

# 2019 Kentucky Hybrid Corn Performance Test

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The objective of the Kentucky Hybrid Corn Performance Test is to provide relative performance estimates of hybrid seed corn sold in Kentucky. The test attempts to treat every hybrid similarly in an unbiased manner. Agronomic practices that meet or exceed university guidelines are implemented at each location.

## Presentation of Data

Complete 2019 data is presented for the tests across all locations and tests at each location. Two- and three-year averages for yield are included in each of the single location tables. Tables that include data over multiple years and/or from multiple locations provide a better indication of hybrid performance. If individual location data is used, it should be used in combination with a multiple location average. The multiple location tables present better estimates of hybrid yield ability than data gathered at a single location in one year.

Comparisons between yields and other characteristics of any two or more hybrids should be made only with data from one table at a time. Hybrids are grouped into Early, Medium, Late, White, and Conventional tests based on relative maturity or trait characteristics. Hybrids that are likely to yield as high as the highest yielding hybrid, based on statistical evaluation, are shaded gray. See Hybrid Comparisons and Experimental Design and Mean Comparisons sections for more detail.

## Testing Procedure

### Selection of Hybrids

The hybrids submitted for testing are those most likely to be available for sale in 2020. Representatives from seed companies select and nominate their own hybrids. They provide the seed listed in Table 1 and identify the maturity and/or seed coat color.

### Location of Tests

Figure 1 shows the test locations. The test sites were selected to represent different agro-climatic areas of Kentucky where corn is a major commodity. There were seven total tests from seven locations across the state. Included in these seven tests were two irrigated tests in Daviess and Graves counties. They were under center pivot irrigation.

### Seasonal Notes

There were many challenges this year due to the weather. The main issue was too much rainfall in certain areas in the Spring. There was a wider range than normal in planting dates, so pay attention to those dates while using the data. The Early Test in Graves County, along with the Medium Test in Shelby County had to be thrown out due to a very high CV.

### Disease Ratings

Hybrids were evaluated at two locations, Fayette County and Caldwell County. All ratings were made by Dr. Kiersten Wise and Nolan Anderson, UK plant pathologists in Princeton. Ratings were made during the week of August 5. Fayette County had low disease levels overall, so only Caldwell County is reported. Special thanks to Dr. Wise and Mr. Anderson for this work.

### Cultural Practices

Corn seed was planted no-till into soybean stubble at five locations, and into tilled fields at the other two. Fertilizer was applied in accordance with each individual farmer's practices.

All test areas were treated with herbicides supplemented by post emergence herbicide when necessary.

### Experimental Design and Mean Comparisons

Each hybrid was grown in three replications at each location to sample uncontrollable variability within the field. Yields presented in the tables are averages of three replications at the test site; two-year and three-year means are averages of six and nine replications, respectively. A randomized complete block design (RCBD) was used for each maturity group test at each location.

These tests are designed to predict relative yield ability. In these tests, we are most interested in how Hybrid A yields relative to Hybrid B. Slight differences in yield ability can occur as a result of variability in the field. The least significant difference (LSD) is used to account for that variability and to help determine significant differences between hybrid performances.

Consider the following example:

Hybrid	Yield
A	165
B	155
C	140
LSD (0.10)	12

The yield difference between Hybrid A and Hybrid B is 10 bu/acre ( $165 - 155 = 10$ ). The difference is less than the LSD (12 bu/acre). Based on the LSD, the yield difference between hybrids A and B is not significant, meaning that we would expect hybrids A and B to have the same yield capability the next season. However the yield difference between hybrids A and C is 25 bu/acre ( $165 - 140 = 25$ ) which is greater than the LSD (12 bu/acre). The LSD indicates that we would expect hybrid A to have greater yield capability than hybrid C next year.

The LSD occurs at the bottom of each table. Yield differences that are less than the LSD are not significantly different from each other. Tables are sorted from greatest to least yield. Cells that have been shaded gray are not significantly different from the highest yield mean in that column. The analysis indicates that all hybrids with yields shaded gray, would be expected to have similar yield potential next season.

The coefficient of variation (CV) is a calculated value that helps indicate unexplained variation in these studies. A smaller CV indicates less unexplained variation and more precise results.

## Planting

All plots were planted with a Wintersteiger Dynamic Disk vacuum, four-row, no-till planter, which is specialized for small plot work. Each hybrid seed was planted into plots consisting of four rows 30 inches apart and 20 feet long. Hybrid seed was planted at a rate of 32,000 in the non-irrigated locations and at 36,000 at the irrigated locations.

## Harvesting

All plots were harvested with a Haldrup C-85 two-row corn combine. The central two rows of each four-row plot were harvested. The grain weight, moisture content, and test weight of grain from each plot was measured with an electronic scale and moisture meter mounted on the combine. Yields were calculated for grain at 56 pounds per bushel and adjusted to 15.5 percent moisture. The test weight reported in each annual table for any hybrid is not corrected for harvest moisture and is reported at the moisture content for that hybrid listed in that table. Dropped ears were not gleaned from the plots. The total number of lodged plants was recorded at harvest.

The Kentucky Hybrid Corn Performance Test is divided into five tests: Early, Medium, Late maturities and White and Conventional (non-GMO) hybrids. These divisions provide evaluations of the hybrid groups without competition biases. The divisions do not allow for compar-

isons across groups. For example, a hybrid in the Early test cannot be compared to a hybrid in the Late. All tests were grown at all seven locations for a total of 35 tests.

The Early maturity hybrid group in Table 2E and all subsequent “E” tables, includes those hybrids rated by the parent seed company to mature in 111 days or earlier.

The Medium maturity hybrid group in Table 2M and all subsequent “M” tables includes those hybrids rated by the parent seed company to mature in 112-115 days.

The Late maturity hybrid group in Table 2L and all subsequent “L” tables include those hybrids rated by the parent seed company to mature in 116 days or later.

The White hybrid group in Table 2W and all subsequent “W” tables includes those hybrids with a white seed coat. The maturity for each hybrid is rated by the parent seed company.

The Conventional hybrid group in Table 2C and all subsequent “C” tables includes those hybrids that are non-GMO hybrids. The maturity for each hybrid is rated by the parent seed company.

Grain moisture of hybrids in the Early, Medium, and Late tests should be within the LSD for that test. Hybrids with grain moisture above the LSD likely belong in a

later-maturing test. Each hybrid is placed in the Early, Medium, and Late tests based on the hybrid maturity defined by the company.

## Acknowledgments

The authors sincerely appreciate efforts of the Kentucky Corn Growers Association in providing a Haldrup C-85 Corn plot combine through a very reasonable lease agreement. This combine contributes to improved accuracy of the data.

The authors are grateful to the following farmer-cooperators who not only provided land for testing but helped with the tests throughout the growing season:

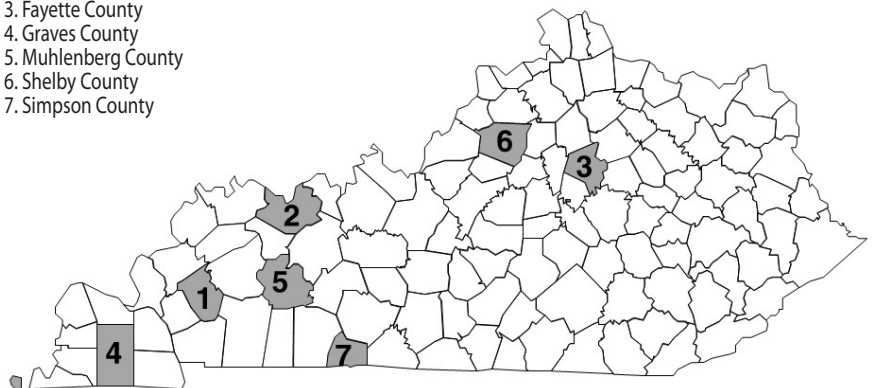
- Danny Miller and family of Bremen, KY
- Ellis Farms of Eminence, KY
- Jed Clark and family of Sedalia, KY
- Jason Strode and family of Owensboro, KY
- Randy Mann and family of Auburn, KY

The authors give special thanks to Ted Walker, John Stanhope and the entire crew of the College of Ag Farm Shop for keeping us going year-round.

Additional acknowledgments are made to the following people who helped conduct this year’s performance test.

**Figure 1. Locations of the 2019 Kentucky Hybrid Corn Performance Tests.**

1. Caldwell County
2. Daviess County
3. Fayette County
4. Graves County
5. Muhlenberg County
6. Shelby County
7. Simpson County



**Table 1. Hybrids tested in 2019.**

Company	Hybrid	TRAIT*	TEST	COLOR	CRM
AgriGold Hybrids Justin Warren 5381 Akin Rd St. Francisville, IL 62460 justin.warren@agrigold.com 800-262-7333	AgriGold A638-44DGV-2PRO	VT2PRO	E	Yellow	108
	AgriGold A641-06VT2RIB	VT2PRO	E	Yellow	111
	AgriGold A641-54VT2PRO	VT2PRO	E	Yellow	111
	AgriGold A642-59VT2RIB	VT2PRO	M	Yellow	112
	AgriGold A6544VT2RIB	VT2PRO	M	Yellow	113
	AgriGold A644-32TRCRIB	Trecepta	M	Yellow	114
	AgriGold A6572VT2RIB	VT2PRO	M	Yellow	114
	AgriGold A645-16VT2PRO	VT2PRO	M	Yellow	115
	AgriGold A6659VT2RIB	VT2PRO	L	Yellow	116
	AgriGold A647-46VT2PRO	VT2PRO	L	Yellow	117
Armor Seed Jay Middleton 2532 Alexander Dr Jonesboro, AR 72401 jaymiddleton@armorseed.com 270-832-2133	Armor 0887	VT2P	E	Yellow	108
	ARMOR A0919	VT2P	E	Yellow	109
	ARMOR X9110	VT2P/ASR	E	Yellow	110
	Armor 1118	VT2P	E	Yellow	111
	ARMOR A1299	VT2P	M	Yellow	112
	ARMOR X9115	VT2P/ASR	M	Yellow	115
Augusta Seed Corporation Matt Rawley PO Box 899 Verona, VA 24482 Matt.rawley@augustaseed.com 540-886-6055	Augusta 4465	3110GT	M	Yellow	115
	Augusta 4565	Duracade	M	Yellow	115
Blue River Organic Seed Ruth McCabe 2326 230th St Ames, IA 50014 ruth@blueriverorgseed.com 515-239-5925	66G25	None CONV.	C	Yellow	112
	74B75	None CONV.	C	Yellow	116
Caverndale Farms Brand Seed Barry Welty 1921 Bluegrass Pike Danville, KY 40422 bwelty@kywimax.com 859-236-2150	Caverndale CF 800	None CONV.	C	Yellow	110
	Caverndale CF 805	None CONV.	C	Yellow	110
	Caverndale CF 855	None CONV.	C	Yellow	114
	Caverndale CF 753GTCBLL	GT, CB, LL	E	Yellow	108
	Caverndale CF 794 VIPTERA 3111	GT, CB, LL, RW, BL	E	Yellow	109
	Caverndale CF 824 3120 E-Z Refuge	GT, CB, LL, HX1	M	Yellow	112
	Caverndale CF 859 VIPTERA 3111	GT, CB, LL, RW, BL	M	Yellow	114
Channel Whitney Monin 250 Dogwood Dr. Beaver Dam, KY 42320 whitney.monin@channel.com 515-314-8834	Channel 209-15VT2PRIB	VT2	E	Yellow	109
	Channel 215-60TRERIB	Trecepta	M	Yellow	115
	Channel 217-76VT2PRIB	VT2	L	Yellow	117
	Channel 218-44VT2PRIB	VT2	L	Yellow	118
DEKALB Glen Murphy 264 Persimmon Ridge Dr Louisville, KY 40245 glen.murphy@bayer.com 502-377-5053	DEKALB DKC60-84	None CONV.	C	Yellow	110
	DEKALB DKC64-85	None CONV.	C	Yellow	114
	DEKALB DKC68-69RIB	GENVT2PRIB	C	Yellow	118
	DEKALB DKC61-41RIB	GENVT2RIB	E	Yellow	111
	DEKALB DKC62-53RIB	GENVT2RIB	M	Yellow	112
	DEKALB DKC63-57RIB	GENVPRIB	M	Yellow	113
	DEKALB DKC63-91RIB	GENVT2RIB	M	Yellow	113
	DEKALB DKC64-32	GENVTP2RIB	M	Yellow	114
	DEKALB DKC64-35RIB	GENVT2PRIB	M	Yellow	114
	DEKALB DKC65-95RIB	GENVT2PRIB	M	Yellow	115
	DEKALB DKC65-99RIB	TRECEPTARIB	M	Yellow	115
	DEKALB DKC66-18RIB	GENVPRIB	L	Yellow	116
	DEKALB DKC67-44	None CONV.	L	Yellow	117
	DEKALB DKC70-27RIB	GENVT2PRIB	L	Yellow	120

- Dr. Kiersten Wise, Extension plant pathologist, Research and Education Center, Princeton, KY
- Nolan Anderson, Scientist I, Plant Pathology, Research and Education Center, Princeton, KY
- Scott Peek, farm manager, Research and Education Center, Princeton, KY.
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- Darrell Simpson, Extension agent, Muhlenberg County, KY
- Jason Phillips, Extension agent, Simpson County, KY
- Samantha Anderson, Extension agent, Graves County, KY
- Clint Hardy, Extension agent, Daviess County, KY

## Source of Seeds

The seeds planted in the 2019 Hybrid Corn Performance Test were acquired from the sources listed in Table 1.

**Table 1. Hybrids tested in 2019 (continued).**

<b>Company</b>	<b>Hybrid</b>	<b>Trait*</b>	<b>Test</b>	<b>Color</b>	<b>CRM</b>
Nutrien Ag Solutions Owensboro Landon Taylor 2760 Keller Rd Owensboro, KY 42301 landon.taylor@nutrien.com 270-231-6977	Dyna-Gro D52VC15	RIB	E	Yellow	112
	Dyna-Gro D54VC14	RIB	M	Yellow	114
	Dyna-Gro D56VC46	VP, RIB	L	Yellow	116
	Dyna-Gro D58VC65	SS, RIB	L	Yellow	118
Growmark Dennis Garzonio FS InVISION 1701 Towanda Ave Bloomington, IL 61702-2500 dgarzonio@growmark.com 309-557-6234	FS InVISION FS 62Z00	None CONV.	C	Yellow	112
	FS InVISION FS 67S00	None CONV.	C	Yellow	117
	FS InVISION FS 6194V RIB	VT2P RIB	E	Yellow	111
	FS InVISION FS 62ZV1 RIB	VT2P RIB	M	Yellow	112
	FS InVISION FS 63ZV1 RIB	VT2P RIB	M	Yellow	113
	FS InVISION FS 64SV1 RIB	VT2P RIB	M	Yellow	114
	FS InVISION FS 6595V RIB	VT2P RIB	M	Yellow	115
	FS InVISION FS 66ZV1 RIB	VT2P RIB	L	Yellow	116
FS InVISION FS 67SV1 RIB	VT2P RIB	L	Yellow	117	
LG Seeds Dan Mitchell 22827 Shissler Road Elmwood, IL 61529 dan.mitchell@lgseeds.com 812-457-3132	LG Seeds LG60C33VT2Pro	VT2Pro	E	Yellow	110
	LG Seeds LG62C35VT2Pro	VT2Pro	E	Yellow	111
	LG Seeds LG62C02VT2RIB	VT2Pro	M	Yellow	112
	LG Seeds LG5643VT2RIB	VT2Pro	M	Yellow	114
	LG Seeds LG64C30TRCRIB	Trecepta	M	Yellow	114
	LG Seeds LG5650VT2RIB	VT2Pro	M	Yellow	115
Local Seed Company Bradley Taylor 802 Rozelle St Memphis, TN 38104 bradley.taylor@localseed.com 662-402-1502	Local Seed LC0877 VT2P	VT2P	E	Yellow	108
	Local Seed LCX11-91	VT2P/ASR1	E	Yellow	111
	Local Seed LC1289 VT2P	VT2P	M	Yellow	112
	Local Seed AV8614 YHB	YHB	M	Yellow	114
	Local Seed LC1488 VT2P	VT2P	M	Yellow	114
	Local Seed LC1577 VT2P	VT2P	M	Yellow	115
	Local Seed LC1586 TC	Trecepta	M	Yellow	115
	Local Seed AV7516 YHB	YHB	L	Yellow	116
	Local Seed LCX16-91	SSX/RHS/ASR1	L	Yellow	116
	Local Seed LC1776 VT2P	VT2P	L	Yellow	117
	Local Seed LC1878 VT2P	VT2P	L	Yellow	117
	Local Seed LC1795 VT2P	VT2P/RHS/ASR1	L	Yellow	117
	Local Seed LC1987 VT2P	VT2P	L	Yellow	119
Mycogen Seeds Andrew Robinson 9330 Zionsville Rd Indianapolis, IN 46268 andrew.robinson@mycogen.com 317-431-9727	Mycogen REV 2098AM	AM, LL, GT	E	Yellow	110
	Mycogen REV 2358AM	AM, LL, GT	M	Yellow	113
	Mycogen REV 2397AM	AM, LL, GT	M	Yellow	113
	Mycogen REV 2499AM	AM, LL, GT	M	Yellow	114
	Mycogen MY14H95RA	AM, LL, GT	M	Yellow	114
NK Seeds Chuck Leonard 5210 State Rd 945 Hickory, KY 42051 chuck.leonard@syngenta.com 270-519-9600	NK Seed NK1354 3220EZ1	GT,LL,BT,RIB	M	Yellow	113
	NK Seed NK1573-3330EZ1	GT,LL,RIB	M	Yellow	115
NuTech Seed Keith Niemeier 201 Knollwood Dr Champaign, IL 61820 keith.niemeier@nutechseed.com 618-541-0605	NuTech Seed 0A-308	None CONV.	C	Yellow	108
	NuTech Seed 0A-7215	None CONV.	C	Yellow	115
	NuTech Seed 5FB-8808AM	Acre Max	E	Yellow	108
	NuTech Seed 68B3AML	Acre Max Lep	E	Yellow	108
	NuTech Seed 5FB-9909AM	Acre Max	E	Yellow	109
	NuTech Seed 5FB-1111AM	Acre Max	E	Yellow	111
	NuTech Seed 5FB-2213AM	Acre Max	M	Yellow	113
	NuTech Seed 74J1AML	Acre Max Lep	M	Yellow	114
	NuTech Seed 5FB-7215AM	Acre Max	M	Yellow	115
	NuTech Seed 5TB-6313AM	Acre Max	M	Yellow	115
	NuTech Seed 75D2AM	Acre Max	M	Yellow	115
	NuTech Seed 75G1AM	Acre Max	M	Yellow	115
	NuTech Seed 78A1AM	Acre Max	L	Yellow	118

**Table 1. Hybrids tested in 2019 (continued).**

Company	Hybrid	Trait*	Test	Color	CRM
Pioneer Mike Fouts 624 Players Crossing Way Bowling Green, KY 42104 mike.fouts@pioneer.com 270-791-8345	Pioneer P1197	None CONV.	C	Yellow	111
	Pioneer P1442	None CONV.	C	Yellow	114
	Pioneer P1870	None CONV.	C	Yellow	118
	Pioneer P1138AM	AM,LL,RR2	E	Yellow	111
	Pioneer P1197AM	AM,LL,RR2	E	Yellow	111
	Pioneer P1442YHR	YGCB,HX1,LL,RR2	M	Yellow	114
	Pioneer P1464VYHR	AVBL,YGCB,HX1,LL,RR3	M	Yellow	114
	Pioneer P1637AM	AM,LL,RR2	L	Yellow	116
	Pioneer P1847AML	AML, LL, RR2	L	Yellow	118
	Pioneer P1870AM	AM,LL,RR2	L	Yellow	118
	Pioneer P2089AML	AML,LL,RR3	L	Yellow	120
	Pioneer P1306WHR	HX1, LL, RR2	W	White	113
	Pioneer P1618W	None CONV.	W	White	116
	Pioneer P1620WAM	AM,LL,RR2	W	White	116
Pioneer 32B16	HX1, LL, RR2	W	White	117	
Progeny Ag Products John D. Rocconi 1529 HWY 93 Wynne, AR 72396 JohnR@progenyag.com 870-238-2079	Progeny Ag EXP1808	VT2P, RR	E	Yellow	108
	Progeny Ag PGY7111VT2P	VT2P, RR	E	Yellow	111
	Progeny Ag EXP1912	VT2P, RR	M	Yellow	112
	Progeny Ag EXP1913	VT2P, RR	M	Yellow	113
	Progeny Ag EXP1915	SS, RR, LL	M	Yellow	115
	Progeny Ag PGY 9114VT2P	VT2P, RR	M	Yellow	114
	Progeny Ag PGY6116VT2P	VT2P, RR	L	Yellow	116
Progeny Ag PGY8116SS	SS, RR, LL	L	Yellow	116	
Progeny Ag PGY9117VT2P	VT2P, RR	L	Yellow	117	
Seed Consultants Inc. Bill McDonald 648 Miami Trace Rd. SW Washington Court House, OH 43160 bill.mcdonald@seedconsultants.com 800-708-2676	Seed Consultants SCS 1087YHR	Intrasect	E	Yellow	108
	Seed Consultants SCS 1139AM	AcreMax	M	Yellow	113
	Seed Consultants SC-EX 115YHR	AcreMax	M	Yellow	115
	Seed Consultants SC- S1158YHR™	Intrasect	M	Yellow	115
	Seed Consultants SC- S1168YHR™	Intrasect	L	Yellow	116
Seed Consultants SCS 1188AM	AcreMax	L	Yellow	118	
Spectrum Non-GMO Jeff Linn 4105 Haggerty Ln, Suite C Lafayette, IN 47905 jeff.linn@spectrumseed.com 765-586-9360	Spectrum Non-GMO 6115	None CONV.	C	Yellow	111
	Spectrum Non-GMO 6244	None CONV.	C	Yellow	112
	Spectrum Non-GMO EXP112	None CONV.	C	Yellow	112
	Spectrum Non-GMO 6416	None CONV.	C	Yellow	114
Stewart Seeds Justin Petrosino 127 N Grove Street Bowling Green, OH 43402 justin.petrosino@stewartseeds.com 419-681-3427	Stewart 09D140	DGVT2PRO	E	Yellow	109
	Stewart 10DP099	VT2PRO	E	Yellow	110
	Stewart 8E623RIB	VT2PRO	M	Yellow	112
	Stewart 13DD360	DGVT2PRO	M	Yellow	113
	Stewart 14DD339	DGVT2PRO	M	Yellow	114
	Stewart 15DP519	VT2PRO	M	Yellow	115
	Stewart 16DP117	VT2PRO	L	Yellow	116
	Stewart 16DP310	VT2PRO	L	Yellow	116
	Stewart 17DP387	VT2PRO	L	Yellow	117
Taylor Seed Farms m 785-595-3236	Taylor 8824	VT2P	M	Yellow	113
	Taylor 8835	VT2P	M	Yellow	114
	Taylor 8877	VT2P	L	Yellow	116
Warren Seed & Agronomy Service Lanny Warren 208 South Thompson St Union City, TN 38261 lanny.warren@charter.net 731-885-6595	Warren Seed DS 5018	YHR	E	Yellow	110
	Warren Seed DS 5319	YHR	M	Yellow	113
	Warren Seed DS 5329	AM	M	Yellow	113
	Warren Seed DS 7513	PowerCore	M	Yellow	114
	Warren Seed DS 5510	YHR	M	Yellow	115
Warren Seed DS 7215	PowerCore	M	Yellow	115	

**\*Trait:**

**3110, 3111, 3122, 3220:** Syngenta 3000 GT (Triple)

**AM:** AcreMax = YieldGard corn borer resistance, Herculex corn rootworm resistance, Liberty Link glufosinate tolerance, glyphosate tolerance, 5% refuge in a bag

**ASR:** Anthracnose stalk rot resistance

**BT:** corn borer resistance

**BTCB:** corn borer resistance

**BTRW:** corn rootworm resistance

**CB:** corn borer resistance

**Conv:** Conventional, No GMO Traits

**DG:** DroughtGard

**Duracade:** Above ground pest resistance plus rootworm resistance

**Enlist:** 2,4-D resistance

**GENVT3P:** Roundup Ready 2 glyphosate tolerance, YieldGard VT corn borer resistance, corn rootworm resistance

**GT3000:** AgriSure glyphosate tolerance, AgriSure corn borer resistance and AgriSure corn rootworm resistance

**GT:** AgriSure glyphosate tolerance

**HX&HX1:** Herculex corn rootworm resistance

**HXT:** Herculex glufosinate tolerance, corn borer resistance, corn rootworm resistance, cutworm tolerance

**Lep (Lepidoptera):** Corn Borer and corn earworm resistance

**LL:** Liberty Link glufosinate tolerance

**Intrasect:** YGCB, HX1, LL, RR2

**Power Core, PCRA, PWRA, PC:** VT2PRO + HX1 + above ground traits

**RHS:** Glyphosate tolerance

**RHXT:** Liberty Link glufosinate tolerance, Roundup Ready glyphosate tolerance, Herculex corn borer resistance, Herculex corn rootworm resistance, Herculex cutworm tolerance

**RIB:** Refuge in a Bag

**RR:** Roundup Ready Corn glyphosate tolerance

**RR2:** Roundup Ready Corn 2 glyphosate tolerance

**Smart Stax (SS, STX, or SSX):** Roundup Ready glyphosate tolerance, Liberty Link glufosinate tolerance, YieldGard corn borer resistance, Herculex corn rootworm resistance, Herculex corn borer resistance, YieldGard corn rootworm resistance, Herculex cutworm tolerance

**TRECEPTA:** resistance to above ground insects

**TS:** Roundup Ready glyphosate tolerance, YieldGard corn borer resistance, YieldGard corn rootworm resistance

**YG:** YieldGard corn borer resistance

**YGBT:** YieldGard corn borer resistance

**YGCB:** YieldGard corn borer resistance

**YGRW:** YieldGard corn rootworm resistance

**YHR:** YieldGard corn borer resistance, Herculex corn rootworm resistance, Liberty Link glufosinate tolerance, glyphosate tolerance

**VIP:** Agrisure Viptera

**VT3:** Roundup Ready glyphosate tolerance, YieldGard VT corn borer resistance and YieldGard corn rootworm resistance

**VT3P:** Roundup Ready 2 glyphosate tolerance, YieldGard VT corn borer resistance and YieldGard VT corn rootworm resistance

**VT3PRO:** Roundup Ready 2 glyphosate tolerance, YieldGard VT corn borer resistance and YieldGard VT corn rootworm resistance

**VT3PRORIBC:** Roundup Ready 2 glyphosate tolerance, YieldGard VT corn borer resistance and YieldGard VT corn rootworm resistance, Refuge in a Bag

**VT2PRO, PRO2:** Roundup Ready 2 glyphosate tolerance, YieldGard VT corn borer resistance

**VT2PRORIBC:** Roundup Ready 2 glyphosate tolerance, YieldGard VT corn borer resistance, Refuge in a Bag

**RA:** Refuge Advanced

**RW:** corn rootworm resistance

**\*\*Test:** E = Early, M = Medium, L = Late, W = White

**™ = Trademark**

**\*\*\*CRM:** Cumulative Relative Maturity

**Table 2E. State summary, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Progeny Ag EXP1808	221.1			60.0	15.5	96	0	Pioneer P1138AM	202.4	208.4		61.0	17.2	93	0
Stewart 09DD140	220.0			59.1	16.1	93	0	Armor 1118	202.3	215.8		60.6	16.8	94	0
Stewart 10DP099	219.0	226.9		61.1	16.3	93	0	Caverndale CF 753GTCBLL	201.5	210.2		60.5	16.1	92	0
Armor 0887	214.9	218.0		60.2	15.4	95	0	Caverndale CF 794 VIPTERA	199.1			61.9	18.1	93	0
FS InVISION FS 6194V RIB	214.6			60.4	16.7	95	0	3111							
Channel 209-15VT2PRIB	211.8	226.7		60.3	16.8	95	0	AgriGold A638-44DGV2PRO	198.8			56.8	15.3	97	0
NuTech Seed 5FB-8808AM	208.7			60.5	16.2	94	0	NuTech Seed 68B3AML	197.6			61.0	16.7	96	0
Mycogen REV 2098AM	208.0			60.2	15.8	94	0	Seed Consultants SCS	196.6	217.9		60.0	16.0	93	0
LG Seeds LG60C33VT2Pro	207.1			60.5	16.9	95	0	1087YHR							
ARMOR X9110	206.8			60.1	16.6	93	0	AgriGold A641-54VT2PRO	195.1			60.6	16.6	96	0
AgriGold A641-06VT2RIB	206.8	214.9		61.3	16.5	99	0	Pioneer P1197AM	194.8	205.4	211.4	60.4	16.6	94	0
NuTech Seed 5FB-9909AM	206.5			59.7	15.4	94	0	Local Seed LCX11-91	186.5			60.6	16.3	92	0
DEKALB DKC61-41RIB	206.4			59.2	16.4	95	0	ARMOR A0919	181.8			61.1	15.8	95	0
LG Seeds LG62C35VT2Pro	206.3			60.2	16.7	92	0	<b>Average</b>	<b>203.7</b>	<b>216.3</b>	<b>216.0</b>	<b>60.3</b>	<b>16.3</b>	<b>94</b>	<b>0</b>
Warren Seed DS 5018	205.9			60.2	16.0	97	0	C.V.	11.2	9.8	9.7	4.9	4.5	4	1403
PROGENY PGY7111VT2P	204.9	218.6	220.5	59.6	16.4	95	0	LSD	19.4	27.8	22.4	2.5	0.6	3	0
Local Seed LC0877 VT2P	204.1			59.9	16.1	92	0	Early varieties: 111 days or less to maturity							
NuTech Seed 5FB-1111AM	203.4			61.2	17.2	90	0	Shaded cells are not significantly different from top yield (0.10)							

**Table 2L. State summary, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Channel 218-44VT2PRIB	228.7	219.3	226.8	60.6	17.7	97	0	Local Seed LC1776 VT2P	204.3			61.7	18.8	96	0
DEKALB DKC67-44	226.1	227.0	230.8	61.5	17.6	97	0	DEKALB DKC70-27RIB	204.0	218.3	223.7	61.0	18.6	95	0
DEKALB DKC66-18RIB	223.1			61.3	17.3	96	0	ARMOR X9116	203.2			61.8	18.5	93	0
Channel 217-76VT2PRIB	220.9			60.8	16.9	96	0	Taylor 8877	202.6			62.0	19.4	98	0
NuTech Seed 78A1AM	220.7			62.4	18.9	96	0	Caverndale CF 888 3000GT	201.5	212.0	214.3	59.9	20.3	92	0
AgriGold A648-54STX	217.1			61.2	19.5	98	0	Progeny Ag PGY8116SS	201.2	206.1		62.4	18.3	97	0
Seed Consultants SCS	214.1			62.9	18.0	96	0	Local Seed LC1878 VT2P	200.3			62.3	18.4	95	0
1170AM								Pioneer P1637AM	200.2	198.6	207.9	61.9	17.5	96	0
Stewart 16DP310	213.9			62.0	18.0	97	0	Dyna-Gro D56VC46	200.1	215.4		60.7	19.1	94	0
Dyna-Gro D58VC65	213.2	221.7	221.9	61.5	18.7	97	0	Local Seed LC1987 VT2P	199.1			61.7	19.5	96	0
Stewart 16DP117	213.0	220.5		61.2	20.5	97	0	Local Seed LCX16-91	199.1			62.7	18.4	97	0
Progeny Ag PGY9117VT2P	212.4			63.2	18.2	95	0	Local Seed LC1795 VT2P	198.2			60.7	19.5	96	0
Pioneer P2089AML	210.8	213.2		59.6	18.8	97	0	Progeny Ag PGY6116VT2P	195.3	210.6	215.9	59.4	19.9	95	0
AgriGold A647-46VT2PRO	210.7			61.9	18.6	98	0	FS InVISION FS 67SV1 RIB	194.7	202.1		61.5	19.4	94	0
Pioneer P1870AM	210.0	214.2		61.8	19.1	97	0	FS InVISION FS 66ZV1 RIB	189.3	202.9	210.2	61.0	18.6	92	0
Pioneer P1847AML	209.1	217.3		61.7	19.7	96	0	AgriGold A6659VT2RIB	183.8	203.1	208.5	61.7	18.0	98	0
Local Seed AV7516 YHB	208.9			62.7	18.7	96	0	<b>Average</b>	<b>207.1</b>	<b>212.5</b>	<b>217.5</b>	<b>61.5</b>	<b>18.7</b>	<b>96</b>	<b>0</b>
Stewart 17DP387	208.8	211.9	214.9	62.3	19.0	95	0	C.V.	8.7	8.7	9.5	2.9	5.2	4	907
DEKALB DKC68-69RIB	207.2			62.4	20.7	96	0	LSD	12.9	24.9	22.4	1.3	0.7	3	0
Seed Consultants SC-	205.5	210.7	217.5	60.7	17.4	94	0	Late varieties: 116 or more days to maturity							
S1168YHR™								Shaded cells are not significantly different from top yield (0.10)							
Seed Consultants SCS	204.9			61.7	18.9	97	0								
1188AM															

**Table 2W. State summary, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Pioneer P1620WAM	200.0	203.3	205.5	63.4	18.1	98	0
Pioneer P1306WHR	199.2	200.6	206.6	62.8	16.7	97	0
Pioneer 32B16	192.9	201.3	201.9	61.1	19.0	92	0
Pioneer P1618W	187.1			63.6	17.7	99	0
<b>Average</b>	<b>196.1</b>	<b>201.7</b>	<b>204.7</b>	<b>62.8</b>	<b>17.5</b>	<b>98</b>	<b>0</b>
C.V.	5.9	5.5	7.3	1.7	3.3	3	793
LSD	8.5	15.0	16.4	0.8	0.4	2	0

Shaded cells are not significantly different from top yield (0.10)

**Table 2M. State summary, medium, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
AgriGold A642-59VT2RIB	218.9	217.1		60.5	17.2	97	0	DEKALB DKC64-35RIB	201.3	214.1	216.9	62.4	17.1	94	0
AgriGold A6544VT2RIB	218.4	228.6	231.9	60.4	17.4	99	0	FS InVISION FS 64SV1 RIB	200.7	213.1		60.1	17.5	99	0
Progeny Ag PGY 9114VT2P	217.7	219.7		62.0	17.9	97	0	DEKALB DKC63-57RIB	200.0	214.7		61.0	16.9	97	0
DEKALB DKC63-91RIB	217.6			59.8	16.1	98	0	Stewart 8E623RIB	199.5	213.4	217.7	59.9	17.0	98	0
Progeny Ag EXP1912	217.1			61.1	16.7	96	0	Local Seed AV8614 YHB	199.5			60.6	17.6	97	0
Taylor 8824	216.6			62.4	17.9	94	0	Warren Seed DS 7513	198.8	210.4	212.4	57.8	19.5	90	0
DEKALB DKC65-99RIB	216.3			61.4	17.9	101	0	NK Seed NK1354 3220EZ1	197.8			59.2	17.3	98	0
Local Seed LC1289 VT2P	213.4			60.6	17.0	94	0	Caverndale CF 859 VIPTERA 3111	197.5			62.5	18.4	91	0
Channel 215-60TRERIB	213.2	224.9		59.3	17.6	97	0	DEKALB DKC65-95RIB	197.4	209.9		62.1	17.9	97	0
LG Seeds LG5643VT2RIB	212.1	216.5	224.2	60.0	17.6	99	0	AgriGold A644-32TRCRIB	197.3			61.3	17.7	92	0
NK Seed NK1573-3330EZ1	211.2			59.7	16.9	99	0	Local Seed LC1488 VT2P	197.1			61.0	16.3	98	0
Stewart 15DP519	211.0	220.6		60.5	18.5	97	0	LG Seeds LG62C02VT2RIB	196.6	204.3		61.6	16.5	98	0
FS InVISION FS 6595V RIB	210.5			60.7	18.6	99	0	Caverndale CF 824 3120 E-Z Refuge	195.9	203.2	211.3	57.9	16.7	96	0
Mycogen MY14H95RA	210.4			58.0	18.9	98	0	Taylor 8835	194.7			62.4	18.6	94	0
ARMOR X9115	210.3			60.5	18.3	100	0	Pioneer P1464VYHR	194.5			60.9	18.3	98	0
Mycogen REV 2358AM	209.8			59.3	18.1	94	0	NuTech Seed 5TB-6313AM	193.2			59.8	18.3	95	0
Stewart 13DD360	209.7			59.7	17.1	97	0	Warren Seed DS 5319	189.5			62.3	17.6	96	0
ARMOR A1299	209.1			61.1	16.3	95	0	Progeny Ag EXP1915	188.9			62.8	19.0	99	0
Stewart 14DD339	208.9	218.2		60.2	17.5	98	0	Local Seed LC1586 TC	188.5			62.1	18.4	90	0
Warren Seed DS 7215	207.9	212.5		57.4	19.3	99	0	Mycogen REV 2397AM	188.1			62.2	17.1	97	0
FS InVISION FS 62ZV1 RIB	206.3			60.5	17.0	100	0	Mycogen REV 2499AM	187.7			60.5	18.3	96	0
Warren Seed DS 5329	205.6			59.8	17.3	97	0	LG Seeds LG64C30TRCRIB	187.6	208.7		61.4	17.9	91	0
NuTech Seed 75D2AM	204.6			60.4	16.1	97	0	FS InVISION FS 63ZV1 RIB	187.1	195.1		63.1	17.5	99	0
Progeny Ag EXP1913	204.2			61.4	17.5	98	0	Seed Consultants SCS 1139AM	181.2			62.2	17.5	98	0
LG Seeds LG5650VT2RIB	204.2	208.6	214.1	62.6	17.8	99	0	NuTech Seed 5FB-7215AM	179.9			60.6	18.2	96	0
Warren Seed DS 5510	204.1			62.1	18.6	99	0	NuTech Seed 5FB-2213AM	173.4			62.6	17.2	95	0
Dyna-Gro D54VC14	203.9	219.0		62.2	17.6	95	0	Seed Consultants SC-S1158YHR™	170.8	191.5	203.3	61.8	18.2	98	0
NuTech Seed 75G1AM	203.6			62.3	18.5	97	0	NuTech Seed 74J1AML	166.3			61.5	18.8	99	0
Dyna-Gro D52VC15	203.3	217.2		60.9	17.1	98	0	<b>Average</b>	<b>200.5</b>	<b>212.5</b>	<b>215.7</b>	<b>60.9</b>	<b>17.7</b>	<b>97</b>	<b>0</b>
Pioneer P1442YHR	203.0			61.9	18.2	93	0	C.V.	12.2	10.7	11.3	2.0	4.4	4	1413
Augusta 4465	203.0	216.2		60.1	17.1	97	0	LSD	17.7	29.7	25.9	0.9	0.6	3	0
AgriGold A6572VT2RIB	202.7	203.3	209.7	62.8	17.7	100	0	Medium varieties: 112-115 days to maturity Shaded cells are not significantly different from top yield (0.10)							
Augusta 4565	202.6			59.5	18.0	99	0								
AgriGold A645-16VT2PRO	202.2			60.5	18.3	98	0								
DEKALB DKC62-53RIB	202.0	212.2		60.8	17.2	97	0								
Local Seed LC1577 VT2P	201.4			62.2	17.7	98	0								

**Table 2C. State summary, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
DEKALB DKC64-32	224.4	221.9		61.9	17.0	96	0	NuTech Seed 0A-308	202.1			61.0	15.1	97	1
DEKALB DKC60-84	223.6			61.2	16.3	98	1	FS InVISION FS 67S00	201.7			61.9	19.3	92	0
Pioneer P1197	223.5	225.6		59.6	15.9	96	0	Spectrum Non-GMO 6115	200.7			59.8	16.0	96	0
FS InVISION FS 62Z00	223.3			59.9	16.8	98	0	Spectrum Non-GMO 6244	198.6			59.3	17.0	90	0
Spectrum Non-GMO EXP112	221.9			60.7	16.6	98	0	Caverndale CF 800	195.3			59.7	16.8	88	0
Pioneer P1870	219.2			63.2	17.6	101	0	Blue River Hybrids 66G25	186.6			61.1	17.7	96	0
Spectrum Non-GMO 6416	215.3			57.7	18.3	93	0	Caverndale CF 805	161.9			61.2	16.6	96	0
NuTech Seed 0A-7215	210.8			60.6	17.9	96	0	<b>Average</b>	<b>209.5</b>	<b>215.7</b>	<b>206.0</b>	<b>60.7</b>	<b>17.1</b>	<b>95</b>	<b>0</b>
Blue River Hybrids 74B75	209.0			59.0	17.9	95	0	C.V.	7.0	8.1	9.2	3.8	4.8	5	428
Pioneer P1442	208.5			61.6	18.1	97	0	LSD	10.6	23.0	21.4	1.7	0.6	3	0
DEKALB DKC64-85	203.8	209.9	206.0	61.3	16.1	95	0	Shaded cells are not significantly different from top yield (0.10)							
Caverndale CF 855	203.4	205.2		63.3	17.9	88	0								

**Table 3E. Caldwell County, early, 2019 (disease ratings).**

Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)
AgriGold A638-44DGV2PRO	3.0	3.3	DEKALB DKC61-41RIB	3.0	0.3	NuTech Seed 68B3AML	3.0	0.0
AgriGold A641-06VT2RIB	2.3	1.7	FS InVISION FS 6194V RIB	1.0	4.3	Pioneer P1138AM	6.7	2.0
AgriGold A641-54VT2PRO	1.0	0.0	LG Seeds LG60C33VT2Pro	1.7	0.0	Pioneer P1197AM	2.0	0.0
Armor 0887	2.3	0.0	LG Seeds LG62C35VT2Pro	1.0	0.0	Progeny Ag EXP1808	4.3	0.0
Armor 1118	1.0	3.3	Local Seed LC0877 VT2P	3.7	0.0	PROGENY PGY7111VT2P	2.3	0.0
ARMOR A0919	3.0	1.7	Local Seed LCX11-91	1.7	0.0	Seed Consultants SCS 1087YHR	1.7	6.7
ARMOR X9110	2.3	0.0	Mycogen REV 2098AM	1.0	10.0	Stewart 09DD140	1.7	2.0
Caverndale CF 753GTCBLL	2.3	2.0	NuTech Seed 5FB-1111AM	3.0	0.0	Stewart 10DP099	4.0	2.7
Caverndale CF 794 VIPTERA 3111	2.3	3.3	NuTech Seed 5FB-8808AM	4.3	2.3	Warren Seed DS 5018	1.0	6.0
Channel 209-15VT2PRIB	2.3	0.0	NuTech Seed 5FB-9909AM	1.7	8.3			

**Table 3L. Caldwell County, late, 2019 (disease ratings).**

Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)
AgriGold A647-46VT2PRO	4.3	0.0	FS InVISION FS 66ZV1 RIB	1.7	0.0	Progeny Ag PGY6116VT2P	1.7	1.7
AgriGold A648-54STX	1.7	0.0	FS InVISION FS 67SV1 RIB	1.7	0.0	Progeny Ag PGY8116SS	2.3	0.0
AgriGold A6659VT2RIB	4.3	1.0	Local Seed AV7516 YHB	1.0	0.3	Progeny Ag PGY9117VT2P	7.0	0.3
ARMOR X9116	2.3	0.3	Local Seed LC1776 VT2P	7.7	0.0	Seed Consultants SCS 1170AM	3.0	0.3
Caverndale CF 888 3000GT	1.7	0.3	Local Seed LC1878 VT2P	4.3	0.0	Seed Consultants SCS 1188AM	1.7	4.3
Channel 217-76VT2PRIB	2.3	0.0	Local Seed LC1987 VT2P	3.0	0.3	Seed Consultants SCS1168YHR™	1.7	0.0
Channel 218-44VT2PRIB	1.7	0.0	Local Seed LCX16-91	1.0	0.7	Stewart 16DP117	1.7	0.3
DEKALB DKC66-18RIB	1.7	0.3	Local Seed LC1795 VT2P	2.3	1.3	Stewart 16DP310	1.0	0.3
DEKALB DKC67-44	3.7	0.0	NuTech Seed 78A1AM	1.7	2.7	Stewart 17DP387	1.0	0.0
DEKALB DKC68-69RIB	1.0	0.0	Pioneer P1637AM	3.0	3.0	Taylor 8877	2.3	0.0
DEKALB DKC70-27RIB	1.7	0.0	Pioneer P1847AML	3.7	0.3			
Dyna-Gro D56VC46	2.3	0.3	Pioneer P1870AM	2.3	0.0			
Dyna-Gro D58VC65	6.0	0.3	Pioneer P2089AML	1.7	0.7			

**Table 3W. Caldwell County, white, 2019 (disease ratings).**

Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)
Pioneer 32B16	1.0	1.3
Pioneer P1306WHR	1.0	1.3
Pioneer P1618W	1.0	2.0
Pioneer P1620WAM	1.7	0.0



**Table 3M. Caldwell County, medium, 2019 (disease ratings).**

Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)
AgriGold A642-59VT2RIB	3.0	0.0	FS InVISION FS 63ZV1 RIB	5.3	0.0	NuTech Seed 75D2AM	2.3	1.0
AgriGold A644-32TRCRIB	2.0	0.5	FS InVISION FS 64SV1 RIB	2.3	0.3	NuTech Seed 75G1AM	1.7	0.0
AgriGold A645-16VT2PRO	1.7	0.3	FS InVISION FS 6595V RIB	1.7	0.0	Pioneer P1442YHR	3.0	1.0
AgriGold A6544VT2RIB	1.0	2.0	LG Seeds LG5643VT2RIB	2.3	0.0	Pioneer P1464VYHR	1.7	4.7
AgriGold A6572VT2RIB	2.3	0.0	LG Seeds LG5650VT2RIB	1.7	2.0	Progeny Ag EXP1912	1.0	0.0
ARMOR A1299	1.0	0.3	LG Seeds LG62C02VT2RIB	1.7	2.0	Progeny Ag EXP1913	1.0	0.3
ARMOR X9115	1.0	0.3	LG Seeds LG64C30TRCRIB	1.7	0.0	Progeny Ag EXP1915	1.7	0.3
Augusta 4465	1.7	0.3	Local Seed AV8614 YHB	1.0	7.3	Progeny Ag PGY 9114VT2P	3.0	1.3
Augusta 4565	3.0	0.0	Local Seed LC1289 VT2P	5.7	0.3	Seed Consultants SCS 1139AM	1.7	3.3
Caverndale CF 824 3120 E-Z Refuge	6.7	5.0	Local Seed LC1488 VT2P	2.3	1.0	Seed Consultants SCS1158YHR™	1.0	1.0
Caverndale CF 859 VIPTERA 3111	2.3	0.3	Local Seed LC1577 VT2P	2.3	0.3	Stewart 13DD360	2.3	0.0
Channel 215-60TRERIB	1.0	0.3	Local Seed LC1586 TC	1.0	1.0	Stewart 14DD339	1.0	0.0
DEKALB DKC62-53RIB	1.0	0.3	Mycogen MY14H95RA	1.0	0.7	Stewart 15DP519	1.0	0.0
DEKALB DKC63-57RIB	1.7	0.3	Mycogen REV 2358AM	1.0	0.7	Stewart 8E623RIB	2.3	1.0
DEKALB DKC63-91RIB	3.7	0.0	Mycogen REV 2397AM	1.0	5.0	Taylor 8824	2.3	0.3
DEKALB DKC64-35RIB	2.3	0.0	Mycogen REV 2499AM	1.0	1.5	Taylor 8835	3.0	1.3
DEKALB DKC65-95RIB	2.3	0.0	NK Seed NK1354 3220EZ1	3.0	2.3	Warren Seed DS 5319	1.0	2.0
DEKALB DKC65-99RIB	1.0	0.7	NK Seed NK1573-3330EZ1	3.7	1.0	Warren Seed DS 5329	1.7	0.0
Dyna-Gro D52VC15	2.3	0.3	NuTech Seed 5FB-2213AM	1.7	1.3	Warren Seed DS 5510	1.0	1.3
Dyna-Gro D54VC14	1.0	1.0	NuTech Seed 5FB-7215AM	2.3	4.0	Warren Seed DS 7215	2.3	0.3
FS InVISION FS 62ZV1 RIB	3.0	0.3	NuTech Seed 5TB-6313AM	3.0	0.0	Warren Seed DS 7513	13.3	0.0
			NuTech Seed 74J1AML	3.7	0.3			

**Table 3C. Caldwell County, conventional, 2019 (disease ratings).**

Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern corn leaf blight severity (%)
Blue River Hybrids 66G25	2.3	2.0	DEKALB DKC64-85	3.7	1.0	Pioneer P1870	4.3	0.7
Blue River Hybrids 74B75	2.3	0.0	FS InVISION FS 62Z00	3.7	0.0	Spectrum Non-GMO 6115	8.0	0.0
Caverndale CF 800	1.7	0.3	FS InVISION FS 67S00	2.3	0.0	Spectrum Non-GMO 6244	2.3	0.3
Caverndale CF 805	3.0	0.3	NuTech Seed 0A-308	5.0	0.0	Spectrum Non-GMO 6416	3.0	0.0
Caverndale CF 855	1.7	1.3	NuTech Seed 0A-7215	3.7	9.3	Spectrum Non-GMO EXP112	1.7	0.0
DEKALB DKC60-84	3.0	0.3	Pioneer P1197	3.0	0.0			
DEKALB DKC64-32	1.7	1.0	Pioneer P1442	1.0	3.0			

**Table 4E. Caldwell County, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Stewart 09DD140	244.4			58.5	14.7	95	0	AgriGold A638-44DGV2PRO	203.0			40.3	13.1	97	0
NuTech Seed 5FB-8808AM	238.0			58.5	14.2	99	0	Pioneer P1197AM	202.3	173.8	187.2	59.7	14.4	91	0
Stewart 10DP099	236.8	213.3		60.1	15.0	90	0	NuTech Seed 5FB-1111AM	201.1			60.7	15.1	87	0
Caverndale CF 794 VIPTERA 3111	228.4			62.7	16.3	93	0	AgriGold A641-54VT2PRO	200.6			60.1	14.7	96	0
Armor 0887	227.6	186.6		59.5	14.2	96	0	DEKALB DKC61-41RIB	188.0			57.9	13.6	99	0
NuTech Seed 5FB-8808AM	227.6			60.2	14.6	97	0	PROGENY PGY7111VT2P	179.9	141.8	160.4	58.2	14.0	90	0
Channel 209-15VT2PRIB	227.4	184.4		60.4	15.2	95	0	Pioneer P1138AM	179.9	173.4		61.5	14.7	89	0
NuTech Seed 5FB-9909AM	217.3			58.9	13.9	96	0	Seed Consultants SCS 1087YHR	176.2	167.6		59.1	13.9	88	0
Warren Seed DS 5018	216.5			59.2	14.1	96	0	NuTech Seed 68B3AML	170.8			60.1	14.4	91	0
LG Seeds LG62C35VT2Pro	213.9			59.7	14.7	85	0	ARMOR A0919	164.6			59.7	14.3	91	0
FS InVISION FS 6194V RIB	213.5			59.9	15.3	93	0	Local Seed LCX11-91	160.6			59.1	13.6	88	0
Local Seed LC0877 VT2P	213.3			58.4	13.8	92	0	<b>Average</b>	<b>205.3</b>	<b>179.3</b>	<b>173.8</b>	<b>59.1</b>	<b>14.4</b>	<b>93</b>	<b>0</b>
ARMOR X9110	213.3			58.9	14.9	93	0	C.V.	15.0	20.7	17.5	10.9	4.9	5	0
Caverndale CF 753GTCBLL	212.1	194.1		60.5	14.4	88	0	LSD	60.4	54.4	37.3	12.5	1.4	10	0
LG Seeds LG60C33VT2Pro	210.4			60.2	15.1	94	0	Early varieties: 111 days or less to maturity Shaded cells are not significantly different from top yield (0.10) Planted: April 10, 2019; Harvested: September 19, 2019 Soil type: Crider silt loam; Previous crop: soybean; Fertilizer: 182/0/50							
Mycogen REV 2098AM	207.9			59.6	13.7	95	0								
Armor 1118	206.4	178.7		60.3	14.7	92	0								
AgriGold A641-06VT2RIB	203.2	179.6		60.5	14.5	100	0								

**Table 4L. Caldwell County, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Channel 217-76VT2PRIB	265.7			60.7	10.5	98	0	Local Seed LCX16-91	233.7			62.3	16.4	98	0
Dyna-Gro D58VC65	263.6	222.4	217.0	62.1	16.4	100	0	Stewart 17DP387	233.2	191.0	196.9	62.2	17.6	92	0
Pioneer P1847AML	254.6	203.0		62.0	17.8	98	0	Local Seed LC1795 VT2P	232.8			59.9	17.0	96	0
Channel 218-44VT2PRIB	254.5	205.0	208.5	59.1	15.7	94	0	AgriGold A6659VT2RIB	232.6	194.9	196.4	61.1	16.2	97	0
Pioneer P2089AML	253.0	188.0		60.4	16.3	99	0	Dyna-Gro D56VC46	232.3	204.9		61.4	17.0	92	0
Seed Consultants SCS 1170AM	252.3			62.5	16.5	96	0	ARMOR X9116	232.0			60.3	17.1	92	0
DEKALB DKC66-18RIB	250.5			60.5	16.1	96	0	Local Seed LC1878 VT2P	229.9			61.8	17.2	91	0
NuTech Seed 78A1AM	249.9			62.8	16.4	93	0	Seed Consultants SCS 1188AM	227.8			61.1	16.4	95	0
Local Seed AV7516 YHB	249.6			62.9	16.5	96	0	DEKALB DKC70-27RIB	227.0	192.4	198.0	61.1	16.1	94	0
Local Seed LC1776 VT2P	248.3			61.8	16.2	95	0	Caverndale CF 888 3000GT	226.9	187.0	186.0	60.0	17.7	91	0
DEKALB DKC68-69RIB	247.4			63.0	18.0	96	0	Progeny Ag PGY6116VT2P	226.1	202.9	202.1	59.7	16.6	93	0
DEKALB DKC67-44	247.0	212.4	208.1	60.4	16.3	93	0	FS InVISION FS 66ZV1 RIB	224.1	198.6	197.4	61.0	17.0	87	0
Pioneer P1870AM	245.1	179.7		61.6	16.9	98	0	Local Seed LC1987 VT2P	223.5			62.2	17.0	93	0
Seed Consultants SC-S1168YHR™	244.4	191.2	186.3	60.5	14.7	98	0	Progeny Ag PGY8116SS	223.0	205.1		62.4	16.3	94	0
AgriGold A648-54STX	243.4			61.1	16.5	97	0	FS InVISION FS 67SV1 RIB	222.3	204.6		60.2	16.9	90	0
Pioneer P1637AM	243.3	200.1	198.7	62.4	15.3	97	0	<b>Average</b>	<b>239.7</b>	<b>198.9</b>	<b>199.6</b>	<b>61.3</b>	<b>16.5</b>	<b>95</b>	<b>0</b>
Stewart 16DP117	241.6	197.4		61.2	18.2	97	0	C.V.	4.4	12.5	11.2	1.0	9.2	3	0
AgriGold A647-46VT2PRO	239.4			61.4	17.2	95	0	LSD	20.6	36.3	26.1	1.2	3.0	6	0
Stewart 16DP310	238.0			61.3	16.4	95	0	Late varieties: 116 days or more to maturity Shaded cells are not significantly different from top yield (0.10) Planted: April 10, 2019; Harvested: September 19, 2019 Soil type: Crider silt loam; Previous crop: soybean; Fertilizer: 182/0/50							
Taylor 8877	236.8			62.4	17.8	100	0								
Progeny Ag PGY9117VT2P	234.9			61.6	16.4	92	0								

**Table 4W. Caldwell County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Pioneer P1306WHR	228.6	219.7	211.4	63.7	16.0	98	0
Pioneer P1620WAM	228.1	215.2	200.9	64.1	16.6	100	0
Pioneer P1618W	222.4			66.6	15.7	101	0
Pioneer 32B16	216.9	210.4	196.6	61.5	17.0	91	0
<b>Average</b>	<b>222.9</b>	<b>215.1</b>	<b>203.0</b>	<b>63.8</b>	<b>16.2</b>	<b>98</b>	<b>0</b>
C.V.	4.3	6.3	7.2	3.7	3.0	2	0
LSD	21.5	20.5	17.7	5.3	1.1	5	0

Shaded cells are not significantly different from top yield (0.10)  
 Planted: April 10, 2019; Harvested: September 18, 2019  
 Soil type: Crider silt loam; Previous crop: soybean; Fertilizer: 182/0/50

**Table 4M. Caldwell County, medium, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
NK Seed NK1573-3330EZ1	267.2			61.0	16.5	96	0	Dyna-Gro D52VC15	247.2	202.4		61.4	17.0	96	0
Stewart 13DD360	265.9			60.1	16.7	96	0	NK Seed NK1354 3220EZ1	247.1			60.0	16.3	100	0
NuTech Seed 75G1AM	264.8			63.0	18.2	95	0	Stewart 8E623RIB	247.0	207.0	205.6	60.5	15.7	96	0
Local Seed AV8614 YHB	264.2			60.6	16.5	98	0	Progeny Ag PGY 9114VT2P	245.1	214.3		62.1	16.2	93	0
NuTech Seed 5TB-6313AM	263.6			60.4	17.1	99	0	DEKALB DKC63-57RIB	244.6	218.3		61.1	16.3	92	0
Stewart 14DD339	262.8	215.8		60.8	17.0	96	0	LG Seeds LG5643VT2RIB	244.3	196.6	209.2	60.0	16.5	99	0
Dyna-Gro D54VC14	260.7	221.0		63.0	16.5	99	0	Augusta 4465	243.8	218.0		60.8	16.1	94	0
DEKALB DKC63-91RIB	260.7			59.7	16.0	100	0	NuTech Seed 5FB-7215AM	243.7			60.9	16.8	93	0
DEKALB DKC65-99RIB	259.2			62.0	17.0	97	0	Mycogen REV 2499AM	243.1			61.2	16.2	96	0
Taylor 8824	259.1			62.8	17.3	93	0	ARMOR A1299	243.0			61.3	15.4	94	0
Pioneer P1464VYHR	259.1			61.8	17.1	99	0	Mycogen REV 2358AM	242.3			60.7	17.0	91	0
FS InVISION FS 62ZV1 RIB	258.8			61.0	16.1	99	0	AgriGold A6572VT2RIB	241.5	217.3	209.7	63.2	16.4	100	0
AgriGold A644-32TRCRIB	256.4			61.2	16.4	88	0	Mycogen MY14H95RA	241.4			59.8	17.5	96	0
Warren Seed DS 5510	255.7			62.9	17.6	99	0	Mycogen REV 2397AM	240.5			61.8	16.3	97	0
Stewart 15DP519	255.4	208.6		61.3	17.4	99	0	Augusta 4565	239.6			60.3	16.6	99	0
NuTech Seed 75D2AM	255.1			60.7	15.3	96	0	Local Seed LC1488 VT2P	237.7			61.3	15.7	97	0
FS InVISION FS 64SV1 RIB	254.9	221.9		61.6	16.5	100	0	Warren Seed DS 5319	236.0			62.1	16.4	96	0
Channel 215-60TRERIB	254.7	228.4		60.0	16.7	95	0	FS InVISION FS 63ZV1 RIB	235.3	208.6		64.2	16.6	100	0
AgriGold A6544VT2RIB	254.1	224.5	220.7	61.0	15.9	97	0	NuTech Seed 74J1AML	234.3			61.6	17.5	100	0
LG Seeds LG62C02VT2RIB	254.1	205.4		61.9	15.9	101	0	Caverndale CF 859 VIPTERA 3111	232.6			61.3	17.6	91	0
Local Seed LC1289 VT2P	253.4			61.2	17.0	93	0	DEKALB DKC64-35RIB	230.1	199.0	195.5	62.6	16.8	89	0
Progeny Ag EXP1915	252.9			63.0	18.2	101	0	Warren Seed DS 7513	229.7	214.3	207.8	59.0	17.5	91	0
Pioneer P1442YHR	252.9			62.0	17.4	97	0	NuTech Seed 5FB-2213AM	229.0			62.6	16.1	93	0
Warren Seed DS 5329	252.3			60.1	16.2	98	0	Seed Consultants SC-S1158YHR™	228.6	199.7	204.9	61.8	16.6	97	0
AgriGold A642-59VT2RIB	252.2	207.3		60.1	16.7	96	0	AgriGold A645-16VT2PRO	228.3			61.5	17.9	98	0
Progeny Ag EXP1912	251.8			61.8	16.7	94	0	Seed Consultants SCS 1139AM	218.1			62.2	16.5	97	0
Local Seed LC1577 VT2P	251.1			63.3	16.7	98	0	LG Seeds LG64C30TRCRIB	216.9	190.6		61.3	17.2	83	0
DEKALB DKC62-53RIB	250.8	226.4		60.1	16.4	96	0	Local Seed LC1586 TC	206.4			62.8	18.1	88	0
FS InVISION FS 6595V RIB	250.5			61.6	18.0	99	0	<b>Average</b>	<b>246.4</b>	<b>213.0</b>	<b>209.1</b>	<b>61.4</b>	<b>16.8</b>	<b>96</b>	<b>0</b>
DEKALB DKC65-95RIB	249.8	222.1		62.7	17.7	95	0	C.V.	7.2	10.5	10.1	1.3	3.7	4	0
Caverndale CF 824 3120 E-Z Refuge	248.8	208.3	208.8	58.8	16.4	94	0	LSD	34.2	32.5	25.2	1.5	1.2	7	0
Taylor 8835	248.7			62.1	17.6	94	0	Medium varieties: 112-115 days to maturity							
ARMOR X9115	247.7			61.3	18.2	97	0	Shaded cells are not significantly different from top yield (0.10)							
LG Seeds LG5650VT2RIB	247.5	221.9	219.8	62.9	17.5	98	0	Planted: April 10, 2019; Harvested: September 18, 2019							
Progeny Ag EXP1913	247.5			61.3	16.7	94	0	Soil type: Crider silt loam; Previous crop: soybean; Fertilizer: 182/0/50							
Warren Seed DS 7215	247.4	228.0		58.3	18.1	98	0								

**Table 4C. Caldwell County, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
FS InVISION FS 62Z00	258.4			61.2	16.2	99	0
Pioneer P1870	256.4			62.2	16.6	106	0
DEKALB DKC60-84	250.3			61.6	15.8	97	0
DEKALB DKC64-32	243.1	228.7		62.8	16.4	95	0
Pioneer P1197	241.7	221.6		60.3	14.8	98	0
NuTech Seed OA-7215	240.4			61.7	16.2	95	0
Spectrum Non-GMO EXP112	236.0			61.4	15.3	99	0
Blue River Hybrids 74B75	232.9			59.0	15.8	98	0
DEKALB DKC64-85	231.4	211.1	202.3	61.9	15.6	96	0
Spectrum Non-GMO 6416	231.3			59.0	16.1	94	0
Pioneer P1442	230.9			62.1	16.3	92	0
Spectrum Non-GMO 6244	227.3			60.3	15.2	92	0
Spectrum Non-GMO 6115	224.3			60.8	14.8	96	0
Caverndale CF 805	223.2			61.6	15.2	96	0
FS InVISION FS 67S00	219.9			63.4	16.9	93	0
Caverndale CF 855	219.7	214.9		63.3	17.1	90	0
Caverndale CF 800	214.5			60.9	14.9	92	0
NuTech Seed OA-308	212.7			61.9	14.6	99	1
Blue River Hybrids 66G25	207.2			61.7	15.9	97	0
<b>Average</b>	<b>232.1</b>	<b>219.1</b>	<b>202.3</b>	<b>61.4</b>	<b>15.8</b>	<b>96</b>	<b>0</b>
C.V.	5.4	5.8	8.0	0.8	3.0	4	330
LSD	24.8	18.1	20.2	1.0	0.9	7	0

Shaded cells are not significantly different from top yield (0.10)

Planted: April 10, 2019; Harvested: September 18, 2019

Soil type: Crider silt loam; Previous crop: soybean; Fertilizer: 182/0/50

**Table 5. Caldwell County weather, 2019.**

	Monthly Precipitation	Temperature Average
March	3.36	43.7
April	4.49	58.9
May	5.6	68.7
June	4.32	73.4
July	3.13	77.3
August	6.31	75.8
September	0.35	75.3

**Table 6E. Daviess County, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)
	2019	18-19	17-19							2019	18-19	17-19					
Pioneer P1138AM	243.1	231.6		61.0	17.0	87	0	3	NuTech Seed 68B3AML	221.3			61.8	17.0	88	0	0
NuTech Seed 5FB-1111AM	243.1			61.8	16.8	83	0	1	Stewart 10DP099	220.2	235.2		62.9	15.8	85	0	10
Progeny Ag EXP1808	241.1			61.5	15.1	86	0	1	Caverndale CF 753GTCBLL	216.8	222.6		62.1	14.8	90	0	3
Stewart 09DD140	240.5			60.0	14.8	83	0	0	NuTech Seed 5FB-9909AM	215.5			60.4	14.9	87	0	2
PROGENY PGY7111VT2P	240.2	237.1	244.6	61.5	16.5	88	0	1	Warren Seed DS 5018	213.5			60.8	14.8	90	0	3
LG Seeds LG60C33VT2Pro	233.5			60.6	17.0	87	0	0	AgriGold A641-54VT2PRO	212.9			62.7	16.7	87	0	2
LG Seeds LG62C35VT2Pro	232.9			61.0	16.6	86	0	4	AgriGold A638-44DGV-2PRO	207.8			62.3	14.8	86	0	6
AgriGold A641-06VT2RIB	232.8	229.1		62.4	16.1	88	0	6	Caverndale CF 794 VIPTERA 3111	203.4			63.3	17.6	88	0	3
DEKALB DKC61-41RIB	231.2			59.8	16.7	84	0	2	Local Seed LCX11-91	194.0			62.3	15.9	84	0	10
Local Seed LC0877 VT2P	230.8			61.3	16.0	87	0	0	ARMOR A0919	185.0			63.0	15.1	89	0	14
NuTech Seed 5FB-8808AM	228.5			61.7	16.1	86	0	1	<b>Average</b>	<b>222.1</b>	<b>228.0</b>	<b>233.4</b>	<b>61.6</b>	<b>15.9</b>	<b>86</b>	<b>0</b>	<b>3</b>
Armor 1118	227.4	241.5		62.5	16.6	83	0	1	C.V.	11.1	10.9	10.2	1.6	4.4	4	0	160
Pioneer P1197AM	225.4	209.2	222.1	61.9	16.5	87	0	0	LSD	48.4	33.4	25.4	1.9	1.4	6	0	11
ARMOR X9110	225.2			61.5	16.1	85	0	9	Early varieties: 111 days or less to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 15, 2019; Harvested: September 24, 2019 Soil type: Weinbach silt loam; Previous crop: soybean; Fertilizer: 180/98/128 GNS = Green snap								
Channel 209-15VT2PRIB	224.4	232.8		61.0	16.5	87	0	8									
Armor 0887	224.2	215.1		61.6	15.7	86	0	2									
Mycogen REV 2098AM	223.6			60.9	15.1	87	0	8									
FS InVISION FS 6194V RIB	222.6			61.7	16.1	85	0	3									
Seed Consultants SCS 1087YHR	222.0	226.1		61.2	15.1	87	0	1									

**Table 6L. Daviess County, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)
	2019	18-19	17-19							2019	18-19	17-19					
DEKALB DKC67-44	247.7	223.5	234.4	62.3	19.0	97	0	5	Local Seed LC1878 VT2P	216.6			63.5	19.6	97	0	20
Channel 218-44VT2PRIB	242.6	227.0	235.5	61.8	18.3	97	0	1	Pioneer P1637AM	215.4	210.8	219.8	62.8	18.6	96	0	8
Pioneer P2089AML	236.5	230.1		60.7	20.1	98	0	8	AgriGold A647-46VT2PRO	206.6			62.3	19.5	100	0	5
Pioneer P1847AML	235.6	246.2		62.7	21.5	97	0	4	FS InVISION FS 66ZV1 RIB	206.1	215.3	223.7	62.4	19.6	94	0	1
DEKALB DKC66-18RIB	235.3			62.1	18.3	95	0	1	Local Seed LC1795 VT2P	201.4			60.9	21.2	95	0	2
Pioneer P1870AM	233.8	232.4		61.8	21.3	96	0	2	FS InVISION FS 67SV1 RIB	200.8	216.8		62.1	20.3	92	0	3
DEKALB DKC70-27RIB	233.5	246.0	243.1	61.2	19.9	94	0	1	Stewart 16DP117	200.2	217.1		61.4	21.6	97	0	4
Progeny Ag PGY8116SS	231.4	209.6		63.2	20.2	97	0	3	Local Seed AV7516 YHB	197.0			62.3	20.4	96	0	0
AgriGold A648-54STX	228.2			61.6	20.6	98	0	3	Seed Consultants SC-S1168YHR™	193.0	202.1	219.4	61.8	17.8	96	0	5
Local Seed LC1987 VT2P	227.8			61.8	20.8	98	0	3	Stewart 16DP310	192.2			62.2	19.6	97	0	21
Progeny Ag PGY9117VT2P	227.6			62.1	19.4	95	0	4	Dyna-Gro D58VC65	189.0	216.8	235.9	62.0	19.6	96	0	2
NuTech Seed 78A1AM	227.1			62.7	20.4	95	0	1	Progeny Ag PGY6116VT2P	188.1	218.3	221.6	59.4	22.9	95	0	1
Seed Consultants SCS 1170AM	225.2			64.0	19.7	95	0	8	Dyna-Gro D56VC46	187.3	215.4		61.3	20.4	98	0	4
Channel 217-76VT2PRIB	224.6			61.3	18.2	98	0	3	AgriGold A6659VT2RIB	183.9	219.2	232.3	61.6	19.8	100	0	18
Stewart 17DP387	222.9	208.6	230.9	62.9	20.2	94	0	15	Local Seed LC1776 VT2P	159.1			62.6	20.0	98	0	0
Taylor 8877	221.8			62.4	20.7	99	0	2	<b>Average</b>	<b>214.8</b>	<b>221.4</b>	<b>230.2</b>	<b>62.0</b>	<b>20.1</b>	<b>96</b>	<b>0</b>	<b>5</b>
Local Seed LCX16-91	221.2			64.1	19.8	98	0	4	C.V.	11.9	12.4	11.9	1.7	4.3	3	600	126
Caverndale CF 888 3000GT	219.0	230.5	235.9	60.1	22.8	93	0	0	LSD	50.1	37.1	29.7	2.1	1.7	5	0	13
Seed Consultants SCS 1188AM	218.8			62.3	19.9	98	0	7	Late varieties: 115 or more days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 15, 2019; Harvested: September 24, 2019 Soil type: Weinbach silt loam; Previous crop: soybean; Fertilizer: 180/98/128 GNS = Green snap								
DEKALB DKC68-69RIB	218.7			62.9	22.5	95	0	13									
ARMOR X9116	218.4			61.3	19.8	94	0	11									

**Table 6W. Daviess County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)
	2019	18-19	17-19					
Pioneer P1618W	231.1			64.7	17.3	100	0	4
Pioneer P1620WAM	216.9	187.2	206.4	64.5	19.1	99	0	12
Pioneer P1306WHR	211.5	192.6	213.5	63.7	16.9	98	0	2
Pioneer 32B16	178.9	187.0	210.3	61.5	21.1	95	0	2
<b>Average</b>	<b>208.3</b>	<b>188.9</b>	<b>210.1</b>	<b>63.7</b>	<b>18.1</b>	<b>98</b>	<b>0</b>	<b>5</b>
C.V.	4.9	6.1	6.3	1.8	4.4	3	0	65
LSD	25.2	18.4	15.7	2.6	1.8	6	0	7

Shaded cells are not significantly different from top yield (0.10)  
 Planted: May 15, 2019; Harvested: September 24, 2019  
 Soil type: Weinbach silt loam; Previous crop: soybean; Fertilizer: 180/98/128  
 GNS = Green snap

**Table 6M. Daviess County, medium, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)
	2019	18-19	17-19							2019	18-19	17-19					
AgriGold A642-59VT2RIB	253.9	231.0		61.0	18.9	99	0	6	FS InVISION FS 62ZV1 RIB	225.4			61.3	18.0	101	0	1
Progeny Ag PGY 9114VT2P	250.2	218.2		62.5	19.4	98	0	12	Local Seed LC1488 VT2P	224.1			62.2	17.2	95	0	4
Stewart 8E623RIB	245.7	234.0	247.5	60.1	18.4	100	0	1	Augusta 4565	223.0			60.1	19.1	97	0	0
AgriGold A645-16VT2PRO	245.5			61.4	19.7	98	0	4	Mycogen REV 2499AM	223.0			61.7	20.4	98	0	16
Channel 215-60TRERIB	243.3	236.1		59.5	20.0	99	0	10	Augusta 4465	222.9	228.1		60.6	18.1	96	5	1
LG Seeds LG5643VT2RIB	242.6	206.4	220.3	61.3	18.6	98	0	0	Caverdale CF 859 VIPTERA 3111	222.1			63.8	19.1	94	0	0
NuTech Seed 75G1AM	241.5			63.0	19.7	97	0	5	Local Seed AV8614 YHB	221.2			61.8	18.6	96	0	0
AgriGold A6572VT2RIB	241.1	214.6	234.7	63.4	18.6	100	0	2	Local Seed LC1586 TC	219.9			62.8	19.7	92	0	4
DEKALB DKC65-95RIB	240.2	235.4		62.8	19.2	99	0	3	Warren Seed DS 5319	217.9			62.6	19.5	95	0	0
Warren Seed DS 5329	239.4			60.7	17.7	97	0	1	ARMOR A1299	217.6			62.6	16.9	97	0	2
FS InVISION FS 6595V RIB	238.0			61.0	19.2	100	0	7	Warren Seed DS 7513	216.4	235.7	237.4	57.4	21.3	89	0	0
Taylor 8824	237.7			62.1	19.7	94	0	2	Pioneer P1442YHR	215.9			63.0	18.9	92	0	8
Stewart 13DD360	237.7			60.2	18.0	99	0	0	NuTech Seed 5FB-2213AM	215.0			63.9	17.6	98	0	0
Taylor 8835	237.5			61.0	20.6	92	0	1	Seed Consultants SCS 1139AM	214.2			63.2	18.5	98	0	0
DEKALB DKC63-57RIB	235.5	240.3		62.4	18.0	98	0	3	Seed Consultants SC-S1158YHR™	213.2	200.2	220.9	61.2	20.0	101	0	8
Progeny Ag EXP1913	234.8			61.6	19.1	99	0	3	LG Seeds LG64C30TRCRIB	211.4	225.4		62.7	19.4	92	0	8
Progeny Ag EXP1912	234.6			61.6	18.0	98	0	4	NK Seed NK1573-3330EZ1	210.9			60.6	18.0	99	0	1
ARMOR X9115	234.5			61.0	19.4	97	0	5	LG Seeds LG62C02VT2RIB	208.6	210.4		62.6	17.1	98	0	3
Warren Seed DS 5510	234.4			62.6	20.6	98	0	7	Warren Seed DS 7215	205.5	197.7		58.0	19.7	101	0	2
Dyna-Gro D52VC15	233.7	248.6		61.7	17.2	98	0	0	NuTech Seed 5FB-7215AM	202.7			61.6	19.5	95	0	11
Mycogen REV 2358AM	232.3			59.3	20.0	89	0	0	Stewart 14DD339	202.7	207.7		59.7	19.3	97	0	1
Stewart 15DP519	232.2	219.1		59.7	21.2	98	0	2	Pioneer P1464VYHR	198.5			60.5	20.5	99	0	7
NK Seed NK1354 3220EZ1	232.2			60.3	18.6	100	0	0	Caverdale CF 824 3120 E-Z Refuge	193.5	202.6	218.3	59.2	17.2	96	0	15
DEKALB DKC62-53RIB	230.7	235.9		61.1	18.9	98	0	8	FS InVISION FS 63ZV1 RIB	180.8	191.5		63.8	19.1	98	0	32
FS InVISION FS 64SV1 RIB	230.6	240.8		61.3	18.0	98	0	4	AgriGold A644-32TRCRIB	180.2			62.7	18.7	93	0	32
LG Seeds LG5650VT2RIB	229.2	223.6	237.2	63.3	18.9	101	0	10	NuTech Seed 74J1AML	156.5			61.3	21.2	96	0	0
Mycogen REV 2397AM	229.0			63.6	18.5	97	0	1	<b>Average</b>	<b>223.6</b>	<b>222.8</b>	<b>233.8</b>	<b>61.6</b>	<b>18.9</b>	<b>96.9</b>	<b>0</b>	<b>5</b>
DEKALB DKC64-35RIB	229.0	234.3	252.0	63.3	18.2	96	0	18	C.V.	10.1	11.9	10.9	1.5	4.9	2.8	985	144
NuTech Seed 5TB-6313AM	228.6			61.0	19.4	96	0	0	LSD	43.7	35.9	27.1	1.8	1.8	5.1	2	13
DEKALB DKC63-91RIB	228.5			61.7	16.6	98	0	7	Medium varieties: 112-115 days to maturity								
Local Seed LC1289 VT2P	227.7			61.1	17.8	96	0	2	Shaded cells are not significantly different from top yield (0.10)								
NuTech Seed 75D2AM	227.5			61.2	17.7	97	0	1	Planted: May 15, 2019; Harvested: September 24, 2019								
AgriGold A6544VT2RIB	227.2	223.9	235.5	60.8	19.2	97	0	0	Soil type: Weinbach silt loam; Previous crop: soybean; Fertilizer: 180/98/128								
Mycogen MY14H95RA	227.1			58.4	19.9	97	0	0	GNS = Green snap								
DEKALB DKC65-99RIB	226.4			61.6	19.6	98	0	5									
Dyna-Gro D54VC14	226.3	228.9		62.9	18.4	94	0	2									
Local Seed LC1577 VT2P	226.3			62.7	18.8	98	0	2									
Progeny Ag EXP1915	226.0			62.5	21.3	100	0	0									

**Table 6C. Daviess County, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	GNS (%)
	2019	18-19	17-19					
Pioneer P1197	256.6	258.4		60.6	16.2	96	0	1
DEKALB DKC64-32	248.9	231.4		62.8	17.2	98	0	12
FS InVISION FS 62Z00	245.1			61.1	17.1	94	2	2
Pioneer P1442	244.9			63.0	17.9	99	5	5
Caverdale CF 855	237.8	229.0		63.7	18.9	88	0	0
NuTech Seed OA-308	237.3			63.0	14.9	97	6	0
DEKALB DKC60-84	235.0			62.7	16.6	96	9	0
Spectrum Non-GMO 6115	234.8			61.0	16.1	96	0	8
NuTech Seed OA-7215	234.6			62.0	18.2	97	0	4
Spectrum Non-GMO EXP112	232.9			61.8	16.2	98	0	0
FS InVISION FS 67S00	230.1			62.8	20.0	93	0	1
DEKALB DKC64-85	225.2	237.7	217.5	63.1	15.8	97	2	6
Spectrum Non-GMO 6416	224.7			58.4	18.8	95	0	0
Pioneer P1870	219.2			62.1	18.8	100	0	1
Caverdale CF 800	208.2			61.6	16.6	89	0	5
Spectrum Non-GMO 6244	208.2			60.4	18.2	94	0	6
Blue River Hybrids 66G25	204.5			62.3	17.4	98	0	2
Blue River Hybrids 74B75	196.7			57.2	18.0	96	0	2
Caverdale CF 805	166.5			62.6	17.0	98	0	10
<b>Average</b>	<b>229.1</b>	<b>239.1</b>	<b>217.5</b>	<b>61.6</b>	<b>17.4</b>	<b>96</b>	<b>1</b>	<b>3</b>
C.V.	8.2	9.2	11.1	1.5	3.6	3	186	132
LSD	37.6	29.4	28.3	1.9	1.2	5	5	8

Shaded cells are not significantly different from top yield (0.10)

Planted: May 15, 2019; Harvested: September 24, 2019

Soil type: Weinbach silt loam; Previous crop: soybean; Fertilizer: 180/98/128

GNS = Green snap

**Table 7. Daviess County weather, 2019.**

	Monthly Precipitation	Irrigation	Temperature Average
March	5.42	0	41.7
April	5.22	0	58.2
May	4.86	0	68.8
June	5.73	0	73.1
July	2.39	1.5	76.8
August	3.25	3	75
September	0.01	0	74.1

**Table 8E. Fayette County, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19						2019	18-19	17-19				
LG Seeds LG62C35VT2Pro	190.9			58.7	16.2	100	0	NuTech Seed 5FB-1111AM	152.9			59.7	16.3	92	0
DEKALB DKC61-41RIB	187.2			57.6	15.6	98	0	ARMOR A0919	152.6			59.8	14.9	98	0
AgriGold A641-06VT2RIB	175.5	196.8		60.4	16.6	103	0	Local Seed LCX11-91	151.8			58.4	14.9	101	0
Stewart 10DP099	175.4	203.9		58.7	15.7	98	0	AgriGold A638-44DGV2PRO	148.3			59.5	14.5	101	0
Channel 209-15VT2PRIB	175.2	209.0		59.8	15.7	99	0	NuTech Seed 68B3AML	145.3			58.7	14.2	105	0
Caverndale CF 753GTCBLL	173.3	193.4		59.1	15.5	93	0	Pioneer P1197AM	144.8	180.5	199.2	58.3	14.7	97	0
Progeny Ag EXP1808	171.3			58.1	14.4	99	0	Warren Seed DS 5018	143.5			57.1	13.4	100	0
Stewart 09DD140	171.0			57.0	15.4	98	0	Caverndale CF 794 VIPTERA 3111	141.6			61.5	18.7	96	0
PROGENY PGY7111VT2P	168.5	193.2	207.2	57.5	16.4	101	0	Seed Consultants SCS 1087YHR	138.7	174.0		57.7	13.8	98	0
ARMOR X9110	165.6			59.3	15.7	99	0	Mycogen REV 2098AM	136.7			56.8	13.6	99	0
LG Seeds LG60C33VT2Pro	163.8			59.4	17.0	98	0	NuTech Seed 5FB-9909AM	127.1			57.7	14.1	100	0
Armor 1118	163.8	191.2		59.3	16.9	99	0	<b>Average</b>	<b>158.1</b>	<b>191.0</b>	<b>203.2</b>	<b>58.6</b>	<b>15.4</b>	<b>98</b>	<b>0</b>
FS InVISION FS 6194V RIB	162.8			59.0	15.9	99	0	C.V.	8.3	9.2	8.5	1.4	4.7	4	676
AgriGold A641-54VT2PRO	159.4			58.0	17.2	96	0	LSD	32.5	24.5	17.9	1.7	1.4	7	0
NuTech Seed 5FB-8808AM	156.6			57.5	14.6	100	0	Early varieties: 111 days or less to maturity							
Pioneer P1138AM	155.8	177.7		59.5	15.6	98	0	Shaded cells are not significantly different from top yield (0.10)							
Local Seed LC0877 VT2P	153.5			56.9	15.0	94	0	Planted: April 17, 2019; Harvested: September 16, 2019							
Armor 0887	153.4	190.0		58.3	14.5	101	0	Soil type: Lanton silt loam; Previous crop: soybean; Fertilizer: 182/0/30							

**Table 8L. Fayette County, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19						2019	18-19	17-19				
DEKALB DKC66-18RIB	194.8			60.8	15.8	96	0	DEKALB DKC68-69RIB	164.7			60.8	21.8	98	0
DEKALB DKC67-44	194.6	213.9	224.5	60.3	17.5	101	0	Pioneer P1637AM	163.5	163.9	184.1	60.9	17.3	96	0
Channel 218-44VT2PRIB	192.7	180.0	199.6	60.3	16.7	97	0	Seed Consultants SCS 1188AM	162.6			61.4	19.2	100	0
Caverndale CF 888 3000GT	187.1	184.2		60.3	19.1	96	0	Local Seed LC1776 VT2P	162.4			60.1	19.1	98	0
Local Seed AV7516 YHB	187.1			63.0	17.5	97	0	Progeny Ag PGY9117VT2P	162.4			60.5	18.8	97	0
NuTech Seed 78A1AM	184.6			62.2	18.5	99	0	Progeny Ag PGY6116VT2P	161.4	180.3	198.2	58.9	20.3	98	0
Channel 217-76VT2PRIB	183.0			59.1	17.8	95	0	Progeny Ag PGY8116SS	160.9	177.8		61.4	17.8	100	0
Stewart 16DP310	179.8			61.7	16.9	98	0	Local Seed LCX16-91	156.7			61.7	18.7	101	0
AgriGold A648-54STX	178.2			60.5	19.8	100	0	Pioneer P1847AML	154.8	171.2		60.5	20.0	100	0
AgriGold A647-46VT2PRO	176.0			61.4	17.5	97	0	Pioneer P2089AML	153.0	162.3		58.6	17.8	101	0
Stewart 16DP117	176.0	184.3		60.6	21.5	100	0	Taylor 8877	152.4			60.9	19.6	96	0
Seed Consultants SCS1168YHR™	173.4	177.3	200.1	59.4	17.7	97	0	AgriGold A6659VT2RIB	151.0	171.0	183.5	64.5	16.3	96	0
Local Seed LC1878 VT2P	172.2			61.7	18.5	96	0	FS InVISION FS 66ZV1 RIB	146.5	164.8	193.3	59.4	18.9	96	0
ARMOR X9116	171.8			60.7	18.6	96	0	Local Seed LC1987 VT2P	144.9			60.3	20.2	97	0
Stewart 17DP387	171.4	195.4	209.2	60.7	19.3	96	0	FS InVISION FS 67SV1 RIB	141.2	168.7		60.8	19.9	96	0
DEKALB DKC70-27RIB	171.1	177.8	199.4	60.3	19.0	98	0	<b>Average</b>	<b>168.5</b>	<b>178.8</b>	<b>199.1</b>	<b>60.7</b>	<b>18.7</b>	<b>98</b>	<b>0</b>
Pioneer P1870AM	170.5	180.2		61.1	17.8	101	0	C.V.	11.4	11.7	10.5	2.4	4.4	3	0
Dyna-Gro D58VC65	167.6	181.0	198.4	59.3	18.9	99	0	LSD	37.3	28.0	21.6	2.9	1.6	6	0
Seed Consultants SCS 1170AM	166.6			61.0	17.9	100	0	Late varieties: 116 days or more to maturity							
Local Seed LC1795 VT2P	165.5			60.1	21.0	97	0	Shaded cells are not significantly different from top yield (0.10)							
Dyna-Gro D56VC46	165.4	184.8		59.9	19.7	96	0	Planted: April 17, 2019; Harvested: September 16, 2019							
								Soil type: Lanton silt loam; Previous crop: soybean; Fertilizer: 182/0/30							



**Table 8W. Fayette County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19				
Pioneer 32B16	172.5	178.2	184.4	60.0	19.1	94	0
Pioneer P1306WHR	152.6	174.1	195.7	62.0	16.3	98	0
Pioneer P1618W	140.6			62.7	17.6	98	0
Pioneer P1620WAM	137.5	159.5	178.0	62.3	18.2	99	0
<b>Average</b>	<b>154.9</b>	<b>170.6</b>	<b>186.0</b>	<b>61.9</b>	<b>17.3</b>	<b>99</b>	<b>0</b>
C.V.	14.1	10.3	9.5	0.9	3.5	3	0
LSD	51.8	25.7	19.8	1.2	1.4	7	0

Shaded cells are not significantly different from top yield (0.10)

Planted: April 17, 2019; Harvested: September 16, 2019

Soil type: Lanton silt loam; Previous crop: soybean; Fertilizer: 182/0/30

**Table 8M. Fayette County, medium, 2019.**

Name	YIELD (BU/AC)				TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)				TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19							2019	18-19	17-19					
Stewart 15DP519	197.8	207.6			59.9	17.3	99	0	LG Seeds LG62C02VT2RIB	167.4	188.2			60.1	16.3	100	0
Mycogen MY14H95RA	196.4				57.3	19.9	102	0	Local Seed LC1586 TC	167.1				61.7	18.1	91	0
ARMOR X9115	196.0				60.2	16.8	102	0	Warren Seed DS 7215	166.5	185.4			56.6	21.3	100	0
Progeny Ag PGY 9114VT2P	193.8	206.1			60.5	17.5	101	0	Warren Seed DS 5510	166.2				60.7	17.6	101	0
Local Seed AV8614 YHB	192.2				59.7	16.9	102	0	Mycogen REV 2397AM	166.1				61.3	17.1	100	0
Taylor 8824	192.0				61.5	17.0	98	0	NuTech Seed 75G1AM	165.6				61.2	17.4	99	0
AgriGold A6544VT2RIB	191.2	211.2	216.0		59.3	17.3	102	0	Augusta 4465	164.5	187.4			59.0	16.0	100	0
Stewart 13DD360	191.0				59.2	16.9	96	0	FS InVISION FS 64SV1 RIB	164.3	175.9			59.7	18.8	101	0
Stewart 14DD339	190.1	205.2			59.3	16.2	99	0	DEKALB DKC63-91RIB	163.2				58.4	15.8	97	0
FS InVISION FS 6595V RIB	189.8				59.4	17.2	100	0	AgriGold A644-32TRCRIB	162.8				60.8	17.5	97	0
AgriGold A642-59VT2RIB	189.5	199.6			59.8	16.3	98	0	Dyna-Gro D54VC14	162.5	185.6			60.7	17.3	96	0
LG Seeds LG64C30TRCRIB	188.3	203.2			60.6	18.1	98	0	Mycogen REV 2499AM	162.3				59.0	18.6	97	0
Warren Seed DS 5329	187.7				59.2	16.4	101	0	Local Seed LC1488 VT2P	162.0				59.4	15.9	101	0
Progeny Ag EXP1913	186.4				60.6	16.7	103	0	Taylor 8835	162.0				60.0	19.3	96	0
DEKALB DKC63-57RIB	185.0	194.8			59.8	16.3	99	0	NK Seed NK1354 3220EZ1	161.7				57.6	17.3	101	0
Mycogen REV 2358AM	184.2				59.6	16.6	99	0	DEKALB DKC62-53RIB	159.9	174.0			60.6	16.7	98	0
FS InVISION FS 62ZV1 RIB	184.1				59.7	16.4	102	0	Channel 215-60TRERIB	159.6	186.3			58.3	17.3	94	0
Progeny Ag EXP1912	183.6				59.3	16.5	99	0	NuTech Seed 75D2AM	159.2				59.4	15.2	100	0
DEKALB DKC64-35RIB	182.0	199.1	217.6		61.2	16.4	96	0	Seed Consultants SCS 1139AM	156.0				61.1	17.3	99	0
AgriGold A645-16VT2PRO	181.0				59.8	16.9	102	0	NuTech Seed 5TB-6313AM	155.8				59.6	17.8	96	0
Caverndale CF 824 3120 E-Z Refuge	180.5	188.0	202.5		56.6	17.0	99	0	Stewart 8E623RIB	155.4	171.0	188.1		59.5	18.3	98	0
NK Seed NK1573-3330EZ1	179.4				57.9	15.6	100	0	Caverndale CF 859 VIPTERA 3111	152.4				62.7	18.3	94	0
Dyna-Gro D52VC15	179.2	195.4			59.4	17.0	99	0	Augusta 4565	151.2				58.2	17.5	101	0
Local Seed LC1289 VT2P	178.6				59.7	16.6	94	0	Progeny Ag EXP1915	150.1				62.3	19.3	102	0
ARMOR A1299	178.5				59.3	16.5	96	0	Pioneer P1442YHR	147.2				61.2	18.9	99	0
DEKALB DKC65-95RIB	178.0	193.1			60.9	17.4	99	0	Warren Seed DS 7513	142.5	174.8	193.2		56.8	21.6	91	0
DEKALB DKC65-99RIB	177.8				60.5	16.3	103	0	Seed Consultants SCS1158YHR™	141.8	179.6	199.6		59.5	18.9	99	0
LG Seeds LG5650VT2RIB	176.3	180.6	196.9		61.6	17.3	102	0	NuTech Seed 5FB-7215AM	137.8				59.6	19.1	100	0
LG Seeds LG5643VT2RIB	175.7	185.9	202.8		59.1	17.6	100	0	NuTech Seed 5FB-2213AM	134.7				61.4	17.5	94	0
Pioneer P1464VYHR	173.5				59.8	16.9	104	0	<b>Average</b>	<b>170.4</b>	<b>189.9</b>	<b>201.8</b>		<b>60.0</b>	<b>17.4</b>	<b>99</b>	<b>0</b>
AgriGold A6572VT2RIB	172.8	181.6	199.4		61.4	17.9	101	0	C.V.	11.8	10.6	9.4		0.9	3.8	4	998
FS InVISION FS 63ZV1 RIB	172.0	186.8			62.4	16.4	101	0	LSD	38.9	25.8	19.2		1.1	1.3	7	0
Local Seed LC1577 VT2P	169.5				60.8	17.6	101	0	Medium varieties: 112-115 days to maturity								
NuTech Seed 74J1AML	168.0				61.7	18.2	103	0	Shaded cells are not significantly different from top yield (0.10)								
Warren Seed DS 5319	167.5				60.8	18.0	98	0	Planted: April 17, 2019; Harvested: September 16, 2019								
									Soil type: Lanton silt loam; Previous crop: soybean; Fertilizer: 182/0/30								

**Table 8C. Fayette County, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Spectrum Non-GMO EXP112	210.0			59.5	16.8	93	0
Blue River Hybrids 74B75	202.5			66.2	17.3	96	0
DEKALB DKC60-84	201.3			60.1	15.1	100	0
FS InVISION FS 62Z00	189.7			58.7	16.2	97	0
Pioneer P1870	188.7			61.6	17.2	100	0
Spectrum Non-GMO 6416	184.1			56.9	19.5	87	0
DEKALB DKC64-32	183.9	188.4		60.7	15.6	94	0
Pioneer P1197	174.0	185.8		58.2	15.1	97	0
NuTech Seed 0A-7215	171.5			59.8	18.7	91	0
DEKALB DKC64-85	171.1	172.3	184.0	59.7	15.2	91	0
Spectrum Non-GMO 6244	168.3			57.8	16.7	87	0
FS InVISION FS 67S00	167.4			60.9	19.3	84	0
Spectrum Non-GMO 6115	167.1			59.0	15.3	91	0
Pioneer P1442	165.3			60.8	19.5	96	0
Caverndale CF 800	164.5			58.3	17.0	81	0
Blue River Hybrids 66G25	158.6			59.6	18.5	96	0
NuTech Seed 0A-308	153.1			58.9	14.0	96	0
Caverndale CF 855	152.9	175.1		63.6	17.6	81	0
Caverndale CF 805	121.4			60.2	15.6	100	0
<b>Average</b>	<b>176.3</b>	<b>180.4</b>	<b>184.0</b>	<b>60.0</b>	<b>16.9</b>	<b>92</b>	<b>0</b>
C.V.	11.5	14.9	13.5	6.2	8.1	8	341
LSD	40.5	36.7	27.3	7.4	2.7	15	0

Shaded cells are not significantly different from top yield (0.10)

Planted: April 17, 2019; Harvested: September 16, 2019

Soil type: Lanton silt loam; Previous crop: soybean; Fertilizer: 182/0/30

**Table 9. Fayette County weather, 2019.**

	Monthly Precipitation	Temperature Average
March	3.14	42.2
April	4.34	57.8
May	3.36	67.6
June	9.12	71
July	5.48	76.9
August	2.69	75.4
September	0.05	75.3

**Table 10L. Graves County, late, 2019.**

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	17-19						2019	17-19				
Channel 218-44VT2PRIB	269.4	202.0	62.1	15.0	96	0	Taylor 8877	220.0		63.8	15.8	96	0
Local Seed LC1776 VT2P	263.7		63.8	15.6	92	0	AgriGold A648-54STX	220.0		62.5	16.1	98	0
NuTech Seed 78A1AM	259.4		63.9	15.3	88	0	FS InVISION FS 66ZV1 RIB	219.4	180.9	62.3	15.8	88	0
DEKALB DKC67-44	258.5	201.3	63.4	14.6	89	0	Stewart 17DP387	217.3	171.4	64.4	15.8	89	0
Seed Consultants SCS 1170AM	255.4		66.4	14.9	90	0	Caverndale CF 888 3000GT	217.0	202.4	61.6	16.8	87	0
Dyna-Gro D58VC65	253.2	212.3	64.2	15.7	90	0	Local Seed LC1795 VT2P	215.7		62.6	16.2	90	0
Dyna-Gro D56VC46	251.6		62.8	15.4	85	0	Pioneer P1870AM	215.3		63.9	16.5	84	0
Seed Consultants SCS 1188AM	249.9		62.9	15.4	89	0	DEKALB DKC70-27RIB	212.6	181.7	62.8	14.9	94	0
Stewart 16DP310	247.4		63.4	15.4	91	0	FS InVISION FS 67SV1 RIB	210.3		64.3	15.5	88	0
AgriGold A647-46VT2PRO	246.7		63.1	15.8	94	0	Local Seed LC1878 VT2P	209.1		64.2	15.3	90	0
Channel 217-76VT2PRIB	245.6		62.5	15.2	92	0	Local Seed LCX16-91	204.8		63.5	15.5	92	0
Pioneer P2089AML	240.7		61.7	15.1	77	0	ARMOR X9116	201.3		62.0	15.4	84	0
Pioneer P1847AML	238.1		63.6	16.1	83	0	Progeny Ag PGY6116VT2P	200.2	195.5	61.7	16.1	90	0
DEKALB DKC66-18RIB	235.2		62.6	14.7	98	0	AgriGold A6659VT2RIB	173.8	180.5	63.0	15.0	90	0
Pioneer P1637AM	235.0	186.3	63.4	14.0	90	0	<b>Average</b>	<b>229.8</b>	<b>192.5</b>	<b>63.2</b>	<b>15.5</b>	<b>90</b>	<b>0</b>
Progeny Ag PGY8116SS	234.2		63.9	15.2	93	0	C.V.	10.0	14.0	1.5	3.6	5	0
DEKALB DKC68-69RIB	227.7		64.1	17.6	87	0	LSD	44.8	40.8	1.8	1.1	9	0
Progeny Ag PGY9117VT2P	226.7		63.7	15.2	94	0							
Stewart 16DP117	225.9		62.4	17.2	88	0							
Seed Consultants SCS1168YHR™	225.6	203.7	62.2	14.0	82	0							
Local Seed AV7516 YHB	224.5		63.9	15.6	93	0							
Local Seed LC1987 VT2P	222.8		64.0	15.9	87	0							

Late varieties: 116 days or more to maturity  
Shaded cells are not significantly different from top yield (0.10)  
Planted: April 23, 2019; Harvested: September 23, 2019  
Soil type: Grenada/Calloway silt loam; Previous crop: soybean;  
Fertilizer: 216/92/120

**Table 10W. Graves County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19				
Pioneer P1306WHR	240.7	214.0	63.2	15.3	95	0	0
Pioneer 32B16	240.0	211.9	62.8	16.5	90	0	0
Pioneer P1620WAM	222.5	204.9	64.1	15.3	88	0	0
Pioneer P1618W	203.5		63.6	15.3	97	0	0
<b>Average</b>	<b>228.2</b>	<b>210.3</b>	<b>63.4</b>	<b>15.6</b>	<b>94</b>	<b>0</b>	<b>0</b>
C.V.	4.9	10.0	0.8	4.0	4	0	0
LSD	28.9	31.8	1.2	1.4	8	0	0

Shaded cells are not significantly different from top yield (0.10)  
Planted: April 23, 2019; Harvested: September 23, 2019  
Soil type: Grenada/Calloway silt loam; Previous crop: soybean;  
Fertilizer: 216/92/120

**Table 10C. Graves County, conventional, 2019.**

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	17-19						2019	17-19				
DEKALB DKC64-32	275.1		62.9	14.8	95	0	NuTech Seed 0A-308	228.3		61.4	14.1	93	0
FS InVISION FS 62Z00	264.5		60.7	14.8	93	0	Caverndale CF 800	224.8		61.1	14.2	84	0
DEKALB DKC60-84	257.6		61.5	14.2	95	0	FS InVISION FS 67S00	222.6		63.1	15.9	86	0
Pioneer P1197	255.0		60.3	14.4	92	0	Blue River Hybrids 66G25	216.5		62.5	16.0	89	0
Pioneer P1442	254.5		62.8	15.7	91	0	Spectrum Non-GMO 6244	213.3		60.9	14.5	82	0
Pioneer P1870	252.0		62.0	15.6	92	0	Caverndale CF 805	213.0		61.9	13.7	86	0
Spectrum Non-GMO EXP112	245.7		61.9	14.7	96	0	<b>Average</b>	<b>241.1</b>	<b>190.6</b>	<b>61.6</b>	<b>15.0</b>	<b>90</b>	<b>0</b>
Blue River Hybrids 74B75	242.8		59.8	16.0	90	0	C.V.	5.8	8.6	0.8	2.7	5	0
Spectrum Non-GMO 6115	242.6		60.9	13.9	91	0	LSD	28.1	28.2	1.0	0.8	9	0
Caverndale CF 855	240.9		63.7	16.2	85	0							
NuTech Seed 0A-7215	240.3		61.8	15.4	95	0							
Spectrum Non-GMO 6416	231.8		59.6	15.7	85	0							
DEKALB DKC64-85	231.2	190.6	61.8	14.3	86	0							

Shaded cells are not significantly different from top yield (0.10)  
Planted: April 23, 2019; Harvested: September 23, 2019  
Soil type: Grenada/Calloway silt loam; Previous crop: soybean; Fertilizer: 216/92/120

**Table 10M. Graves County, medium, 2019.**

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	17-19						2019	17-19				
DEKALB DKC65-99RIB	264.8		62.8	15.4	97	0	Stewart 13DD360	216.0		58.9	14.5	91	0
Progeny Ag EXP1912	252.8		62.0	14.4	88	0	Warren Seed DS 5329	215.9		61.1	14.9	91	0
Warren Seed DS 5510	252.0		62.9	15.7	96	0	NuTech Seed 75D2AM	214.0		60.8	13.4	92	0
ARMOR X9115	247.8		62.3	15.8	97	0	Progeny Ag EXP1915	209.6		63.9	15.7	89	0
Progeny Ag PGY 9114VT2P	241.6		63.4	15.3	89	0	AgriGold A644-32TRCRIB	208.1		61.3	15.1	83	0
Local Seed LC1289 VT2P	241.6		60.6	14.4	83	0	LG Seeds LG5643VT2RIB	206.6	204.5	60.4	14.2	94	0
Dyna-Gro D52VC15	241.0		62.0	15.2	90	0	Mycogen MY14H95RA	206.0		59.4	16.0	94	0
AgriGold A6572VT2RIB	240.5	197.2	63.8	14.7	96	0	Local Seed LC1577 VT2P	205.1		63.5	14.5	90	0
Pioneer P1442YHR	240.0		61.9	14.4	87	0	FS InVISION FS 6595V RIB	203.4		61.9	15.8	92	0
Warren Seed DS 7215	238.4		59.3	16.0	96	0	NuTech Seed 75G1AM	203.1		62.7	15.2	91	0
DEKALB DKC64-35RIB	237.7	190.4	63.2	14.9	88	0	Warren Seed DS 5319	202.9		63.2	15.3	93	0
ARMOR A1299	236.8		61.6	15.1	90	0	FS InVISION FS 62ZV1 RIB	202.4		61.4	13.9	93	0
Stewart 14DD339	234.7		61.6	14.6	93	0	Channel 215-60TRERIB	202.3		60.0	13.5	92	0
Augusta 4465	234.1		61.6	14.2	92	0	LG Seeds LG64C30TRCRIB	200.6		62.4	15.2	82	0
NK Seed NK1573-3330EZ1	233.8		59.4	14.5	95	0	Local Seed LC1586 TC	198.7		62.8	15.8	82	0
DEKALB DKC65-95RIB	232.6		62.8	15.3	89	0	Mycogen REV 2499AM	198.4		61.2	14.6	90	0
Augusta 4565	232.5		61.8	15.0	93	0	AgriGold A645-16VT2PRO	197.7		61.3	15.4	92	0
Stewart 15DP519	231.1		62.1	15.1	89	0	NuTech Seed 5FB-2213AM	190.2		63.2	14.7	88	0
DEKALB DKC62-53RIB	230.8		61.6	14.4	92	0	NuTech Seed 5FB-7215AM	189.0		61.8	14.8	92	0
Caverndale CF 859 VIPTERA 3111	229.5		63.6	15.4	83	0	Caverndale CF 824 3120 E-Z Refuge	186.3	148.3	58.4	13.7	94	0
Progeny Ag EXP1913	228.1		62.4	15.0	88	0	NuTech Seed 74J1AML	183.0		62.4	15.2	93	0
Taylor 8824	227.7		63.8	15.9	86	0	Local Seed AV8614 YHB	180.3		60.6	14.7	85	0
AgriGold A6544VT2RIB	227.6	190.0	61.6	14.5	97	0	Mycogen REV 2397AM	175.5		62.0	14.0	94	0
DEKALB DKC63-91RIB	226.9		60.2	14.0	90	0	Seed Consultants SCS1158YHR™	170.8	185.9	61.8	15.3	92	0
Dyna-Gro D54VC14	226.7		63.4	15.4	82	0	DEKALB DKC63-57RIB	170.1		61.0	14.3	96	0
LG Seeds LG5650VT2RIB	224.0	170.5	63.9	14.3	94	0	Stewart 8E623RIB	169.1	141.2	59.8	13.7	93	0
Mycogen REV 2358AM	223.8		59.6	14.6	88	0	NuTech Seed 5TB-6313AM	167.7		60.9	15.3	82	0
Taylor 8835	223.2		62.2	15.7	88	0	FS InVISION FS 64SV1 RIB	151.9		60.0	13.5	93	0
FS InVISION FS 63ZV1 RIB	222.9		63.6	15.4	92	0	<b>Average</b>	<b>214.6</b>	<b>180.3</b>	<b>61.8</b>	<b>14.8</b>	<b>90</b>	<b>0</b>
AgriGold A642-59VT2RIB	222.3		61.3	15.1	89	0	C.V.	16.2	19.4	1.5	5.0	5	0
NK Seed NK1354 3220EZ1	222.0		60.5	15.2	90	0	LSD	67.1	54.3	1.8	1.4	9	0
Local Seed LC1488 VT2P	221.2		61.5	14.4	88	0	Medium varieties: 112-115 days to maturity						
Pioneer P1464VYHR	219.5		62.5	14.4	86	0	Shaded cells are not significantly different from top yield (0.10)						
LG Seeds LG62C02VT2RIB	218.9		62.7	14.9	93	0	Planted: April 23, 2019; Harvested: September 23, 2019						
Seed Consultants SCS 1139AM	217.6		63.2	15.0	95	0	Soil type: Grenada/Calloway silt loam; Previous crop: soybean;						
Warren Seed DS 7513	217.0	194.3	60.0	15.9	81	0	Fertilizer: 216/92/120						

**Table 11. Graves County weather, 2019.**

	Monthly Precipitation	Irrigation	Temperature Average
March	5.97	0	44.1
April	4.79	0	58.7
May	6.48	0	69.5
June	3.59	0	74.2
July	5.99	0	77.5
August	4.92	3	75.8
September	0.1	0	74.5

**Table 12E. Muhlenberg County, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
NuTech Seed 68B3AML	208.8			61.0	14.0	94	0	LG Seeds LG60C33VT2Pro	182.4			60.3	14.0	98	0
Warren Seed DS 5018	202.9			61.4	14.2	103	0	Seed Consultants SCS 1087YHR	181.6	221.4		59.8	13.4	93	0
Stewart 10DP099	202.1	216.8		60.6	14.2	98	0	Local Seed LC0877 VT2P	179.4			59.5	13.5	95	0
FS InVISION FS 6194V RIB	197.4			60.5	13.7	99	0	Progeny Ag EXP1808	177.3			59.6	13.6	98	0
Pioneer P1138AM	196.8	210.6		60.7	14.2	97	0	Channel 209-15VT2PRIB	175.5	215.7		60.4	13.9	97	0
AgriGold A638-44DGVT2PRO	192.8			60.4	13.3	100	0	ARMOR X9110	175.5			59.7	13.9	94	0
NuTech Seed 5FB-8808AM	192.7			60.7	14.1	96	0	Caverndale CF 753GTCBLL	174.0	189.6		60.1	13.9	91	0
NuTech Seed 5FB-9909AM	192.4			59.7	13.4	95	0	ARMOR A0919	171.4			60.9	13.8	97	0
Armor 0887	191.9	206.8		60.0	13.7	99	0	Armor 1118	169.3	200.8		60.2	13.7	98	0
DEKALB DKC61-41RIB	191.7			58.8	13.7	96	0	LG Seeds LG62C35VT2Pro	161.4			60.0	13.9	95	0
Local Seed LCX11-91	190.4			61.5	14.2	94	0	Pioneer P1197AM	156.1	196.3	177.8	60.2	13.6	98	0
Caverndale CF 794 VIPTERA 3111	189.8			62.7	14.8	93	0	<b>Average</b>	<b>184.7</b>	<b>208.3</b>	<b>205.7</b>	<b>60.3</b>	<b>13.8</b>	<b>96</b>	<b>0</b>
NuTech Seed 5FB-1111AM	187.1			61.4	14.1	89	0	C.V.	12.1	10.4	20.3	1.4	2.6	4	0
AgriGold A641-06VT2RIB	187.0	206.9		61.3	14.2	100	0	LSD	43.7	27.8	44.2	1.6	0.7	7	0
PROGENY PGY7111VT2P	187.0	218.0	233.7	59.3	13.3	96	0	Early varieties: 111 days or less to maturity							
Mycogen REV 2098AM	186.9			60.0	13.8	97	0	Shaded cells are not significantly different from top yield (0.10)							
AgriGold A641-54VT2PRO	185.8			59.8	13.9	100	0	Planted: April 29, 2019; Harvested: September 21, 2019							
Stewart 09DD140	185.2			59.5	13.0	94	0	Soil type: Hosmer silt loam; Previous crop: soybean; Fertilizer: 200/0/0							

**Table 12L. Muhlenberg County, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
AgriGold A648-54STX	224.7			61.6	16.7	100	0	Progeny Ag PGY9117VT2P	193.6			62.7	14.7	95	0
DEKALB DKC66-18RIB	223.1			62.0	15.6	100	0	DEKALB DKC68-69RIB	191.8			63.7	16.9	100	0
Stewart 16DP117	221.3	219.2		62.6	16.8	98	0	Local Seed LC1795 VT2P	190.7			62.0	16.1	96	0
DEKALB DKC67-44	217.9	212.6	239.3	62.1	15.1	100	0	Local Seed LCX16-91	189.3			63.3	15.9	97	0
Stewart 16DP310	217.2			62.4	15.4	99	0	Dyna-Gro D56VC46	188.5	207.3		61.5	15.6	93	0
Seed Consultants SCS 1188AM	211.9			62.7	16.0	101	0	Local Seed LC1987 VT2P	187.5			62.8	16.4	100	0
NuTech Seed 78A1AM	210.9			63.5	15.6	100	0	Progeny Ag PGY6116VT2P	187.1	194.1	217.2	60.5	15.4	94	0
Seed Consultants SC-S1168YHR™	210.3	205.2	226.2	61.3	14.3	96	0	Caverndale CF 888 3000GT	179.6	203.4	222.4	61.2	17.1	91	0
Pioneer P2089AML	209.0	214.1		60.8	14.4	101	0	Local Seed LC1878 VT2P	178.5			62.3	16.5	97	0
Channel 218-44VT2PRIB	208.1	209.3	233.2	61.4	14.6	99	0	DEKALB DKC70-27RIB	177.3	198.6	225.0	61.3	15.8	94	0
ARMOR X9116	208.0			60.4	16.4	93	0	FS InVISION FS 67SV1 RIB	177.1	174.6		62.6	16.6	97	0
Local Seed AV7516 YHB	205.2			63.8	15.3	98	0	Progeny Ag PGY8116SS	177.0	191.8		62.7	16.2	98	0
Channel 217-76VT2PRIB	200.3			61.1	16.0	92	0	AgriGold A6659VT2RIB	169.9	183.9	209.4	61.0	14.4	102	0
Stewart 17DP387	198.9	193.7	209.2	63.1	16.6	98	0	Pioneer P1637AM	169.0	165.1	192.7	62.4	14.0	99	0
Dyna-Gro D58VC65	196.8	206.9	218.7	62.6	15.9	98	0	FS InVISION FS 66ZV1 RIB	162.7	184.8	209.2	60.8	15.8	92	0
Local Seed LC1776 VT2P	195.9			62.5	15.4	99	0	<b>Average</b>	<b>196.0</b>	<b>198.4</b>	<b>218.4</b>	<b>62.2</b>	<b>15.7</b>	<b>98</b>	<b>0</b>
Seed Consultants SCS 1170AM	195.6			63.2	14.6	100	0	C.V.	8.3	9.5	12.6	0.9	3.1	4	0
Pioneer P1847AML	195.5	200.3		62.5	15.8	100	0	LSD	31.8	25.8	29.3	1.1	0.9	7	0
AgriGold A647-46VT2PRO	195.4			62.7	16.4	100	0	Late varieties: 116 days or more to maturity							
Taylor 8877	194.7			62.4	16.5	99	0	Shaded cells are not significantly different from top yield (0.10)							
Pioneer P1870AM	194.3	205.5		62.8	15.4	100	0	Planted: April 29, 2019; Harvested: September 21, 2019							
								Soil type: Hosmer silt loam; Previous crop: soybean; Fertilizer: 200/0/0							

**Table 12W. Muhlenberg County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Pioneer P1620WAM	199.4	218.4	229.9	63.0	14.6	101	0
Pioneer P1306WHR	180.2	196.1	214.8	62.6	14.4	98	0
Pioneer P1618W	168.9			63.3	14.6	98	0
Pioneer 32B16	167.7	200.9	213.6	61.6	14.9	92	0
<b>Average</b>	<b>187.1</b>	<b>205.2</b>	<b>219.4</b>	<b>62.7</b>	<b>14.6</b>	<b>98</b>	<b>0</b>
C.V.	5.5	5.2	8.7	0.5	1.0	4	424
LSD	25.3	15.6	21.6	0.7	0.3	9	0

Shaded cells are not significantly different from top yield (0.10)  
 Planted: April 29, 2019; Harvested: September 21, 2019  
 Soil type: Hosmer silt loam; Previous crop: soybean; Fertilizer: 200/0/0

**Table 12M. Muhlenberg County, medium, 2019.**

Name	YIELD (BU/AC)				TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)				TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19							2019	18-19	17-19					
Stewart 8E623RIB	219.5	223.2	215.6	60.5	14.8	99	0	Local Seed LC1586 TC	186.2			62.5	15.6	94	0		
Taylor 8824	217.8			62.9	15.8	98	0	Mycogen REV 2358AM	185.8			59.9	14.5	97	0		
AgriGold A645-16VT2PRO	217.0			60.7	16.0	100	0	Dyna-Gro D52VC15	184.5	206.9		60.9	14.6	101	0		
Medium Check - CF 790	216.7			64.0	15.1	96	0	Caverndale CF 859 VIPTERA 3111	184.3			62.7	15.7	89	0		
Warren Seed DS 7215	216.6	214.5		58.3	17.1	101	0	NK Seed NK1354 3220EZ1	183.0			60.1	14.8	98	0		
Progeny Ag PGY 9114VT2P	215.1	216.3		63.0	15.9	100	0	Caverndale CF 824 3120 E-Z Refuge	182.5	196.7	212.6	58.4	15.1	96	0		
LG Seeds LG5643VT2RIB	211.4	231.4	238.7	61.3	14.9	101	0	Warren Seed DS 5329	181.9			60.5	14.4	97	0		
DEKALB DKC63-91RIB	209.8			59.7	14.4	102	0	NuTech Seed 5FB-7215AM	181.5			61.5	15.3	99	0		
FS InVISION FS 64SV1 RIB	209.5	219.9		60.4	14.7	102	0	NuTech Seed 5TB-6313AM	181.4			60.4	15.0	98	0		
Local Seed LC1289 VT2P	208.9			61.3	15.3	100	0	AgriGold A6572VT2RIB	178.0	202.3	205.5	63.2	16.0	101	0		
Local Seed LC1488 VT2P	208.3			61.4	14.5	103	0	DEKALB DKC65-95RIB	175.8	200.0		62.1	15.6	97	0		
AgriGold A644-32TRCRIB	208.2			61.3	15.5	98	0	Augusta 4465	174.3	200.3		61.0	14.3	99	0		
NuTech Seed 75D2AM	207.3			61.4	14.1	99	0	Warren Seed DS 5510	173.5			63.5	15.5	100	0		
AgriGold A6544VT2RIB	206.4	224.0	242.3	61.2	14.8	100	0	Pioneer P1464VYHR	170.9			62.4	15.2	99	0		
AgriGold A642-59VT2RIB	206.2	200.8		61.2	14.9	99	0	Progeny Ag EXP1913	169.1			61.6	15.8	100	0		
Channel 215-60TRERIB	205.2	221.6		60.2	15.7	99	0	ARMOR X9115	168.9			60.6	15.4	102	0		
DEKALB DKC63-57RIB	204.8	211.8		61.5	14.8	98	0	Taylor 8835	165.6			61.9	16.3	97	0		
Mycogen MY14H95RA	204.3			58.5	16.6	100	0	Mycogen REV 2499AM	162.6			61.5	15.5	99	0		
DEKALB DKC64-35RIB	203.9	210.5	228.8	62.8	15.2	97	0	LG Seeds LG64C30TRCRIB	160.0	191.8		61.2	15.7	97	1		
FS InVISION FS 62ZV1 RIB	203.3			61.0	15.2	102	0	Local Seed AV8614 YHB	158.4			61.1	14.7	96	0		
NuTech Seed 75G1AM	202.9			63.8	15.6	100	0	Seed Consultants SC-S1158YHR™	158.2	173.2	195.9	69.4	13.8	100	0		
Warren Seed DS 7513	202.6	208.5	219.1	58.3	17.9	94	0	Warren Seed DS 5319	158.2			63.3	14.9	95	1		
Progeny Ag EXP1912	202.0			61.1	14.7	100	0	FS InVISION FS 63ZV1 RIB	152.8	178.8		63.3	15.4	101	0		
Dyna-Gro D54VC14	202.0	217.5		62.8	16.0	93	0	NuTech Seed 74J1AML	151.3			62.0	15.6	99	0		
Pioneer P1442YHR	201.6			63.2	15.3	93	0	Mycogen REV 2397AM	147.8			62.7	14.8	100	0		
DEKALB DKC62-53RIB	201.4	205.3		61.2	15.4	98	0	Seed Consultants SCS 1139AM	144.4			63.1	14.8	100	0		
ARMOR A1299	200.9			61.4	14.5	97	0	NuTech Seed 5FB-2213AM	140.3			62.8	15.1	96	0		
Stewart 14DD339	199.1	212.9		61.3	15.8	101	0	<b>Average</b>	<b>188.8</b>	<b>207.5</b>	<b>219.0</b>	<b>61.6</b>	<b>15.3</b>	<b>99</b>	<b>0</b>		
NK Seed NK1573-3330EZ1	198.3			60.6	14.3	99	0	C.V.	15.7	12.1	14.0	2.8	3.8	3	634		
Stewart 15DP519	198.0	212.1		61.4	15.5	96	0	LSD	57.1	32.3	31.0	3.3	1.1	6	0		
LG Seeds LG62C02VT2RIB	197.3	201.3		61.7	15.3	100	0	Medium varieties: 112-115 days to maturity									
Stewart 13DD360	197.1			60.1	14.6	95	0	Shaded cells are not significantly different from top yield (0.10)									
FS InVISION FS 6595V RIB	195.4			61.5	16.5	99	0	Planted: April 29, 2019; Harvested: September 21, 2019									
Progeny Ag EXP1915	194.3			63.7	16.0	99	0	Soil type: Hosmer silt loam; Previous crop: soybean; Fertilizer: 200/0/0									
LG Seeds LG5650VT2RIB	194.1	206.8	212.9	63.3	15.5	99	0										
Local Seed LC1577 VT2P	192.3			62.5	15.7	97	0										
DEKALB DKC65-99RIB	192.1			61.6	15.5	107	0										
Augusta 4565	188.6			60.2	15.2	101	0										

**Table 12C. Muhlenberg County, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Spectrum Non-GMO 6416	221.3			57.5	14.7	96	0
NuTech Seed OA-308	202.1			60.1	13.2	99	0
DEKALB DKC64-85	200.9	203.7	216.8	60.9	13.8	99	0
Pioneer P1870	199.5			72.2	12.6	102	0
Blue River Hybrids 74B75	197.6			58.0	14.6	93	0
Spectrum Non-GMO EXP112	196.4			60.1	13.7	101	0
Pioneer P1197	196.3	220.6		59.0	13.0	98	0
DEKALB DKC60-84	194.2			60.6	14.1	97	0
DEKALB DKC64-32	188.6	203.4		62.0	14.3	96	0
FS InVISION FS 62Z00	186.6			58.9	13.9	99	0
NuTech Seed OA-7215	186.3			59.7	14.3	95	0
Caverndale CF 800	186.0			60.0	14.1	89	0
Spectrum Non-GMO 6244	184.9			60.0	13.3	90	0
Caverndale CF 855	182.1	187.9		62.7	14.8	92	0
FS InVISION FS 67S00	180.2			62.5	16.5	96	0
Pioneer P1442	179.2			61.7	14.1	99	0
Spectrum Non-GMO 6115	176.3			59.6	13.3	97	0
Blue River Hybrids 66G25	160.8			61.3	14.4	99	0
Caverndale CF 805	140.1			62.3	14.5	100	0
<b>Average</b>	<b>190.0</b>	<b>203.9</b>	<b>216.8</b>	<b>60.9</b>	<b>14.0</b>	<b>97</b>	<b>0</b>
C.V.	7.9	7.6	8.4	7.4	5.1	4	734
LSD	30.0	20.4	18.6	9.0	1.4	8	0

Shaded cells are not significantly different from top yield (0.10)

Planted: April 29, 2019; Harvested: September 21, 2019

Soil type: Hosmer silt loam; Previous crop: soybean; Fertilizer: 200/0/0

**Table 13. Muhlenberg County weather, 2019.**

	Monthly Precipitation	Temperature Average
March	4.04	43.8
April	6.51	59.2
May	3.81	68.9
June	8.86	72.9
July	4.9	77.5
August	3.26	76.9
September	0.05	76.3

**Table 14E. Shelby County, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19						2019	18-19	17-19				
Armor 0887	211.7	235.8		61.0	17.0	98	0	Pioneer P1138AM	183.0	207.8		60.7	19.4	98	0
Progeny Ag EXP1808	211.0			61.0	16.6	99	0	ARMOR X9110	182.5			60.0	18.3	97	0
Mycogen REV 2098AM	209.5			59.8	16.8	97	0	Armor 1118	182.3	215.7		59.7	20.0	95	0
FS InVISION FS 6194V RIB	206.2			60.0	18.1	101	0	AgriGold A638-44DGV-2PRO	177.5			61.4	16.6	101	0
LG Seeds LG62C35VT2Pro	205.2			59.9	19.2	96	0	Local Seed LC0877 VT2P	176.4			60.7	17.4	92	0
Stewart 10DP099	201.4	235.3		61.4	17.8	96	0	NuTech Seed 5FB-1111AM	175.4			61.5	19.4	91	0
LG Seeds LG60C33VT2Pro	201.4			60.8	19.5	100	0	ARMOR A0919	172.7			61.8	17.6	100	0
Seed Consultants SCS 1087YHR	197.7	236.4		60.0	17.9	100	0	AgriGold A641-54VT2PRO	172.0			59.4	19.6	101	0
Caverndale CF 753GTCBLL	196.7	220.0		59.9	18.3	100	0	NuTech Seed 68B3AML	171.9			61.4	18.8	101	0
NuTech Seed 5FB-9909AM	196.0			59.8	16.2	100	0	Pioneer P1197AM	168.0	208.3	210.3	59.7	18.8	96	0
DEKALB DKC61-41RIB	195.6			59.8	18.5	98	0	Caverndale CF 794 VIPTERA 3111	165.1			60.7	22.6	96	0
PROGENY PGY7111VT2P	195.0	225.6	227.8	59.8	18.8	98	0	<b>Average</b>	<b>189.6</b>	<b>223.6</b>	<b>219.0</b>	<b>60.4</b>	<b>18.2</b>	<b>98</b>	<b>0</b>
Stewart 09DD140	194.3			59.3	17.4	96	0	C.V.	13.1	9.8	11.5	1.4	5.0	3	948
AgriGold A641-06VT2RIB	192.8	223.6		61.4	18.1	104	0	LSD	48.6	27.5	26.4	1.7	1.8	6	1
Local Seed LCX11-91	192.4			60.0	18.0	99	0	Early varieties: 111 or less days to maturity							
NuTech Seed 5FB-8808AM	189.8			59.5	17.9	95	0	Shaded cells are not significantly different from top yield (0.10)							
Warren Seed DS 5018	187.7			59.8	17.0	101	0	Planted: May 16, 2019; Harvested: September 30, 2019							
Channel 209-15VT2PRIB	185.2	227.5		60.0	18.2	99	0	Soil type: Otwood silt loam; Previous crop: soybean; Fertilizer: 170/74/65							

**Table 14L. Shelby County, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2019	18-19	17-19						2019	18-19	17-19				
Progeny Ag PGY9117VT2P	209.1			60.6	22.7	96	0	Local Seed AV7516 YHB	172.4			61.4	22.3	97	0
Stewart 16DP310	198.6			61.5	21.4	99	0	Seed Consultants SCS 1170AM	172.2			61.9	20.4	96	0
Channel 217-76VT2PRIB	197.5			60.9	19.4	98	0	Local Seed LCX16-91	169.2			62.4	21.0	98	0
Local Seed LC1776 VT2P	196.9			60.4	22.5	96	0	Local Seed LC1987 VT2P	168.7			60.3	22.5	96	0
AgriGold A648-54STX	194.6			60.5	22.6	98	0	Pioneer P2089AML	165.3	206.7		56.0	24.3	101	0
DEKALB DKC67-44	189.6	230.4	221.1	60.8	20.2	101	0	Seed Consultants SC-S1168YHR™	162.4	202.9	196.7	59.0	21.1	95	0
FS InVISION FS 675V1 RIB	188.0	212.8		60.0	21.5	95	0	FS InVISION FS 66ZV1 RIB	162.0	205.1	210.0	60.8	21.4	91	0
Stewart 17DP387	187.5	216.6	217.7	61.2	21.4	97	0	Pioneer P1637AM	160.4	198.4	190.2	59.7	22.2	96	0
Progeny Ag PGY6116VT2P	186.8	222.7	208.8	56.7	25.1	98	0	ARMOR X9116	159.3			59.6	22.1	95	0
Channel 218-44VT2PRIB	186.4	213.0	214.0	59.9	21.8	96	0	Local Seed LC1795 VT2P	155.7			60.1	22.0	100	0
Stewart 16DP117	184.2	225.4		59.8	23.6	101	0	Dyna-Gro D56VC46	155.4	206.6		58.1	23.3	92	0
Dyna-Gro D58VC65	184.0	228.9	213.3	59.3	22.6	95	0	Seed Consultants SCS 1188AM	152.3			61.0	22.2	99	0
DEKALB DKC66-18RIB	183.7			60.5	19.9	96	0	AgriGold A6659VT2RIB	151.1	204.0	217.6	59.6	22.3	100	0
DEKALB DKC70-27RIB	183.5	223.8	205.1	60.0	22.7	96	0	<b>Average</b>	<b>177.2</b>	<b>213.7</b>	<b>210.0</b>	<b>60.2</b>	<b>22.2</b>	<b>97</b>	<b>0</b>
NuTech Seed 78A1AM	182.0			60.5	22.6	99	0	C.V.	12.6	9.0	14.5	1.4	3.4	4	1039
DEKALB DKC68-69RIB	181.3			61.1	24.2	97	0	LSD	43.4	24.8	32.3	1.7	1.5	8	0
Pioneer P1870AM	180.6	211.1		60.9	22.1	99	0	Late varieties: 116 or more days to maturity							
Pioneer P1847AML	179.8	219.0		59.9	23.6	96	0	Shaded cells are not significantly different from top yield (0.10)							
AgriGold A647-46VT2PRO	178.9			61.1	21.7	99	0	Planted: May 16, 2019; Harvested: September 30, 2019							
Taylor 8877	177.7			61.0	22.8	97	0	Soil type: Otwood silt loam; Previous crop: soybean; Fertilizer: 170/74/65							
Caverndale CF 888 3000GT	177.0	214.5	215.3	58.3	24.9	92	0								
Local Seed LC1878 VT2P	173.2			61.2	21.1	95	0								
Progeny Ag PGY81165S	173.0	205.2		61.9	21.9	99	0								



**Table 14W. Shelby County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Pioneer P1620WAM	189.7	210.1	200.7	63.0	21.3	100	0
Pioneer 32B16	177.5	201.2	193.9	59.4	21.8	94	0
Pioneer P1306WHR	173.4	191.0	193.1	62.4	17.9	95	0
Pioneer P1618W	163.4			61.3	21.8	101	0
<b>Average</b>	<b>172.9</b>	<b>200.8</b>	<b>195.9</b>	<b>61.8</b>	<b>19.9</b>	<b>98</b>	<b>0</b>
C.V.	7.6	5.3	8.1	1.3	3.7	4	0
LSD	29.7	14.8	17.9	1.8	1.7	9	0

Shaded cells are not significantly different from top yield (0.10)

Planted: May 16, 2019; Harvested: September 30, 2019

Soil type: Otwood silt loam; Previous crop: soybean; Fertilizer: 170/74/65

**Table 14C. Shelby County, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Pioneer P1197	223.3	230.8		59.3	17.9	97	0
Spectrum Non-GMO 6416	208.7			55.5	22.3	98	0
Spectrum Non-GMO EXP112	204.1			59.1	19.5	98	0
DEKALB DKC64-32	203.5	222.8		60.5	20.2	93	0
DEKALB DKC60-84	201.3			60.7	19.2	100	0
Pioneer P1870	196.4			60.6	21.3	102	0
FS InVISION FS 62Z00	195.2			59.2	18.9	100	0
Spectrum Non-GMO 6244	189.4			57.6	20.5	91	0
Blue River Hybrids 74B75	189.0			55.0	23.1	91	0
Caverndale CF 800	185.7			58.1	20.3	88	0
NuTech Seed OA-7215	185.0			59.4	21.4	95	0
Caverndale CF 855	182.0	195.5		63.2	19.3	89	0
FS InVISION FS 67S00	181.0			60.1	23.2	96	0
NuTech Seed OA-308	174.9			60.7	16.3	97	0
DEKALB DKC64-85	174.6	216.8	201.1	60.7	18.0	96	2
Pioneer P1442	168.9			60.9	21.1	100	0
Blue River Hybrids 66G25	164.7			59.3	21.2	95	0
Spectrum Non-GMO 6115	151.2			57.5	19.7	98	0
Caverndale CF 805	143.2			60.3	18.5	100	0
<b>Average</b>	<b>187.7</b>	<b>216.5</b>	<b>201.1</b>	<b>59.3</b>	<b>20.2</b>	<b>96</b>	<b>0</b>
C.V.	5.7	7.8	11.7	1.4	4.2	5	600
LSD	21.3	21.3	25.6	1.7	1.7	9	2

Shaded cells are not significantly different from top yield (0.10)

Planted: May 16, 2019; Harvested: September 30, 2019

Soil type: Otwood silt loam; Previous crop: soybean; Fertilizer: 170/74/65

**Table 15. Shelby County weather, 2019.**

	Monthly Precipitation	Temperature Average
March	3.93	40.6
April	6.74	56.7
May	6.71	66.7
June	7.15	70.9
July	2.53	76.6
August	3.72	74.2
September	0.06	74.2

**Table 16E. Simpson County, early, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Channel 209-15VT2PRIB	246.6	222.7		59.9	20.0	96	0	NuTech Seed 5FB-9909AM	211.4			59.9	18.6	93	0
Progeny Ag EXP1808	237.8			59.4	17.7	100	0	NuTech Seed 5FB-1111AM	210.4			60.5	20.7	98	0
ARMOR X9110	237.7			60.3	19.7	98	0	Pioneer P1138AM	209.2	202.0		61.0	20.7	95	0
Stewart 09DD140	235.5			58.2	20.4	95	0	Caverndale CF 794 VIPTERA 3111	209.1			60.1	19.1	95	0
Stewart 10DP099	234.4	212.7		60.6	18.9	96	0	Warren Seed DS 5018	209.0			60.0	19.9	97	0
FS InVISION FS 6194V RIB	233.1			59.6	20.5	100	0	LG Seeds LG60C33VT2Pro	207.9			60.3	18.9	98	0
Armor 1118	226.0	208.7		60.3	19.0	100	0	Caverndale CF 753GTCBLL	207.7	206.2		60.1	19.2	92	0
DEKALB DKC61-41RIB	225.5			59.9	19.5	100	0	Seed Consultants SCS 1087YHR	205.5	212.8		60.1	19.7	96	0
PROGENY PGY7111VT2P	222.6	213.4	208.2	59.3	19.6	100	0	NuTech Seed 5FB-8808AM	204.8			60.6	18.2	96	0
Pioneer P1197AM	222.1	203.7	204.2	60.4	19.7	98	0	AgriGold A641-54VT2PRO	204.0			60.8	18.0	97	0
Local Seed LC0877 VT2P	220.5			59.8	19.8	96	0	Local Seed LCX11-91	195.4			60.2	19.7	98	0
Armor 0887	219.1	205.2		58.9	16.3	96	0	<b>Average</b>	<b>217.1</b>	<b>209.2</b>	<b>206.2</b>	<b>60.1</b>	<b>19.2</b>	<b>98</b>	<b>0</b>
LG Seeds LG62C35VT2Pro	218.3			60.2	19.1	98	0	C.V.	6.7	8.1	8.4	1.4	4.4	4	547
AgriGold A641-06VT2RIB	218.1	204.0		60.9	19.8	104	0	LSD	28.3	23.5	19.7	1.7	1.7	8	0
NuTech Seed 68B3AML	215.3			60.9	19.5	105	0	Early varieties: 111 days or less to maturity							
ARMOR A0919	215.2			60.4	18.4	100	0	Shaded cells are not significantly different from top yield (0.10)							
AgriGold A638-44DGV2PRO	213.0			59.7	18.8	102	0	Planted: April 11, 2019; Harvested: September 9, 2019							
Mycogen REV 2098AM	212.2			60.9	19.3	96	0	Soil type: Mountview silt loam; Previous crop: soybean; Fertilizer: 197/83/84							

**Table 16L. Simpson County, late, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Channel 218-44VT2PRIB	247.3	234.1	229.7	59.6	21.5	99	0	Local Seed LC1878 VT2P	222.6			61.7	20.4	99	0
Stewart 16DP117	241.9	235.9		60.3	24.4	98	0	Dyna-Gro D56VC46	220.4	221.2		59.9	22.2	100	0
DEKALB DKC66-18RIB	238.9			60.8	20.8	94	0	DEKALB DKC68-69RIB	218.8			61.2	24.0	100	0
Dyna-Gro D58VC65	238.2	229.6	205.2	61.3	21.9	99	0	Local Seed LCX16-91	218.7			61.5	21.5	93	0
Progeny Ag PGY9117VT2P	232.9			70.8	20.2	96	0	Local Seed LC1987 VT2P	218.5			60.5	23.5	101	0
AgriGold A647-46VT2PRO	232.1			61.1	22.2	103	0	Local Seed LC1776 VT2P	218.4			60.8	22.6	96	0
ARMOR X9116	231.6			68.0	20.4	100	0	Pioneer P2089AML	218.2	217.0		59.2	23.8	100	0
Seed Consultants SCS 1170AM	231.6			61.4	22.0	97	0	Progeny Ag PGY6116VT2P	217.4	219.8	215.3	58.7	23.3	99	0
NuTech Seed 78A1AM	230.8			61.2	23.5	97	0	Pioneer P1637AM	214.8	215.9	219.6	61.6	21.5	95	0
Stewart 17DP387	230.8	228.9	200.1	61.4	22.3	99	0	Taylor 8877	214.5			60.8	22.8	97	0
AgriGold A648-54STX	230.8			60.5	24.0	94	0	Seed Consultants SCS 1188AM	210.8			60.8	23.2	98	0
Pioneer P1870AM	230.2	221.4		60.6	23.5	100	0	Progeny Ag PGY8116SS	208.8	218.7		61.5	20.6	101	0
Channel 217-76VT2PRIB	229.9			60.3	21.3	100	0	Pioneer P1847AML	205.2	212.6		60.4	23.1	100	0
Seed Consultants SC- S1168YHR™	229.4	236.6	228.1	60.5	22.4	97	0	FS InVISION FS 66ZV1 RIB	204.3	212.0	201.6	60.5	21.8	95	0
DEKALB DKC67-44	227.5	227.8	217.9	61.2	20.5	96	0	Caverndale CF 888 3000GT	204.2	207.2	195.1	57.7	23.9	92	0
Local Seed AV7516 YHB	226.7			61.9	22.9	95	0	<b>Average</b>	<b>224.1</b>	<b>222.3</b>	<b>212.4</b>	<b>61.1</b>	<b>22.3</b>	<b>98</b>	<b>0</b>
Local Seed LC1795 VT2P	225.4			59.3	23.2	96	0	C.V.	5.1	5.7	6.4	6.6	6.1	3	0
Stewart 16DP310	224.3			61.7	21.2	97	0	LSD	22.0	17.4	15.4	7.9	2.7	7	0
AgriGold A6659VT2RIB	223.9	218.0	201.8	61.1	21.6	97	0	Late varieties: 116 days or more to maturity							
FS InVISION FS 67SV1 RIB	223.4	216.0		60.3	25.0	99	0	Shaded cells are not significantly different from top yield (0.10)							
DEKALB DKC70-27RIB	223.2	229.6	221.8	60.2	21.8	97	0	Planted: April 11, 2019; Harvested: September 9, 2019							
								Soil type: Mountview silt loam; Previous crop: soybean; Fertilizer: 197/83/84							

**Table 16W. Simpson County, white, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19				
Pioneer P1306WHR	207.5	209.3	208.0	62.2	19.9	100	0
Pioneer P1620WAM	205.8	217.9	217.1	62.4	21.6	100	0
Pioneer 32B16	196.9	206.2	203.0	60.5	22.4	91	0
Pioneer P1618W	179.9			63.0	21.4	101	0
<b>Average</b>	<b>198.4</b>	<b>211.1</b>	<b>209.4</b>	<b>62.1</b>	<b>20.8</b>	<b>99</b>	<b>0</b>
C.V.	4.0	4.7	4.9	0.6	2.0	2	424
LSD	17.8	14.2	11.6	0.9	0.9	4	0

Shaded cells are not significantly different from top yield (0.10)  
 Planted: April 11, 2019; Harvested: September 9, 2019  
 Soil type: Mountview silt loam; Previous crop: soybean; Fertilizer: 197/83/84

**Table 16M. Simpson County, medium, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Stewart 13DD360	243.8			59.7	19.7	101	0	AgriGold A6572VT2RIB	222.1	206.9	207.1	62.4	19.5	100	0
Channel 215-60TRERIB	243.3	243.3		59.5	19.0	98	0	Progeny Ag EXP1913	221.9			61.5	18.9	101	0
Stewart 15DP519	240.4	237.5		60.1	20.5	100	0	FS InVISION FS 64SV1 RIB	217.6	214.5		59.1	20.2	98	0
DEKALB DKC63-91RIB	240.0			59.8	18.0	101	0	Augusta 4565	217.2			59.2	20.3	100	0
NK Seed NK1573-3330EZ1	239.9			59.0	20.3	102	0	LG Seeds LG62C02VT2RIB	217.1	213.3		60.9	18.7	98	0
LG Seeds LG5643VT2RIB	238.7	230.0	227.0	59.5	19.9	97	0	Warren Seed DS 5319	216.4			62.2	19.0	99	0
Progeny Ag PGY 9114VT2P	237.6	233.1		61.8	20.5	103	0	ARMOR A1299	216.1			61.1	17.9	94	0
Dyna-Gro D54VC14	236.7	227.2		61.9	19.4	98	0	DEKALB DKC65-95RIB	215.3	215.7		61.7	19.0	99	0
Taylor 8824	235.6			61.9	19.8	92	0	Mycogen MY14H95RA	214.8			56.7	20.5	102	0
Stewart 14DD339	234.7	230.8		60.0	19.3	102	0	LG Seeds LG64C30TRCRIB	213.0	216.8		60.8	19.5	89	0
DEKALB DKC63-57RIB	234.7	229.1		61.0	18.3	99	0	AgriGold A645-16VT2PRO	212.3			60.0	19.8	97	0
AgriGold A6544VT2RIB	234.3	229.9	227.5	59.9	19.1	100	0	Local Seed LC1289 VT2P	211.3			60.4	18.8	98	0
Dyna-Gro D52VC15	233.4	215.1		61.1	18.9	100	0	FS InVISION FS 63ZV1 RIB	211.0	191.1		62.7	18.7	99	0
Stewart 8E623RIB	232.7	229.1	228.2	59.4	18.6	98	0	Progeny Ag EXP1915	210.6			62.5	20.0	100	0
DEKALB DKC62-53RIB	232.7	226.5		61.0	18.8	97	0	NuTech Seed 5TB-6313AM	210.3			59.3	20.7	94	0
FS InVISION FS 6595V RIB	232.7			60.3	21.3	104	0	Pioneer P1464VYHR	208.9			60.2	21.4	102	0
FS InVISION FS 62ZV1 RIB	232.4			60.3	19.9	101	0	Mycogen REV 2499AM	208.6			60.7	20.2	97	0
Warren Seed DS 5510	232.3			61.0	22.1	101	0	Local Seed LC1488 VT2P	207.8			60.8	17.8	100	0
Augusta 4465	231.8	224.2		59.2	20.3	98	0	Caverndale CF 824 3120 E-Z Refuge	207.0	205.3	199.3	56.8	18.8	96	0
Local Seed LC1577 VT2P	230.8			62.1	19.8	100	0	NK Seed NK1354 3220EZ1	206.8			58.6	18.7	96	0
AgriGold A642-59VT2RIB	228.6	222.1		60.2	19.2	97	0	Local Seed LC1586 TC	206.3			61.6	20.5	89	0
Warren Seed DS 7215	228.0	221.0		57.0	20.2	100	0	NuTech Seed 5FB-2213AM	205.9			62.3	19.7	99	0
AgriGold A644-32TRCRIB	227.7			61.2	19.6	95	0	NuTech Seed 5FB-7215AM	203.3			60.0	19.9	98	0
ARMOR X9115	227.5			59.8	20.2	101	0	Caverndale CF 859 VIPTERA 3111	201.9			61.5	21.8	91	0
Mycogen REV 2358AM	227.4			58.2	22.0	99	0	Pioneer P1442YHR	201.7			61.1	21.3	92	0
Mycogen REV 2397AM	227.3			61.8	19.4	97	0	Warren Seed DS 7513	200.5	195.5	199.8	57.9	20.0	91	0
DEKALB DKC64-35RIB	227.1	221.8	192.8	61.9	19.2	94	0	Seed Consultants SC-S1158YHR™	198.3	208.4	207.0	60.4	20.6	97	0
Warren Seed DS 5329	226.5			59.0	20.9	100	0	NuTech Seed 74J1AML	181.3			61.2	21.7	102	0
Taylor 8835	225.9			70.1	18.5	100	0	<b>Average</b>	<b>221.5</b>	<b>220.5</b>	<b>211.5</b>	<b>60.6</b>	<b>19.8</b>	<b>98</b>	<b>0</b>
Seed Consultants SCS 1139AM	225.4			61.5	19.5	99	0	C.V.	5.1	6.8	7.9	3.4	4.6	4	799
Local Seed AV8614 YHB	225.3			60.1	20.9	100	0	LSD	21.5	20.3	18.9	3.9	1.8	8	0
LG Seeds LG5650VT2RIB	224.5	223.5	214.9	61.9	20.5	102	0	Medium varieties: 112-115 days to maturity							
NuTech Seed 75D2AM	224.4			60.2	18.3	95	0	Shaded cells are not significantly different from top yield (0.10)							
Progeny Ag EXP1912	223.4			61.0	18.6	95	0	Planted: April 11, 2019; Harvested: September 9, 2019							
DEKALB DKC65-99RIB	223.2			60.9	19.9	105	0	Soil type: Mountview silt loam; Previous crop: soybean; Fertilizer: 197/83/84							
NuTech Seed 75G1AM	222.2			61.0	21.8	97	0								

**Table 16C. Simpson County, conventional, 2019.**

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2019	18-19	17-19						2019	18-19	17-19				
Spectrum Non-GMO EXP112	228.5			61.0	19.8	100	0	NuTech Seed 0A-308	205.9			61.2	18.4	100	0
DEKALB DKC64-32	228.0	231.3		61.6	20.2	98	0	Spectrum Non-GMO 6416	204.9			57.1	20.9	95	0
DEKALB DKC60-84	225.0			61.0	19.4	100	0	Blue River Hybrids 74B75	201.4			57.5	20.5	98	0
FS InVISION FS 62Z00	223.8			59.5	20.5	104	0	Spectrum Non-GMO 6244	199.0			58.3	20.8	94	0
Pioneer P1870	222.3			61.9	21.4	105	0	Blue River Hybrids 66G25	193.8			60.8	20.5	100	0
Pioneer P1197	217.6	220.6		59.4	20.1	97	0	DEKALB DKC64-85	192.5	204.2	212.0	60.9	19.8	99	0
NuTech Seed 0A-7215	217.3			59.5	21.0	104	0	Caverndale CF 800	183.2			58.0	20.7	91	0
Pioneer P1442	215.7			60.3	22.4	100	0	<b>Average</b>	<b>210.4</b>	<b>216.6</b>	<b>212.0</b>	<b>60.1</b>	<b>20.6</b>	<b>98</b>	<b>0</b>
Caverndale CF 805	213.9			60.6	19.3	95	0	C.V.	6.3	6.3	7.1	0.9	4.5	3	734
FS InVISION FS 67S00	211.0			60.6	23.4	94	0	LSD	26.7	18.6	16.9	1.1	1.9	6	0
Caverndale CF 855	208.5	210.3		62.8	21.5	91	0	Shaded cells are not significantly different from top yield (0.10) Planted: April 11, 2019; Harvested: September 9, 2019 Soil type: Mountview silt loam; Previous crop: soybean; Fertilizer: 197/83/8							
Spectrum Non-GMO 6115	208.5			59.7	18.9	100	0								

**Table 17. Simpson County weather, 2019.**

	Monthly Precipitation	Temperature Average
March	2.16	44.9
April	5.67	59.6
May	1.44	70.3
June	11.95	74.2
July	5.54	78.1
August	4.34	75.9
September	0.46	75.4

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