

2018 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 2018 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 2019. 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

The map on Page 2 shows the test locations (Figure 1). The test sites were selected to represent different agro-climatic areas of Kentucky where corn is a major commodity. There were six total tests from six locations across the state. Included in these six tests was one irrigated test in Daviess County. It was 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. Carlisle County had to be excluded due to mechanical error

across the entire test. Moreover, the Early, Medium, and Late tests were excluded in Caldwell County 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. Carl Bradley and Kelsey Mehl, UK Plant Pathologists in Princeton. Ratings were made during this middle of August. Princeton had low disease levels overall, so only Fayette County is reported. Special thanks to Dr. Bradley and Ms. Mehl for this work.

Cultural Practices

Corn seed was planted no-till into soybean stubble at four locations, corn stubble at one location, 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 comparisons 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 six locations for a total of 30 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.

Figure 1. Locations of the 2018 Kentucky hybrid corn performance tests.

1. Caldwell County
2. Daviess County
3. Fayette County
4. Muhlenburg County
5. Shelby County
6. Simpson County

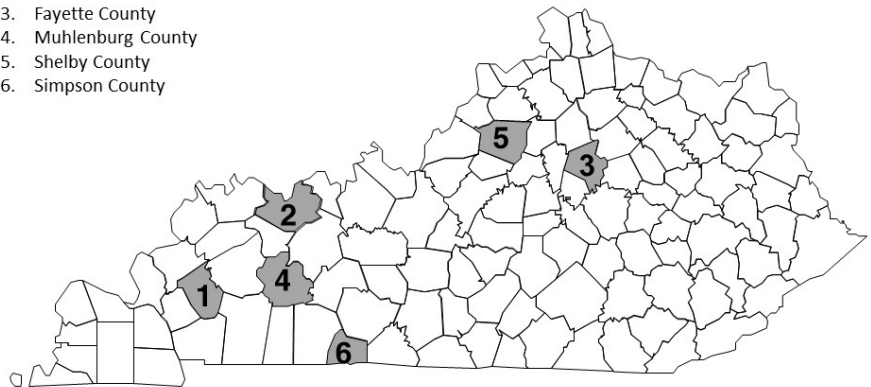


Table 1. Hybrids tested in 2018.

Company	Hybrid	TRAIT*	TEST	COLOR	CRM
AgriGold Hybrids	A639-40VT2PRO	VT2PRO	E	Yellow	109
Justin Warren	A641-06VT2PRO	VT2PRO	E	Yellow	111
5381 Akin Rd	A641-78STXRIB	STX	E	Yellow	111
St. Francisville, IL 62460	A642-59VT2RIB	V2RIB	M	Yellow	112
justin.warren@agrigoold.com	A6499STX	STX	M	Yellow	112
800-262-7333	A6544VT2RIB	VT2PRO	M	Yellow	113
	A6572VT2RIB	VT2PRO	M	Yellow	114
	A645-10VT2RIB	VT2PRO	M	Yellow	115
	A6659VT2RIB	VT2PRO	L	Yellow	116
	A646-12STX	STX	L	Yellow	116
	A647-90VT2RIB	VT2PRO	L	Yellow	117
Armor Seed	0887	PRO2	E	Yellow	108
Chris Ouzts	X8111	PRO2	E	Yellow	111
183 Pennsylvania Ave	1227	PRO2	M	Yellow	112
Waldenburg, AR 72475	X8113	PRO2	M	Yellow	113
chrisouzts@armorseed.com	1447	PRO2	M	Yellow	114
662-719-3157	1667	PRO2	L	Yellow	116
	X8113	PRO2	L	Yellow	117
Augusta Seed Corporation	4858	3010GT	E	Yellow	108
Matt Rawley	4463	VT2P	E	Yellow	113
PO Box 899	4860	3220GT	E	Yellow	113
Verona, VA 24482	5464	3220GT	L	Yellow	114
Matt.rawley@augustaseed.com	5065	3111GT	M	Yellow	115
540-886-6055	4465	3110GT	M	Yellow	115
Brodbeck Seeds	48RA09	PWRA	E	Yellow	109
Dan Ritter	49RA12	PWRA	M	Yellow	112
dritter@brodbeckseed.com	49RA14	PWRA	M	Yellow	114
Caverndale Farms Brand Seed	CF 753	GT, CB, LL	E	Yellow	108
Barry Welty	CF 790	Conv	C	Yellow	109
1921 Bluegrass Pike	CF 824 3120 E-Z Refuge	GT,CB,LL,HX1	M	Yellow	112
Danville, KY 40422	CF 853 VIP 3110	GT, CB,LL, VIP	M	Yellow	115
bwelty@kywimax.com	CF 855	Conv	C	Yellow	115
859-236-2150	CF 870	Conv	C	Yellow	116
Channel	209-15VT2PRIB	VT2PRIB	E	Yellow	109
Whitney Monin	212-20VT2PRIB	VT2PRIB	M	Yellow	112
250 Dogwood Dr.	213-19VT2PRIB	VT2PRIB	L	Yellow	113
Beaver Dam, KY 42320	215-60TRE	TRE	M	Yellow	115
whitney.monin@channel.com	216-36DGV2PRIB	DG, VT2PRIB	L	Yellow	116
515-314-8834	CF 888 3000GT	GT,CB,LL,HX1	L	Yellow	117
	218-44VT2PRIB	VT2PRIB	L	Yellow	118
Dupont Pioneer	P1138	AM,LL,RR	E	Yellow	111
George Stabler	P1197AM	AM,LL,RR	E	Yellow	111
425 Abbeydale Way	P1197	None CONV.	C	Yellow	111
Columbia, SC 29229	P1316AM	AM	M	Yellow	113
George.Stabler@pioneer.com	P1306WHR	HX1, LL, RR2	W	White	113
803-308-1003	P1620WAM	AM	W	White	113
	P1442AM	AM,LL,RR	M	Yellow	114
	P1464AML	VIP,HX,YG,RR,LL	M	Yellow	114
	P1618WAM	HX,LL,RR	W	White	116
	P1637AM	AM,LL,RR	L	Yellow	116
	P1620WAM	HX,LL,RR	W	White	116
	32B16	HX1, LL, RR2	W	White	117
	P1847 AML	VIP,HX,RR,LL	L	Yellow	118
	P1870 AM	AM,LL,RR	L	Yellow	118
	P2089AM	AM	L	Yellow	120
Dyna-Gro Seed	D52VC15	VT2Pro	E	Yellow	112
Landon Taylor	D54VC14	VT2Pro	M	Yellow	114
2760 Keller Rd	D55VC45	VT2Pro	M	Yellow	115
Owensboro, KY 42301	D56VC46	VT2Pro	L	Yellow	116
Chris.hummel@cpsagu.com	CX17117	SmartSTax	L	Yellow	117
Chris Hummel - 573-470-1499	D58VC65	VT2PRO	L	Yellow	118
Growmark	FS 60UX1 RIB	SStx RIB	E	Yellow	110
Dennis Garzonio	FS 62TV1DG RIB	DG, VT2PRIB	M	Yellow	112
FS InVISION	FS 62ZXI RIB	SStx RIB	M	Yellow	112

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 Shelbyville, Ky.
- Phillip Bean and family of Bardwell, Ky.
- Jason Strode and family of Stanley, Ky.
- Randy Mann and family of Franklin, 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.

- Dr. Carl Bradley, Extension Plant Pathologist, Research and Education Center, Princeton, KY.
- Scott Peek, Farm Manager, Research and Education Center, Princeton, KY.
- Matt Peake, Farm Manager, North Farm, Lexington, KY.
- Zack Jones, Matthew Puryear, Andre Stewart, Chase Cocanougher student help in 2018.
- Mark Thomas and Mindy Jones, Dupont Pioneer for supplying seed for borders
- Corinne Belton, Extension Agent, Shelby County, KY
- Darrell Simpson, Extension Agent, Muhlenburg County, KY
- Jason Phillips, Extension Agent, Simpson County, KY
- Chuck Flowers, Extension Agent, Carlisle County, KY
- Clint Hardy, Extension Agent, Daviess County, KY

Source of Seeds

The seeds planted in the 2018 Hybrid Corn Performance Test were acquired from the sources listed in Table 1.

Table 1. Hybrids tested in 2018 (continued).

Company	Hybrid	Trait*	Test	Color	CRM
1701 Towanda Ave Bloomington, IL 61702-2500 dgarzonio@growmark.com 309-557-6234	FS 62B00 FS 63ZV1 RIB FS 63Z00 FS 64SVI FS 66ZV1 RIB FS 63Z00 FS 67SV1	Conv. VT2P RIB Conv. VT2P RIB VT2P RIB VT2P RIB VT2P RIB	C M M M L C C	Yellow Yellow Yellow Yellow Yellow Yellow Yellow	112 113 113 114 116 116 117
Hoegemeyer Hybrids Jeremy Horvatic 1755 Hoegemeyer Rd Hooper, NE 68031 j.horvatic@hoegemeyer.com 402-719-4737	HPT 8091 AM HPT 8292 HPT 8294 HPT 8414 AM HPT 8572 AM	AM Conv. AM AM AM	E C M M M	Yellow Yellow Yellow Yellow Yellow	110 112 112 114 115
LG Seeds Dan Mitchell 22827 Shissler Road Elmwood, IL 61529 dan.mitchell@lgseeds.com 812-457-3132	LG59C77VT2PRO LG62C02VT2RIB LG64C30TRC LG5643VT2RIB LG5663VT2PRO LG5650VT2Pro	VT2PRO VT2PRO VT2TVIP VT2Pro VT2Pro VT2Pro	E M M M M M	Yellow Yellow Yellow Yellow Yellow Yellow	109 112 114 114 115 115
Mission Seed Solutions Bryan Olivi 516 N. Sharpe Ave Cleveland, MS 38732 Bryan.olivi@pinnacleag.com 662-719-8685	Mex1308VT2P Mex1548DGV2P A1857SS	RR2, VT2P RR2, VT2P, DG RR2, SS	E M L	Yellow Yellow Yellow	111 115 117
Monsanto (DEKALB) Glenn Murphy 264 Persimmon Ridge Dr Louisville, KY 40245 glen.p.murphy@monsanto.com 502-377-5053	DKC58-35RIB DKC60-88RIB DKC61-98RIB DKC61-52 DKC62-53RIB DKC63-57RIB DKC64-35RIB DKC64-89RIB DKC64-85 DKC64-32 DKC65-95RIB DKC65-20RIB DKC66-75RIB DKC67-44RIB DKC70-27RIB	GENVT2PRIB GENVT2RIB GENVT2RIB GENVT2RIB GENTVPRIB GENVT2RIB GENVT2RIB GENVT2PRIB CONV. CONV. GENTVPRIB GENVT2PRIB GENVT2PRIB GENVT2PRIB GENVT2PRIB L L L	E E E C M M M M M M M M L L L	Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow Yellow	108 110 111 111 112 113 114 114 114 114 115 115 116 117 120
Pfister Seeds Keith Niemeier 201 Knollwood Dr Champaign, IL 61820 kniemeier@pfisterseeds.com 618-541-0605	69H1PE 61H1 71CPCR 68A1 2874 74D2PC 75Y1PCR	Power Core CONV. Power Core CONV. CONV. PC Power Core	E E E M C M M	Yellow Yellow Yellow Yellow Yellow Yellow Yellow	109 109 111 111 113 114 115
Progeny Ag Products John D. Rocconi 1529 HWY 93 Wynne, AR 72396 JohnR@progenyag.com 870-238-2079	PGY7111VT2P PGY EXP1712 PGY4114VT2P PGY7115VT2P PGY7215VT2P PGY8116SS PGY6116VT2P	VT2P VT2P, RR VT2P VT2P, RR VT2P SS,RR,LL VT2P, RR	E E M M M L L	Yellow Yellow Yellow Yellow Yellow Yellow Yellow	111 112 114 115 115 116 116
Seed Consultants Inc. Matt Hutcheson 648 Miami Trace Rd. SW Washington Court House, OH 43160 matt@seedconsultants.com 800-708-2676	SCS 1087YHR SCS 1105YHR™ SCS 1125YHR™ SCS 1136YHR™ SCS1139YHR SCS 1158YHR™ SCS 1168YHR™	Optimum Instrasect YGCB/HX1/LL/RR2 YGCB/HX1/LL/RR2 RR2,HX,LL,YGCB Optimum Instrasect RR2,HX,LL,YGCB RR2,HX,LL,YGCB	E E M M M M L	Yellow Yellow Yellow Yellow Yellow Yellow Yellow	108 110 112 113 113 115 116

Table 1. Hybrids tested in 2018 (continued).

Company	Hybrid	Trait*	Test	Color	CRM
Stewart Seeds	10DP099	VT2PRO	E	Yellow	110
Justin Petrosino	11DP099	VT2PRO	E	Yellow	111
127 N Grove Street	12DP209	VT2PRO	M	Yellow	112
Bowling Green, OH 43402	8E623RIB	VT2PRO	M	Yellow	112
justin.petrosino@stewartseeds.com	14DP339	VT2PRO	M	Yellow	114
419-681-3427	15DP519	VT2PRO	M	Yellow	115
	16DP117	VT2PRO	L	Yellow	116
	17DP387	VT2PRO	L	Yellow	117
	19DP799	VT2PRO	L	Yellow	118
Syngenta (NK)	NK 1066	3110	E	Yellow	110
Chuck Leonard	NK1433	3000 GT	M	Yellow	114
5210 State Rd 945					
Hickory, KY 42051					
chuck.leonard@syngenta.com					
270-519-9600					
Terral Seed, Inc.	REV® 23BHR55™	YGCB,HX1,LL,RR	M	Yellow	113
Marty Hale	REV 23C55		M	Yellow	113
111 Ellington Dr.	REV 27BHR99	YGCB,HX1,LL,RR	M	Yellow	114
Rayville, LA 71269	REV® 25BHR26™	YGCB,HX1,LL,RR	M	Yellow	115
mhale@terralseed.com	REV 25BHR89	YGCB,HX1,LL,RR	M	Yellow	115
318-341-8814	REV 25C26		M	Yellow	115
	REV27BHR79	YGCB,HX1,LL,RR	L	Yellow	117
	REV® 28BHR18™	YGCB,HX1,LL,RR	L	Yellow	118
Warren Seed & Agronomy Service	DS 9412SSX	SSX	M	Yellow	112
Lanny Warren	DS 7513	Power Core	M	Yellow	113
208 South Thompson St	DS 9913SSX	SSX	M	Yellow	113
Union City, TN 38261	DS7414	Power Core	M	Yellow	114
lanny.warren@charter.net	DS 7915 PE	POwer Core Enlist	M	Yellow	115
731-885-6595	DS 7215	PowerCore	M	Yellow	115
Wyffels Hybrids	W7456RIB	VT2P	M	Yellow	112
Mitch Heisler	W7696RIB	VT2P	M	Yellow	113
13344 US Hwy 6	W7976	VT2P	M	Yellow	113
Geneseo, IL 61234	W8646RIB	VT2P	L	Yellow	116
mheisler@wyffels.com					
309-945-7032					
270-519-9600					
T.A. Seeds	TA598-22DPRIB	VT2P	E	Yellow	110
Cory Chelko	TA736-28RIB	SSX	M	Yellow	113
39 Seeds Lane	TA765-30	Vip 3110	M	Yellow	115
Jersey Shore, PA 17740	TA758-28RIB	SSX	M	Yellow	115
cchelko@taseeds.com					
570-753-5503					
Terral Seed, Inc.	REV® 23BHR55™	YGCB,HX1,LL,RR	M	Yellow	113
Marty Hale	REV® 25BHR26™	YGCB,HX1,LL,RR	M	Yellow	115
111 Ellington Dr.	REV® 28BHR18™	YGCB,HX1,LL,RR	L	Yellow	118
Rayville, LA 71269					
mhale@terralseed.com					
318-341-8814					
Warren Seed & Agronomy Service	DS 9610	3000 GT	E	Yellow	110
Lanny Warren	DS 9412SSX	SSX	M	Yellow	112
208 South Thompson St	DS 7513	Power Core	M	Yellow	113
Union City, TN 38261	DS 9913SSX	SSX	M	Yellow	114
lanny.warren@charter.net	DS 9314SSX	SSX	M	Yellow	114
731-885-6595	DS 6414	RR	M	Yellow	115
Wyffels Hybrids	W7456RIB	VT2P	M	Yellow	112
Mitch Heisler	W7696RIB	VT2P	M	Yellow	113
13344 US Hwy 6	W8268	SS	L	Yellow	116
Geneseo, IL 61234	W8646	SS	L	Yellow	116
mheisler@wyffels.com					
309-945-7032					

***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
BT: corn borer resistance
BTCB: corn borer resistance
BTRW: corn rootworm resistance
CB: corn borer resistance
Conv: Conventional, No GMO Traits
DG: DroughtGard
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
LL: Liberty Link glufosinate tolerance
Optimum Intrasect: YGCB, HX1, LL, RR2
Power Core, PCRA, PWRA, PC: VT2PRO + HX1 + above ground traits
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
BL:
RW: corn rootworm resistance
****Test:** E = Early, M = Medium, L = Late, W = White
™ = Trade Mark
*****CRM:** Cumulative Relative Maturity

Table 2E. State summary, early, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
Channel 209-15VT2PRIB	241.7			58.4	18.6	85	1	AgriGold A641-78STXRIB	219.3			60.0	19.1	84	0
Seed Consultants SCS 1087YHR™	239.2			59.1	17.4	87	0	Caverndale CF 753GTCBLL	219.0			59.1	18.1	83	0
Stewart 10DP099	234.9			59.3	18.3	80	0	Seed Consultants SCS 1105YHR™	218.1	218.2	214.9	59.3	17.5	82	0
Progeny Ag PGY7111VT2P	232.2	228.4		58.0	17.8	87	0	Hoegemeyer HPT 8091 AM	217.7	227.3		59.1	17.6	79	0
Armor X8111	229.4			58.9	19.4	82	0	Pioneer P1197AM	215.9	219.7	218.8	58.8	18.1	79	0
AgriGold A639-40VT2RIB	229.1	221.7		58.7	17.9	84	0	Pioneer P1138AM	214.3			59.7	18.6	84	0
LG Seeds LG5590VT2RIB	223.8			58.7	18.1	86	0	FS InVISION FS 60UX1 RIB	211.2			60.4	19.4	80	0
Seed Consultants SCS 1139YHR™	223.1			60.7	19.8	82	0	Brodbeck 48RA09	210.9			58.4	17.9	79	0
AgriGold A641-06VT2PRO	222.9			58.9	18.7	79	0	Pfister 71CPCRA	208.9	213.4		56.7	19.4	82	0
Stewart 11DP718	222.5	225.9		58.3	20.4	84	0	DEKALB DKC58-35RIB	207.3			60.0	17.9	80	0
Augusta 4860	222.1			58.0	18.5	87	0	Augusta 4858	207.3			59.1	18.1	78	0
NK Seeds NK1066	221.2	215.5	211.8	58.3	18.7	81	0	Average	219.1	218.6	215.1	59.0	18.3	82	0
Armor 0887	221.1			58.9	17.1	83	0	C.V.	8.3	8.7	9.3	1.1	3.3	8	813
DEKALB DKC60-88RIB	221.0	222.3		59.5	18.2	82	0	LSD	15.6	25.8	22.3	0.6	0.5	6	0
Pfister 68A1PE	220.3			57.7	18.0	85	0	Early varieties: 111 or less days to maturity Shaded cells are not significantly different from top yield (0.10)							
DEKALB DKC61-98RIB	219.7			59.1	19.0	83	0								

Table 2L. State summary, late, 2018

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
DEKALB DKC70-27RIB	232.6	233.6		58.7	22.6	80	0	Armor X8117	213.7			61.2	21.3	79	0
Dyna-Gro D56VC46	230.7		217.2	60.5	21.1	86	0	Progeny Ag PGY8116SS	211.1			60.7	22.0	84	0
Dyna-Gro D58VC65	230.1	226.3		59.8	21.3	87	0	AgriGold A646-12STXRIB	210.7			60.4	21.4	74	0
Stewart 16DP117	228.1		217.0	59.3	22.5	80	0	Wyffels W8646	210.0	215.8		59.0	21.0	82	0
DEKALB DKC67-44	227.8	233.2	230.0	60.1	20.8	84	0	CHANNEL 218-44VT2PRIB	209.9	225.8	219.8	60.0	21.7	80	0
Progeny Ag PGY6116VT2P	225.9	226.2	216.5	57.3	22.3	84	0	FS InVISION FS 67SV1 RIB	209.5			60.1	22.2	83	0
Pioneer P1847AML	225.6			59.2	23.0	86	0	Mission Seed A1857SS	201.2			60.5	21.9	80	0
DEKALB DKC66-75	224.5	227.2	219.1	59.2	20.6	82	0	AgriGold A647-90VT2RIB	199.2	213.3		60.2	22.1	79	0
Caverndale CF 888 3000GT	222.5	220.6		57.2	24.0	77	0	Armor 1667S	198.8			60.8	21.7	82	0
AgriGold A6659VT2RIB	222.5	220.9	217.0	59.6	20.8	84	0	Pioneer P1637AM	197.0	211.8	211.3	60.3	21.6	79	0
REV® 28BHR18™	219.6	217.5		59.8	22.6	83	0	Dyna-Gro CX17117	192.2			60.8	21.9	83	0
Pioneer P1870AM	218.4			59.7	22.3	83	0	REV® 27BHR79™	186.3			61.1	22.2	85	2
CHANNEL 216-36VT2PRIB	218.0	218.8		60.1	20.7	82	0	Average	214.8	222.1	217.7	59.8	21.8	82	0
FS InVISION FS 66ZV1 RIB	216.5	220.7	215.0	59.5	20.8	82	0	C.V.	8.8	9.8	9.8	2.4	3.2	8	800
Seed Consultants SC-S1168YHR™	215.9	223.5		59.3	20.5	85	0	LSD	16.2	29.0	23.4	1.2	0.6	6	0
Pioneer P2089AML	215.7			57.8	22.6	79	0	Late varieties: 116 or more days to maturity Shaded cells are not significantly different from top yield (0.10)							
Stewart 18DP799	215.6			61.5	22.1	82	0								
Stewart 17DP387	215.0	217.9	214.5	59.9	22.2	83	0								

Table 2W. State summary, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18				
Pioneer 32B16	209.6	206.3	201.0	59.3	21.5	83	0
Pioneer P1620WAM	206.5	208.3		61.8	20.7	85	0
Pioneer P1306WHR	202.0	210.4	207.7	61.0	19.3	84	0
Pioneer P1309WAM	199.8			61.4	19.4	86	0
Pioneer P1618WAM	198.5	202.2		61.3	19.9	86	0
Average	203.3	206.8	204.3	61.0	20.2	85	0
C.V.	5.2	7.9	8.5	1.0	2.4	7	488
LSD	8.4	22.0	19.2	0.5	0.4	5	0

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

Table 2M. State summary, medium, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
AgriGold A6544VT2RIB	238.9	238.7	227.4	59.0	19.9	86	0	Wyffels W7976RIB	216.9			57.9	18.9	82	0
Channel 215-60TRE	236.5			58.0	20.2	88	0	Warren Seed DS 9412SSX	216.6			57.8	19.8	86	0
Dyna-Gro D54VC14	234.1			60.4	20.2	82	0	REV® 25BHR89™	216.3			58.9	20.7	81	0
Wyffels W7696RIB	232.8	226.9	211.9	58.0	20.2	85	0	FS InVISION FS 62TV1DG RIB	215.8			58.8	19.8	85	0
Dyna-Gro D52VC15	231.2			59.4	19.7	86	0	Seed Consultants SCS 1125YHR™	215.7	219.6		58.6	19.5	84	0
Stewart 15DP519	230.2			59.1	20.8	83	0	AgriGold A642-59VT2RIB	215.4			59.1	19.2	85	0
LG Seeds LG64C30TRC	229.8			59.4	20.5	85	0	Pioneer P1442AM	215.0	216.8		60.2	20.4	86	0
DEKALB DKC63-57RIB	229.5			58.7	19.8	84	0	Seed Consultants SCS 1136YHR™	213.3	220.8	211.0	60.5	20.7	86	0
Augusta 4465	229.4			58.6	20.0	78	0	Progeny Ag PGY7115VT2P	213.1			59.9	20.1	83	0
Augusta 4463	228.1			59.0	19.4	83	0	LG Seeds LG5650VT2RIB	213.1	219.1	214.4	60.9	20.4	86	0
Stewart 14DD339	227.4			58.9	19.9	85	0	Pioneer P1316AM	212.9	216.9	212.0	58.8	19.7	86	0
Stewart 8E623RIB	227.2	226.8		58.2	19.9	87	0	Warren Seed DS 9913SSX	212.7	223.1	211.9	58.4	19.9	87	0
Hoegemeyer HPT 8414 AM	227.1	230.6		58.0	20.0	83	0	Armor X8113	212.5			59.0	20.1	79	0
DEKALB DKC64-35RIB	226.9	224.8	216.8	60.5	20.0	82	0	Seed Consultants SC-S1158YHR™	212.3	219.6		58.8	20.6	85	0
NK Seeds NK1433	226.7	222.1	213.2	56.8	19.6	85	0	LG Seeds LG62C02VT2RIB	212.0			59.4	19.1	86	0
Pfister 75Y1PCR	226.2			56.1	20.7	86	0	Mission Seed Mex1308VT2P	211.9			59.3	20.6	81	0
Stewart 12DP209	226.0			58.2	19.1	83	0	REV® 25BHR26™	211.0	218.5	210.3	60.6	20.3	85	0
LG Seeds LG5663VT2RIB	226.0	226.9	214.3	59.5	20.5	87	0	Pioneer P1464AML	210.9			59.7	20.6	88	0
FS InVISION FS 64SV1 RIB	225.4			57.5	20.1	87	0	Caverdale CF 824 3120 E-Z Refuge	210.4	219.0		56.8	18.5	85	0
Dyna-Gro D55VC45	224.7	228.9		59.4	20.4	85	0	Pfister 74D2PC	209.4			58.3	20.2	87	0
Mission Seed Mex-1548DGV2P	224.3			58.4	20.9	84	0	Warren Seed DS 7414	208.8			57.1	20.7	87	0
Channel 213-19VT2PRIB	224.1			59.8	20.7	86	0	Augusta 5464	208.0			58.3	20.6	82	0
AgriGold A645-10VT2RIB	222.9	221.1		59.3	20.7	84	0	Channel 212-20VT2PRIB	207.2			60.0	20.0	82	0
DEKALB DKC62-53RIB	222.5			58.5	19.3	85	0	Armor 1227P	205.1	216.0		59.1	19.0	81	0
DEKALB DKC65-95RIB	222.4			62.0	20.8	84	0	AgriGold A6572VT2RIB	203.8	213.2	208.8	60.9	20.4	85	0
Warren Seed DS 7513	221.9	219.2		57.0	20.1	87	0	FS InVISION FS 63ZV1 RIB	203.1			61.0	20.1	80	0
Progeny Ag PGY9114VT2P	221.7			60.3	20.1	85	0	Augusta 5065	200.6			60.8	21.3	80	0
Wyffels W7456RIB	221.6			59.3	20.7	77	0	Warren Seed DS 7915PE	200.0			57.9	20.3	88	0
Brodbeck 49RA12	221.6			56.8	20.5	85	0	Hoegemeyer HPT 8572 AM	198.2	217.7		59.0	20.7	81	0
LG Seeds LG5643VT2RIB	221.0	230.2	221.4	60.9	19.4	88	0	Caverdale CF853 VIP 3110	161.9			57.2	25.3	85	1
REV® 23BHR55™	220.7	213.6	211.4	58.7	19.2	85	0	Average	217.8	222.5	214.7	58.9	20.2	84	0
AgriGold A6499STXRIB	219.9	224.2	220.7	59.7	20.8	84	0	C.V.	8.9	10.5	10.5	2.4	4.9	7	790
FS InVISION FS 62ZX1 RIB	219.7			59.7	19.8	88	0	LSD	16.5	31.1	25.0	1.2	0.8	5	0
Hoegemeyer HPT 8294 AM	218.9	222.5	217.0	58.7	19.3	87	0	Medium varieties: 112-115 days to maturity Shaded cells are not significantly different from top yield (0.10)							
Armor 1447P	218.1	234.0		60.5	20.1	85	0								
REV® 24BHR99™	218.0			58.7	20.3	85	0								
Brodbeck 49RA14	217.8			55.3	21.0	83	0								
Progeny Ag PGY4114VT2P	217.2	220.1	213.2	60.3	18.9	82	0								
Warren Seed DS 7215	217.1			55.6	20.0	85	0								

Table 2C. State summary, conventional, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	2017-18							2018	2017-18					
Pioneer P1197	227.6			58.2	18.0	84	0	Pfister 2874CONV	208.8	200.4		57.2	19.1	83	0
FS InVISION FS 66Z00	219.9			59.9	20.3	79	0	Caverdale CF 855	207.1			61.5	21.1	78	0
DEKALB DKC64-32	219.3			59.8	20.4	77	0	Pfister 61H1	203.5			58.6	17.5	80	0
DEKALB DKC64-85	216.0	207.1		59.8	19.1	81	0	Pfister 68A1	202.9			58.3	17.3	81	0
Caverdale CF 790	215.5	204.4		60.2	19.9	80	0	DEKALB DKC61-52	201.0	201.2		60.8	18.3	82	0
FS InVISION FS 62B00	214.2	211.8		57.9	19.2	79	0	Caverdale CF 870	161.8			58.3	26.3	84	1
REV® 25C26™	213.8			59.7	19.3	80	0	Average	208.9	204.3	59.2	19.6	81	0	
REV® 23C55™	213.6			58.3	18.6	80	0	C.V.	9.1	10.4	1.4	3.8	9	424	
FS InVISION FS 63Z00	212.8	201.1		61.6	20.3	78	0	LSD	14.9	28.9	0.6	0.6	5	0	
Hoegemeyer HPT 8292	211.5			58.6	18.5	81	0	Shaded cells are not significantly different from top yield (0.10)							

Table 3E. Fayette County, early, 2018 (Disease Ratings).

Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)
AgriGold A639-40VT2PRO	5.9	1.9	DEKALB DKC58-35RIB	3.6	3.1	Pioneer P1197AM	3.9	2.2
AgriGold A641-06VT2PRO	1.2	14.4	DEKALB DKC60-88RIB	4.0	1.1	Progeny Ag PGY7111VT2P	4.3	0.7
AgriGold A641-78STXRIB	4.3	0.2	DEKALB DKC61-98RIB	3.0	2.9	Seed Consultants SCS 1087YHR™	1.6	22.0
Armor 0887	4.7	0.0	FS InVISION FS 60UX1 RIB	1.4	0.7	Seed Consultants SCS 1105YHR™	0.7	14.4
Armor X8111	0.7	4.4	Hoegemeyer HPT 8091 AM	3.0	16.2	Seed Consultants SCS 1139YHR™	1.2	6.1
Augusta 4858	1.2	4.4	LG Seeds LG5590VT2RIB	4.5	0.7	Stewart 10DP099	4.1	2.9
Augusta 4860	1.3	7.8	NK Seeds NK1066	3.4	4.5	Stewart 11DP718	2.5	0.9
Brodbeck 48RA09	2.8	0.4	Pfister 68A1PE	3.0	0.0	LSD 0.10	3.1	10.5
Caverndale CF 753GTCBLL	1.2	5.1	Pfister 71CPCRA	12.0	0.0	CV	67.9	162.7
Channel 209-15VT2PRIB	2.3	2.0	Pioneer P1138AM	4.4	1.9			

Table 3L. Fayette County, late, 2018 (Disease Ratings).

Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)
AgriGold A646-12STX	13.9	1.4	Dyna-Gro CX17117	7.5	0.3	Progeny Ag PGY8116SS	6.0	0.0
AgriGold A647-90VT2PRO	6.3	0.6	Dyna-Gro D56VC46	6.8	8.1	REV® 27BHR79™	3.0	4.0
AgriGold A6659VT2RIB	4.6	5.5	Dyna-Gro D58VC65	6.9	1.7	REV® 28BHR18™	4.5	0.7
Armor 1667S	6.8	2.8	FS InVISION FS 66ZV1 RIB	4.7	5.2	Seed Consultants SCS1168YHR™	4.6	5.9
Armor X8117	6.1	13.9	FS InVISION FS 67SV1 RIB	3.2	2.8	Stewart 16DP117	5.5	3.9
Caverndale CF 888 3000GT	4.1	2.1	Mission Seed A1857SS	5.6	3.3	Stewart 17DP387	2.7	3.7
CHANNEL 216-36VT2PRIB	4.3	0.0	Pioneer P1637AM	3.9	8.1	Stewart 18DP799	3.7	14.4
CHANNEL 218-44VT2PRIB	7.9	0.9	Pioneer P1847AML	6.8	0.6	Wyffels W8646	6.4	4.6
DEKALB DKC66-75	4.4	0.6	Pioneer P1870AM	10.0	3.3	LSD 0.10	4.4	5.8
DEKALB DKC67-44	4.1	6.9	Pioneer P2089AML	4.9	0.6	CV	58.2	104.6
DEKALB DKC70-27RIB	3.0	4.6	Progeny Ag PGY6116VT2P	2.8	10.9			

Table 3W. Fayette County, white, 2018 (Disease Ratings).

Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)
Pioneer 32B16	1.7	12.8
Pioneer P1306WHR	1.0	5.3
Pioneer P1309WAM	1.5	3.5
Pioneer P1618WAM	1.0	0.3
Pioneer P1620WAM	1.0	3.5
LSD 0.10	0.5	NS
C.V.	25.0	136.7

Table 3M. Fayette County, medium, 2018 (Disease Ratings).

Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)
AgriGold A642-59VT2RIB	4.8	1.1	Dyna-Gro D52VC15	1.4	9.8	Progeny Ag PGY7115VT2P	11.5	2.5
AgriGold A645-10VT2RIB	3.8	4.5	Dyna-Gro D54VC14	2.3	7.0	Progeny Ag PGY4114VT2P	3.6	1.1
AgriGold A6499STXRIB	3.0	1.5	Dyna-Gro D55VC45	7.5	0.6	REV® 24BHR99™	1.1	6.5
AgriGold A6544VT2RIB	2.3	2.8	FS InVISION FS 62TV1DG RIB	8.2	3.3	REV® 25BHR89™	3.9	2.3
AgriGold A6572VT2RIB	2.1	0.0	FS InVISION FS 62ZX1 RIB	3.2	0.0	REV® 23BHR55™	8.3	0.0
Armor 1227P	7.1	0.0	FS InVISION FS 63ZV1 RIB	3.0	1.5	REV® 25BHR26™	5.2	0.6
Armor 1447P	2.4	12.2	FS InVISION FS 64SV1 RIB	7.0	3.3	Seed Consultants SCS 1125YHR™	6.3	2.8
Armor X8113	6.7	1.1	Hoegemeyer HPT 8294 AM	8.2	2.0	Seed Consultants SCS 1136YHR™	8.1	0.6
Augusta 4463	1.4	1.8	Hoegemeyer HPT 8414 AM	4.1	2.2	Seed Consultants SCS1158YHR™	1.5	3.3
Augusta 4465	1.7	0.0	Hoegemeyer HPT 8572 AM	1.7	9.2	Stewart 12DP209	3.2	0.6
Augusta 5065	3.0	0.3	LG Seeds LG5643VT2RIB	2.8	0.9	Stewart 14DP339	1.9	1.1
Augusta 5464	5.5	9.6	LG Seeds LG5650VT2RIB	2.1	0.6	Stewart 15DP519	5.8	0.0
Brodbeck 49RA12	8.8	1.1	LG Seeds LG5663VT2RIB	3.2	3.1	Stewart 8E623RIB	6.1	2.2
Brodbeck 49RA14	5.0	1.1	LG Seeds LG62C02VT2RIB	1.9	5.3	Warren Seed DS 7215	4.6	0.0
Caverndale CF 824 3120 E-Z Refuge	6.3	8.3	LG Seeds LG64C30TRC	1.4	0.3	Warren Seed DS 7414	8.7	0.0
Caverndale CF853 VIP 3110	1.0	0.6	Mission Seed Mex1308VT2P	7.2	0.0	Warren Seed DS 7513	16.1	0.9
Channel 212-20VT2PRIB	5.6	0.0	Mission Seed Mex1548DGVT2P	1.5	0.0	Warren Seed DS 7915PE	6.5	5.5
Channel 213-19VT2PRIB	5.1	1.7	NK Seeds NK1433	3.3	2.2	Warren Seed DS 9412SSX	1.7	0.0
Channel 215-60TRE	3.0	0.0	Pfister 74D2PC	11.4	0.0	Warren Seed DS 9913SSX	3.1	0.0
DEKALB DKC62-53RIB	1.4	4.0	Pfister 75Y1PCR	4.1	0.6	Wyffels W7456RIB	4.1	0.0
DEKALB DKC63-57RIB	1.0	2.2	Pioneer P1316AM	5.0	1.1	Wyffels W7696RIB	6.3	2.0
DEKALB DKC64-35RIB	2.4	5.6	Pioneer P1442AM	3.0	1.7	Wyffels W7976RIB	6.2	0.9
DEKALB DKC65-95RIB	3.6	1.7	Pioneer P1464AML	3.0	3.4	LSD 0.10	3.7	4.0
			Progeny Ag PGY9114VT2P	2.7	6.4	CV	60.3	132.0

Table 3C. Fayette County, conventional, 2018 (Disease Ratings).

Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)	Name	Mean gray leaf spot severity (%)	Mean northern leaf blight severity (%)
Caverndale CF 790	.	.	FS InVISION FS 62B00	1.4	2.2	Pfister 68A1	1.0	0.0
Caverndale CF 855	1.9	0.6	FS InVISION FS 63Z00	1.7	3.8	Pioneer P1197	3.9	2.2
Caverndale CF 870	1.0	0.0	FS InVISION FS 66Z00	2.8	0.9	REV® 23C55™	2.1	5.6
DEKALB DKC61-52	3.0	1.1	Hoegemeyer HPT 8292	1.7	4.5	REV® 25C26™	1.9	7.0
DEKALB DKC64-32	1.9	0.6	Pfister 2874CONV	5.3	1.2	LSD 0.10	NS	NS
DEKALB DKC64-85	2.6	0.6	Pfister 61H1	1.7	0.5	CV	62.9	127.8

Table 4W. Caldwell County, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
Pioneer P1306WHR	210.7	202.8	201.3	60.8	19.5	81	0
Pioneer 32B16	203.9	186.4	178.2	59.8	20.2	74	0
Pioneer P1620WAM	202.2	187.4		62.7	20.8	76	1
Pioneer P1618WAM	199.4	195.1		62.6	20.4	76	0
Pioneer P1309WAM	198.0			61.0	19.9	78	0
Average	202.9	192.9	189.7	61.4	20.2	77	0
C.V.	8.3	8.8	8.5	1.3	3.9	12	256
LSD	46.0	26.6	19.4	1.9	1.8	21	2

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

Planted: April 13, 2018; Harvested: September 11, 2018

Soil type: Crider Silt Loam; Previous crop: Soybean; Fertilizer 182/0/0

Table 4C. Caldwell County, conventional, 2018.

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	2017-18				
FS InVISION FS 62B00	221.9	184.9	57.3	17.7	81	0
DEKALB DKC64-32	214.3		58.3	19.8	71	0
Caverndale CF 855	210.2		61.8	21.2	73	0
REV® 23C55™	203.1		56.5	17.4	75	0
Pioneer P1197	201.5		56.6	16.9	77	0
Pfister 2874CONV	200.4	187.4	57.2	18.6	81	0
FS InVISION FS 63Z00	194.7	172.4	62.1	20.9	69	0
REV® 25C26™	192.7		58.5	18.6	66	0
DEKALB DKC64-85	190.8	187.7	59.9	19.0	78	0
Hoegemeyer HPT 8292	190.4		59.1	18.0	70	0
Pfister 61H1	187.5		58.4	17.9	74	0
DEKALB DKC61-52	186.8	187.0	61.1	19.4	74	0
Pfister 68A1	185.7		58.1	17.5	77	0
FS InVISION FS 66Z00	185.3		59.7	19.7	75	0
Caverndale CF 790	180.5	181.2	58.6	18.8	67	0
Caverndale CF 870	145.3		60.1	25.1	79	0
Average	194.0	183.9	59.0	19.2	75	0
C.V.	7.1	10.8	2.3	4.5	10	0
LSD	28.9	28.5	2.7	1.7	15	0

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

Planted: April 13, 2018; Harvested: September 11, 2018

Soil type: Crider Silt Loam; Previous crop: Soybean; Fertilizer 182/0/0

Table 5. Caldwell County weather, 2018

	Monthly Precipitation	Temperature Average
March	3.51	46
April	4.86	50.9
May	4.69	73.2
June	7.79	77.5
July	2.84	77.8
August	2.41	76.6
September	5.61	74.8

Table 6E. Daviess County, early, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18						2018	17-18	16-18				
Armor X8111	255.6			58.9	20.3	90	0	AgriGold A641-06VT2PRO	225.3			58.7	19.7	87	0
Stewart 10DP099	250.1			59.2	20.1	87	0	Pfister 71CPCRA	223.1	235.2		54.9	21.7	97	0
AgriGold A639-40VT2RIB	243.4	251.6		58.4	19.4	93	3	Augusta 4860	220.6			58.1	20.2	95	0
Channel 209-15VT2PRIB	241.1			57.4	19.8	92	7	Pioneer P1138AM	220.1			60.2	20.3	91	0
NK Seeds NK1066	239.5	240.0	223.4	58.5	19.7	100	0	Seed Consultants SCS 1105YHR™	219.6	242.0	225.7	59.2	18.6	93	0
Progeny Ag PGY7111VT2P	233.9	246.8		58.1	18.8	93	0	Pfister 68A1PE	212.5			57.5	20.0	91	0
LG Seeds LG5590VT2RIB	233.4			58.2	19.2	94	0	Armor 0887	205.9			58.8	18.3	84	0
Stewart 11DP718	232.8	249.9		57.7	21.7	90	0	DEKALB DKC58-35RIB	202.1			60.1	18.9	93	0
Brodbeck 48RA09	232.2			57.9	19.2	88	0	Augusta 4858	198.1			58.3	19.3	91	0
Seed Consultants SCS 1139YHR™	231.1			60.4	21.3	99	0	Pioneer P1197AM	193.0	220.5	211.4	57.7	19.5	92	0
AgriGold A641-78STXRIB	230.7			59.8	20.7	96	0	Hoegemeyer HPT 8091 AM	188.3	230.6		58.3	18.5	91	0
DEKALB DKC61-98RIB	230.6			59.6	20.9	89	0	Average	223.3	237.1	220.2	58.7	19.8	93	0
Seed Consultants SCS 1087YHR™	230.2			59.1	19.2	96	0	C.V.	10.9	9.6	9.5	1.2	3.1	5	473
FS InVISION FS 60UX1 RIB	229.7			59.8	21.4	94	0	LSD	47.8	30.1	23.9	1.4	1.2	10	4
Caverndale CF 753GTCBLL	228.4			58.7	19.9	95	0	Early varieties: 111 or less days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 1, 2018; Harvested: September 12, 2018 Soil type: Newark Silt Loam; Previous crop: Soybean; Fertilizer: 216/92/120							
DEKALB DKC60-88RIB	226.1	246.3		59.5	19.3	97	0								

Table 6L. Daviess County, late, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18						2018	17-18	16-18				
DEKALB DKC70-27RIB	258.6	247.9		58.7	23.2	91	0	CHANNEL 218-44VT2PRIB	211.4	231.9	214.8	59.4	23.6	93	0
Pioneer P1847AML	256.9			58.4	23.8	94	0	Seed Consultants SC-S1168YHR™	211.1	232.6		58.8	21.8	93	4
AgriGold A6659VT2RIB	254.5	256.4	233.8	59.3	22.6	92	0	Armor 1667S	207.8			60.4	23.4	89	0
Progeny Ag PGY6116VT2P	248.5	238.3	215.0	56.2	23.3	91	0	Pioneer P1637AM	206.2	221.9	209.6	60.0	23.0	91	0
Wyffels W8646	248.4	251.9		58.0	22.0	94	0	Stewart 18DP799	205.4			60.8	23.8	94	0
Dyna-Gro D58VC65	244.7	259.3		59.8	22.0	96	0	DEKALB DKC67-44	199.3	227.8	225.3	59.4	22.0	97	0
CHANNEL 216-36VT2PRIB	243.9	238.4		60.5	22.3	95	0	Mission Seed A1857SS	194.5			60.0	23.6	90	0
Dyna-Gro D56VC46	243.6		215.1	57.7	22.1	95	0	Stewart 17DP387	194.3	234.9	214.4	58.8	23.6	97	0
Armor X8117	242.8			61.2	23.2	98	0	Progeny Ag PGY8116SS	187.9			60.2	23.4	94	0
Caverndale CF 888 3000GT	242.1	244.4		56.2	24.6	95	0	REV® 27BHR79™	161.3			60.1	23.7	92	11
AgriGold A646-12STXRIB	236.3			59.8	22.3	89	0	Dyna-Gro CX17117	159.9			59.9	24.0	94	0
Stewart 16DP117	234.0		205.3	58.3	24.0	84	0	Average	221.9	236.6	215.5	59.1	23.2	93	0
FS InVISION FS 67SV1 RIB	232.9			59.8	23.7	93	0	C.V.	12.9	11.9	11.1	1.7	2.6	6	406
Pioneer P1870AM	231.1			58.6	24.2	96	0	LSD	56.5	37.3	27.3	2.0	1.2	11	4
FS InVISION FS 66ZV1 RIB	224.5	232.5	217.7	58.3	22.1	96	0	Late varieties: 116 or more days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 1, 2018; Harvested: September 12, 2018 Soil type: Newark Silt Loam; Previous crop: Soybean; Fertilizer: 216/92/120							
REV® 28BHR18™	224.4	221.5		58.7	24.2	93	0								
Pioneer P2089AML	223.7			57.0	23.6	95	0								
DEKALB DKC66-75	214.6	212.3	204.1	58.7	22.0	96	0								
AgriGold A647-90VT2RIB	212.9	234.4		59.5	23.5	94	0								

Table 6M. Daviess County, medium, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18						2018	17-18	16-18				
Dyna-Gro D52VC15	263.6			58.6	20.9	95	0	Warren Seed DS 9412SSX	221.3	238.4	218.2	57.5	21.4	98	0
Wyffels W7696RIB	260.0	259.5	237.2	57.9	20.9	92	0	AgriGold A6544VT2RIB	220.6	239.6	223.4	58.2	20.6	97	0
Progeny Ag PGY4114VT2P	257.5	254.9	233.2	60.1	21.0	97	0	Stewart 12DP209	220.4			58.3	20.5	89	0
Warren Seed DS 7513	255.0	247.8		55.2	22.8	96	0	Armor 1447P	220.3	250.4		59.8	21.5	96	0
Mission Seed Mex-1548DGV2P	254.9			57.7	21.3	98	0	Pfister 74D2PC	219.2			56.6	22.0	94	0
FS InVISION FS 62TV1DG RIB	252.3			57.3	21.4	96	0	Progeny Ag PGY7115VT2P	218.7			59.7	22.4	91	0
Brodbeck 49RA12	251.7			55.5	21.7	99	0	LG Seeds LG5650VT2RIB	217.9	241.2	220.0	60.3	22.5	94	0
FS InVISION FS 645V1 RIB	251.0			56.9	21.4	98	0	Pfister 75Y1PCR	215.5			55.9	21.2	99	0
Brodbeck 49RA14	249.0			54.2	22.5	96	0	Channel 213-19VT2PRIB	213.4			59.5	21.8	91	0
NK Seeds NK1433	245.7	257.1	236.8	55.7	20.1	95	0	Stewart 14DD339	212.8			58.3	21.4	90	0
DEKALB DKC63-57RIB	245.0			58.6	21.3	90	0	LG Seeds LG62C02VT2RIB	212.2			58.5	20.4	98	0
DEKALB DKC62-53RIB	241.1			57.5	20.1	93	0	Caverndale CF 824 3120 E-Z Refuge	211.8	230.8		55.6	18.5	93	0
DEKALB DKC64-35RIB	239.7	263.5	240.7	60.5	21.3	92	0	Channel 212-20VT2PRIB	209.3			59.8	21.5	88	0
LG Seeds LG64C30TRC	239.3			59.1	21.2	94	0	AgriGold A642-59VT2RIB	208.1			59.0	20.1	91	0
Mission Seed Mex-1308VT2P	236.2			59.2	22.3	85	0	Wyffels W7976RIB	206.3			56.9	20.5	92	0
Augusta 4463	235.2			58.5	20.5	90	0	Stewart 15DP519	206.0			58.8	22.1	90	0
Hoegemeyer HPT 8294 AM	235.0	251.3	230.6	58.2	20.9	97	0	Augusta 5065	205.8			60.3	23.0	91	0
Augusta 4465	233.4			58.1	20.7	91	0	REV® 25BHR26™	203.0	235.9	224.9	59.5	22.1	99	0
Augusta 5464	232.3			57.9	21.8	95	0	FS InVISION FS 63ZV1 RIB	202.2			60.7	21.1	90	1
Dyna-Gro D54VC14	231.5			59.6	21.9	90	0	AgriGold A6499STXRIB	199.8	233.2	216.0	59.2	21.6	94	0
Warren Seed DS 9913SSX	230.7	249.6	226.3	57.4	21.4	95	0	REV® 25BHR89™	193.8			56.9	21.1	96	0
DEKALB DKC65-95RIB	230.6			59.9	23.3	96	0	Pioneer P1316AM	190.7	232.4	218.5	57.8	20.0	88	0
Armor X8113	230.5			58.6	22.2	90	0	Warren Seed DS 7215	189.9			53.6	22.2	96	2
AgriGold A645-10VT2RIB	229.9	250.1		58.0	22.0	92	0	AgriGold A6572VT2RIB	188.0	231.5	215.8	59.8	22.3	94	0
Hoegemeyer HPT 8414 AM	229.6	252.0		58.0	21.1	92	0	Armor 1227P	187.3	222.5		58.5	19.5	91	0
Channel 215-60TRE	229.0			57.7	20.7	96	0	Seed Consultants SC-S1158YHR™	187.1	224.8		57.2	21.3	94	0
Seed Consultants SCS 1125YHR™	227.9	242.1		58.2	20.9	95	0	Progeny Ag PGY9114VT2P	186.2			58.9	21.2	92	0
REV® 23BHR55™	227.4	249.5	235.0	58.4	21.2	96	0	Warren Seed DS 7414	183.1			56.2	22.2	96	0
Dyna-Gro D55VC45	226.9	255.3		59.4	22.1	94	0	Hoegemeyer HPT 8572 AM	181.9	223.6		57.8	21.4	95	0
REV® 24BHR99™	225.8			56.4	21.7	87	0	Warren Seed DS 7915PE	177.2			56.1	22.3	99	0
Pioneer P1442AM	224.7	229.2		59.6	22.1	94	0	LG Seeds LG5643VT2RIB	170.2	209.1	208.5	67.1	20.8	94	0
LG Seeds LG5663VT2RIB	224.1	250.6	222.8	58.5	22.1	90	0	Caverndale CF853 VIP 3110	160.4			57.3	25.7	94	2
Stewart 8E623RIB	222.3	248.4		57.0	22.1	96	0	Average	220.0	242.2	225.8	58.2	21.5	93	0
Pioneer P1464AML	222.0			58.7	22.9	98	0	C.V.	13.6	11.0	10.1	4.0	3.5	8	635
Seed Consultants SCS 1136YHR™	222.0	248.7	230.2	59.7	22.2	96	0	LSD	57.6	34.5	25.3	4.5	1.5	14	1
FS InVISION FS 62ZX1 RIB	221.9			59.5	21.8	90	0	Medium varieties: 112-115 days to maturity							
Wyffels W7456RIB	221.3			58.4	21.9	67	0	Shaded cells are not significantly different from top yield (0.10)							
								Planted: May 1, 2018; Harvested: September 12, 2018							
								Soil type: Newark Silt Loam; Previous crop: Soybean; Fertilizer: 216/92/120							

Table 6W. Daviess County, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
Pioneer 32B16	195.1	226.1	209.5	59.0	22.6	94	0
Pioneer P1309WAM	174.6			60.0	20.2	96	0
Pioneer P1306WHR	173.7	214.5	208.5	60.0	19.6	98	0
Pioneer P1618WAM	162.7	204.1		59.9	20.3	99	0
Pioneer P1620WAM	157.5	201.1		60.5	22.2	99	0
Average	172.7	211.5	209.0	59.9	21.0	97	0
C.V.	7.8	7.0	6.3	1.6	2.3	5	387
LSD	34.7	21.8	15.1	2.4	1.1	12	1

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

Planted: May 1, 2018; Harvested: September 12, 2018

Soil type: Newark Silt Loam; Previous crop: Soybean; Fertilizer: 216/92/120

Table 6C. Daviess County, conventional, 2018.

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	2017-18				
REV® 23C55™	269.1		58.2	20.3	96	0
Pioneer P1197	260.2		58.5	19.5	91	0
DEKALB DKC64-85	250.2	213.6	59.8	20.3	96	0
FS InVISION FS 66Z00	245.7		59.4	22.2	81	0
Caverndale CF 790	245.7	204.0	60.4	22.5	98	0
Pfister 61H1	239.9		57.8	18.8	93	2
REV® 25C26™	238.9		59.6	20.8	94	0
FS InVISION FS 63Z00	234.6	221.1	61.0	22.0	88	0
Pfister 68A1	233.0		58.0	18.3	100	0
Hoegemeyer HPT 8292	231.9		57.6	20.0	93	0
Pfister 2874CONV	230.6	206.0	56.0	20.7	96	0
FS InVISION FS 62B00	223.7	223.4	57.0	20.6	93	0
Caverndale CF 855	220.3		60.7	21.9	95	0
DEKALB DKC64-32	213.9		59.8	21.6	94	0
DEKALB DKC61-52	209.8	207.7	61.1	18.8	100	0
Caverndale CF 870	142.3		57.5	27.3	96	0
Average	229.6	214.4	58.8	20.9	94	0
C.V.	10.2	12.6	1.2	2.6	6	382
LSD	48.1	39.0	1.5	1.1	12	1

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

Planted: May 1, 2018; Harvested: September 12, 2018

Soil type: Newark Silt Loam; Previous crop: Soybean; Fertilizer: 216/92/120

Table 7. Daviess County weather, 2018.

	Monthly Precipitation	Irrigation	Temperature Average
March	3.82	0	43.8
April	3.56	0	50
May	9.21	0	73.4
June	6.83	0	77.2
July	3.99	2	75.9
August	1.35	1.5	75.3
September	7.26	0	74.3

Table 8E. Fayette County, early, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
Channel 209-15VT2PRIB	242.8			58.7	17.2	86	0	FS InVISION FS 60UX1 RIB	209.8			59.6	18.1	83	0
Pfister 68A1PE	237.9			57.9	17.3	87	0	Seed Consultants SCS 1087YHR™	209.4			58.4	15.2	85	0
Hoegemeyer HPT 8091 AM	233.5	247.4		59.0	16.5	86	0	Seed Consultants SCS 1105YHR™	208.9	219.7	214.5	58.7	15.7	90	0
Stewart 10DP099	232.4			59.2	16.9	87	0	Pfister 71CPCRA	208.5	225.4		57.1	18.2	76	0
DEKALB DKC61-98RIB	231.6			58.2	17.9	85	0	AgriGold A641-78STXRIB	208.1			59.8	17.6	87	0
AgriGold A639-40VT2RIB	230.8	234.7		59.1	16.1	86	0	DEKALB DKC58-35RIB	207.7			59.7	16.8	86	0
Armor 0887	226.6			58.4	15.6	93	0	Brodbeck 48RA09	206.9			58.7	16.9	87	0
LG Seeds LG5590VT2RIB	219.2			58.4	17.1	84	0	Augusta 4860	203.5			57.8	16.8	85	0
Seed Consultants SCS 1139YHR™	219.0			60.6	18.5	83	0	Pioneer P1138AM	199.6			59.5	17.4	87	0
Armor X8111	218.6			59.0	18.0	86	0	Augusta 4858	196.1			58.9	16.3	77	0
AgriGold A641-06VT2PRO	218.1			58.9	16.9	85	0	Average	214.7	224.1	216.3	58.7	17.0	85	0
Progeny Ag PGY7111VT2P	217.8	226.6		57.0	17.0	84	0	C.V.	8.2	7.2	7.0	1.2	4.8	7	410
NK Seeds NK1066	216.6	218.2	211.9	58.3	17.8	85	0	LSD	34.5	21.6	16.9	1.4	1.6	12	1
Pioneer P1197AM	216.1	226.3	222.5	58.0	17.0	83	0	Early varieties: 111 or less days to maturity							
Caverndale CF 753GTCBLL	213.5			59.1	16.9	85	0	Shaded cells are not significantly different from top yield (0.10)							
Stewart 11DP718	211.8	223.9		57.0	19.2	83	0	Planted: April 21, 2018; Harvested: September 20, 2018							
DEKALB DKC60-88RIB	210.8	226.3		58.7	16.4	77	0	Soil type: Lanton Silty Clay Loam; Previous crop: Soybean; Fertilizer 182/0/0							

Table 8L. Fayette County, late, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
DEKALB DKC67-44	233.1	239.5	223.4	59.9	18.8	83	0	FS InVISION FS 66ZV1 RIB	183.0	216.7	206.9	59.6	19.3	73	0
Stewart 17DP387	219.4	228.0	215.9	60.5	20.5	84	0	REV® 28BHR18™	182.9	199.1		59.3	20.6	81	0
DEKALB DKC66-75	216.7	222.9	209.6	58.8	19.7	83	0	Caverndale CF 888 3000GT	181.4	206.4		57.2	22.5	75	0
Stewart 18DP799	211.7			61.5	19.0	81	0	Seed Consultants SCS1168YHR™	181.2	213.4		58.2	18.5	87	0
Dyna-Gro D56VC46	204.1		193.1	58.0	20.3	87	0	Mission Seed A1857SS	174.0			60.3	19.4	82	0
Progeny Ag PGY6116VT2P	199.1	216.6	205.6	56.6	21.5	86	0	Armor X8117	171.8			61.0	19.0	75	0
FS InVISION FS 67SV1 RIB	196.3			59.6	20.3	83	0	Pioneer P2089AML	171.7			56.6	21.1	78	0
Progeny Ag PGY8116SS	194.7			59.9	20.4	78	0	Wyffels W8646	170.7	202.0		59.2	19.2	80	0
Dyna-Gro D58VC65	194.4	213.9		59.8	19.5	90	0	AgriGold A646-12STXRIB	170.6			60.4	19.2	72	0
CHANNEL 216-36VT2PRIB	194.3	215.0		59.7	18.1	78	0	CHANNEL 218-44VT2PRIB	167.3	203.1	195.3	59.5	19.4	67	0
Stewart 16DP117	192.6		188.8	58.4	20.8	66	0	Pioneer P1637AM	164.4	194.4	192.6	59.4	20.0	85	0
AgriGold A6659VT2RIB	191.1	199.7	191.1	58.9	19.6	87	0	REV® 27BHR79™	158.1			61.3	19.9	83	0
Pioneer P1870AM	189.8			59.5	20.7	81	0	Average	188.1	212.4	202.2	59.4	20.0	80	0
Armor 1667S	188.2			60.5	19.8	86	0	C.V.	11.6	9.6	9.6	0.9	3.1	10	676
Pioneer P1847AML	187.6			58.9	21.3	84	0	LSD	42.7	26.8	21.4	1.0	1.2	15	0
AgriGold A647-90VT2RIB	184.9	214.6		60.4	19.7	83	0	Late varieties: 116 or more days to maturity							
DEKALB DKC70-27RIB	184.5	213.5		58.0	21.1	81	0	Shaded cells are not significantly different from top yield (0.10)							
Dyna-Gro CX17117	183.4			60.8	19.4	77	0	Planted: April 21, 2018; Harvested: September 20, 2018							
								Soil type: Lanton Silty Clay Loam; Previous crop: Soybean; Fertilizer 182/0/0							

Table 8M. Fayette County, medium, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
AgriGold A6544VT2RIB	231.2	228.5	221.3	58.2	19.9	86	0	FS InVISION FS 63ZV1 RIB	201.7			61.1	17.3	87	0
Stewart 14DD339	220.4			58.0	17.3	83	0	Warren Seed DS 7414	201.6			56.5	19.4	87	0
Channel 213-19VT2PRIB	220.2			59.1	18.9	86	0	Hoegemeyer HPT 8294 AM	200.2	218.3	209.9	57.4	17.6	87	0
AgriGold A6499STXRIB	219.2	227.2	220.5	58.8	18.7	87	0	Wyffels W7696RIB	200.2	209.6	193.6	58.2	18.8	83	0
Pfister 75Y1PCR	218.6			55.0	20.0	87	0	AgriGold A645-10VT2RIB	198.2	213.5		58.5	19.1	86	0
Progeny Ag PGY9114VT2P	218.3			60.8	17.9	84	0	Seed Consultants SCS 1125YHR™	197.8	214.9		57.2	18.0	74	0
LG Seeds LG64C30TRC	218.0			59.7	18.6	85	0	LG Seeds LG5643VT2RIB	196.1	216.4	209.4	58.6	19.0	87	0
Seed Consultants SCS1158YHR™	217.4	228.5		58.6	18.7	85	0	Caverndale CF 824 3120 E-Z	195.6	213.6		56.2	17.6	83	0
Stewart 15DP519	217.3			58.3	19.3	77	0	Refuge							
DEKALB DKC64-35RIB	216.3	235.4	222.9	59.6	17.7	82	0	REV® 25BHR26™	194.8	213.2	200.1	59.5	19.1	85	0
Warren Seed DS 9913SSX	215.6	224.3	212.1	58.0	17.8	88	0	FS InVISION FS 62TV1DG RIB	193.4			59.2	18.1	88	0
REV® 24BHR99™	213.6			58.2	19.1	88	0	Progeny Ag PGY4114VT2P	193.3	212.1	210.0	59.9	16.6	83	0
Channel 215-60TRE	213.0			56.8	18.4	90	0	Mission Seed Mex1308VT2P	192.3			59.0	18.4	74	0
Dyna-Gro D55VC45	212.0	219.6		58.6	18.5	87	0	Armor 1447P	192.2	227.1		60.9	17.5	82	0
Dyna-Gro D52VC15	211.6			59.5	17.5	85	0	AgriGold A6572VT2RIB	190.4	212.7	209.2	61.2	17.5	87	0
FS InVISION FS 62ZX1 RIB	211.5			58.9	17.6	95	0	DEKALB DKC62-53RIB	188.2			59.2	17.0	87	0
Augusta 4465	210.3			58.1	19.1	79	0	Channel 212-20VT2PRIB	188.1			60.2	17.5	80	0
LG Seeds LG5663VT2RIB	210.0	226.7	215.4	58.8	19.1	88	0	Armor 1227P	188.1	206.3		58.2	17.3	89	0
AgriGold A642-59VT2RIB	209.7			59.4	16.9	85	0	Augusta 5065	188.0			61.3	19.3	79	0
LG Seeds LG62C02VT2RIB	209.0			59.0	17.3	86	0	FS InVISION FS 64SV1 RIB	187.4			57.7	19.0	87	0
Dyna-Gro D54VC14	208.6			60.4	18.0	81	0	Stewart 8E623RIB	186.6	204.4		58.9	17.5	87	0
DEKALB DKC65-95RIB	208.1			60.9	18.2	83	0	Brodbeck 49RA14	185.5			54.2	19.5	81	0
Wyffels W7456RIB	207.6			59.1	19.7	81	0	Hoegemeyer HPT 8572 AM	185.5	214.5		58.5	18.9	76	0
Warren Seed DS 7513	207.1	218.6		56.9	18.5	86	0	LG Seeds LG5650VT2RIB	184.9	207.2	206.8	61.2	17.4	85	0
Augusta 4463	207.1			58.1	17.4	88	0	Armor X8113	184.2			58.3	18.3	80	0
Warren Seed DS 7915PE	207.0			57.7	18.1	87	0	Pfister 74D2PC	181.0			58.6	17.7	86	0
Stewart 12DP209	206.2			57.8	18.0	81	0	Augusta 5464	177.7			58.1	19.8	75	0
Brodbeck 49RA12	206.2			56.4	18.6	87	0	Progeny Ag PGY7115VT2P	175.0			60.0	17.3	80	0
Hoegemeyer HPT 8414 AM	205.9	228.0		57.7	18.1	82	0	Pioneer P1316AM	173.9	198.5	198.7	57.4	17.6	85	0
NK Seeds NK1433	204.8	219.0	211.0	56.4	18.7	82	0	Pioneer P1464AML	173.8			59.4	18.8	82	0
DEKALB DKC63-57RIB	204.7			59.2	16.9	85	0	Pioneer P1442AM	172.5	195.5		61.7	18.1	87	0
Mission Seed Mex1548DGV2P	204.4			58.2	19.6	83	0	Caverndale CF853 VIP 3110	138.4			55.9	23.4	86	2
Warren Seed DS 7215	204.3			55.0	19.3	85	0	Average	200.2	216.7	209.2	58.5	18.3	84	0
Wyffels W7976RIB	203.8			58.0	17.7	77	0	C.V.	9.0	7.5	8.3	1.6	4.5	6	594
Seed Consultants SCS 1136YHR™	203.7	217.0	200.2	59.7	19.0	88	0	LSD	34.6	21.4	19.0	1.8	1.6	10	0
REV® 25BHR89™	203.4			58.4	18.9	73	0	Medium varieties: 112-115 days to maturity							
Warren Seed DS 9412SSX	203.3	216.3	212.7	57.8	17.3	85	0	Shaded cells are not significantly different from top yield (0.10)							
REV® 23BHR55™	203.2	216.2	202.6	57.1	17.9	86	0	Planted: April 21, 2018; Harvested: September 20, 2018							
								Soil type: Lanton Silty Clay Loam; Previous crop: Soybean; Fertilizer 182/0/0							

Table 8W. Fayette County, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	2017-18	2016-18				
Pioneer P1306WHR	195.6	217.2	206.0	60.2	17.3	88	0
Pioneer P1309WAM	194.7			61.2	17.8	93	0
Pioneer P1618WAM	184.0	199.8		60.3	19.2	89	0
Pioneer 32B16	183.9	190.4	183.8	57.7	20.0	83	0
Pioneer P1620WAM	181.5	198.3		60.3	20.0	83	0
Average	187.9	201.4	194.9	60.0	18.9	87	0
C.V.	5.5	6.9	9.0	0.8	3.0	6	387
LSD	25.3	20.4	20.7	1.2	1.4	13	0

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

Planted: April 21, 2018; Harvested: September 20, 2018

Soil type: Lanton Silty Clay Loam; Previous crop: Soybean; Fertilizer 182/0/0

Table 8C. Fayette County, conventional, 2018.

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	2017-18				
Caverndale CF 790	215.2	222.7	59.0	19.0	79	0
FS InVISION FS 63Z00	203.1	211.2	60.7	18.2	76	0
Pioneer P1197	197.5		56.9	18.1	84	0
Caverndale CF 855	197.4		61.2	19.8	76	0
Pfister 2874CONV	194.1	190.9	56.9	17.8	80	0
DEKALB DKC64-32	193.0		58.4	19.6	67	0
FS InVISION FS 66Z00	188.5		58.9	19.2	79	0
FS InVISION FS 62B00	178.1	208.3	56.3	18.4	77	0
REV® 25C26™	175.6		58.2	18.2	83	1
DEKALB DKC64-85	173.5	190.4	57.8	16.2	81	0
DEKALB DKC61-52	170.7	183.8	58.7	16.5	85	0
Pfister 68A1	163.8		56.6	15.9	79	0
Caverndale CF 870	161.5		56.2	25.9	90	0
Hoegemeyer HPT 8292	156.3		56.3	16.6	85	0
REV® 23C55™	141.9		56.7	17.1	79	0
Pfister 61H1	139.0		57.4	15.3	83	0
Average	175.6	196.9	57.8	18.2	80	0
C.V.	18.0	14.2	1.2	5.6	12	193
LSD	64.3	36.4	1.4	2.1	20	1

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

Planted: April 21, 2018; Harvested: September 20, 2018

Soil type: Lanton Silty Clay Loam; Previous crop: Soybean; Fertilizer 182/0/0

Table 9. Fayette County weather, 2018.

	Monthly Precipitation	Temperature Average
March	4.62	41.9
April	4.48	49.7
May	8.87	71.5
June	4.67	74.5
July	4.69	75.6
August	4.34	74.8
September	10.85	72.8

Table 10E. Muhlenburg County, early, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
Seed Consultants SCS 1087YHR™	261.3			60.4	16.1	84	0	AgriGold A641-78STXRIB	221.0			60.3	18.4	78	0
Channel 209-15VT2PRIB	255.8			59.7	18.1	83	0	Augusta 4858	220.1			60.3	17.5	78	0
Progeny Ag PGY7111VT2P	248.9	257.0		58.7	17.2	87	0	AgriGold A639-40VT2RIB	214.7	159.0		59.8	17.1	74	0
Hoegemeyer HPT 8091 AM	238.3	240.0		60.3	16.4	79	0	FS InVISION FS 60UX1 RIB	213.8			61.7	18.3	79	0
NK Seeds NK1066	238.2	237.9	222.0	59.2	17.8	81	0	LG Seeds LG5590VT2RIB	213.4			59.5	17.6	81	0
Seed Consultants SCS 1139YHR™	237.5			62.2	19.4	80	0	Brodbeck 48RA09	211.5			59.0	17.0	78	0
Pioneer P1197AM	236.5	188.7	190.2	59.8	17.4	73	0	Stewart 11DP718	209.5	202.5		59.7	19.9	74	0
Armor X8111	232.3			60.0	18.3	80	0	Seed Consultants SCS 1105YHR™	208.4	171.9	179.0	60.9	16.3	70	0
Stewart 10DP099	231.5			60.1	17.0	79	0	DEKALB DKC58-35RIB	205.9			60.5	18.1	73	0
Augusta 4860	228.0			59.3	17.7	85	0	Caverndale CF 753GTCBLL	205.1			60.1	17.3	72	0
AgriGold A641-06VT2PRO	226.8			59.9	18.1	69	0	Pfister 71CPCRA	197.5	205.4		57.0	19.5	77	0
DEKALB DKC60-88RIB	225.8	201.8		60.5	17.6	77	0	Average	221.5	203.6	197.1	60.0	17.6	78	0
Pioneer P1138AM	224.4			60.7	18.1	79	0	C.V.	8.3	21.8	18.8	0.7	2.7	8	948
Armor 0887	221.6			60.1	16.0	82	0	LSD	35.8	63.1	43.9	0.8	0.9	12	0
DEKALB DKC61-98RIB	221.2			60.0	19.1	83	0	Early varieties: 111 or less days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 1, 2018; Harvested: September 14, 2018 Soil type: Sharon Silt Loam; Previous crop: Soybean; Fertilizer 200/0/0							
Pfister 68A1PE	221.2			58.7	16.9	87	0								

Table 10L. Muhlenburg County, late, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
REV® 28BHR18™	230.4	242.3		60.7	24.3	78	0	CHANNEL 216-36VT2PRIB	191.3	219.1		61.2	22.0	78	0
Caverndale CF 888 3000GT	227.1	243.8		58.8	24.7	73	0	Stewart 17DP387	188.6	214.4	200.8	61.3	22.9	71	0
Dyna-Gro D56VC46	226.0		206.3	69.1	20.2	85	0	Stewart 18DP799	186.9			62.4	23.2	79	0
DEKALB DKC70-27RIB	219.9	248.9		60.2	23.8	76	0	Mission Seed A1857SS	184.6			62.5	23.0	71	0
Pioneer P2089AML	219.2			59.3	23.8	77	0	REV® 27BHR79™	179.3			62.4	23.1	85	0
Stewart 16DP117	217.1		196.8	60.7	23.3	81	0	AgriGold A646-12STXRIB	175.8			62.5	21.8	63	0
Dyna-Gro D58VC65	216.9	229.6		60.8	22.8	84	0	FS InVISION FS 67SV1 RIB	172.0			61.5	22.4	79	0
Pioneer P1870AM	216.8			60.6	23.0	77	0	AgriGold A647-90VT2RIB	171.6	206.3		61.2	22.9	75	0
DEKALB DKC66-75	213.2	250.8	229.8	60.8	21.5	77	0	Dyna-Gro CX17117	167.2			62.8	22.4	83	0
CHANNEL 218-44VT2PRIB	210.5	245.8	224.1	61.2	22.5	78	0	Wyffels W8646	165.1	193.4		60.6	20.9	77	0
DEKALB DKC67-44	207.3	250.0	240.1	61.1	21.7	79	0	Armor 1667S	161.3			62.7	22.1	70	0
FS InVISION FS 66ZV1 RIB	207.0	232.5	217.7	61.1	21.4	79	0	Pioneer P1637AM	161.3	204.5	197.9	61.7	22.3	68	0
Progeny Ag PGY8116SS	206.6			62.5	22.7	83	0	Average	197.4	229.8	214.0	61.5	22.5	77	0
Pioneer P1847AML	205.1			60.9	24.1	79	0	C.V.	10.8	13.9	12.6	4.7	4.6	8	659
Progeny Ag PGY6116VT2P	201.2	232.3	211.0	58.9	22.7	82	0	LSD	41.7	41.4	29.7	5.7	2.0	12	0
Seed Consultants SC-S1168YHR™	200.1	234.1		61.3	21.1	77	0	Late varieties: 116 or more days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 1, 2018; Harvested: September 14, 2018 Soil type: Sharon Silt Loam; Previous crop: Soybean; Fertilizer 200/0/0							
AgriGold A6659VT2RIB	197.9	229.2	215.6	60.7	21.2	78	0								
Armor X8117	195.6			62.1	21.8	70	0								

Table 10M. Muhlenburg County, medium, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18						2018	17-18	16-18				
LG Seeds LG5643VT2RIB	251.5	252.3	237.3	59.9	20.9	80	0	Pfister 74D2PC	216.6			60.4	22.1	86	0
Hoegemeyer HPT 8414 AM	243.9	253.9		58.8	21.4	82	0	NK Seeds NK1433	216.0	206.2	202.9	59.0	20.9	80	0
AgriGold A6544VT2RIB	241.6	260.3	237.2	60.4	20.6	83	0	Warren Seed DS 7513	214.5	227.3		57.5	22.9	85	0
REV® 25BHR89™	238.5			60.3	22.3	83	0	Wyffels W7976RIB	213.9			59.0	20.3	77	0
Channel 215-60TRE	238.1			60.0	21.2	86	0	Warren Seed DS 9412SSX	213.6	225.9	209.9	58.8	21.0	84	0
REV® 23BHR55™	236.1	228.4	221.0	59.7	20.8	77	0	Augusta 5065	213.1			61.3	23.1	77	0
LG Seeds LG5663VT2RIB	235.2	232.2	210.5	60.8	22.1	87	0	Armor 1447P	212.5	228.8		61.8	21.7	79	0
Augusta 4463	234.9			60.3	20.2	83	0	Warren Seed DS 7215	212.4			56.8	23.4	82	0
Hoegemeyer HPT 8294 AM	233.3	252.8	231.6	59.6	20.7	82	0	Hoegemeyer HPT 8572 AM	212.4	238.9		61.2	21.4	81	0
Dyna-Gro D54VC14	233.0			62.0	20.6	81	0	Wyffels W7456RIB	211.1			60.0	22.0	81	0
Dyna-Gro D55VC45	231.2	235.8		60.4	22.4	83	0	Warren Seed DS 7915PE	211.1			60.3	22.3	88	0
FS InVISION FS 64SV1 RIB	230.2			59.2	21.6	87	0	Caverndale CF 824 3120 E-Z Refuge	210.9	227.6		57.7	20.7	86	0
Dyna-Gro D52VC15	229.2			60.3	20.7	81	1	Channel 212-20VT2PRIB	210.8			61.3	21.9	79	0
Pioneer P1316AM	228.9	213.8	206.0	60.9	21.2	85	0	FS InVISION FS 62TV1DG RIB	210.2			60.1	20.6	83	0
Pioneer P1464AML	227.4			61.6	21.4	87	0	DEKALB DKC62-53RIB	209.3			60.6	20.3	79	0
Mission Seed Mex- 1548DGV2P	226.9			59.8	21.6	83	0	AgriGold A645-10VT2RIB	208.8	208.3		60.5	21.5	82	0
Stewart 8E623RIB	226.9	213.7		59.6	20.9	86	0	LG Seeds LG62C02VT2RIB	205.3			61.1	19.9	80	0
AgriGold A6572VT2RIB	226.7	219.2	207.6	62.4	21.6	81	0	Brodbeck 49RA14	204.9			56.3	23.5	76	0
Stewart 14DD339	226.7			60.0	21.8	82	0	FS InVISION FS 63ZV1 RIB	204.8			62.5	20.9	78	0
Augusta 4465	226.3			59.8	21.7	75	0	FS InVISION FS 62ZX1 RIB	204.6			61.1	21.5	83	0
Stewart 15DP519	226.2			60.1	23.2	82	0	Armor X8113	204.4			60.6	21.2	78	0
REV® 25BHR26™	226.1	252.6	236.0	62.1	21.7	82	0	Warren Seed DS 9913SSX	201.7	220.4	206.8	59.1	21.3	84	0
Seed Consultants SCS 1125YHR™	225.8	250.9		59.1	21.3	84	0	Armor 1227P	201.7	233.9		60.8	21.2	79	0
Wyffels W7696RIB	224.8	237.6	222.6	59.1	21.4	85	0	Warren Seed DS 7414	201.6			58.1	22.4	85	0
DEKALB DKC65-95RIB	224.2			68.6	21.0	78	0	REV® 24BHR99™	199.7			60.9	21.6	80	0
LG Seeds LG64C30TRC	223.5			59.9	21.1	81	0	Mission Seed Mex1308VT2P	198.5			60.8	21.1	76	0
Progeny Ag PGY7115VT2P	223.2			60.9	22.9	84	0	Brodbeck 49RA12	197.3			57.3	23.4	82	0
Progeny Ag PGY4114VT2P	222.1	231.6	217.6	61.3	20.8	77	0	AgriGold A642-59VT2RIB	195.4			60.2	21.3	78	0
Channel 213-19VT2PRIB	222.1			61.1	21.8	85	0	Augusta 5464	193.5			59.5	22.1	76	0
Stewart 12DP209	221.6			59.4	20.6	78	0	Seed Consultants SC- S1158YHR™	188.2	214.8		60.7	21.0	81	0
AgriGold A6499STXRIB	220.7	218.9	206.5	61.2	21.7	82	0	Caverndale CF853 VIP 3110	182.1			57.7	26.8	86	0
Pioneer P1442AM	220.0	236.8		60.9	21.7	80	0	Average	217.8	231.2	217.5	60.2	21.6	81	0
LG Seeds LG5650VT2RIB	219.5	222.3	207.4	60.4	21.9	86	0	C.V.	7.4	12.2	11.1	2.9	3.8	6	864
DEKALB DKC63-57RIB	218.7			59.7	21.3	79	0	LSD	31.0	36.9	26.7	3.3	1.6	10	0
Pfister 75Y1PCR	218.6			56.8	22.9	89	0	Medium varieties: 112-115 days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 1, 2018; Harvested: September 14, 2018 Soil type: Sharon Silt Loam; Previous crop: Soybean; Fertilizer 200/0/0							
Progeny Ag PGY9114VT2P	217.5			61.3	21.7	80	0								
DEKALB DKC64-35RIB	217.2	241.3	225.9	61.6	21.4	74	0								
Seed Consultants SCS 1136YHR™	216.7	218.2	209.8	61.8	21.9	76	0								

Table 10W. Muhlenburg County, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
Pioneer P1620WAM	237.5	245.2		62.9	20.5	88	0
Pioneer 32B16	234.1	236.5	216.4	60.7	22.8	84	0
Pioneer P1618WAM	217.7	234.6		62.8	20.2	83	0
Pioneer P1309WAM	215.7			62.7	19.6	86	0
Pioneer P1306WHR	212.0	232.2	220.2	62.0	19.8	81	0
Average	223.4	237.1	218.3	62.2	20.6	85	0
C.V.	4.7	9.1	8.0	0.4	2.0	4	0
LSD	24.8	31.5	21.2	0.6	1.0	7	0

Shaded cells are not significantly different from top yield (0.10)
 Planted: May 1, 2018; Harvested: September 14, 2018
 Soil type: Sharon Silt Loam; Previous crop: Soybean; Fertilizer 200/0/0

Table 10C. Muhlenburg County, conventional, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
Pioneer P1197	244.8		59.5	19.3	87	0	0
Hoegemeyer HPT 8292	230.4		60.1	19.7	80	0	0
FS InVISION FS 66Z00	223.3		61.4	20.8	79	0	0
DEKALB DKC64-32	218.2		61.6	21.2	76	0	0
Pfister 61H1	217.9		60.3	18.8	71	0	0
REV® 25C26™	211.7		61.2	20.4	79	0	0
REV® 23C55™	206.9		60.0	19.2	72	0	0
DEKALB DKC64-85	206.5	224.7	61.2	20.2	73	0	0
Caverndale CF 790	205.1	230.8	61.6	20.3	75	0	
Pfister 68A1	204.9		59.7	18.0	79	0	
FS InVISION FS 62B00	202.0	228.8	60.0	19.9	70	0	
Pfister 2874CONV	200.9	223.5	57.7	21.2	83	0	
FS InVISION FS 63Z00	199.8	216.3	62.8	20.4	77	0	
DEKALB DKC61-52	197.6	208.9	62.3	18.5	74	0	
Caverndale CF 855	193.7		62.5	22.6	73	0	
Caverndale CF 870	164.7		58.2	27.6	79	0	
Average	208.2	220.4	60.6	20.5	77	0	
C.V.	7.0	8.0	0.9	3.4	6	0	
LSD	29.2	24.1	1.1	1.4	9	0	

Shaded cells are not significantly different from top yield (0.10)
 Planted: May 1, 2018; Harvested: September 14, 2018
 Soil type: Sharon Silt Loam; Previous crop: Soybean; Fertilizer 200/0/0

Table 11. Muhlenburg County weather, 2018.

	Monthly Precipitation	Temperature Average
March	6.03	45.9
April	4.42	51.9
May	3.79	73.5
June	5.85	77.2
July	2.01	78.3
August	2.99	77.8
September	6.71	75.3

Table 12E. Shelby County, early, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
Seed Consultants SCS 1087YHR™	275.2			57.0	20.7	88	0	DEKALB DKC58-35RIB	239.1			58.7	19.9	79	0
Channel 209-15VT2PRIB	269.8			55.9	21.9	87	0	DEKALB DKC61-98RIB	237.8			57.2	21.4	79	0
Stewart 10DP099	269.2			57.9	21.2	81	0	Pfister 68A1PE	237.3			55.7	21.9	85	0
Seed Consultants SCS 1105YHR™	267.2	245.6	232.4	56.6	20.7	84	0	Augusta 4858	236.7			56.8	21.1	76	0
Armor 0887	260.0			57.4	20.1	79	0	Pfister 71CPCRA	236.7	200.7		55.3	22.1	82	0
AgriGold A639-40VT2RIB	256.3	219.7		56.3	21.7	81	0	NK Seeds NK1066	233.4	208.2	203.3	56.1	21.8	80	0
Progeny Ag PGY7111VT2P	256.2	244.1		56.3	21.3	83	0	Seed Consultants SCS 1139YHR™	232.8			58.2	22.4	82	0
DEKALB DKC60-88RIB	255.1	226.9		57.8	21.7	83	0	Pioneer P1138AM	232.6			57.9	21.4	86	0
AgriGold A641-06VT2PRO	254.5			56.6	22.6	74	0	FS InVISION FS 60UX1 RIB	229.6			58.9	21.6	77	0
Stewart 11DP718	253.5	240.2		56.3	24.2	87	0	Brodbeck 48RA09	228.6			56.5	20.2	75	0
Armor X8111	249.0			55.8	23.6	83	0	Average	245.5	226.3	219.1	57.1	21.2	82	0
Pioneer P1197AM	248.7	231.5	221.6	57.2	21.0	81	0	C.V.	5.7	9.9	9.4	1.2	2.7	5	676
LG Seeds LG5590VT2RIB	247.9			56.6	20.9	86	0	LSD	27.3	31.7	24.2	1.3	1.1	8	0
Hoegemeyer HPT 8091 AM	246.0	236.3		57.1	20.9	80	0	Early varieties: 111 or less days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 9, 2018; Harvested: September 19, 2018 Soil type: Nicholson Silt Loam; Previous crop: Soybean; Fertilizer: 170/77/109							
AgriGold A641-78STXRIB	245.8			58.7	22.5	81	0								
Caverndale CF 753GTCBLL	243.3			56.8	20.6	84	0								
Augusta 4860	242.8			55.0	22.6	84	0								

Table 12L. Shelby County, late, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LOGD (%)
	2018	17-18	16-18						2018	17-18	16-18				
Dyna-Gro D58VC65	273.8	227.9		57.2	23.9	87	0	REV® 28BHR18™	244.9	207.8		58.1	24.1	83	0
DEKALB DKC67-44	271.3	236.9	226.3	58.8	22.5	84	0	Seed Consultants SC-S1168YHR™	243.3	213.8		56.9	23.2	86	0
Stewart 16DP117	266.7		231.8	57.5	24.2	86	0	Pioneer P1870AM	241.6			57.5	24.6	81	0
DEKALB DKC66-75	266.4	241.9	225.9	58.0	22.9	84	0	CHANNEL 218-44VT2PRIB	239.5	227.9	214.1	59.0	23.3	82	0
DEKALB DKC70-27RIB	264.0	215.9		56.9	25.0	83	0	FS InVISION FS 67SV1 RIB	237.7			58.7	24.7	83	0
Progeny Ag PGY6116VT2P	258.6	219.8	210.9	54.4	25.5	81	0	Armor 1667S	237.5			58.3	24.3	85	0
Pioneer P1847AML	258.2			56.4	26.0	85	0	Progeny Ag PGY8116SS	237.4			58.6	23.9	82	0
Dyna-Gro D56VC46	257.9		223.0	56.3	24.4	85	0	Pioneer P1637AM	236.4	205.1	202.8	58.3	23.5	83	0
AgriGold A6659VT2RIB	256.9	250.8	234.8	57.7	24.0	85	0	Mission Seed A1857SS	234.6			57.6	24.4	82	0
CHANNEL 216-36VT2PRIB	254.9	250.5		58.0	23.3	84	0	Dyna-Gro CX17117	233.7			58.1	24.0	80	0
Wyffels W8646	253.6	208.8		57.2	23.7	84	0	REV® 27BHR79™	218.4			59.3	23.7	84	0
AgriGold A647-90VT2RIB	252.2	210.5		58.6	24.8	84	0	Average	249.3	226.2	221.8	57.7	24.2	83	0
Caverndale CF 888 3000GT	251.9	234.5		55.5	26.6	83	0	C.V.	5.2	13.9	12.0	1.2	2.3	5	676
Stewart 18DP799	250.3			60.3	24.2	83	0	LSD	25.4	43.7	30.0	1.3	1.1	8	0
FS InVISION FS 66ZV1 RIB	248.2	234.0	222.5	57.6	23.5	85	0	Late varieties: 116 or more days to maturity Shaded cells are not significantly different from top yield (0.10) Planted: May 9, 2018; Harvested: September 19, 2018 Soil type: Nicholson Silt Loam; Previous crop: Soybean; Fertilizer: 170/77/109							
AgriGold A646-12STXRIB	248.2			57.6	24.7	77	0								
Pioneer P2089AML	248.1			56.0	25.2	82	0								
Armor X8117	246.5			58.9	23.4	78	0								
Stewart 17DP387	245.8	232.8	225.9	57.8	23.9	81	0								

Table 12M. Shelby County, medium, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18						2018	17-18	16-18				
Dyna-Gro D54VC14	279.8			57.8	23.2	83	0	Warren Seed DS 9412SSX	242.4	224.0	216.8	55.0	22.7	85	0
AgriGold A6544VT2RIB	275.5	253.7	230.8	57.1	22.1	82	0	Armor X8113	242.2			58.0	20.6	77	0
Stewart 8E623RIB	275.0	253.0		55.1	22.9	86	0	Hoegemeyer HPT 8414 AM	241.7	214.4		55.9	22.5	83	0
Stewart 15DP519	266.9			57.1	22.5	83	0	Channel 213-19VT2PRIB	241.1			57.7	22.8	86	0
LG Seeds LG5643VT2RIB	266.1	254.6	243.7	57.9	20.2	85	0	Seed Consultants SCS	240.5	228.6	211.0	58.2	22.9	83	0
Warren Seed DS 7215	264.6			54.0	19.4	84	0	1136YHR™							
Pfister 75Y1PCR	263.9			54.2	21.9	88	0	Progeny Ag PGY7115VT2P	239.3			56.8	20.6	77	0
Wyffels W7696RIB	263.7	241.4	217.6	56.2	23.4	89	0	REV® 25BHR26™	238.9	211.3	198.9	59.1	21.1	79	0
AgriGold A645-10VT2RIB	263.7	245.3		57.7	23.1	81	0	REV® 24BHR99™	237.9			57.0	21.4	88	0
Augusta 4465	260.7			56.7	21.6	78	0	Brodbeck 49RA14	237.3			53.0	23.0	84	0
Channel 215-60TRE	259.3			56.1	23.5	86	0	Pfister 74D2PC	237.2			54.9	22.8	83	0
Armor 1447P	258.2	252.2		57.8	21.7	92	0	Seed Consultants SCS	237.2	218.4		57.4	21.2	94	0
Progeny Ag PGY9114VT2P	258.0			58.2	21.6	84	0	1125YHR™							
Dyna-Gro D55VC45	257.5	245.6		57.4	21.9	84	0	Warren Seed DS 9913SSX	236.4	229.9	211.3	56.8	22.9	83	0
Pioneer P1316AM	256.4	233.8	221.6	56.9	23.0	89	0	FS InVISION FS 62TV1DG RIB	235.9			57.0	23.0	78	0
REV® 25BHR89™	255.7			57.6	22.5	81	0	Mission Seed Mex1308VT2P	235.8			56.8	22.4	88	0
DEKALB DKC63-57RIB	255.7			56.2	21.7	88	0	FS InVISION FS 63ZV1 RIB	235.5			57.7	22.9	84	0
Augusta 4463	255.3			57.5	21.8	79	0	Brodbeck 49RA12	233.2			54.9	22.6	80	0
Wyffels W7456RIB	255.3			57.7	23.1	75	0	DEKALB DKC65-95RIB	232.9			58.4	23.3	82	0
Stewart 12DP209	254.8			55.7	21.2	82	0	Caverndale CF 824 3120 E-Z	230.3	236.8		55.7	20.3	80	0
Augusta 5464	254.7			55.5	22.1	89	0	Refuge							
Wyffels W7976RIB	254.6			56.4	21.1	83	0	Pioneer P1464AML	227.3			57.8	22.6	86	0
Dyna-Gro D52VC15	254.5			57.6	22.1	87	0	Pioneer P1442AM	225.7	205.6		57.4	22.4	80	0
DEKALB DKC62-53RIB	253.6			55.8	22.5	84	0	LG Seeds LG62C02VT2RIB	224.0			57.5	22.0	81	0
AgriGold A6499STXRIB	253.3	246.3	232.4	57.2	22.6	85	0	Channel 212-20VT2PRIB	222.8			58.1	21.5	83	0
FS InVISION FS 62ZX1 RIB	251.0			58.1	20.8	86	0	Augusta 5065	222.5			58.5	22.3	82	0
Stewart 14DD339	250.3			57.0	21.9	85	0	AgriGold A6572VT2RIB	222.3	217.3	208.1	58.8	22.4	84	0
Seed Consultants SC-S1158YHR™	250.2	224.2		56.2	23.4	88	0	Hoegemeyer HPT 8294 AM	221.5	202.9	200.8	57.0	21.9	85	0
Warren Seed DS 7414	249.8			55.1	21.9	89	0	LG Seeds LG5650VT2RIB	220.8	219.1	209.9	59.3	21.8	84	0
Armor 1227P	249.6	229.1		57.3	19.8	78	0	Hoegemeyer HPT 8572 AM	218.5	226.3		56.4	23.4	78	0
LG Seeds LG5663VT2RIB	249.4	232.7	217.3	57.6	21.6	88	0	Warren Seed DS 7915PE	215.3			54.1	22.0	84	0
NK Seeds NK1433	249.1	220.1	206.5	54.4	21.9	87	0	Progeny Ag PGY4114VT2P	206.9	208.5	205.8	58.2	18.2	83	0
AgriGold A642-59VT2RIB	248.0			57.1	20.8	88	0	Caverndale CF853 VIP 3110	164.7			55.6	27.9	85	1
LG Seeds LG64C30TRC	247.6			56.8	24.1	82	0	Average	243.9	227.8	214.3	56.8	22.1	84	0
FS InVISION FS 64SV1 RIB	246.9			55.2	22.4	80	0	C.V.	7.5	13.0	12.0	1.2	7.2	7	616
DEKALB DKC64-35RIB	244.8	225.1	212.7	58.6	21.6	85	0	LSD	35.1	41.0	30.1	1.3	3.0	11	0
Mission Seed Mex-1548DGV2P	244.7			56.1	24.3	81	0	Medium varieties: 112-115 days to maturity							
REV® 23BHR55™	242.6	193.0	197.4	57.9	21.1	85	0	Shaded cells are not significantly different from top yield (0.10)							
Warren Seed DS 7513	242.6	213.7		55.6	20.9	87	0	Planted: May 9, 2018; Harvested: September 19, 2018							
								Soil type: Nicholson Silt Loam; Previous crop: Soybean; Fertilizer: 170/77/109							

Table 12W. Shelby County, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
Pioneer P1620WAM	230.4	206.1		60.5	21.9	87	0
Pioneer 32B16	224.9	202.1	189.3	56.9	24.6	81	0
Pioneer P1306WHR	208.6	203.0	199.5	59.5	20.9	82	0
Pioneer P1309WAM	206.5			59.9	21.0	86	0
Pioneer P1618WAM	203.0	197.6		59.4	21.9	88	0
Average	214.7	202.2	194.4	59.3	22.1	85	0
C.V.	2.3	8.0	7.6	0.5	1.5	4	0
LSD	12.9	24.3	17.8	0.8	0.8	7	0

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

Planted: May 9, 2018; Harvested: September 19, 2018

Soil type: Nicholson Silt Loam; Previous crop: Soybean; Fertilizer: 170/77/109

Table 12C. Shelby County, conventional, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
DEKALB DKC64-85	259.1	214.4		58.8	20.9	86	0
FS InVISION FS 66Z00	254.0		58.9	22.6	84	0	
REV® 23C55™	244.5		57.7	20.9	82	0	
Caverndale CF 790	243.5		58.9	19.1	77	0	
DEKALB DKC64-32	242.1		59.1	22.2	79	0	
REV® 25C26™	238.7		59.0	20.5	82	0	
Pioneer P1197	238.3		57.4	20.0	87	0	
Pfister 61H1	233.6		57.9	19.2	84	0	
Hoegemeyer HPT 8292	231.1		57.5	21.3	84	0	
FS InVISION FS 62B00	230.7	189.3	56.4	21.5	81	0	
FS InVISION FS 63Z00	229.4	186.9	59.8	22.6	81	0	
Pfister 2874CONV	223.9	182.9	56.3	21.4	85	0	
DEKALB DKC61-52	220.6	197.4	60.7	19.1	84	0	
Pfister 68A1	214.2		57.8	19.4	83	0	
Caverndale CF 855	209.0		60.4	21.8	77	0	
Caverndale CF 870	188.7		58.0	28.6	82	0	
Average	230.5	194.2	58.4	21.5	83	0	
C.V.	8.2	12.7	1.0	2.3	6	0	
LSD	38.3	37.5	1.1	1.0	10	0	

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

Planted: May 9, 2018; Harvested: September 19, 2018

Soil type: Nicholson Silt Loam; Previous crop: Soybean; Fertilizer: 170/77/109

Table 13. Shelby County weather, 2018.

	Monthly Precipitation	Temperature Average
March	4.76	42.3
April	3.64	49.6
May	3.97	71.7
June	5.01	75.4
July	4.77	75.7
August	4.15	74.9
September	7.23	72.7

Table 14E. Simpson County, early, 2018.

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18						2018	17-18				
Seed Consultants SCS 1087YHR™	220.0		60.6	16.0	80	0	Seed Consultants SCS 1105YHR™	186.6	188.6	61.1	16.2	75	0
Augusta 4860	215.7		60.0	15.0	88	0	Pioneer P1197AM	185.4	195.2	61.2	15.9	67	0
Stewart 11DP718	205.0	205.5	60.7	17.0	87	0	Augusta 4858	185.3		61.2	16.1	70	0
LG Seeds LG5590VT2RIB	205.0		60.7	15.7	82	0	Hoegemeyer HPT 8091 AM	182.6	188.3	60.7	15.8	61	0
Caverndale CF 753GTCBLL	204.8		60.9	15.8	79	0	DEKALB DKC58-35RIB	182.0		61.3	15.6	70	0
Progeny Ag PGY7111VT2P	204.3	201.0	60.0	15.0	86	0	Pfister 71CPCRA	178.6	195.2	59.3	15.5	76	0
AgriGold A639-40VT2RIB	200.4	200.5	60.0	15.4	86	0	NK Seeds NK1066	178.3	184.4	59.4	16.5	59	0
Channel 209-15VT2PRIB	198.8		60.2	15.8	79	0	DEKALB DKC61-98RIB	177.4		60.3	15.6	76	0
Seed Consultants SCS 1139YHR™	194.9		62.1	17.6	65	0	Brodbeck 48RA09	175.3		59.9	16.2	69	0
Pioneer P1138AM	194.9		60.1	15.9	76	0	FS InVISION FS 60UX1 RIB	173.0		61.9	17.6	65	0
Pfister 68A1PE	192.8		58.8	14.3	77	0	Average	190.3	192.9	60.5	16.0	75	0
Armor X8111	191.4		60.7	16.8	72	0	C.V.	10.3	10.0	1.3	3.5	15	0
Armor 0887	191.3		60.0	15.3	76	0	LSD	38.5	26.1	1.5	1.1	21	0
AgriGold A641-78STXRIB	191.2		61.4	16.4	77	0	Early varieties: 111 or less days to maturity						
Stewart 10DP099	191.0		60.1	16.2	69	0	Shaded cells are not significantly different from top yield (0.10)						
AgriGold A641-06VT2PRO	190.0		60.4	16.4	80	0	Planted: April 19, 2018; Harvested: September 13, 2018						
DEKALB DKC60-88RIB	187.2	194.5	61.3	15.9	76	0	Soil type: Mountview Silt Loam; Previous crop: Soybean; Fertilizer 290/150/150						

Table 14L. Simpson County, late, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18						2018	17-18	16-18				
Seed Consultants SC-S1168YHR™	243.8	227.4		61.2	18.2	79	0	REV® 28BHR18™	215.6	216.4		62.2	19.9	82	0
DEKALB DKC70-27RIB	236.0	221.1		59.4	20.0	69	0	REV® 27BHR79™	214.6			62.3	20.5	80	0
Stewart 16DP117	229.9		231.3	61.7	19.9	82	0	Pioneer P1870AM	212.7			62.2	19.0	81	0
Progeny Ag PGY8116SS	228.7			62.5	19.5	81	0	Wyffels W8646	212.2	215.1		59.9	19.1	75	0
DEKALB DKC67-44	228.2	213.1	226.6	61.1	18.9	78	0	AgriGold A6659VT2RIB	212.1	190.8	203.7	61.7	16.8	77	0
Stewart 17DP387	226.9	184.8	183.0	61.0	20.3	79	0	Armor X8117	211.7			62.5	18.9	75	0
Stewart 18DP799	223.9			62.5	20.5	72	0	DEKALB DKC66-75	211.5	217.6	221.1	59.8	17.1	68	0
AgriGold A646-12STXRIB	222.6			61.6	18.9	68	0	Caverndale CF 888 3000GT	210.1	190.6		58.5	21.3	62	0
Progeny Ag PGY6116VT2P	222.1	214.2	207.1	60.3	18.6	79	0	FS InVISION FS 67SV1 RIB	208.5			60.9	19.8	75	0
Dyna-Gro D56VC46	221.9		205.5	61.7	18.3	78	0	CHANNEL 216-36VT2PRIB	205.5	188.5		61.1	18.1	74	0
CHANNEL 218-44VT2PRIB	221.0	221.0	222.1	61.1	19.6	81	0	Armor 1667S	199.3			62.0	19.1	80	0
Dyna-Gro D58VC65	220.9	188.7		61.4	18.4	80	0	AgriGold A647-90VT2RIB	174.5	182.0		61.2	19.9	61	0
Pioneer P1847AML	220.0			61.2	20.0	86	0	Average	217.4	205.8	214.1	61.3	19.2	76	0
FS InVISION FS 66ZV1 RIB	219.7	200.2	203.1	60.7	17.5	77	0	C.V.	6.5	7.2	13.9	1.0	3.4	11	948
Mission Seed A1857SS	218.3			62.1	19.1	75	0	LSD	27.6	20.5	32.6	1.2	1.3	16	0
Dyna-Gro CX17117	216.9			62.2	19.9	81	0	Late varieties: 116 or more days to maturity							
Pioneer P1637AM	216.9	221.9	237.9	62.0	19.1	69	0	Shaded cells are not significantly different from top yield (0.10)							
Pioneer P2089AML	215.7			59.9	19.2	65	0	Planted: April 19, 2018; Harvested: September 14, 2018							
								Soil type: Mountview Silt Loam; Previous crop: Soybean; Fertilizer 290/150/150							

Table 14M. Simpson County, medium, 2018.

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)	Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18						2018	17-18				
Channel 215-60TRE	243.3		59.5	17.2	84	0	Armor 1447P	207.4	226.1	62.3	18.0	76	0
Stewart 15DP519	234.7		61.2	17.0	83	0	Progeny Ag PGY4114VT2P	206.4	207.9	61.9	17.9	72	0
Pioneer P1442AM	231.9	220.0	61.4	17.8	90	0	AgriGold A6499STXRIB	206.3	203.1	62.3	19.2	72	0
Progeny Ag PGY9114VT2P	228.5		62.5	17.9	83	0	Wyffels W7976RIB	205.8		59.0	14.9	83	0
Stewart 12DP209	227.3		59.7	15.3	85	0	Channel 212-20VT2PRIB	204.9		60.5	17.8	81	0
Stewart 14DD339	227.0		61.2	17.2	84	0	Hoegemeyer HPT 8294 AM	204.6	204.6	61.1	15.4	86	0
Stewart 8E623RIB	225.5	225.9	60.1	16.1	79	0	Pioneer P1464AML	203.8		61.1	17.3	88	0
AgriGold A6544VT2RIB	225.5	224.0	60.9	16.1	84	0	Caverndale CF 824 3120 E-Z Refuge	203.7	195.5	58.8	15.2	81	0
Channel 213-19VT2PRIB	223.8		61.7	18.4	82	0	Warren Seed DS 9412SSX	202.5	200.1	60.1	16.4	77	0
DEKALB DKC63-57RIB	223.4		59.7	17.6	77	0	Armor X8113	201.2		59.8	18.1	72	0
LG Seeds LG5650VT2RIB	222.4	210.1	63.1	18.3	83	0	Armor 1227P	199.1	197.6	60.7	17.2	71	0
LG Seeds LG5643VT2RIB	221.2	221.1	61.3	16.1	92	0	Dyna-Gro D52VC15	196.8		60.9	17.4	84	0
LG Seeds LG64C30TRC	220.6		61.2	17.5	82	0	Mission Seed Mex1308VT2P	196.5		60.5	18.5	82	0
DEKALB DKC62-53RIB	220.2		59.5	16.5	80	0	Dyna-Gro D55VC45	196.0	199.3	61.4	17.2	78	0
Brodbeck 49RA12	219.7		59.9	16.2	78	0	REV® 23BHR55™	194.1	184.1	60.7	15.1	79	0
Seed Consultants SCS1158YHR™	218.4	211.4	61.2	18.5	78	0	Pfister 74D2PC	193.0		61.1	16.3	86	0
NK Seeds NK1433	218.0	216.4	58.7	16.3	81	0	Hoegemeyer HPT 8572 AM	192.9	206.9	61.3	18.2	74	0
Dyna-Gro D54VC14	217.7		62.1	17.5	73	0	REV® 25BHR26™	192.2	197.2	63.1	17.3	80	0
Augusta 4465	216.6		60.5	16.9	66	0	AgriGold A6572VT2RIB	191.7	199.6	62.4	18.1	80	0
DEKALB DKC64-35RIB	216.5	175.6	62.1	18.2	77	0	Mission Seed Mex1548DGV2P	190.7		60.2	17.4	75	0
DEKALB DKC65-95RIB	216.2		62.2	18.5	83	0	Warren Seed DS 7513	190.4	199.4	59.9	15.5	84	0
AgriGold A642-59VT2RIB	215.6		59.9	17.2	85	0	REV® 25BHR89™	190.2		61.2	18.6	73	0
Wyffels W7696RIB	215.1	206.5	58.7	16.7	78	0	Seed Consultants SCS 1125YHR™	190.0	184.9	61.0	15.8	75	0
Pioneer P1316AM	214.7	214.7	61.1	16.8	84	0	Warren Seed DS 7915PE	189.2		61.3	16.9	85	0
Hoegemeyer HPT 8414 AM	214.4	220.3	59.5	17.0	78	0	FS InVISION FS 62TV1DG RIB	187.2		60.3	15.7	82	0
Pfister 75Y1PCR	214.3		58.4	17.4	67	0	Seed Consultants SCS 1136YHR™	183.8	203.9	63.0	17.6	89	0
Warren Seed DS 7215	214.1		58.4	15.8	76	0	Augusta 5464	182.0		60.4	17.1	75	0
AgriGold A645-10VT2RIB	213.7	199.0	61.6	18.0	80	0	Warren Seed DS 9913SSX	179.0	200.2	60.8	16.1	83	0
REV® 24BHR99™	213.2		60.9	17.8	81	0	Augusta 5065	173.5		62.6	18.8	72	0
Wyffels W7456RIB	212.9		61.1	16.6	82	0	FS InVISION FS 63ZV1 RIB	171.1		63.0	18.5	62	0
Brodbeck 49RA14	212.4		58.6	16.2	80	0	Caverndale CF853 VIP 3110	163.9		59.7	22.5	72	0
LG Seeds LG5663VT2RIB	211.6	206.1	61.8	17.4	83	0	Average	207.3	205.6	60.8	17.2	80	0
FS InVISION FS 64SV1 RIB	211.5		58.5	16.3	82	0	C.V.	8.7	9.4	1.1	4.3	10	0
FS InVISION FS 62ZX1 RIB	209.6		60.9	17.6	84	0	LSD	34.8	26.3	1.3	1.4	15	0
LG Seeds LG62C02VT2RIB	209.5		60.9	16.0	83	0	Medium varieties: 112-115 days to maturity						
Progeny Ag PGY7115VT2P	209.4		62.1	17.3	84	0	Shaded cells are not significantly different from top yield (0.10)						
Augusta 4463	208.2		60.4	16.9	77	0	Planted: April 19, 2018; Harvested: September 13, 2018						
Warren Seed DS 7414	208.1		59.7	17.4	77	0	Soil type: Mountview Silt Loam; Previous crop: Soybean; Fertilizer 290/150/150						

Table 14W. Simpson County, white, 2018.

Name	YIELD (BU/AC)			TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18	16-18				
Pioneer P1620WAM	230.0	222.7		63.7	18.7	75	0
Pioneer P1618WAM	224.2	210.5		62.8	17.7	82	0
Pioneer 32B16	215.6	206.1	212.5	61.7	18.8	83	0
Pioneer P1306WHR	211.1	208.3	210.0	63.2	18.6	72	0
Pioneer P1309WAM	209.3			63.5	17.8	76	0
Average	218.0	211.9	211.2	63.0	18.3	78	0
C.V.	5.1	5.1	7.2	1.2	1.5	12	0
LSD	26.4	16.1	18.0	1.7	0.6	21	0

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

Planted: April 19, 2018; Harvested: September 13, 2018

Soil type: Mountview Silt Loam; Previous crop: Soybean; Fertilizer 290/150/150

Table 14C. Simpson County, conventional, 2018.

Name	YIELD (BU/AC)		TWT (LB/BU)	MST (%)	STD (%)	LODG (%)
	2018	17-18				
DEKALB DKC64-32	234.5		61.7	18.0	77	0
Hoegemeyer HPT 8292	228.9		60.8	15.4	75	0
FS InVISION FS 62B00	228.8	218.9	60.6	17.0	73	0
REV® 25C26™	225.5		61.9	17.3	77	0
Pioneer P1197	223.6		60.4	14.3	80	0
FS InVISION FS 66Z00	222.5		61.5	17.4	75	0
DEKALB DKC61-52	220.3	218.6	61.1	17.5	77	0
REV® 23C55™	216.4		60.6	16.5	75	0
DEKALB DKC64-85	216.0	221.8	61.3	17.9	70	0
Pfister 68A1	215.7		59.4	14.3	68	0
FS InVISION FS 63Z00	215.3	207.5	63.2	17.9	77	0
Caverndale CF 855	212.0		62.5	19.2	75	0
Pfister 61H1	203.3		60.0	15.1	73	0
Pfister 2874CONV	202.8	206.7	59.0	15.0	74	0
Caverndale CF 870	168.2		59.9	23.6	80	0
Caverndale CF 790	168.0	181.1	61.0	18.9	70	0
Average	215.6	214.7	60.9	17.1	75	0
C.V.	6.3	7.4	1.2	4.8	9	670
LSD	27.3	22.1	1.4	1.7	14	0

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

Planted: April 19, 2018; Harvested: September 13, 2018

Soil type: Mountview Silt Loam; Previous crop: Soybean; Fertilizer 290/150/150

Table 15. Simpson County weather, 2018.

	Monthly Precipitation	Temperature Average
March	4.89	46.7
April	5.4	51.8
May	4.84	73.3
June	4.47	77.5
July	3.81	77.6
August	3.38	77.2
September	6.24	75.2

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