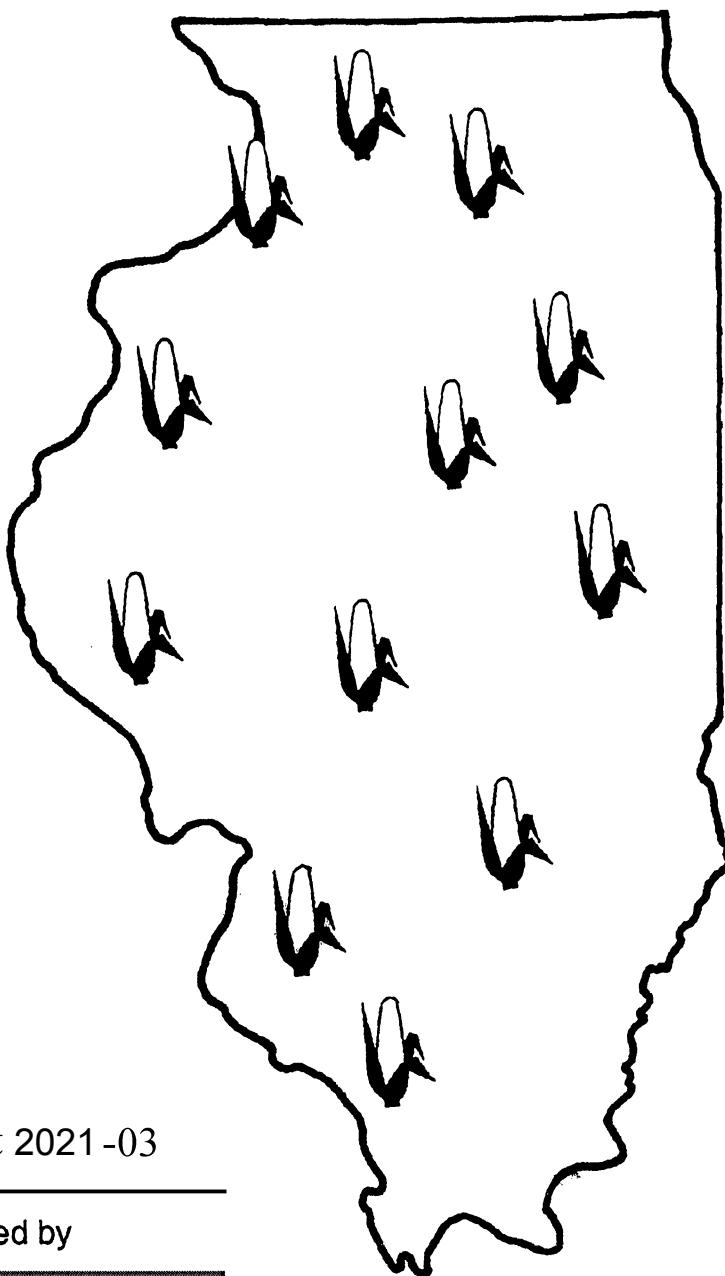

Corn Hybrid Test Results in Illinois- 2021



Crop Sciences Special Report 2021-03

Performance Information Provided by

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Department of Crop Sciences

<http://vt.cropsci.illinois.edu>



College of Agricultural, Consumer and Environmental Sciences

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PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 2021

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 \$280 for each corn hybrid entered in a region or \$94 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 2021, 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 194 corn hybrids from 20 companies tested in 2021.

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.

Lodging. A rating from 0 (no plants lodged) to 9 (all plants lodged). The number of lodged 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.

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 Swanson¹ 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, Carmer² found strong arguments for an optimal significance level in the range $\alpha = 0.20$ to 0.40 , where α 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.

¹Carmer, S.G. and M.R. Swanson. "An Evaluation of Ten Pairwise Multiple Comparison Procedures by Monte Carlo Methods." Journal of American Statistical Association 68:66-74. 1973.

²Carmer, S.G. "Optimal Significance Levels for Application of the Least Significant Difference in Crop Performance Trials." Crop Science 16:95-99

SOURCES OF SEED

AgVenture, Wehmeyer Seed
AgVenture D&M, AgVenture D&M
Axis, Axis Seed Direct
Beck's, Beck's Superior Hybrids
Burrus, Burrus Seed
Channel, Channel
Cornelius, Cornelius
Dairyland, Dairyland Seed
DeKalb, Bayer Crop Sciences
FS InVISION, Growmark
Hi Fidelity, Hi Fidelity Genetics
Miller, Miller Hybrids
NuTech Seed, NuTech Seed, LLC
Pioneer, Corteva
Power Plus, Burrus Seeds
Prairie, Prairie Hybrids
Renk, Renk Seed Co.
Roeschley, Roeschley Hybrids,
Spectrum, Spectrum Seeds
Stone Seed, Stone Seed Group
Sun Prairie Seeds,
Viking, Albert Lea Seed
Whisnand, Whisnand Hybrids

www.agventure.com
www.agventuredm.com
www.axisseed.com
www.beckshybrids.com
www.burrusseed.com
www.burrusseed.com
www.corneliusseed.com
www.dairylandseed.com
www.asgrowanddekalb.com
www.fsinvision.com
www.hifidelitygenetics.com
www.millerhybrids.com
www.nutechseed.com
www.pioneer.com
www.burrusseed.com
www.prairiehybrids.com
www.renkseed.com
www.roeschleyhybrids.com
www.spectrumseed.com
www.stoneseed.com
www.sunprairiehybrids.com
www.alseed.com
(217-268-3714)

2021 CORN LOCATIONS



KEY TO REGIONS

- 1 = (North) = Freeport, DeKalb, Fenton
- 1e = (North early RM) = Freeport, DeKalb, Fenton
- 2 = (West Central) = Monmouth, Perry, New Berlin
- 2e = (West Central early RM) = Monmouth, Perry, New Berlin
- 3 = (East Central) = Dwight, Goodfield, Urbana
- 3e = (East Central earlt RM) = Dwight, Goodfield, Urbana
- 4= (South) = St. Peter, Belleville, Elkville
- 4e = (South earl RM) = St. Peter, Belleville, Elkville
- 5 = DeKalb Corn Following Corn
- 6 = Monmouth Corn Following Corn
- 7 = Urbana Corn Following Corn
- Corn Following Corn

** RM = Relative Maturity in Days

2021 Corn Entries		*Regions Entered						2021 Corn Entries		*Regions Entered										
Company	Name	1	2	3	3e	4	4e	5	6	7	RM	1	2	3	4	5	6	7	RM	
AgVenture	AV2712AM			4		112					Dairyland	DS-5144Q	1				5	111		
AgVenture	AV3715AM			4		115					Dairyland	HiDF-3802Q	1e				5	105		
AgVenture	AV3917AML			4		117					Dekalb	DKC56-65RIB.....	1				5	106		
AgVenture	AV4313AM			4		113					Dekalb	DKC57-71RIB.....	1				5	107		
AgVenture	AV4509AML			4e		109					Dekalb	DKC58-64RIB.....	1				5	108		
AgVenture	AV4810AM			4e		110					Dekalb	DKC59-81RIB.....	1	2	3	4		5	109	
AgVenture	AV5214AM			4		114					Dekalb	DKC59-82RIB.....	1				3		111	
AgVenture	AV6409AM			4e		109					Dekalb	DKC61-41RIB.....							111	
AgVenture	AV7516AM			4		116					Dekalb	DKC62-69RIB.....					5	6	7	112
AgVenture	AV9610AM			4e		110					Dekalb	DKC62-70RIB.....	1	2	3	4		112		
AgVenture	AV9916AM			4		116					Dekalb	DKC62-89RIB.....	2				4		112	
AXIS	59R27RIB.....1	3		5	7						Dekalb	DKC63-57RIB.....					4		113	
AXIS	62A58RIB.....1	3		5	7	112					Dekalb	DKC63-90RIB.....	1				5	6	7	113
AXIS	62B56RIB.....1	3		5	7	110					Dekalb	DKC63-91RIB.....	2	3				113		
AXIS	62V29RIB.....1	3		5	7	113					Dekalb	DKC64-64RIB.....	1				5	6	7	114
Beck's	5393V2P.....1e					103					Dekalb	DKC64-65RIB.....	2	3	4			114		
Beck's	5699V2P.....1e					106					Dekalb	DKC65-84RIB.....1					5	6	7	115
Beck's	5899SX.....1					108					Dekalb	DKC65-95RIB.....	2	3	4			115		
Beck's	6374V2P.....1 2 3					113					Dekalb	DKC66-18RIB.....	2	3	4			116		
Beck's	6557V2P.....2 3					115					Dekalb	DKC67-37RIB.....					6	7	117	
Beck's	6674TCV2P.....2 3					116					Dekalb	DKC67-94RIB.....	2				4		117	
Beck's	XL® 5202AM™	1e				102					Hi Fidelity	EXP2035	2	3				113		
Beck's	XL® 5507AM™	1e				105					Hi Fidelity	HFG1051	1e					105		
Beck's	XL® 5909AM™	1				109					Hi Fidelity	HFG1071	1e					105		
Beck's	XL® 6081AM™	1 2 3				110					Hi Fidelity	HFG1111	1	2	3			111		
Beck's	XL® 6256AM™	1				112					Hi Fidelity	HFG1132	2	3	4			113		
Beck's	XL® 6481AM™	2 3				114					Hi Fidelity	HFG1142					4		114	
Burrus	6A38 SS	3				7	112				Hi Fidelity	HFG1152					4		115	
Burrus	6Y61 DGVT2P.....2 3 4					113					NuTech	60A2Q	1e				5		100	
Burrus	7K64 DGVT2P.....4					115					NuTech	63C4Q	1e					103		
Cappel Seed	4720	1				107					NuTech	64B5Q	1				5		104	
Cappel Seed	4920	1 2e 3e				109					NuTech	64D1AM	1					104		
Cappel Seed	5320	1 2 3				112					NuTech	66C2Q	1	2e 3			5	6	106	
Channel	202-24STXRIB	1				102					NuTech	68A7AM	1	2e 3 3e	4e			108		
Channel	207-87VT2PRIB	1 2 3				107					NuTech	69A6Q	1	2 3			5	6	109	
Channel	210-46STXRIB	1 2 3				110					NuTech	69B9Q	1	2 3			5	6	7	109
Channel	210-46VT2PRIB		4			110					NuTech	70A8AM	1	2 3	4e			110		
Channel	212-04STXRIB	1 2 3				112					NuTech	70F2Q	1	2 3			5	6	110	
Channel	214-22STXRIB	1 2 3				114					NuTech	71F5Q	1	2 3				7	111	
Channel	214-78DGVT2PRIB	2 3 4				114					NuTech	72B7Q	1	2 3			5	6	7	112
Channel	218-44VT2PRIB		4			118					NuTech	72D4AM					3	4		112
Cornelius	7228VT2P	1 2				112					NuTech	74B6AM	2	3	4			114		
Cornelius	C575DP	1 2e				109					NuTech	74F3AM	2	3	4			114		
Cornelius	C6400DGDP	1e				104					NuTech	74F9AM	2	3	4			114		
Cornelius	C6401SS	1e				104					NuTech	77A5AM	2	3	4			117		
Cornelius	C6438DP	1e				104					Pioneer	P0075Q	1e					100		
Cornelius	C6552PC	1e				105					Pioneer	P0306Q	1e					103		
Cornelius	C6708DP	1				107					Pioneer	P0720AM		2e 3e				107		
Cornelius	C6812DP	1 2e				108					Pioneer	P0720Q	1					105		
Cornelius	C6936SS	1				109					Pioneer	P1077AM	2	3	4e			110		
Cornelius	C7004DP	2				110					Pioneer	P1099Q	1					110		
Cornelius	C7125DP	1 2				111					Pioneer	P1108Q	1	2 3				111		
Cornelius	C7270DP	1 2				112					Pioneer	P1185AM	2	3	4			111		
Cornelius	C7308SS	1 2				113					Pioneer	P1185Q	1					111		
Cornelius	C7366DGDP	1 2				113					Pioneer	P1359AM	2	3	4			113		
Dairyland	DS-4310AM	1e				103					Pioneer	P1366Q	1					113		
Dairyland	DS-4510Q	1e		5		105					Pioneer	P1380AM					4		113	
Dairyland	DS-4878AM	1				108					Pioneer	P1563AM	2	3				115		
Dairyland	DS-4878Q		5			108					Pioneer	P1587Q					4		115	
Dairyland	DS-4910AML	1		5		109					Pioneer	P1847AML					4		118	
Dairyland	DS-4917AM	1				109					Power Plus	4C14AM				2e			108	

* see page 3 for key to RM and regions entered

2021 Corn Entries		*Regions Entered					2021 Corn Entries		*Regions Entered								
Company	Name	1	2	3	4	5	6	7	RM	1	2	3	4	5	6	7	RM
Power Plus	4C16 Q.....		3e						7108	Stone Seed	1332SS	1	2	3			113
Power Plus	5L44AM.....	2	3						110	Stone Seed	1512TRE				4		115
Power Plus	6J92AM.....	2	3						113	Stone Seed	1521SS		2	3			115
Prairie	3259	1e	2e	3e					105	Stone Seed	1812DP				4		118
Prairie	4470	1e	2e	3e					106	Stone Seed	5638RIB	1					106
Prairie	5142	1							109	Stone Seed	5852RIB			4			108
Prairie	5787	1							108	Stone Seed	6072RIB			4			110
Prairie	5900	1							108	Stone Seed	6078RIB	1	2	3			110
Prairie	6590	1							111	Stone Seed	6368RIB	1	2	3			113
Prairie	6878	1	2	3		5	6	7	112	Stone Seed	6542RIB				4		115
Prairie	7830	2	3			6			113	Stone Seed	DG6382RIB.....				4		113
Prairie	8229			3					114	Sun Prairie Seeds	SP2378		1e				103
Prairie	8290		2	3					114	Sun Prairie Seeds	SP2473	1					107
Prairie	8759		2	3		6			115	Sun Prairie Seeds	SP2507			3e			109
Prairie	8904	1							113	Sun Prairie Seeds	SP2508			3			110
Prairie	8960		2	3		6			114	Sun Prairie Seeds	SP2607			3			111
Renk	RK710SSTX	1	2e	3e					107	Sun Prairie Seeds	SPX1814				4		114
Renk	RK718SSTX	1e	2e	3e	5				105	Sun Prairie Seeds	SPX1816				4		115
Renk	RK782VT2P	1	2e	3e					109	Viking	58-11	1					111
Renk	RK821SSTX	1	2	3					111	Viking	84-05	1e					105
Renk	RK826VT2P	1	2	3		5	6	7	111	Viking	O.46-02	1e					102
Renk	RK882TRE	1	2	3					111	Viking	O.48-08P	1					108
Renk	RK907SSTX	2	3						115	Viking	O.51-04P	1e					104
Renk	RK915VT2P	2	3						115	Viking	O.72-06	1					106
Renk	RK945DGVT2P	2	3						115	Whisnand	303VT2P			3	4		115
Stone Seed	0122SS.....	1							101	Whisnand	304SS			3	4		112
Stone Seed	0321SS.....	1							103	Wyffels Hybrids	W4196RIB		1e				105
Stone Seed	0931SS.....	1	2	3					109	Wyffels Hybrids	W5086RIB	1					107
Stone Seed	1122SS.....	1	2	3					111	Wyffels Hybrids	W7876RIB	1	2	3			114
Stone Seed	1132TRE				4				111	Wyffels Hybrids	W8936DGRIB.....		2	3			117
Stone Seed	1221TRE		2	3	4				112								

* see page 3 for key to RM and regions entered

2021 Hybrid Corn Test Results: North Region (36,500 ppa)

Company	Name	IST ¹	GT ²	HT ³	RM	Regional Results ⁵			DeKalb			Fenton			2-yr Avg.	3-yr Avg.	
						Yield	Mst	Ldg ⁴	Yield	Mst	Ldg ⁴	Yield	Mst	Ldg ⁴			
NuTech	64D1AM	M	C2	G	104	247	19.3	0.0	237	18.8	0.0	257	19.8	0.0			
NuTech	66C2Q	M	C2 R2 L	B	106	259	19.8	0.0	250	19.8	0.0	268	19.8	0.0			
NuTech	68A7AM	M	C2	G	108	262	21.0	0.0	249	20.7	0.0	276	21.3	0.0	259		
NuTech	69A6Q	M	C2 R2 L	B	109	243	19.9	0.0	229	19.4	0.0	256	20.5	0.0			
NuTech	69B9Q	M	C2 R2 L	B	109	257	20.3	0.5	242	19.4	0.0	271	21.3	1.0			
NuTech	70A8AM	M	C2	G	110	260	20.6	0.0	246	20.3	0.0	275	20.8	0.0	261		
NuTech	70F2Q	M	C2 R2 L	B	110	264	21.3	0.3	261	19.6	0.0	267	23.0	0.6	267		
NuTech	71F5Q	M	C2 R2 L	B	111	240	21.4	0.5	232	21.2	0.0	247	21.6	1.0			
NuTech	72B7Q	M	C2 R2 L	B	112	264	22.2	0.0	255	20.9	0.0	273	23.5	0.0			
Pioneer	P0720Q	M	C2 R2 L	B	105	249	19.3	0.0	235	18.8	0.0	263	19.8	0.0	250		
Pioneer	P1099Q	M	C2 R2 L	B	110	270	20.2	0.2	267	19.6	0.0	272	20.9	0.5	263		
Pioneer	P1108Q	M	C2 R2 L	B	111	268	22.4	0.0	253	20.4	0.0	284	24.4	0.0	260		
Pioneer	P1185Q	M	C2 R2 L	B	111	242	21.3	0.1	229	21.2	0.0	255	21.3	0.2			
Pioneer	P1366Q	M	C2 R2 L	B	113	251	22.4	0.3	244	21.4	0.0	257	23.3	0.6	255		
Renk	RK710SSTX	M	C2 R2 L	B	107	235	19.0	0.0	234	20.2	0.0	236	17.8	0.0			
Renk	RK782VT2P	L	C2	G	109	255	20.8	0.0	251	21.4	0.0	258	20.2	0.0			
Renk	RK821SSTX	M	C2 R2 L	B	111	259	20.2	0.7	255	19.1	0.0	262	21.2	1.3			
Renk	RK826VT2P	L	C2	G	111	255	21.0	0.0	244	19.3	0.0	266	22.7	0.0			
Renk	RK882TRE	L	C2	L	G	111	257	22.0	0.0	243	20.0	0.0	272	24.1	0.0		
Stone Seed	0122SS	H	C2 R2 L2	B	101	250	16.7	0.0	241	17.6	0.0	259	15.8	0.0	241		
Stone Seed	0321SS	H	C2 R2 L2	B	103	240	16.7	0.0	241	17.3	0.0	240	16.0	0.0	237		
Stone Seed	0931SS	H	C2 R2 L2	B	109	255	22.3	0.0	236	21.0	0.0	275	23.5	0.0	257		
Stone Seed	1122SS	H	C2 R2 L2	B	111	226	20.5	0.5	223	20.2	0.0	230	20.7	1.0			
Stone Seed	1332SS	H	C2 R2 L2	B	113	259	23.4	0.0	256	21.8	0.0	261	25.1	0.0			
Stone Seed	5638RIB	H	C2 R2 L2	B	106	244	19.5	0.0	240	19.2	0.0	249	19.7	0.0			
Stone Seed	6078RIB	H	C2 R2 L2	B	110	269	21.3	0.0	265	21.2	0.0	272	21.5	0.0	259		
Stone Seed	6368RIB	H	C2 R2 L2	B	113	269	22.7	0.0	256	21.5	0.0	281	24.0	0.0	258		
Sun Prairie Seeds	SP2473	M	C2 R2	B	107	236	18.8	0.0	230	18.8	0.0	241	18.7	0.0			
Wyllfels Hybrids	W5086RIB	L	C2	G	107	257	21.3	0.0	253	21.4	0.0	261	21.1	0.0			
Wyllfels Hybrids	W7876RIB	L	C2	G	114	253	24.0	0.4	249	21.8	0.0	257	26.2	0.7			
Non-GMO Hybrids																	
Cappel Seed	4720				107	225	18.4	0.0	215	19.1	0.0	236	17.6	0.0	221		
Cappel Seed	4920				109	233	21.8	0.0	216	21.4	0.0	250	22.3	0.0			
Cappel Seed	5320				112	249	21.5	0.5	256	20.2	0.0	241	22.7	1.0	246		
Hi Fidelity	HFG1111	M			111	243	21.9	0.0	230	22.1	0.0	257	21.6	0.0	250		
Prairie	5142				109	244	21.1	0.0	235	21.5	0.0	254	20.8	0.0			
Prairie	5787				108	244	20.1	0.0	237	19.6	0.0	252	20.6	0.0	246		
Prairie	5900				108	237	18.5	0.0	236	17.5	0.0	239	19.4	0.0	239		
Prairie	6590				111	251	19.7	0.0	247	18.3	0.0	256	21.1	0.0	249		
Prairie	6878				112	247	23.8	0.0	238	22.7	0.0	256	24.9	0.0	260		
Prairie	8904				113	249	22.5	0.0	235	21.9	0.0	263	23.1	0.0			
Viking	58-11	L			111	246	21.0	0.0	242	20.7	0.0	251	21.4	0.0			
Viking	O.48-08P	L			108	250	20.6	0.0	252	20.3	0.0	248	20.9	0.0	248		
Viking	O.72-06	L			106	261	19.2	0.0	263	18.3	0.0	260	20.1	0.0			
Average						253	20.8		245	20.2		260	21.4				
L.S.D 25% Level						10	1.4		14	1.0		11	1.2				
CV (%)						6	10.1		6	5.3		5	5.8				

¹Insecticide Seed Treatment: L = Low rate, M = Medium rate, H = High rate

²Genetic Traits: C= Corn Borer, R= Root Worm, L= Other Lepidoptera, Number following the letter indicates how many traits are expressed

³Herbicide Traits: G= Glyphosate, U= Glufosinate, B= Both

⁴Lodging: 0= none, 9= All

⁵Freeport was not harvested due to a herbicide application error.

North Region: Trial location Information

Location	Freeport	DeKalb	Fenton
County	Stephenson	DeKalb	Whiteside
Host	Highland Community Collage	John and Jim Boesche	Ron and Dave Mickley
Soil type	Fayette silt loam	Drummer silty clay loam	Coffeen silt loam
Planting date	April 27, 2021	April 27, 2021	April 26, 2021
Harvest date	Did not harvest	October 9, 2021	September 23, 2021
Nitrogen applied	182 lbs. as PPI UAN	200 lbs as PPI UAN	160 lbs as PPI NH3
Pesticides			
PRE		Tripleflex	Resicore
POST	Impact	Impact	Impact
Fungicide	None	Yes	Yes
Tillage			
Spring	Field cultivator	Field cultivator	Field cultivator
Fall	None	None	Chisel
Latitude	42.28843372	41.86826876	41.74691467
Longitude	-89.681558	-88.82629283	-90.0166284
Rainfall			
April	2.6	1.6	4.0
May	2.5	2.9	6.2
June	2.6	8.3	3.3
July	3.1	2.2	4.0
August	3.4	1.8	0.9
September	0.7	1.0	1.0
Total	14.9	17.8	19.4

West Central Region: Trial location Information

Location	Monmouth	Perry	New Berlin
County	Warren	Pike	Sangamon
Host	Greg Steckel	Luke Merritt	Leahy Bennett
Soil type	Sabble silty clay loam	Ipava silt loam	Sabble silty clay loam
Planting date	April 26, 2021	April 26, 2021	April 23, 2021
Harvest date	September 24, 2021	Did not harvest	September 24, 2021
Nitrogen applied	175 lbs. as PPI UAN	200 lbs as PPI UAN	175 lbs as fall NH3 10 lbs. as PPI UAN
Pesticides			
PRE	Harness Xtra	Resicore	Parallel Plus
POST	Ladius, Aatrex	Impact	Impact
Fungicide	None	None	Headline AMP
Tillage			
Spring	Field cultivate	Field cultivate	Field cultivator
Fall	Disk ripper	Chisel	Disk ripper
Latitude	40.92655348	39.80330632	39.81979871
Longitude	-90.72566152	-90.82242522	-89.94720407
Rainfall			
April	3.9	3.7	2.8
May	6.6	4.8	4.8
June	8.1	7.5	6.4
July	4.1	5.7	6.4
August	2.6	1.8	7.3
September	1.8	1.0	1.8
Total	27.1	24.5	29.5

2021 Hybrid Corn Test Results: West Central Region (36,500 ppa)

Company	Name	IST ¹	GT ²	HT ³	RM	Regional Results ⁵			Monmouth			New Berlin			2-yr Avg.	3-yr Avg.
						Yield bu/a	Mst %	Lgd ⁴ 0-9	Yield bu/a	Mst %	Lgd ⁴ 0-9	Yield bu/a	Mst %	Lgd ⁴ 0-9		
Stone Seed	0931SS	H	C2 R2 L2 B	L2 B	109	249	15.6	0.2	212	15.2	0.0	286	15.9	0.4	248	
Stone Seed	1122SS	H	C2 R2 L2 B	L2 B	111	248	15.3	0.0	205	14.0	0.0	291	16.6	0.0		
Stone Seed	1221TRE	H	C2	L3 G	112	241	15.8	0.3	185	15.7	0.0	296	15.9	0.6	240	
Stone Seed	1332SS	H	C2 R2 L2 B	L2 B	113	236	16.9	1.0	186	16.3	0.0	286	17.4	1.9		
Stone Seed	1521SS	H	C2 R2 L2 B	L2 B	115	234	16.4	0.0	190	15.5	0.0	278	17.3	0.0	238	
Stone Seed	6078RIB	H	C2 R2 L2 B	L2 B	110	244	14.9	0.1	204	14.1	0.0	285	15.8	0.3	248	
Stone Seed	6368RIB	H	C2 R2 L2 B	L2 B	113	263	16.9	0.0	222	17.5	0.0	305	16.3	0.0	257	256
Wyffels Hybrids	W7876RIB	L	C2	G	114	243	16.1	0.4	195	15.4	0.7	291	16.9	0.2		
Wyffels Hybrids	W8936DGRIB	L	C2	G	117	242	17.7	0.0	196	18.5	0.0	288	16.9	0.0		
Non-GMO Hybrids																
Cappel Seed	5320				112	247	14.3	0.3	210	13.5	0.0	285	15.0	0.6		
Hi Fidelity	EXP2035	M			113	228	15.3	0.4	182	16.0	0.0	273	14.7	0.9		
Hi Fidelity	HFG1111	M			111	240	15.0	0.3	197	13.8	0.0	283	16.2	0.7	235	
Hi Fidelity	HFG1132	M			113	233	15.4	1.1	208	14.3	0.0	257	16.5	2.3		
Prairie	6878				112	234	16.3	0.3	198	15.7	0.0	271	16.9	0.7	244	241
Prairie	7830				113	223	17.3	0.2	187	16.8	0.0	259	17.9	0.4		
Prairie	8290				114	226	20.7	2.0	158	21.1	3.6	294	20.2	0.3	240	241
Prairie	8759				115	242	19.8	2.6	212	19.6	3.3	272	20.0	1.9	238	239
Prairie	8960				114	242	17.4	0.0	214	17.4	0.0	270	17.5	0.0	242	241
Average						241	16.2		196	15.8		285	16.6			
L.S.D 25% Level						13	1.1		10	0.7		9.2	0.7			
CV (%)						8	9.9		6	4.7		3.4	4.6			

¹Insecticide Seed Treatment: L = Low rate, M = Medium rate, H = High rate

²Genetic Traits: C= Corn Borer, R= Root Worm, L= Other Lepidoptera, Number following the letter indicates how many traits are expressed

³Herbicide Traits: G= Glyphosate, U= Glufosinate, B= Both

⁴Lodging: 0= none, 9= All

⁵The Perry location was not included in the table due to widespread damage caused by a wind event on the 9th of July.

2021 Hybrid Corn Test Results: East Central Region (36,500 ppa)

Company	Name	Regional Results						Dwight			Goodfield			Urbana			2-yr Avg.	3-yr Avg.		
		Yield	Mst	Lgd ⁴	0-9	bu/a	%	Yield	Mst	Lgd ⁴	0-9	bu/a	%	Yield	Mst	Lgd ⁴	0-9	bu/a	%	
Stone Seed	1221TRE	H	C2	L3	G	112	247	16.6	1.4	245	16.3	3.0	246	18.8	0.7	250	14.7	0.4	226	
Stone Seed	1332SS	H	C2 R2 L2	B	B	113	246	17.2	1.5	244	17.6	3.0	234	18.9	0.0	260	15.3	1.4		
Stone Seed	1521SS	H	C2 R2 L2	B	B	115	235	15.9	1.8	250	16.0	3.0	216	16.9	0.0	239	14.9	2.5	233	
Stone Seed	6078RIB	H	C2 R2 L2	B	B	110	254	15.6	0.9	271	15.6	1.6	232	17.3	1.0	259	14.1	0.0	249	
Stone Seed	6368RIB	H	C2 R2 L2	B	B	113	249	17.5	1.3	250	17.9	1.8	222	20.0	0.7	277	14.7	1.5	247	246
Sun Prairie Seeds	SP2508	M	C2 R2 L	B	B	110	243	14.5	2.1	241	14.6	5.0	224	15.2	0.0	265	13.7	1.3		
Sun Prairie Seeds	SP2607	M	C2 R2 L	B	B	111	245	16.6	0.9	258	15.1	1.3	221	19.7	0.0	257	14.9	1.3		
Whisnand	303VT2P	L	C2	G	G	115	228	15.9	1.1	232	16.4	2.0	222	17.4	1.3	231	14.0	0.0		
Whisnand	304SS	L	C2 R2 L	B	B	112	234	14.3	1.0	239	14.4	2.7	220	15.1	0.0	244	13.3	0.4	230	
Wyffels Hybrids	W7876RIB	L	C2	G	G	114	260	17.2	1.6	274	18.3	3.0	241	18.4	0.3	266	15.1	1.5		
Wyffels Hybrids	W8936DGRIB	L	C2	G	G	117	246	17.1	0.9	257	16.6	2.0	218	19.2	0.3	264	15.6	0.4		
Non-GMO Hybrids																				
Cappel Seed	5320					112	236	14.7	1.4	242	15.1	2.4	230	14.8	1.0	236	14.4	0.9	200	
Hi Fidelity	EXP2035	M				113	222	14.8	2.9	238	17.3	6.0	201	13.9	2.0	228	13.3	0.9		
Hi Fidelity	HFG1111	M				111	241	15.0	1.0	258	16.8	2.4	227	14.3	0.3	239	13.9	0.3	227	
Hi Fidelity	HFG1132	M				113	243	15.9	2.1	240	17.0	5.3	235	16.6	0.7	254	14.1	0.3		
Prairie	6878					112	251	15.5	1.6	258	16.4	2.7	238	16.1	1.3	258	13.9	0.9	231	233
Prairie	7830					113	219	17.5	1.7	199	18.9	3.7	203	17.9	1.3	253	15.7	0.0		
Prairie	8229					114	252	18.4	3.2	233	18.1	4.7	248	21.3	0.3	274	15.9	4.7	230	232
Prairie	8290					114	238	19.4	3.4	206	19.5	4.6	256	20.0	1.0	252	18.6	4.5	246	241
Prairie	8759					115	228	20.4	2.4	200	22.8	6.3	232	22.1	0.0	253	16.2	1.0	235	239
Prairie	8960					114	249	17.4	1.9	247	17.5	2.3	228	18.6	0.3	272	16.2	3.0	229	
		Average					245	16.0			248	16.5		231	16.7		256	14.7		
		L.S.D 25% Level					11	0.9			16	0.9		12	1.0		13	0.5		
		CV (%)					8	10.9			7	6.0		6	6.6		6	3.5		

¹Insecticide Seed Treatment: L = Low rate, M = Medium rate, H = High rate

²Genetic Traits: C= Corn Borer, R= Root Worm, L= Other Lepidoptera, Number following the letter indicates how many traits are expressed

³Herbicide Traits: G= Glyphosate, U= Glufosinate, B= Both

⁴Lodging: 0= none, 9= All

** Variety dropped due to plot damage.

East Central Region: Trial location Information

Location	Dwight	Goodfield	Urbana
County	Grundy	Woodford	Chamapign
Host	Tyson Dollinger	Glenn and Ron Joos	Nick Eisenmenger
Soil type	Drummer silty clay loam	Ipava silt loam	Drummer silty clay loam
Planting date	April 30, 2021	May 1, 2021	April 30, 2021
Harvest date	October 6, 2021	September 28, 2021	October 4, 2021
Nitrogen applied	22 lbs. as PPI UAN 134 lbs. sidress	200 lbs as PPI UAN	185 lbs as PPI UAN
Pesticides			
PRE	Keystone	Paraquat	Resicore, Aatrex
POST	Impact	Impact	Impact
Fungicide	Trivapro	None	None
Tillage			
Spring	Field cultivator	None	Field cultivator
Fall	Chisel	Strip Till	Chisel
Latitude	41.20390892	40.63804665	40.08032916
Longitude	-88.49109627	-89.26309873	-88.22471646
Rainfall			
April	4.2	2.8	1.9
May	3.9	5.3	3.6
June	6.8	4.9	7.8
July	4.4	2.6	4.2
August	4.2	4.7	2.0
September	1.8	1.3	3.0
Total	25.3	21.6	22.5

South Region: Trial location Information

Location	St Peter	Belleville	Elkville
County	Fayette	St. Clair	Jackson
Host	Russ Schwarm	David and Dan Tiedeman	John and Trent Funk
Soil type	Hoyleton silt loam	Caseyville silt loam	Cisne silt loam
Planting date	May 2, 2021	May 2, 2021	April 22, 2021
Harvest date	September 19, 2021	September 27, 2021	September 20, 2021
Nitrogen applied	150 lbs. as PPI UAN 70 Lbs. as Sidedress	180 lbs as PPI NH3 None	200 lbs as PPI NH3 None
Pesticides			
PRE	Verdict, Roundup	Realm Q	Acuron, Princep
POST	Impact	Impact	Impact
Fungicide	None	Trivapro	yes
Tillage			
Spring	Field cultivator	Field cultivator	Field cultivator
Fall	None	None	Chisel
Latitude	38.90092485	38.53402705	37.96253966
Longitude	-88.88205581	-89.90481411	-89.09025876
Rainfall			
April	1.9	2.9	3.5
May	4.5	2.7	3.6
June	5.1	5.1	3.6
July	8.2	6.2	4.6
August	6.5	3.1	3.0
September	1.7	2.8	4.0
Total	27.9	22.8	22.3

2021 Hybrid Corn Test Results: DeKalb Corn Following Corn (36,500) ppa

2021 Hybrid Corn Test Results: Monmouth Corn Following Corn (36,500) ppa

Company Name	IST ¹	GT ²	HT ³	RM	Yield bu/a	Moisture %	Ldg ⁴ 0-9	2-yr 3-yr									
								Company Name	IST ¹	GT ²	HT ³	RM	Yield bu/a	Moisture %	Ldg ⁴ 0-9	Avg. bu/a	Avg. bu/a
AXIS 59R27RIB	L C2 L G	106	237	19.8	0.0	Dekalb DKC62-69RIB	M C2 R2 L B	112	186	17.2	0.0						
AXIS 62A58RIB	M C2 R2 L B	112	218	24.2	0.0	Dekalb DKC63-90RIB	M C2 R2 L B	113	197	17.2	0.0	215	236				
AXIS 62B56RIB	M C2 R2 L B	110	246	22.3	0.0	Dekalb DKC64-64RIB	M C2 R2 L B	114	184	16.4	0.0	195					
Dairyland DS-4510Q	M C2 R2 L B	105	251	19.6	0.0	Dekalb DKC65-84RIB	M C2 R2 L B	115	195	17.3	0.0						
Dairyland DS-4878Q	M C2 R2 B	108	228	19.9	0.0	Dekalb DKC67-37RIB	M C2 R2 L B	117	198	21.5	0.0						
Dairyland DS-4910AML	M C2 R2 L B	109	220	21.2	0.0	NuTech 69A6Q	M C2 R2 L B	109	192	15.6	0.0						
Dairyland DS-5144Q	M C2 R2 B	111	250	21.9	0.0	NuTech 69B9Q	M C2 R2 L B	109	208	17.0	0.0						
Dairyland HDIF-3802Q	M C2 R2 B	105	230	20.4	0.0	NuTech 70F2Q	M C2 R2 L B	110	201	15.8	0.7	214					
Dekalb DKC56-65RIB	M C2 R2 L B	106	228	20.6	0.0												
Dekalb DKC57-71RIB	M C2 R2 L B	107	257	20.3	0.0												
Dekalb DKC58-64RIB	M C2 R2 L B	108	239	20.5	0.0												
Dekalb DKC59-81RIB	M C2 R2 L B	109	243	20.3	0.0												
Dekalb DKC62-69RIB	M C2 R2 L B	112	228	25.1	0.0												
Dekalb DKC63-90RIB	M C2 R2 L B	113	252	22.8	0.0												
Dekalb DKC64-64RIB	M C2 R2 L B	114	239	24.2	0.0												
Dekalb DKC65-84RIB	M C2 R2 L B	115	238	23.1	0.0												
NuTech 60A2Q	M C2 R2 L B	100	233	18.8	0.0												
NuTech 64B5Q	M C2 R2 L B	104	253	20.0	0.0												
NuTech 66C2Q	M C2 R2 L B	106	257	21.8	0.0												
NuTech 69A6Q	M C2 R2 L B	109	242	21.6	0.0												
NuTech 69B9Q	M C2 R2 L B	109	240	21.6	0.0												
NuTech 70F2Q	M C2 R2 L B	110	247	22.3	0.0												
NuTech 72B7Q	M C2 R2 L B	112	233	23.5	0.0												
Renk RK718SSTX	M C2 R2 L B	105	227	20.7	0.0												
Renk RK826VT2P	L C2 L G	111	217	19.4	0.0												
Non-GMO Hybrids									Prairie 6878			112	202	18.4	0.0	227	233
Prairie 6878					112	229	23.3	0.0									
Average					237	21.4											
L.S.D 25% Level					13	1.2											
CV (%)					6	6.0											
2021 Hybrid Corn Test Results: Urbana Corn Following Corn (36,500) ppa																	
Company Name	IST ¹	GT ²	HT ³	RM	Yield bu/a	Moisture %	Ldg ⁴ 0-9										
AXIS 59R27RIB	L C2 G	206	219	15.0	0.7												
AXIS 62A58RIB	M C2 R2 L B	112	216	16.8	0.3												
AXIS 62B56RIB	M C2 R2 L B	110	216	16.3	0.7												
Burrus 6A38 SS	M C R2 L B	112	211	16.2	0.7												
Dekalb DKC62-69RIB	M C2 R2 L B	112	219	16.9	0.7												
Dekalb DKC63-90RIB	M C2 R2 L B	113	211	15.0	1.3												
Dekalb DKC64-64RIB	M C2 R2 L B	114	196	16.5	2.0												
Dekalb DKC65-84RIB	M C2 R2 L B	115	201	16.5	0.3												
Dekalb DKC67-37RIB	M C2 R2 L B	117	193	17.7	0.0												
NuTech 69B9Q	M C2 R2 L B	109	212	15.6	0.0												
NuTech 71F5Q	M C2 R2 L B	111	203	16.2	0.3												
NuTech 72B7Q	M C2 R2 L B	112	192	16.8	0.7												
Power Plus 4C16 Q	M C2 R2 L B	108	191	14.4	0.7												
Renk RK826VT2P	L C2 G	111	219	16.6	0.0												
Non-GMO Hybrids									Prairie 6878			112	227	17.4	0.3		
Prairie 6878																	
Prairie 8759					115	203	19.4	1.0									
Prairie 8960					114	211	19.1	0.7									
Average					209	16.5											
L.S.D 25% Level					11	1.1											
CV (%)					6	6.9											

¹Insecticide Seed Treatment: L = Low rate, M = Medium rate, H = High rate²Genetic Traits: C= Corn Borer, R= Root Worm, L= Other Lepidoptera, Number following the letter indicates how many traits are expressed³Herbicide Traits: G= Glyphosate, U= Glufosinate, B= Both⁴Lodging Score - 0 = none 9 = all