.6	207.3	205.5	15.4	960	212.1	220.1	195.8	172.1	247.3
Legacy Seeds	LC534-23	TRC-RIB	LL,RR2	209.5	219.8	192.0	14.7	965	231.5	232.1	194.0	154.7	237.2
Renk	RK579DGVT2P	DGVT2P-RIB	RR2	209.0	216.1	194.5	14.0	969	230.0	219.5	202.0	163.7	229.0
Dekalb	DKC103-07TRERIB	TRC-RIB	RR2	206.5	215.0	197.0	15.4	946	228.6	229.0	185.3	159.7	233.5
Cornelius Seed	C6204SSP	SSXP	LL,RR2	206.3	216.3	196.3	14.5	952	225.6	222.7	197.8	159.4	229.7
LG Seeds	LG52C42VT2RIB	VT2P-RIB	RR2	205.5	203.5	199.0	15.8	939	219.3	206.1	189.8	161.4	250.2
Renk	RK609VT2P	VT2P-RIB	RR2	205.2	209.1	197.2	14.5	947	227.1	202.2	196.1	163.5	238.4
Dekalb	DKC099-11VT2PRIB	VT2P-RIB	RR2	205.0	210.9	197.4	14.0	950	220.0	219.8	191.8	161.8	229.8
Cornelius Seed	C6384TRE	TRC	RR2	204.3	213.0	189.7	14.2	946	218.9	225.4	188.8	144.4	244.9
Renk	RK571PWE	PC	LL,RR2	204.1	199.5	211.8	14.6	941	193.4	212.3	190.8	169.9	252.8
Four Star	6D17	VT2P-RIB	RR2	203.3	209.1	192.4	13.6	945	221.5	213.0	195.0	153.6	235.5
Renk	RK628VT2P	VT2P	RR2	203.2	209.5	191.9	14.5	938	212.4	219.7	195.8	157.3	230.8
Pioneer	P0075Q	Qrome	LL,RR2	203.1	204.2	197.7	15.4	930	214.1	207.2	188.6	161.3	241.9
Pioneer	P0220Q	Qrome	LL,RR2	202.9	202.6	203.7	15.0	933	207.5	206.8	192.9	174.9	234.9
Four Star	6D19	VT2P-RIB	RR2	202.2	207.7	193.9	14.3	935	222.8	207.9	190.7	158.4	227.7
Blue River	24-01	None	None	199.3	210.4	186.2	15.7	911	218.0	210.8	197.0	142.7	227.0
Blue River	49M23	None	None	198.2	196.6	191.1	16.6	898	203.4	209.3	178.7	146.5	255.5
LG Seeds	LG53C44VT2PRO	VT2P	RR2	197.7	198.5	193.1	15.9	902	203.5	214.0	179.7	165.0	226.5
Experiment Mean				**209.1**	**213.7**	**200.8**	**14.8**	**963**	**220.8**	**222.5**	**197.7**	**161.8**	**242.7**
Minimum Mean				**197.7**	**197.0**	**188.2**	**13.6**	**898**	**193.4**	**202.2**	**178.7**	**142.7**	**226.5**
Maximum Mean				**224.2**	**227.3**	**219.5**	**16.6**	**1028**	**243.0**	**239.0**	**217.8**	**195.0**	**261.6**
LSD(0.25)				**6.9**	**7.2**	**8.4**	**0.4**		**8.6**	**8.4**	**8.6**	**9.4**	**5.9**
Coefficient of Variability				**4.1**	**4.3**	**4.1**			**4.2**	**4.0**	**4.5**	**5.8**	**2.5**

Table 7. North district, 2023 district and single-location means. Full-season test, RM > 103.

				District Means					Single Location Yield				
Company	Hybrid	Trait Pkg	Herb Tech	Yield Bu/A	NW Yield	NE Yield	Moist %	AGV $	Sheldon	Pocahontas	Corwith	Marble Rock	Oelwein
Dekalb	DKC105-35VT2PRIB	VT2P-RIB	RR2	229.7	229.5	218.3	16.2	1,045	235.9	247.8	205.8	196.1	262.1
Cornelius Seed	C6936SS	SSX	LL,RR2	229.6	221.7	229.5	17.7	1,030	225.2	236.8	205.9	207.2	271.4
NuTech/G2 Genetics	68A9AM	AM	LL,RR2	227.5	225.1	219.1	17.8	1,019	242.9	233.1	202.1	199.8	257.1
NuTech/G2 Genetics	68C1Q	Qrome	LL,RR2	227.5	223.3	227.0	17.9	1,019	229.4	235.3	207.9	199.0	266.7
Epley Brothers Hybrids	E1609PWE	PC	RR2	225.5	222.2	226.0	17.2	1,017	241.6	226.2	201.5	216.6	243.1
Latham	LH 5815	VT2P	RR2	225.5	222.2	223.8	18.1	1,008	235.4	222.0	208.5	207.7	256.1
Legacy Seeds	LC544-21	PC	LL,RR2	224.9	221.3	220.5	16.8	1,018	226.1	228.7	209.2	204.8	255.9
Pioneer	P0529Q	Qrome	LL,RR2	224.7	226.1	227.0	17.6	1,009	228.3	226.2	210.9	202.3	257.2
Dyna-Gro	D49VC53RIB	VT2P-RIB	RR2	224.4	222.6	218.9	17.6	1,007	238.3	231.4	195.4	199.1	258.9
NuTech/G2 Genetics	66D1AM	AM	LL,RR2	224.3	215.9	208.2	17.2	1,011	238.5	236.3	188.9	181.4	278.2
LG Seeds	LG58C48VT2PRO	VT2P	RR2	221.6	224.6	218.2	18.3	989	228.3	240.8	190.2	193.7	256.2
Legacy Seeds	LC554-23	SSX	LL,RR2	221.5	218.7	213.3	15.5	1,014	238.1	223.1	195.7	195.9	256.2
Prairie Hybrid Seeds	4470	None	None	220.9	223.5	211.7	16.3	1,004	234.3	232.9	206.5	195.9	231.3
Pioneer	P0924Q	Qrome	LL,RR2	220.3	216.5	212.4	18.0	985	222.2	229.6	199.1	189.5	261.0
Prairie Hybrid Seeds	5883/5881	None	None	219.9	214.9	221.9	18.1	983	224.8	222.3	186.1	197.3	267.5
Viking	84-05	None	None	219.2	221.4	212.9	16.3	996	243.0	222.9	198.5	193.6	244.9
NuTech/G2 Genetics	66C2Q	Qrome	LL,RR2	219.1	210.8	220.5	18.0	980	196.8	234.7	195.2	206.9	259.9
Dekalb	DKC108-64SSPRIB	SSXP-RIB	LL,RR2	219.1	218.0	213.7	17.9	981	227.4	228.7	201.3	193.7	246.0
Viking	85-09	None	None	219.0	210.0	215.9	17.9	980	222.8	219.2	194.3	186.4	268.1
Prairie Hybrid Seeds	3051 Org	None	None	218.7	214.7	214.1	16.6	991	232.4	228.4	184.8	202.6	241.5
Viking	84-04	None	None	218.6	211.3	220.1	16.4	993	224.7	217.8	191.4	204.9	255.6
Renk	RK766SSPRO	SSXP	RR2	218.4	204.9	215.3	17.8	979	194.8	239.5	185.1	204.2	267.4
Renk	RK625DGVT2P	DGVT2P-RIB	RR2	218.4	213.6	214.5	15.4	1,000	221.9	221.8	195.8	197.4	249.1
Dyna-Gro	D44DC73RIB	DGVT2P-RIB	RR2	218.0	219.2	205.9	15.8	995	238.5	226.3	189.7	182.6	253.3
Cornelius Seed	C6724SS	SSX	LL,RR2	217.9	217.5	214.4	16.7	986	210.8	237.8	197.6	192.0	250.8
Viking	72-06	None	None	217.4	218.3	204.3	16.6	986	236.2	230.9	195.9	182.3	244.1
Cornelius Seed	C6472TRE	TRC	LL,RR2	217.1	213.7	210.2	15.4	995	220.3	230.0	194.6	183.8	257.4
Four Star	6D47	VT2P-RIB	RR2	216.3	211.3	208.7	17.0	976	227.3	227.5	186.8	175.8	268.6
Legacy Seeds	LC594-21	VT2P-RIB	RR2	216.0	216.7	216.2	18.1	965	226.5	221.3	195.2	184.3	252.7
Epley Brothers Hybrids	E1530	None	None	214.7	217.0	202.5	16.4	975	228.5	224.4	194.6	184.8	242.8
Renk	RK773TRE	TRC	RR2	214.0	207.8	210.1	18.4	954	214.5	228.1	181.6	184.1	264.1
Renk	RK707TRE	TRC	RR2	213.8	215.1	197.3	15.4	979	242.0	224.2	185.4	176.9	237.8
Dekalb	DKC57-45VT2PRIB	VT2P-RIB	RR2	213.3	211.1	209.6	16.9	964	220.1	213.0	196.9	193.6	243.4
Legacy Seeds	LC554-21	SSX	LL,RR2	213.2	209.7	206.3	16.7	965	233.8	219.9	182.4	187.9	242.1
Four Star	6D33	VT2P-RIB	RR2	213.0	215.9	199.0	14.9	980	237.4	223.0	187.0	173.6	242.5
Four Star	EXP 2302	TRC	RR2	212.0	213.6	202.3	16.2	964	230.3	226.8	189.0	190.5	226.4
Latham	LH 5668	SSXP-RIB	LL,RR2	210.7	215.7	201.2	17.2	949	223.1	217.6	198.7	171.9	240.1
Cornelius Seed	C6824PCE	PCE	LL,RR2	209.5	200.5	203.7	18.5	933	209.9	219.5	176.5	188.8	253.5
NuTech/G2 Genetics	65D3Q	Qrome	LL,RR2	208.8	203.5	207.1	17.7	936	209.8	217.1	179.5	184.5	247.9
Cornelius Seed	C6847TRE	TRC	RR2	208.2	201.3	204.1	17.7	935	210.8	229.5	167.7	165.3	267.9
Renk	RK720TRE	TRC-RIB	RR2	207.8	209.9	189.3	15.8	949	235.3	230.2	182.4	165.4	228.3
Cornelius Seed	C6645PCE	PCE	LL,RR2	203.4	207.5	200.0	17.6	914	208.6	218.9	184.1	181.4	225.2
Prairie Hybrid Seeds	5851 Org	None	None	202.3	206.4	190.6	18.0	905	216.6	221.1	184.0	160.0	232.6
Renk	RK703PWE	PC	RR2	200.8	199.8	187.1	17.6	902	223.7	209.2	168.4	182.5	220.5
Latham	LH 5556	PC	None	200.2	199.9	192.8	17.2	903	217.2	208.4	174.7	175.0	226.9
Prairie Hybrid Seeds	5142/5141	None	None	198.9	187.7	202.0	17.9	890	179.9	201.9	182.4	197.4	232.5
Experiment Mean				**216.6**	**214.3**	**210.8**	**17.1**	**977**	**225.1**	**225.9**	**192.1**	**190.0**	**250.3**
Minimum Mean				**198.9**	**188.2**	**191.4**	**14.9**	**890**	**179.9**	**201.9**	**167.7**	**160.0**	**220.5**
Maximum Mean				**229.7**	**229.4**	**228.2**	**18.5**	**1045**	**243.0**	**247.8**	**210.9**	**216.6**	**278.2**
LSD(0.25)				**7.4**	**8.5**	**9.4**	**0.6**		**8.6**	**7.8**	**9.3**	**17.9**	**9.8**
Coefficient of Variability				**5.6**	**4.2**	**6.6**			**4.0**	**3.7**	**5.0**	**9.9**	**4.3**

Table 8. Central district, 2023 district and single-location means. Early-season test, RM ≤ 109.

				District Means					Single Location Yield				
Company	Hybrid	Trait Pkg	Herb Tech	Yield Bu/A	NW Yield	NE Yield	Moist %	AGV $	Missouri Valley	Glidden	Ames	Keystone	Clarence
DuraCrop	3099 VT2P	VT2P	RR2	235.7	228.3	256.0	16.9	1,065	206.4	198.0	295.8	219.4	261.0
Pioneer	P0924Q	Qrome	LL,RR2	235.3	231.4	252.7	16.3	1,069	216.8	199.9	279.8	231.8	247.4
Renk	RK773TRE	TRC	RR2	235.2	235.2	251.2	16.4	1,068	213.9	212.3	277.6	222.0	247.3
Latham	LH 5668	SSXP-RIB	LL,RR2	234.1	224.2	254.7	16.4	1,062	202.5	206.6	269.4	252.4	245.9
Dekalb	DKC108-64SSPRIB	SSXP-RIB	LL,RR2	232.8	227.8	244.8	16.6	1,055	217.6	212.4	257.3	234.6	244.3
Dekalb	DKC105-35VT2PRIB	VT2P-RIB	RR2	232.0	234.3	240.9	15.6	1,061	218.5	220.1	268.3	207.8	251.9
Cornelius Seed	C6936SS	SSX	LL,RR2	231.0	229.4	246.3	16.9	1,044	201.7	212.0	275.2	207.5	257.9
Renk	RK766SSPRO	SSXP	RR2	230.8	231.3	244.5	16.1	1,051	189.5	222.8	268.8	206.0	264.2
Pioneer	P0529Q	Qrome	LL,RR2	229.6	229.9	245.8	16.1	1,046	214.8	207.3	273.4	214.3	246.6
Cornelius Seed	C6847TRE	TRC	RR2	228.5	228.6	244.8	16.6	1,035	207.4	212.3	261.8	209.7	250.6
Four Star	EXP 2303	VT2P-RIB	RR2	228.3	217.0	243.0	17.6	1,026	195.1	214.4	246.1	223.4	261.7
Latham	LH 5815	VT2P	RR2	227.9	225.3	248.9	16.9	1,030	198.6	198.9	279.6	209.2	252.4
NuTech/G2 Genetics	68A9AM	AM	LL,RR2	226.9	234.1	239.5	16.4	1,031	217.8	204.0	281.0	198.0	242.1
Dekalb	DKC57-45VT2PRIB	VT2P-RIB	RR2	226.8	223.3	242.4	16.2	1,032	191.1	218.7	270.3	229.4	227.4
NuTech/G2 Genetics	68C1Q	Qrome	LL,RR2	225.0	218.4	241.4	15.8	1,028	206.9	195.3	252.4	219.5	248.6
Cornelius Seed	C6724SS	SSX	LL,RR2	224.7	217.2	243.8	15.7	1,027	195.8	197.0	257.9	221.5	254.1
NuTech/G2 Genetics	66D1AM	AM	LL,RR2	224.0	224.1	237.3	15.5	1,025	211.4	194.3	267.8	197.8	248.1
Renk	RK703PWE	PC	RR2	223.4	223.8	239.4	15.9	1,019	213.3	198.0	257.4	205.9	238.9
DuraCrop	3085 PCE	VT2P	RR2	222.9	223.6	234.8	16.8	1,008	202.2	204.5	257.8	199.8	245.4
Cornelius Seed	C6639DP	VT2P	RR2	221.6	226.3	232.6	15.8	1,011	208.2	205.1	255.3	196.4	238.7
NuTech/G2 Genetics	66C2Q	Qrome	LL,RR2	221.1	223.8	229.4	16.2	1,006	210.3	211.3	249.6	201.2	238.8
Prairie Hybrid Seeds	5851 Org	None	None	219.1	215.1	233.9	16.6	993	198.9	191.6	252.9	196.0	256.0
Four Star	EXP 2302	TRC	RR2	219.1	215.8	233.2	15.9	1,000	190.1	204.5	253.8	210.0	240.0
Latham	LH 5646	PC	None	218.9	221.7	231.8	16.0	998	196.1	198.8	261.2	188.8	248.6
Cornelius Seed	C6824PCE	PCE	LL,RR2	217.9	214.7	231.3	16.9	985	205.5	186.9	258.1	198.9	238.2
Latham	LH 5556	PC	None	217.7	223.2	222.6	16.0	992	217.1	206.2	248.2	193.1	228.4
Renk	RK707TRE	TRC	RR2	215.0	214.2	231.7	15.0	988	198.0	186.6	253.3	188.9	244.9
NuTech/G2 Genetics	65D3Q	Qrome	LL,RR2	214.4	219.0	222.4	15.9	978	202.1	212.7	245.3	193.4	216.9
Viking	85-09	None	None	213.9	224.4	224.1	16.8	967	210.5	198.3	258.4	168.8	233.2
LG Seeds	LG53C44VT2	VT2P	RR2	213.1	218.6	218.7	15.9	972	196.0	211.6	239.8	188.1	224.7
Four Star	6D47	VT2P-RIB	RR2	213.0	216.0	219.8	16.4	967	198.3	205.9	248.9	182.2	233.0
Viking	84-05	None	None	208.1	213.2	219.0	15.6	951	193.1	205.4	244.5	144.5	246.8
Renk	RK720TRE	TRC-RIB	RR2	207.3	206.5	217.0	15.4	949	205.7	178.8	236.8	177.3	240.8
Viking	72-06	None	None	206.3	212.1	211.9	15.6	943	190.3	197.8	259.1	154.4	229.0
Prairie Hybrid Seeds	5883/5881	None	None	205.3	217.0	218.5	16.9	928	177.1	189.9	268.2	152.6	238.4
DuraCrop	3059VT2P	VT2P	RR2	197.4	195.7	209.3	16.2	898	181.0	180.7	224.6	172.9	227.5
Epley Brothers Hybrids	E1403VT2P	VT2P	RR2	195.2	190.4	207.4	14.7	900	172.9	178.9	221.1	162.2	241.8
Prairie Hybrid Seeds	4470	None	None	194.0	201.1	208.7	15.8	886	151.5	195.0	249.2	143.1	227.3
Experiment Mean				**220.4**	**220.4**	**233.0**	**16.2**	**1002**	**200.6**	**202.0**	**258.6**	**198.0**	**242.9**
Minimum Mean				**194.0**	**190.9**	**207.3**	**14.7**	**886**	**151.5**	**178.8**	**221.1**	**143.1**	**216.9**
Maximum Mean				**235.7**	**236.1**	**258.0**	**17.6**	**1069**	**218.5**	**222.8**	**295.8**	**252.4**	**264.2**
LSD(0.25)				**9.4**	**10.2**	**13.6**	**0.4**		**12.3**	**12.1**	**11.5**	**11.4**	**9.7**
Coefficient of Variability				**5.8**	**5.9**	**5.2**			**6.8**	**6.5**	**4.5**	**6.3**	**4.4**

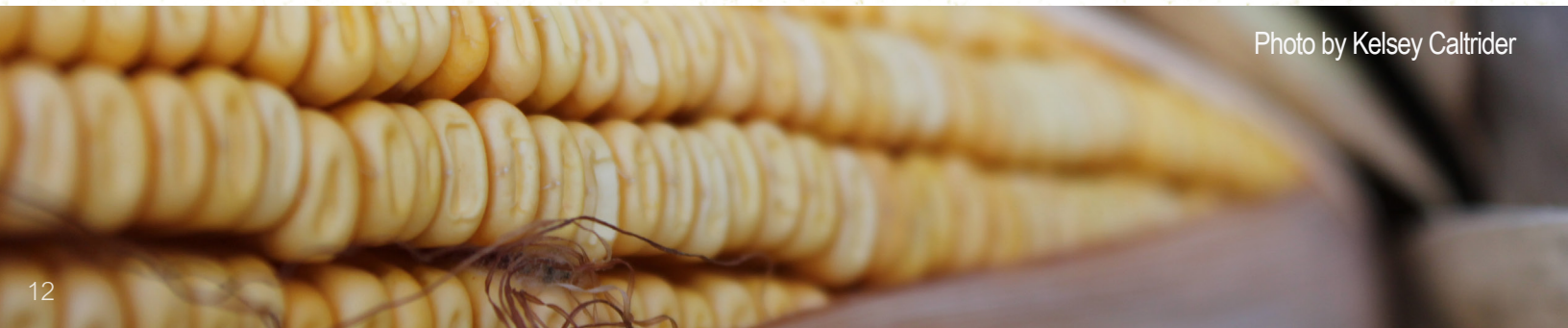

Photo by Kelsey Caltrider

Table 9. Central district, 2023 district and single-location means. Full-season test, RM > 109.

				District Means					Single Location Yield				
Company	Hybrid	Trait Pkg	Herb Tech	Yield Bu/A	NW Yield	NE Yield	Moist %	AGV $	Missouri Valley	Glidden	Ames	Keystone	Clarence
Cornelius Seed	C7366DGDP	DGVT2P	RR2	243.5	236.9	256.8	17.8	1,092	237.8	206.4	271.4	244.0	256.1
Renk	RK876VT2P	VT2P	RR2	237.3	231.0	250.3	18.2	1,060	223.8	199.7	257.2	241.7	262.5
NuTech/G2 Genetics	70F6Q	Qrome	LL,RR2	236.7	240.7	247.1	16.6	1,073	238.5	210.6	265.0	214.5	262.0
Dekalb	DKC110-10SSRIB	SSX-RIB	LL,RR2	235.1	234.4	244.6	17.1	1,061	239.4	196.7	270.2	218.0	254.9
Dyna-Gro	D53VC54RIB	VT2P-RIB	RR2	234.2	227.7	251.1	18.6	1,041	220.2	195.0	269.1	231.3	260.3
Prairie Hybrid Seeds	8864	None	None	234.0	240.0	243.5	17.8	1,049	227.9	193.1	302.4	203.1	241.9
Four Star	6D72	VT2P-RIB	RR2	233.7	219.5	254.2	18.4	1,042	205.0	190.0	267.8	235.0	267.1
DuraCrop	3143 VT2P	VT2P	RR2	233.7	226.3	248.3	18.4	1,042	222.8	202.6	260.5	234.9	249.0
LG Seeds	LG61C34STXRIB	SSX-RIB	LL,RR2	233.6	223.0	249.5	17.7	1,048	225.2	190.5	250.4	240.0	263.7
LG Seeds	LG62C22VT2RIB	VT2P-RIB	RR2	231.4	230.3	255.5	18.1	1,034	210.4	182.6	286.7	228.1	247.1
NuTech/G2 Genetics	73A6Q	Qrome	LL,RR2	231.2	230.9	251.3	17.2	1,042	223.4	184.0	275.1	228.9	247.6
Four Star	6D64	TRC	RR2	231.1	230.1	247.0	17.6	1,037	229.6	199.5	266.9	209.1	253.4
Latham	LH 6445	VT2P	GT	230.3	223.6	258.8	18.5	1,026	205.3	193.0	268.3	228.4	257.5
Cornelius Seed	C7235PCE	PCE	LL,RR2	229.8	230.1	247.7	17.3	1,035	220.2	200.6	262.6	219.3	248.9
NuTech/G2 Genetics	72D4Q	Qrome	LL,RR2	229.6	230.4	247.1	17.4	1,033	231.5	187.0	277.7	209.0	250.6
Latham	LH 6009	SSX	LL,RR2	229.6	225.8	244.7	17.2	1,035	213.9	192.5	263.0	228.3	250.8
Renk	RK882TRE	TRC-RIB	RR2	229.5	229.1	240.8	17.7	1,030	217.3	208.4	267.8	226.6	223.9
DuraCrop	3111 PCE	VT2P	RR2	229.1	220.7	251.9	17.3	1,031	217.6	187.0	269.6	218.0	255.8
Dyna-Gro	D50VC09RIB	VT2P-RIB	RR2	228.8	228.2	241.7	16.3	1,040	219.7	200.3	261.5	215.6	242.3
LG Seeds	LG64C43VT2PRO	VT2P	RR2	228.2	220.4	236.3	19.4	1,007	208.5	196.0	258.3	223.8	246.4
Renk	RK895DGVT2P	DGVT2P-RIB	RR2	228.1	228.3	244.0	17.9	1,022	229.4	187.8	272.3	216.2	234.7
Four Star	6D59	VT2P-RIB	RR2	227.9	232.7	239.0	17.4	1,026	225.4	199.4	268.3	199.1	251.0
DuraCrop	3105 GT2X	V3120-RIB	GT,LL	227.9	222.7	249.7	17.7	1,022	205.2	194.0	265.1	218.5	256.4
Cornelius Seed	C7202SSP	SSXP	LL,RR2	227.8	218.0	242.3	18.0	1,019	210.9	205.6	235.7	235.0	248.7
NuTech/G2 Genetics	72A5Q	Qrome	LL,RR2	227.7	230.8	237.3	16.8	1,030	226.6	198.9	265.6	219.8	226.5
NuTech/G2 Genetics	71A2AM	AM	LL,RR2	227.2	229.3	240.9	17.1	1,025	233.1	188.0	273.9	202.8	240.1
Cornelius Seed	C7448PCE	PCE	LL,RR2	227.2	227.3	233.7	18.2	1,015	223.9	195.4	266.5	198.2	250.7
Pioneer	P1185Q	Qrome	LL,RR2	225.4	227.1	234.1	17.4	1,014	228.1	196.8	257.7	227.3	215.4
DuraCrop	3141 VT2P	VT2P	RR2	225.1	219.3	242.4	17.7	1,009	204.0	187.8	254.8	216.3	255.9
Latham	LH 6155	VT2P-RIB	GT	224.7	220.7	241.6	17.3	1,012	209.9	185.9	262.5	228.4	242.6
DuraCrop	3123 VT2PV	TRC	GT,LL	224.6	227.8	240.1	17.1	1,013	221.5	184.3	263.3	218.9	231.8
NuTech/G2 Genetics	73A4AM	AM	LL,RR2	223.4	223.3	231.4	18.2	997	214.1	186.3	282.7	217.1	218.0
Renk	RK811PWE	PC	RR2	222.3	215.9	248.2	17.1	1,003	190.3	177.5	271.2	217.3	251.4
Dyna-Gro	D53TC23RIB	TRC-RIB	RR2	222.3	215.1	238.7	17.0	1,004	209.7	188.0	245.4	234.6	234.8
Dekalb	DKC110-41TRERIB	TRC-RIB	RR2	222.2	210.2	238.8	17.2	1,002	207.6	182.7	237.8	220.5	262.1
Prairie Hybrid Seeds	7461 Org	None	None	222.0	225.1	236.9	17.7	996	217.7	179.6	275.5	202.1	237.6
NuTech/G2 Genetics	74C4AM	AM	LL,RR2	221.5	227.6	237.0	17.4	996	209.4	198.1	270.8	206.0	224.9
Latham	LH 6097	VT2P-RIB	RR2	221.3	213.2	236.1	17.5	994	224.0	184.6	239.7	207.0	250.7
NuTech/G2 Genetics	74A9AM	AM	LL,RR2	220.4	215.9	238.6	18.5	981	203.7	190.8	243.5	229.0	236.9
Four Star	EXP 2304	VT2P-RIB	RR2	219.9	213.8	233.3	16.9	994	237.8	177.2	233.3	214.4	242.4
LG Seeds	LG59C72-5222	V5222	GT,LL	218.8	212.4	226.9	17.0	988	211.8	187.4	240.0	215.0	240.4
Pioneer	P1093Q	Qrome	LL,RR2	218.7	229.2	220.6	17.1	987	247.3	185.4	263.2	196.4	200.5
Prairie Hybrid Seeds	6878	None	None	217.4	228.9	231.6	18.0	973	213.9	193.3	258.1	172.0	242.8
LG Seeds	LG60C86-5222	V5222	GT,LL	216.4	211.1	233.4	17.7	971	213.1	182.1	245.7	192.4	250.3
Latham	LH 6306	PC	None	215.7	217.1	235.1	18.1	964	213.0	176.0	262.9	212.9	214.1
NuTech/G2 Genetics	70A8AM	AM	LL,RR2	214.6	217.6	231.0	16.7	972	211.6	171.7	248.2	209.1	228.0
Epley Brothers Hybrids	E1920	None	None	208.5	212.5	230.4	17.2	940	179.9	188.4	261.4	171.5	235.0
Blue River	64K93	None	None	201.0	205.1	208.7	17.7	901	202.4	165.0	249.8	166.6	214.7
Experiment Mean				**226.0**	**223.6**	**240.6**	**17.6**	**1015**	**218.0**	**190.7**	**262.2**	**215.9**	**243.3**
Minimum Mean				**201.0**	**206.7**	**211.6**	**16.3**	**901**	**179.9**	**165.0**	**233.3**	**166.6**	**200.5**
Maximum Mean				**243.5**	**241.7**	**257.2**	**19.4**	**1092**	**247.3**	**210.6**	**302.4**	**244.0**	**267.1**
LSD(0.25)				**9.2**	**10.1**	**13.5**	**0.4**		**13.8**	**13.3**	**13.2**	**13.2**	**10.9**
Coefficient of Variability				**6.4**	**6.8**	**5.8**			**6.6**	**7.8**	**5.7**	**6.3**	**4.9**

Table 10. South district, 2023 district and single-location means. Early-season test, RM ≤ 112.

				District Means					Single Location Yield				
Company	Hybrid	Trait Pkg	Herb Tech	Yield Bu/A	SW Yield	SE Yield	Moist %	AGV $	Atlantic	Corning	Milo	Batavia	Crawford-sville
DuraCrop	3123 VT2PV	TRC	GT,LL	249.3	254.8	261.4	17.9	1,117	239.1	222.8	290.7	255.8	236.8
NuTech/G2 Genetics	70F6Q	Qrome	LL,RR2	243.7	249.1	258.4	17.4	1,096	237.6	210.1	304.0	230.7	236.1
Dekalb	DKC110-41TRERIB	TRC-RIB	RR2	242.6	245.9	254.7	17.8	1,087	249.0	204.2	285.2	244.6	231.2
Cornelius Seed	C7235PCE	PCE	LL,RR2	238.4	242.1	255.0	17.9	1,067	234.7	190.4	299.2	228.6	236.8
Renk	RK811PWE	PC	RR2	237.8	244.3	250.4	18.5	1,059	246.5	189.6	297.2	225.8	231.5
Cornelius Seed	C7202SSP	SSXP	LL,RR2	237.5	242.7	245.8	19.5	1,047	251.1	195.7	274.4	252.4	217.0
LG Seeds	LG61C34STXRIB	SSX-RIB	LL,RR2	237.5	245.7	243.4	18.4	1,058	248.5	207.5	278.7	231.3	218.3
DuraCrop	3099 VT2P	VT2P	RR2	237.1	240.0	249.7	17.4	1,066	245.2	193.2	280.9	242.3	223.2
NuTech/G2 Genetics	70B4AM	AM	LL,RR2	236.1	245.7	245.1	17.4	1,062	246.7	198.3	293.6	226.5	217.3
DuraCrop	3111 PCE	VT2P	RR2	235.3	236.5	251.7	18.1	1,051	226.5	198.3	295.1	234.3	228.0
NuTech/G2 Genetics	71A2AM	AM	LL,RR2	235.2	247.9	249.5	17.9	1,054	246.1	181.0	311.4	214.8	219.6
Dekalb	DKC110-10SSRIB	SSX-RIB	LL,RR2	235.2	239.8	244.3	17.9	1,053	243.7	202.6	273.2	234.4	223.6
DuraCrop	3105 GT2X	V3120-RIB	GT,LL	233.7	236.6	245.1	18.4	1,042	240.6	192.9	276.1	237.8	221.3
Four Star	EXP 2304	VT2P-RIB	RR2	233.4	233.8	245.9	17.5	1,049	233.4	196.1	273.2	235.0	231.1
Latham	LH 6097	VT2P-RIB	RR2	233.2	236.9	240.0	17.7	1,046	246.3	191.1	284.5	228.7	214.4
Four Star	6D59	VT2P-RIB	RR2	231.0	239.3	240.8	17.8	1,035	240.6	192.6	278.2	231.5	208.8
NuTech/G2 Genetics	70A8AM	AM	LL,RR2	230.2	230.3	246.8	17.2	1,038	245.4	162.6	290.3	233.4	220.7
Epley Brothers Hybrids	E2120	None	None	230.1	241.7	241.1	17.2	1,037	244.4	180.1	283.0	226.6	212.4
Renk	RK882TRE	TRC-RIB	RR2	229.9	243.8	235.3	18.6	1,023	253.6	197.1	273.2	218.5	209.9
Latham	LH 6155	VT2P-RIB	GT	228.9	230.1	238.8	18.0	1,024	239.8	186.4	268.3	232.8	217.8
NuTech/G2 Genetics	72A5Q	Qrome	LL,RR2	227.7	239.2	238.1	17.7	1,021	249.2	179.2	283.2	216.8	205.3
Four Star	6D64	TRC	RR2	226.7	234.3	237.8	18.3	1,011	240.5	192.4	268.0	220.3	215.0
LG Seeds	LG60C86-5222	V5222	GT,LL	224.0	223.8	238.9	18.9	993	224.1	178.6	268.8	232.1	218.4
Pioneer	P1185Q	Qrome	LL,RR2	218.5	229.4	236.3	18.0	977	242.2	154.3	284.6	217.6	190.1
Pioneer	P1093Q	Qrome	LL,RR2	213.4	221.1	228.3	17.9	956	229.7	152.0	282.2	211.5	191.9
Experiment Mean				**233.1**	**238.5**	**244.5**	**18.0**	**1043**	**241.8**	**190.0**	**283.9**	**230.6**	**219.1**
Minimum Mean				**213.4**	**221.2**	**228.1**	**17.2**	**956**	**224.1**	**152.0**	**268.0**	**211.5**	**190.1**
Maximum Mean				**249.3**	**251.0**	**261.7**	**19.5**	**1117**	**253.6**	**222.8**	**311.4**	**255.8**	**236.8**
LSD(0.25)				**7.5**	**11.1**	**9.5**	**0.4**		**10.9**	**5.5**	**8.1**	**7.2**	**5.8**
Coefficient of Variability				**3.9**	**4.2**	**3.3**			**5.3**	**2.9**	**3.0**	**3.7**	**3.1**

Table 11. South district, 2023 district and single-location means. Full-season test, RM > 112.

				District Means					Single Location Yield				
Company	Hybrid	Trait Pkg	Herb Tech	Yield Bu/A	SW Yield	SE Yield	Moist %	AGV $	Atlantic	Corning	Milo	Batavia	Crawford-sville
Dekalb	DKC66-06TRERIB	TRC-RIB	RR2	242.5	249.5	258.3	20.8	1,055	267.6	191.1	287.9	255.4	210.3
Renk	RK958VT2P	VT2P-RIB	RR2	241.1	248.7	250.9	19.9	1,059	250.7	205.5	285.4	237.2	225.0
DuraCrop	3143 VT2P	VT2P	RR2	240.7	248.8	248.4	19.7	1,059	259.6	194.1	295.5	238.7	212.1
Four Star	6D72	VT2P-RIB	RR2	240.6	244.6	256.2	19.7	1,059	236.8	197.4	299.7	238.0	229.0
Dyna-Gro	D53VC54RIB	VT2P-RIB	RR2	240.5	256.1	238.8	20.1	1,053	273.3	202.6	281.6	223.5	222.7
Renk	RK876VT2P	VT2P	RR2	238.6	244.1	253.7	19.6	1,051	246.1	192.7	292.9	240.1	223.8
Latham	LH 6445	VT2P	GT	238.2	246.6	247.8	19.5	1,050	247.5	204.5	290.6	231.3	215.5
Dekalb	DKC115-33SSPRIB	SSXP-RIB	LL,RR2	238.1	244.2	247.0	19.1	1,053	255.7	194.7	286.4	234.3	213.5
Cornelius Seed	C7366DGDP	DGVT2P	RR2	237.8	250.9	244.1	18.9	1,055	271.9	187.3	289.1	222.9	218.2
DuraCrop	3152 VT2P	VT2P	RR2	237.4	246.0	245.7	21.0	1,031	256.1	196.7	283.0	235.2	212.9
Cornelius Seed	C7590DP	VT2P	RR2	237.4	246.8	239.3	19.6	1,045	263.4	206.4	277.2	225.9	216.9
Dekalb	DKC117-78VT2PRIB	TRC-RIB	RR2	235.4	245.0	243.3	19.9	1,033	260.7	186.7	283.2	246.5	207.4
Dyna-Gro	D56TC44RIB	TRC-RIB	RR2	233.9	242.4	241.0	20.0	1,026	244.2	199.9	276.7	242.7	207.2
LG Seeds	LG64C43VT2PRO	VT2P	RR2	233.7	238.2	245.8	20.1	1,024	244.0	190.7	281.2	237.7	209.8
LG Seeds	LG66C06VT2RIB	VT2P-RIB	RR2	233.6	237.5	253.6	22.1	1,002	243.8	177.4	282.2	229.8	238.0
NuTech/G2 Genetics	74A9AM	AM	LL,RR2	230.0	237.5	239.1	20.4	1,005	256.5	172.6	289.7	223.2	204.3
Renk	RK895DGVT2P	DGVT2P-RIB	RR2	229.6	238.4	237.9	18.8	1,019	249.3	188.9	277.9	225.4	208.0
Prairie Hybrid Seeds	8864	None	None	228.2	238.1	237.3	19.1	1,010	254.1	168.6	294.6	238.7	189.9
Renk	RK915VT2P	VT2P-RIB	RR2	227.5	234.8	236.1	19.4	1,004	240.4	190.2	270.2	228.5	207.1
Dekalb	DKC113-83TRERIB	TRC-RIB	RR2	225.5	229.1	238.4	18.5	1,003	235.4	175.0	282.8	237.5	200.7
DuraCrop	3141 VT2P	VT2P	RR2	223.8	240.7	231.2	19.6	986	269.8	157.2	295.5	212.9	184.0
Pioneer	P1563Q	Qrome	LL,RR2	221.4	225.4	228.8	20.4	967	238.3	173.8	276.5	218.7	204.1
NuTech/G2 Genetics	74C4AM	AM	LL,RR2	219.0	232.8	229.6	18.6	974	261.6	148.3	283.0	211.6	186.5
Pioneer	P1366Q	Qrome	LL,RR2	216.5	228.5	228.4	18.3	966	234.5	161.4	288.0	207.9	192.4
Latham	LH 6306	PC	None	215.5	229.1	226.0	19.4	951	243.9	152.5	288.6	208.3	183.2
Cornelius Seed	C7448PCE	PCE	LL,RR2	215.1	230.7	226.5	19.5	948	241.0	156.4	289.7	208.3	180.3
NuTech/G2 Genetics	75C1AM	AM	LL,RR2	214.7	233.6	222.8	19.6	946	258.2	150.2	279.0	201.3	190.6
NuTech/G2 Genetics	73A4AM	AM	LL,RR2	211.9	227.1	225.6	19.5	934	249.4	135.1	292.7	199.9	178.0
Experiment Mean				**230.3**	**239.3**	**239.7**	**19.7**	**1013**	**251.9**	**180.6**	**285.7**	**227.2**	**206.1**
Minimum Mean				**211.9**	**226.8**	**222.9**	**18.3**	**934**	**234.5**	**135.1**	**270.2**	**199.9**	**178.0**
Maximum Mean				**242.5**	**252.6**	**255.5**	**22.1**	**1059**	**273.3**	**206.4**	**299.7**	**255.4**	**238.0**
LSD(0.25)				**8.7**	**13.1**	**10.5**	**0.5**		**14.8**	**7.0**	**7.6**	**8.2**	**7.6**
Coefficient of Variability				**4.7**	**5.1**	**3.4**			**7.0**	**4.0**	**2.8**	**3.5**	**4.0**

Table 12. Entrant Information.

Blue River: Albert Lea Seed House, Albert Lea, MN — www.alseed.com — (800) 352-5247

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
24-01	101	None	Conv	C250	X					
49M23	103	None	Conv	C250	X					
64K93	111	None	Conv	C250				X		

Cornelius Seed: Cornelius Seed, Bellevue, IA — www.corneliusseed.com — (800) 218-1862

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
C5972TRE	99	TRC	RR2	C250	X					
C6204SSP	102	SSXP	LL, RR2	A500PV	X					
C6384TRE	103	TRC	RR2	A500PV	X					
C6472TRE	104	TRC	LL, RR2	A500PV		X				
C6639DP	106	VT2P	RR2	A500PV			X			
C6645PCE	106	PCE	LL, RR2	A500PV		X				
C6724SS	107	SSX	LL, RR2	C250		X	X			
C6824PCE	108	PCE	LL, RR2	C250		X	X			
C6847TRE	108	TRC	RR2	A500PV		X	X			
C6936SS	109	SSX	LL, RR2	C250		X	X			
C7202SSP	112	SSXP	LL, RR2	C250				X	X	
C7235PCE	112	PCE	LL, RR2	A500PV				X	X	
C7366DGDP	113	DGVT2P	RR2	C250				X		X
C7448PCE	114	PCE	LL, RR2	A500PV				X		X
C7590DP	115	VT2P	RR2	C250						X

DEKALB: Bayer Crop Science, St. Louis, MO — www.dekalbasgrowdeltapine.com — (800) 768-6387

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
DKC099-11VT2PRIB	99	VT2P-RIB	RR2	ACLE	X					
DKC101-35VT2PRIB	101	VT2P-RIB	RR2	ACLE	X					
DKC102-28TRERIB	102	TRC-RIB	RR2	ACLE	X					
DKC103-07TRERIB	103	TRC-RIB	RR2	ACLE	X					
DKC103-47SSPRIB	103	SSXP-RIB	LL, RR2	ACLE	X					
DKC105-35VT2PRIB	105	VT2P-RIB	RR2	ACLE		X	X			
DKC108-64SSPRIB	108	SSXP-RIB	LL, RR2	ACLE		X	X			
DKC110-10SSRIB	110	SSX-RIB	LL, RR2	ACLE				X	X	
DKC110-41TRERIB	110	TRC-RIB	RR2	ACLE				X	X	
DKC113-83TRERIB	113	TRC-RIB	RR2	ACLE						X
DKC115-33SSPRIB	115	SSXP-RIB	LL, RR2	ACLE						X
DKC117-78VT2PRIB	117	TRC-RIB	RR2	ACLE						X
DKC57-45VT2PRIB	107	VT2P-RIB	RR2	ACLE		X	X			
DKC66-06TRERIB	116	TRC-RIB	RR2	ACLE						X

Table 12. Entrant Information. *Continued*

DuraCrop: DuraCrop Seed, Oskaloosa, IA — www.myduracrop.com — (800) 373-9401

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
3059VT2P	105	VT2P	RR2	ACL250			X			
3085 PCE	108	VT2P	RR2	ACL250			X			
3099 VT2P	109	VT2P	RR2	ACL250			X		X	
3105 GT2X	111	V3120-RIB	GT, LL	CEP				X	X	
3111 PCE	111	VT2P	RR2	CEP				X	X	
3123 VT2PV	112	TRC	GT, LL	ACL250				X	X	
3141 VT2P	113	VT2P	RR2	ACL250				X		X
3143 VT2P	114	VT2P	RR2	ACL250				X		X
3152 VT2P	115	VT2P	RR2	ACL250						X

Dyna-Gro: Crop Production Services, Wall Lake, IA — www.dynagroseed.com — (712) 664-2444

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
D44DC73RIB	104	DGVT2P-RIB	RR2	A500PV		X				
D49VC53RIB	109	VT2P-RIB	RR2	A500PV		X				
D50VC09RIB	110	VT2P-RIB	RR2	A500PV				X		
D53TC23RIB	113	TRC-RIB	RR2	A500PV				X		
D53VC54RIB	113	VT2P-RIB	RR2	A500PV				X		X
D56TC44RIB	116	TRC-RIB	RR2	A500PV						X

Epley: Epley Bros. Hybrids, Inc., Shell Rock, IA (319) 885-6293

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
E1403VT2P	104	VT2P	RR2	None			X			
E1530	105	None	Conv	None		X				
E1609PWE	106	PC	RR2	None		X				
E1920	109	None	Conv	None				X		
E2120	111	None	Conv	None					X	

Four Star: Four Star Seed Co., Logan, IA www.4starseed.com (712) 644-1400

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
6D17	99	VT2P-RIB	RR2	ACL250	X					
6D19	100	VT2P-RIB	RR2	ACL250	X					
6D33	104	VT2P-RIB	RR2	ACL250		X				
6D47	109	VT2P-RIB	RR2	ACL250		X	X			
6D59	110	VT2P-RIB	RR2	ACL250				X	X	
6D64	112	TRC	RR2	ACL250				X	X	
6D72	114	VT2P-RIB	RR2	ACL250				X		X
EXP 2302	104	TRC	RR2	ACL250		X	X			
EXP 2303	109	VT2P-RIB	RR2	ACL250			X			
EXP 2304	112	VT2P-RIB	RR2	ACL250				X	X	
EXP 2305	103	VT2P-RIB	RR2	ACL250	X					

Latham: Latham Hi-Tech Seeds, Alexander, IA www.lathamseeds.com (641) 692-3258

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
LH 4866	98	TRC	RR2	ACL250	X					
LH 5336	103	PC	Conv	C250	X					
LH 5377	103	VT2P	RR2	ACL250	X					
LH 5556	105	PC	Conv	C250		X	X			
LH 5646	106	PC	Conv	C250			X			
LH 5668	106	SSXP-RIB	LL, RR2	P500		X	X			
LH 5815	108	VT2P	RR2	ACL250		X	X			
LH 6009	110	SSX	LL, RR2	P500				X		
LH 6097	110	VT2P-RIB	RR2	ACL250				X	X	
LH 6155	111	VT2P-RIB	GT	ACL250				X	X	
LH 6306	113	PC	Conv	C250				X		X
LH 6445	114	VT2P	GT	ACL250				X		X

Legacy Seeds: Legacy Seeds, Scandinavia, WI — www.legacyseeds.com — (866) 791-6390

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
LC465-23	96	PC	LL, RR2	ACL250	X					
LC511-21	101	SSX-RIB	LL, RR2	A500PV	X					
LC512-22	101	VT2P	RR2	ACL250	X					
LC534-23	103	TRC-RIB	LL, RR2	ACL250	X					
LC544-21	104	PC	LL, RR2	ACL250		X				
LC554-21	105	SSX	LL, RR2	A500PV		X				
LC554-23	105	SSX	LL, RR2	A500PV		X				
LC594-21	109	VT2P-RIB	RR2	ACL250		X				

LG Seeds: LG Seeds, Elmwood, IL — www.lgseeds.com — (800) 752-6847

Hybrid	RM	GMO Technology: Trait Pkg	GMO Technology: Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
LG48C87VT2PRO	98	VT2P	RR2	P500V	X					
LG52C42VT2RIB	102	VT2P-RIB	RR2	P500V	X					
LG53C44VT2	104	VT2P	RR2	P500V			X			
LG53C44VT2PRO	103	VT2P	RR2	P500V	X					
LG58C48VT2PRO	108	VT2P	RR2	P500V		X				
LG59C72-5222	109	V5222	GT, LL					X		
LG60C86-5222	110	V5222	GT, LL					X	X	
LG61C34STXRIB	111	SSX-RIB	LL, RR2	P500V				X	X	
LG62C22VT2RIB	112	VT2P-RIB	RR2	P500V				X		
LG64C43VT2PRO	114	VT2P	RR2	P500V				X		X
LG66C06VT2RIB	116	VT2P-RIB	RR2	P500V						X

Photo by Kelsey Caltrider

NuTech / G2 Genetics: NuTech Seed, LLC, Ames, IA **www.nutechseed.com** **(888) 647-3478**

Hybrid	RM	GMO Technology		Seed	North	North	Central	Central	South	South
		Trait Pkg	Herb Tech	Treatment	Early	Full	Early	Full	Early	Full
57B5AM	97	AM	LL, RR2	LMGN	X					
59A1Q	99	Qrome	LL, RR2	LMGN	X					
59C1AM	99	AM	LL, RR2	LMGN	X					
60A2Q	100	Qrome	LL, RR2	LMGN	X					
60A4AM	100	AM	LL, RR2	LMGN	X					
63A5AM	103	AM	LL, RR2	LMGN	X					
65D3Q	105	Qrome	LL, RR2	LMGN		X	X			
66C2Q	106	Qrome	LL, RR2	LMGN		X	X			
66D1AM	106	AM	LL, RR2	LMGN		X	X			
68A9AM	108	AM	LL, RR2	LMGN		X	X			
68C1Q	108	Qrome	LL, RR2	LMGN		X	X			
70A8AM	110	AM	LL, RR2	LMGN				X	X	
70B4AM	110	AM	LL, RR2	LMGN					X	
70F6Q	110	Qrome	LL, RR2	LMGN				X	X	
71A2AM	111	AM	LL, RR2	LMGN				X	X	
72A5Q	112	Qrome	LL, RR2	LMGN				X	X	
72D4Q	112	Qrome	LL, RR2	LMGN				X		
73A4AM	113	AM	LL, RR2	LMGN				X		X
73A6Q	113	Qrome	LL, RR2	LMGN				X		
74A9AM	114	AM	LL, RR2	LMGN				X		X
74C4AM	114	AM	LL, RR2	LMGN				X		X
75C1AM	115	AM	LL, RR2	LMGN						X

Table 12. Entrant Information. *Continued*

Pioneer: Corteva, Johnston, IA **www.pioneer.com** **(800) 233-7333**

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
P0075Q	100	Qrome	LL, RR2	LMGN	X					
P0220Q	102	Qrome	LL, RR2	LMGN	X					
P0529Q	105	Qrome	LL, RR2	LMGN		X	X			
P0924Q	109	Qrome	LL, RR2	LMGN		X	X			
P1093Q	110	Qrome	LL, RR2	LMGN				X	X	
P1185Q	111	Qrome	LL, RR2	LMGN				X	X	
P1366Q	113	Qrome	LL, RR2	LMGN						X
P1563Q	115	Qrome	LL, RR2	LMGN						X

Prairie Hybrids: Prairie Hybrids, Deer Grove, IL **www.prairiehybrids.com** **(815) 438-7815**

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
3051 Org	105	None	Conv	MX-QT		X				
4470	106	None	Conv	MX-QT		X	X			
5142/5141	109	None	Conv	MX-QT		X				
5851 Org	109	None	Conv	MX-QT		X	X			
5883/5881	109	None	Conv	MX-QT		X	X			
6878	112	None	Conv	MX-QT				X		
7461 Org	112	None	Conv	MX-QT				X		
8864	114	None	Conv	MX-QT				X		X

Renk: Renk Seed Co., Sun Prairie, WI **www.renkseed.com** **(800) BUY RENK**

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
RK571PWE	96	PC	LL, RR2	LMGN	X					
RK579DGVT2P	99	DGVT2P-RIB	RR2	ACL500	X					
RK600VT2P	100	VT2P-RIB	RR2	ACL250	X					
RK609VT2P	101	VT2P-RIB	RR2	ACL250	X					
RK625DGVT2P	104	DGVT2P-RIB	RR2	ACL250		X				
RK628VT2P	102	VT2P	RR2	ACL250	X					
RK703PWE	106	PC	RR2	LMGN		X	X			
RK707TRE	105	TRC	RR2	ACL250		X	X			
RK720TRE	106	TRC-RIB	RR2	ACL250		X	X			
RK766SSPRO	109	SSXP	RR2	A500PV		X	X			
RK773TRE	109	TRC	RR2	A500PV		X	X			
RK811PWE	111	PC	RR2	LMGN				X	X	
RK876VT2P	113	VT2P	RR2	A500PV				X		X
RK882TRE	111	TRC-RIB	RR2	ACL250				X	X	
RK895DGVT2P	113	DGVT2P-RIB	RR2	ACL250				X		X
RK915VT2P	115	VT2P-RIB	RR2	ACL250						X
RK958VT2P	115	VT2P-RIB	RR2	ACL250						X

Viking: Albert Lea Seed House, Albert Lea, MN **www.alseed.com** **(800) 352-5247**

Hybrid	RM	GMO Technology Trait Pkg	GMO Technology Herb Tech	Seed Treatment	North Early	North Full	Central Early	Central Full	South Early	South Full
46-02	102	None	Conv	C250	X					
72-06	106	None	Conv	C250		X	X			
84-04	104	None	Conv	C250		X				
84-05	105	None	Conv	C250		X	X			
85-09	109	None	Conv	C250		X	X			

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