

# 2018 Kentucky Soybean Variety Performance Tests

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The Kentucky Soybean Variety Performance Tests are conducted to provide an unbiased and objective estimate of the relative performance of soybean varieties commercially available in Kentucky. This information may be used by growers and seed producers to aid in selecting varieties that will give the highest total production in a specific situation. Soybean cultivars in the 2018 tests were entered by soybean growers, commercial companies, and state and federal institutions.

Forty soybean tests were planted in 2018 in Kentucky at the eight test locations shown below. However, due to weed pressure, two sites were discontinued. Test locations, planting, and harvest dates are shown in Table 1.

### Methods

All tests were planted in a randomized complete block design by maturity group with a no-till plot planter (Haldrup SNT-25, 6-rows—Haldrup USA). The tests (Tables 6-11) had three replications (plots) for each variety. The individual plots were 20 feet long and six rows wide with 15 inches between rows. The seeding rate was four to five viable seeds per foot of row, at a planting depth of 1.5 inch. Table 2 is a seeding rate planting guide for full-season and double-crop soybeans. For additional research on seeding rates, see the Corn & Soybean News, Volume 6, Issue 2 ("Soy-

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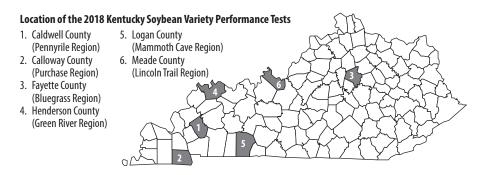
Table 1. Locations, planting, and harvest dates for the 2018 Kentucky Soybean Variety Performance Tests.

TEST SITE	REGION	COLLABORATORS	PLANTING DATE(S)	AG. PRACTICE	HARVEST DATES
Caldwell County	Pennyrile	Scott Peek: Farm Superintendent at the UK Reseach and Education Center, Princeton KY	MG II, III, IV Early, and V: 05/23 MG IV Late: 05/24	No-till	MG II & III: 10/18 MG IV: 10/22 MG V: 10/23
Calloway County	Purchase	Dr. Ferguson: Professor of Agronomy, Murray State University	05/22	No-till	MG II & III: 10/09 MG IV & V: 10/12
Fayette County	Bluegrass	C. Venard and B. Roberts: UK Spindletop North farm	05/09	No-till	MG II & III: 11/05 MG IV Early: 11/21 MG IV Late & V: 11/29
Hen- derson County	Green River	Mr. McIndoo: Soybean producer Camille Lambert: UK County Extension Agent for ANR	05/25	Vertical tillage	MG II, III & IV Early: 10/25 MG IV Late & V: 10/30
Logan County	Mammoth Cave	Ms. Halcomb: Soybean producer Leann Martin: UK County Exten- sion Agent for ANR	06/04	Vertical tillage	MG II & III: 10/23 MG IV &V: 10/24
Meade County	Lincoln Trail	Mr. Hager: Soybean producer Harry (Andy) Mills: UK County Extension Agent for ANR	05/21	No-till	All MG: 11/8

bean Population and Yield"), and Volume 7, Issue 4 ("Soybean Seed Rates"). The most recent research suggests that a final stand of 100,000 plants per acre is adequate for maximum yields in full-season soybeans in most situations. Seeding rates should be adjusted on standard germination rates as well as expected stand losses. Stand losses are typically more severe in damp, cool conditions with heavy residues or with soil crusting. Stand losses are typically less with warm conditions and adequate soil moisture. All test sites were treated with fertilizers, lime, and herbicides before planting following current IPM and fertilizer/lime recommendations (UK ID-249: A comprehensive Guide to Soybean Management in Kentucky). Seed source and varietal information are located on Page 5. Companies nominated their varieties and could choose to treat their seed with fungicides, insecticides, nematicides, beneficial organisms, and/or germination/ growth/systemic acquired resistance enhancers (Table 3). The treatment codes are provided in Table 4. The plots were maintained as weed-free as possible during the growing season. All plots were chemically end-trimmed to 16 feet.

Harvesting was done with a small plot combine (Wintersteiger Delta plot combine—Wintersteiger, USA) according to maturity. Sixteen feet of the four center rows were harvested from the plots.

Yield is reported in bushels (60 pounds) per acre adjusted to 13 percent moisture. An electronic weight and moisture monitor (HarvestMaster HM800 GrainGage system, Juniper Systems, Inc., USA) located on the combine was used for record weight and moisture readings for each plot. Data were collected with a field computer (Mirus Harvest Software, Juniper System Inc., USA) connected to the monitor, and analyzed with Agrobase GEN II statistical software (Agronomix Software Inc., Canada).



**Lodging** was recorded at harvest at all test sites. Lodging was rated on a scale of 1 to 5, where:

- 1 = almost all plants erect;
- 2 = all plants over slightly, or a few down;
- 3 = all plants over moderately, or 25% down;
- 4 = all plants over considerably, or 50% to 80% down;
- 5 = all plants down.

**Maturity date.** Maturity dates were recorded at the Fayette County location. A variety was considered mature when 99 percent of the pods have turned their normal mature color. One to two weeks of good drying weather may be needed beyond the date given before ready to combine.

**Plant height** was measured in inches from the soil surface to the tip of the main stem. Plant height was recorded at the Fayette County location, at harvest.

**Disease ratings.** Diseases may cause yield loss if soybean plants are infected prior to flowering. Planting disease-resistant or disease-tolerant varieties will help eliminate this possible yield loss. Growers should review Table 3, "Company Specifications," for disease resistance/tolerance ratings. In addition to the company specifications, the test plot fields were scouted every other week during the soybean growing season for diseases. During the 2018 season, frogeye leaf spot (FLS) was observed at all of the Kentucky Soybean Variety Performance Test sites, passed August 15. Stem canker (not formally confirmed) and Cercopsora leaf blight were also observed sporadically at the Fayette County location. Due to warm and wet conditions in September and early October, seed decay, including Phomopsis seed disease, was observed at all test sites except for Calloway County.

**Protein, oil.** Variety protein and oil concentrations are reported on the basis of 13 percent moisture. The 2018 samples were collected at the Fayette County, Caldwell County, and Calloway County, and analyzed with a NIR spectrophotometer (DA 7250, Perten Instruments, Sweden). The data were analyzed with Agrobase GEN II statistical software.

## Interpretation

An important step in profitable soybean production is selecting the best varieties for each management system. The Kentucky Soybean Variety Performance Tests are conducted to provide information useful in making this selection.

Performance of soybean varieties is affected by many factors, including year, location, soil type, and time of planting. A particular soybean variety is adapted for full-season growth in a band approximately 100 miles wide from north to south. Thus, the best variety in Northern Kentucky may not be the best in southern areas. For this reason, the Kentucky Soybean Variety Performance Tests are conducted at several locations in the major soybean-producing areas of the state. The yields as reported in this publication should be used for relative comparisons; actual yields on a grower's farm may be different.

Performance of soybean varieties will vary from year to year and from location to location depending on adaptability, weather conditions, and management practices. Performance of a variety across a period of years and at several locations in the state is the best indicator of its production potential (see the University of Kentucky publication Agronomy Notes, Volume 21, No. 3, "Using Performance Test Results in Soybean Variety Selection in Kentucky," and UK ID-249). The data presented in Table 5, State Summary—Recommended Table, have been averaged across 2016-2018 full-season years and locations, and are recommended to evaluate variety relative performances. This table is also recommended for selecting varieties for maximum yield in double-crop systems in Kentucky. Better yielding full-season varieties are also the better-yielding doublecrop varieties (Pfeiffer, Todd 1987. Applied Agricultural Research, Vol. 2, No. 3, pages 141-145). The full-season environment that maximizes yield is a better indicator of performance than late-planted soybeans that have reduced yields. The data from three full-season tests, analyzed across years and locations, predict performance of a variety more accurately than a single, full-season, or double-crop test.

Small differences in yield are usually of little importance. The yield of two varieties at a single location can differ because of chance factors (difference in soil characteristics, fertility, or availability of moisture), although the inherent yielding ability is the same. To decide if an observed yield difference is real, the least significant difference (LSD) values cited at the bottom of each maturity group should be used. The significance level in the tables 5-13 is 0.10. If the difference in yield between two varieties is greater than the LSD value, it is reasonable to assume that the varieties do differ in yielding ability.

Yield is only one factor to consider in selecting a variety for a production system. Oil and protein contents, date of maturity,

lodging resistance, disease resistance, availability of time and equipment, economic management and weed control costs need to be considered as well.

Varieties with oil and protein levels that are eligible for premium prices are available in some markets. Oil and protein levels are influenced by variety and weather (primarily temperature) during seed filling (see UK's Corn & Soybean Newsletter, Volume 6, Issue 1, "Soybean Oil and Protein," and UK ID-249). We recommend that growers create a list of varieties that meet their needs for agronomic characteristics: yield, maturity group, soybean cyst nematode resistance, etc. Then, using the protein and oil data from Table 5, they should remove from consideration the varieties with below-average oil and protein percentages from their list, and select from the remaining ones those that have the highest average concentrations. This approach should help selecting varieties that have the best chance of producing acceptable yield and meets the oil and protein standards.

The data provided have been divided into maturity groups based on the information provided by the seed sources (Table 3). Due to weather patterns at a location, maturity alone can affect yield; this impact will be reflected by large differences in the maturity group averages. Selecting varieties from several maturity groups can reduce the impact of these maturity group fluctuations (see UK's Agronomy Notes, Volume 25, No. 3, "Growing Soybean Varieties from Multiple Maturity Groups Can Reduce Yearly Yield Volatility," and UK ID-249). The date of a 50 percent chance of a fall killing frost is important in determining which variety should be planted. The dates, presented along with tables 6 to 13, are average dates over a long term. Actual dates will vary from year to year. For the dates of a one-year-outof-10 chance of a fall killing frost, subtract 13 to 18 days from the average dates. For maximum yield, a variety must mature before the first killing frost in the fall.

In case of known soybean cyst nematode (SCN) problems, a resistant variety should be used in the production system with a recommended crop rotation program. Planting resistant varieties should be considered as the number of acres affected by SCN in Kentucky has increased. SCN occurs in at least 51 Western Kentucky counties. Low levels of SCN show few visible symptoms but can cause yield losses of up to 25 percent. Fields should be tested for SCN. Producers should contact their local University of Kentucky County Extension

office for more information on collecting and submitting samples (https://plantpathology.ca.uky.edu/extension/soybeancyst-nematode).

## Growing Conditions and Special Circumstances—2018

February 2018 was a volatile month with everything from temperatures in the teens to temperatures in the 80s; snow; tornadoes; and a major flood. Most of the first 12 days of the month were colder than normal. Several snow storms passed quickly through the region early in the month, but amounts were generally under an inch for each one. The rest of the month was warmer than normal. Warm temperatures came in two waves, one from the 14th to the 16th with temperatures climbing in the 60s and 70s, and one from the 19th to the 25th with widespread rain, from the 21st to the 25th. By the end of the month, the region had accumulated more than twice the amount of normal precipitation. This led to significant flooding. The powerful storm on the night of the 24th brought copious amounts of rain and seven tornadoes to Central Kentucky.

A cold, wet pattern persisted for much of March, which resulted in several snowy systems passing through the region. The most significant snows fell from the 11th to the 13th, with 6 to 10 inches falling of snow in the Bluegrass on the 12th. Another snowy system came through on the 20th-21st. Then on the 24th, a stripe of snow stretched from North Dakota to the Appalachians. In addition to the cold, flooding that peaked in February lingered into the first few days of March, and minor flooding returned by the end of the month. In Western Kentucky, temperature averages were 1 to 3 degrees cooler than normal and precipitation was generally near to slightly wetter than normal. Precipitation varied with heavy rain during the last week of the month.

Overall, April 2018 was not particularly active. The evening of the April 3, 2018, brought the only active weather event of the month. A cold front brought several rounds of showers and storms to the Louisville region. Straight-line winds of 75-95mph felled trees and damaged structures in the counties of Grayson, Hardin, Edmonson, and LaRue. Two small, brief EF1 tornadoes were recorded in Grayson County and in Boyle County, and 11 tornadoes were recorded in the Paducah region. Hail fell from some of the strongest storms, with hailstones the size of golf balls reported in several locations. Temperature were much cooler than normal. Every day from the 4th to the

11th was colder than normal. On the 6th, a cold front passed through the region from north to south. The next day low pressure and cold air behind the front resulted in snowfall for southern Indiana and Central Kentucky. The next cold wave came midmonth and brought more snow with it. On the 16th snowflakes flew, though most of them melted when they came in contact with the warm ground. The 16th was also significant as the average daily temperature was 18 to 23 degrees below normal. April was wetter than normal across the Jackson Purchase area of Western Kentucky. Heavy rain occurred from the night of April 22 into the day of April 24, resulting in amounts of 3 to 5 inches across much of the Jackson Purchase area of Western Kentucky into far southern Illinois.

In May, every single day of this month was warmer than normal in Louisville, Lexington, Bowling Green, and Frankfort, resulting in the warmest May this area has ever recorded. After a chilly April that felt more like March at times, the switch was flipped on May 1. Temperatures were well above normal, ranging from 7 to 8 degrees above normal across the region. Temperatures were more reminiscent of June with high temperatures consistently in the mid-80s to around 90 degrees. As for rainfall, it varied quite a bit across the region due to the nature of warm season precipitation. Some locations would get dumped on while a couple miles down the road observed very little from an individual shower or storm. Generally though, more areas experienced wetter than normal conditions for May. This was especially true across large sections of Western Kentucky. There were several days in which scattered thunderstorms resulted in a few large hail or damaging wind reports. The remnants of Tropical Storm Alberto impacted the region from May 28 to 30, a rare occurrence for so early in the season. However, the only really active day came on May 31, with the storms causing widespread damaging winds and flash flooding as they moved into southwest Indiana and northwest Kentucky during the morning and early afternoon hours. Several more waves of storms during the afternoon and evening hours were accompanied by large hail, damaging winds, flooding, and a few tornadoes.

June was a very warm month in Central Kentucky and southern Indiana. Temperatures were slightly above normal on any given day, through most of the month. No significant heat waves struck and no record highs were met. The warmest temperatures

were from the 17th to the 19th when daily average temperatures were about 8 to 10 degrees above normal. Scattered summertime thunderstorms delivered rainfall to the region. With those scattered storms came occasional severe weather, usually in the form of gusty winds. The most significant thunderstorms came on the 25th and 26th as several rounds of intense storms rolled through the region, with tornadoes touching down in Ohio, Edmonson, and Jefferson counties.

July was marked by a very lengthy and widespread severe weather event lasting from the 20th to the early morning hours of the following day as multiple rounds of storms pushed through the region. There were dozens of reports of strong winds and large hail. Four tornadoes touched down between 2pm and 10pm on the 20th. The rest of the month was fairly quiet with regards to severe weather. The only other significant event was on the 5th when thunderstorms developed in a very unstable atmosphere and generated locally gusty winds south of the Ohio River. There were few extreme temperatures during the month. The hottest days were the 4th and 5th when the mercury reached the middle and upper 90s.

Humidity levels were quite high this summer, especially during June and July. August was warm and wet, though there was very little severe weather. As is common with summertime precipitation it varied quite a bit across the region. This is largely due to the scattered nature of convective precipitation in the warm season. The strongest storms came on the evening of the 15th when a small squall line moved up the Ohio River. A drier than normal summer was observed across much of the Jackson Purchase area of western Kentucky, portions of southeast Illinois, and western portions of southwest Indiana. The most pronounced dryness was across portions of Carlisle, McCracken, Graves, and Hickman counties, where radar estimates showed less than 7 inches occurring for the entire summer. Though the month ended up on the warm side of normal, no individual day was more than 9 degrees warmer or cooler than normal.

September 2018 was the third wettest September on record for the Bluegrass State. The state averaged 8.12 inches, which was almost five inches above normal. The Bluegrass Region itself averaged 10.33 inches. The intense rainfall started with the remnants of Tropical Storm Gordon working through the area between Septem-

ber 5th and 9th. Widespread showers and storms led to several bouts of flash flooding and rivers rising into the minor flood stages. Gordon was followed by another tropical system a week later as Florence worked through Eastern Kentucky. Rainfall was less widespread and confined mainly to eastern half of the state. An active pattern remained for the second half of the month. Thunderstorms developed within an unstable atmosphere on the 21st with the passage of a cold front, producing heavy rain and signaling the start of a very active week with daily rounds of rainfall. Between the 21st and 27th, the state averaged over four inches. Already saturated grounds led to continued flooding issues, especially across the southern Bluegrass and northeastern Kentucky.

After an exceptionally wet September, in October the axis of the heavy rains shifted south. Greater than normal rainfall amounts were reported from the region east to Lake Cumberland and northeast into the southern Bluegrass counties. On the 4th a localized downpour dropped almost three and a half inches of rain. The first week and a half of the month was unusually warm, especially at night with temperatures almost feeling like August during the first 10 days. Each day from the 1st to the 10th was 10-20 degrees warmer than normal. On the 11th a cold front swept through the region and ushered in a much cooler than normal regime, making it feel more like November during the middle of the month, before finally warming up some during the last week.

Though strong storm systems affected other parts of the country during November, conditions were fairly quiet in southern Indiana and Central Kentucky. Thunderstorms took place before dawn on the 6th as a broken line of storms moved through with 40-50mph winds. The first and last weeks of the month were warm, with seasonable temperatures in between. The coldest days of the month started on the 22nd when lows were in the 20s with highs generally in the 30s. That cold air brought the region the first flurries of the month.

More detailed precipitation and temperature information for each test location is provided next to tables 6-11, in the sections Agronomic Information. Sources: UKAg Weather Center (http://weather.uky.edu/ky/climate.php and /annuals.shtml); KY Mesonet (http://www.kymesonet.

org/historical\_data.php); and the National Weather Service (https://www.weather.gov).

## Soybean Production Information

This is publication PR-758 of the Kentucky Agricultural Experiment Station and is published with the approval of the Director.

The University of Kentucky and its Cooperative Extension Service offers a series of publications, blogs, websites which contains a more detailed information for soybean and grain production practices:

- KyGrains.info—The Farmer's Resource for Grain production in Kentucky
- UK ID-249—A Comprehensive Guide to Soybean Management in Kentucky
- UK soybean Variety Performance Trials: http:// pss.ca.uky.edu/extension/ soybean-variety-trials
- Kentucky Pest Newsletter: http://plantpathology. ca.uky.edu/extension/kpn

As of November 8, 2018, soybean production for Kentucky was forecast at 107 million bushels, up 5 percent from 2017. Yield was estimated at 54 bushels per acre. Acreage for harvest was estimated at 1.99 million acres, up 50,000 acres from 2017. (Source: November Crop Production—News Release USDA, NASS, Kentucky Field Office, November 8th, 2018).

### Kentucky State Seed Law

The Kentucky State Seed Law requires all seed exposed, offered for sale, or sold in Kentucky to be labeled as to a) kind and variety for each agricultural seed component present in excess of 5 percent of the whole, and b) the percentage by weight of each component. All soybean seed blends should be labeled as to the percentage of each variety that makes up the mixture. All soybean seed must be labeled by variety name; the term "variety unknown" may no longer be used in place of a variety designation for soybeans.

Table 2. Planting guide for full-season and double-crop soybeans.

Full-season soyl	beans					
			Final seeding	Ro	w spacing (i	1.)
Target stand	Germination	Assumed	rate (seeds/	7.5	15	30
plant/acre	rate	stand loss	acre)	S	eeds per foo	t
100,000	95%	5%	110,803	1.6	3.2	6.4
		10%	116,959	1.7	3.4	6.7
		20%	131,579	1.9	3.8	7.6
		30%	150,376	2.2	4.3	8.6
	90%	5%	116,959	1.8	3.4	6.7
		10%	123,457	1.8	3.5	7.1
		20%	138,889	2.0	4.0	8.0
		30%	158,730	2.3	4.6	9.1
	85%	5%	123,839	1.8	3.6	7.1
		10%	130,719	1.9	3.8	7.5
		20%	147,059	2.1	4.2	8.4
		30%	168,067	2.4	4.8	9.6
Double-crop soy	/beans					
			F. 1	Ro	w spacing (i	1.)
Target stand	Germination	Assumed	Final seeding rate (seeds/	7.5	15	30
plant/acre	rate	stand loss	acre)	S	eeds per foo	t
140,000	95%	5%	155,125	2.2	4.5	8.9
		10%	163,743	2.3	4.7	9.4
		20%	184,211	2.6	5.3	10.6
		30%	210,526	3.0	3.0	12.1
	90%	5%	163,743	2.3	7.4	9.4
		10%	172,840	2.5	5.0	9.9
		20%	194,444	2.8	5.6	11.2
		30%	222,222	3.2	6.4	12.8
	85%	5%	173,375	2.5	5.0	10.0
		10%	183,007	2.6	5.3	10.5
		20%	205,882	3.0	5.9	11.8
		20%	203,002	5.0	3.7	11.0

## **Acknowledgments**

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- This work is also supported by the National Institute of Food and Agriculture, US Department of Agriculture, Hatch Project KY006099 under accession number 101341
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### Contact

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## **Variety Performance Tests Website**

The University of Kentucky Grain Crops website (http://graincrops.ca.uky.edu/) provides links to all Kentucky variety test publications and related resources (http://graincrops.ca.uky.edu/variety-testing). This site includes a link to the Soybean Variety Performance Tests website (http://pss.ca.uky.edu/extension/soybean-variety-trials).

## **Sources of Seeds**

The seeds planted in the 2018 Soybean Variety Performance Tests were acquired from the following sources:

#### **AgriGold Hybrids**

AGRIGOLD G2900KX
AGRIGOLD G2900KX
AGRIGOLD G4995RX
AGRIGOLD G4995RX
AGRIGOLD G4995RX
AGRIGOLD G4995RX
AGRIGOLD G4995RX

#### **Armor Seed**

ARMOR 35-D20 ARMOR X35D92 ARMOR 45-D50 ARMOR 39-D39 ARMOR X40D85 ARMOR X46D63 ARMOR 42-D27 ARMOR X41D47 ARMOR 47-D22 ARMOR 29-D11 ARMOR 45-D43 ARMOR 49-D13 ARMOR X30D53 ARMOR X44D36 ARMOR X51D77

## **BASF Agriculture (formerly Bayer Crop Science)**Lucas Owen .......731-793-353

 Lucas.owen@agro.basf-se.com

 CZ 3601 LL
 CZ 4308 LL
 CZ 4918 LL

 CZ 3841 LL
 CZ 4548 LL
 CZ 4938 LL

 C7 4105 LL
 C7 4748 LL
 HBK LL 4950

CZ 4222 LL CZ 4820 LL HBK LL4953

Baver (formerly Monsanto)

Dr. Glen Murphy.......502-377-5053 264 Persimmon Ridge Drive, Louisville, KY 40245 glen.p.murphy@monsanto.com

ASGROW AG28X9
ASGROW AG43X7
ASGROW AG29X8
ASGROW AG36X6
ASGROW AG37X9
ASGROW AG37X9
ASGROW AG37X9
ASGROW AG39X7
ASGROW AG39X7
ASGROW AG49X9
ASGROW AG42X9

#### **Brodbeck Seeds LLC**

Dennis A Wickham......614-753-0215 15 Ringel Ave., Wabash, IN 46992 wickham@brodbeckseed.com

BRODBECK 368R2 BRODBECK 446R2 BRODBECK 388R2

#### **Caverndale Farms Brand Seed**

Barry Welty .......859-236-2150 1921 Bluegrass Pike, Danville KY 40422

bwelty@kywimax

CAVERNDALE CF 364 STSn CAVERNDALE CF 387 HT-GLYn CAVERNDALE CF 427 HT-GLY/STSn CAVERNDALE CF 478 RR2Y/STSn

#### **Channel Seed**

Whitney Monin...... 515-314-8834 250 Dogwood Drive, Beaver Dam, KY 42320

whitney.monin@channel.com CHANNEL 3718R2X CHANNEL 4517R2X CHANNEL 4218R2X CHANNEL 4717R2X

## Corteva™ agricscience / DowDuPont-Pioneer™

George Stabler .......803-308-1003 425 Abbeydale Way, Columbia, SC 29229 George.Stabler@pioneer.com

PIONEER P36T36X
PIONEER P46A16R
PIONEER P40A47X
PIONEER P40A47X
PIONEER P42A96X
PIONEER P44A08L
PIONEER P44A72BX
PIONEER P44A72BX

#### **Dyna Gro Seed**

Mick Schonauer .......614-620-5008 615 Hillliard Rome, Columbus OH 43228 michael.schonauer@cpsaqu.com

DYNA-GRO S39XT08
DYNA-GRO S39XT68
DYNA-GRO S41XS98
DYNA-GRO S42S97
DYNA-GRO S42XS78
DYNA-GRO S48XT56
DYNA-GRO S43XS27

#### Growmark, Inc.

#### **Hoegemeyer Hybrids**

HOEGEMEYER HPT 4211 NX HOEGEMEYER HPT 4511 NX HOEGEMEYER HPT 4522 NR HOEGEMEYER HPT 4922 NRB

#### **LG Seeds**

LG SEEDS C4227RX LG SEEDS LGS4597RX LG SEEDS C4710RX LG SEEDS LGS4624RX LG SEEDS C4845RX LG SEEDS LGS4989RX

#### **Mission Seed Solutions**

Will.scott@pinnacleag.com
Bryan.olivi@pinnacleag.com

A4447NSXR2 MISSION A4608X A4637NSXR2 MISSION A4950X

#### NK Seed

#### **Progeny Ag Products**

John Rocconi......979-587-9968 1529 HWY 193, Wynne AR 72396 JohnR@progenyag.com

PROGENY 4255 RX PROGENY 4851 RX PROGENY 4318 RX PROGENY 4955 RX PROGENY 4444 RXS PROGENY 4994 RX PROGENY 4570 RXS PROGENY 5016 RXS PROGENY 4620 RXS PROGENY 5018 RX PROGENY 4757 RY PROGENY 5157 RXS PROGENY 4799 RXS PROGENY 5226 RYS PROGENY 4816 RX PROGENY 5252 RX PROGENY 4821 RX PROGENY 5279 RXS

## Seed Consultants, Inc.

SEED CONSULTANTS SC 8379X<sup>™</sup>
SEED CONSULTANTS SC 8399X<sup>™</sup>
SEED CONSULTANTS SC 8439X<sup>™</sup>
SEED CONSULTANTS SCS 9385RR<sup>™</sup>
SEED CONSULTANTS SCS 9393RR<sup>™</sup>
SEED CONSULTANTS SCS 9469BR<sup>™</sup>

#### **Stewart Seeds**

Justin Petrosino......800-365-SEED 2230 E CR 300 N, Greensburg, IN 47240

Justin.petrosino@stewartseeds.com

STEWART 4029R2X STEWART 4527R2X

STEWART 4228R2X STEWART 4619R2X

STEWART 4327R2X STEWART 4927R2X

STEWART 4339R2X STEWART 4939R2X

STEWART 4438R2X

#### Stine Seed Company

STINE 40BA02 STINE 48BA23

#### **Stratton Seed Company**

hnorth@strattonseed.com

AGS GS46X17 GO SOY 43C17S GO SOY E4510S AGS GS48X18 GO SOY 49G16 GO SOY IREANE

#### **Terral Seed Inc.**

Marty Hale......318-341-8814 117 ellington Drive, Rayville, LA 71269

#### **UniSouth Genetics**

mhale@terralseed.com;

#### **Warren Seed and Agronomy Service LLC**

WARREN SEED BG 3821 RR2X WARREN SEED BG 4210 RR2X WARREN SEED BG 4322 RR2X WARREN SEED BG 4510 RR2X WARREN SEED BG 4842 RR2X WARREN SEED BG 4911 RR2X WARREN SEED BG 4922 RR2X

#### **University of Missouri**

UNIVERSITY OF MISSOURI MO5201D CONV UNIVERSITY OF MISSOURI S11-20242C UNIVERSITY OF MISSOURI S13-10590C UNIVERSITY OF MISSOURI S13-10592C UNIVERSITY OF MISSOURI S13-1955C UNIVERSITY OF MISSOURI S13-2743C UNIVERSITY OF MISSOURI S13-3851C UNIVERSITY OF MISSOURI S14-15138R UNIVERSITY OF MISSOURI S14-15146R UNIVERSITY OF MISSOURI S14-9017R UNIVERSITY OF MISSOURI S14-9051R UNIVERSITY OF MISSOURI S14-9051R UNIVERSITY OF MISSOURI S15-10434C

#### **University of Kentucky**

Dr. Todd Pfeiffer, Dr. Claire Venard ......... 859-257-2993 N122 Ag. Science Center North, Lexington KY 40546-0091

cvenard@uky.edu

ESSEX (long term check-release 1974) PENNYRILE (long term check-release 1987)

## Table 3. Company specifications for entries in the 2018 Kentucky Soybean Variety Performance Tests. A

					Disease	e Resistance Tra	its <sup>C</sup>			
	Realtive		Soybean	Phytoph	tora Sojae <sup>D</sup>	Sudden	Soybean		Other	
Variety/Brand Name	Maturity	Туре	Cyst Nematode	R gene Rps	Field Tolerance	Death Symdrome	Mosaic Virus	Stem Canker	Resistance Traits	Seed Treaments
A4447NSXR2	4.4	R2Y, Xtend, STS	R3, MR14	Rps 1c	2.0	MR	R	MR2	Column3	23
A4637NSXR2	4.6	R2Y, Xtend	R3, MR14	Rps 1c	1.8	MR	R	MR		23
AGRIGOLD G2900RX	2.9		R3, MR14, PI88	1c	9	9		unknown		2, 15, inoculant
AGRIGOLD G3520RX	3.5		R3, MR14, PI88	1c	9	9		R		2, 15, inoculant
AGRIGOLD G3722RX	3.7		R3, MR14, PI88	1c	8	7		unknown		2, 15, inoculant
AGRIGOLD G4190RX	4.1		R3, MR14, PI88	none	8	8		MR		2, 15, inoculant
AGRIGOLD G4380RX	4.3		R3, MR14, PI88	1c	7	8		R		2, 15, inoculant
AGRIGOLD G4440RX	4.4		R3, MR14, PI88	1c	9	8		S		2, 15, inoculant
AGRIGOLD G4579RX	4.5		R3, MR14, PI88	1c	8	9		R		2, 15, inoculant
AGRIGOLD G4685RX	4.6		R3, MR14, PI88	1c	8	7		R		2, 15, inoculant
AGRIGOLD G4705RX	4.7		R3, MR14, PI88	1c	8	9		R		2, 15, inoculant
AGRIGOLD G4995RX	4.9		R3, MR14, PI88	none	9	9		R		2, 15, inoculant
AGS GS46X17	4.6	Х	3, 14		MT	MR		R		3, 6, 21, 27
AGS GS48X18	4.8	Х	3, 14		MT	MS		R		3, 6, 21, 27
ARMOR 35-D20	3.5	Xtend	- 7							9
ARMOR 39-D39	3.9	Xtend								9
ARMOR 42-D27	4.2	Xtend								9
ARMOR 29-D11	2.9	Xtend								9
ARMOR X30D53	3.0	Xtend								9
ARMOR X35D92	3.5	Xtend								9
ARMOR X40D85	4.0	Xtend								9
ARMOR X41D47	4.1	Xtend								9
ARMOR 45-D43	4.3	Xtend								9
ARMOR X44D36	4.4	Xtend								9
ARMOR 45-D50	4,5	Xtend								9
ARMOR X46D63	4.6	Xtend								9
ARMOR 47-D22	4.7	Xtend								9
ARMOR 49-D13	5.0	Xtend								9
ARMOR X51D77	5.1	Xtend								9
ASGROW AG28X9	2.8	RR2X	R3	С	Т	MR				1
ASGROW AG29X8	2.9	RR2X	R3	C	MT	MR				1
ASGROW AG36X6	3.6	RR2X	R3	C	T	MR		R		1
ASGROW AG37X9	3.7	RR2X	R3	A	Ť	MR		R		1
ASGROW AG38X8	3.8	RR2X	R3	C	Ť	MR		R		1
ASGROW AG39X7	3.9	RR2X/SR	R3	C	MT	MR		MR		1
ASGROW AG41X8	4.1	RR2X/SR	R3	C	MT	MR		R		1
ASGROW AG42X9	4.2	RR2X	R3	A	T	MR		R		1
ASGROW AG43X7	4.3	RR2X/SR	R3	A	MT	MS		R		1
ASGROW AG44X6	4.4	RR2X	R3	C	MT	MR		R		1
ASGROW AG44X6	4.6	RR2X	R3	A	T	MS	+	MR		1
ASGROW AG47X6	4.7	RR2X/SR	R3	C	MT	MS		R		1
ASGROW AG47X9	4.7	RR2X	R3	A	MS	MS		R		1
ASGROW AG47X9	4.7	RR2X/SR	R3	C	T	MS		R		1
ASGROW AG46X9	4.6	RR2X/SR	R3	C	T	MS		R		1
BRODBECK 368R2	3.6	RR2Y	MR3, MR14	1c	MR	MS		n		14, 12, 15, 16, 17

Table 3. Company specifications for entries in the 2018 Kentucky Soybean Variety Performance Tests.<sup>A</sup>

Table 3. Company specifications for entries						e Resistance Trai	itsC			
	Realtive		Soybean	Phytoph	tora Sojae <sup>D</sup>	Sudden	Soybean		Other	
Variety/Brand Name	Maturity Group	Туре	Cyst Nematode	R gene Rps	Field Tolerance	Death Symdrome	Mosaic Virus	Stem Canker	Resistance Traits	Seed Treaments
BRODBECK 388R2	3.8	RR2Y	MR3, MR14		Т	MT				14, 12, 15, 16, 17
BRODBECK 446R2	4.4	RR2Y	MR3, MR14	1c	T	MT				14, 12, 15, 16, 17
CAVERNDALE CF 364 STSn	3.6	CONV	3, 14	1k	T	MR		MR	MR-FELS	9, 25, 19
CAVERNDALE CF 387 HT-GLYn	3.8	RR	3, 14	1c	T	MR		MR	MR-FELS	9, 25, 19
CAVERNDALE CF 427 HT-GLY/STSn	4.2	RR	3, 14	1c	<u> </u>	MR		MR	MR-FELS	9, 25, 19
CAVERNDALE CF 478 RR2Y/STSn	4.7	RR2Y	3, 14	1c	T	MR		MR	MR-FELS	9, 25, 19
CHANNEL 3718R2X CHANNEL 4218R2X	3.7 4.2	RR2X RR2X	R3 R3		T MS	MT MT		MT MT		3, 1, 21, 5 3, 1, 21, 5
CHANNEL 4210R2X	4.2	RR2X	R3		T	MT		T		3, 1, 21, 5
CHANNEL 4717R2X	4.7	RR2X	R3		Ť	MT		MT		3, 1, 21, 5
CZ 3601 LL	3.6	LL	4	Rps1a	MR	T		T		21, 15
CZ 3841 LL	3.8	LL	2	Rps1a	MR	MR		R		21, 15
CZ 4105 LL	4.1	LL	3	Rps1a	MR	MR		Т		21, 15
CZ 4222 LL	4.2	LL/STS	3	Rps1a	MR	Т		T		21, 15
CZ 4308 LL	4.3	LL	3	Rps1k	T	T				21, 15
CZ 4548 LL	4.5	LL/STS	3	Rps1k	T	MT				21, 15
CZ 4748 LL	4.7	LL	3	Rps1a	T	MR		R		21, 15
CZ 4820 LL	4.8	LL	2	Rps1a	T	T		_		21, 15
CZ 4918 LL	4.9	LL	3	Rps1a	T	T		T		21, 15
CZ 4938 LL	4.9	LL Vt l	MD2 MD47	Rps1k	T	MR		T	F 142	21, 15
DYNA-GRO S39XT08	3.9	Xtend	MR3, MR14	Rps 1c	MT	MR		MR	Frogeye - MR	12,6
DYNA-GRO S39XT68 DYNA-GRO S41XS98	3.9 4.1	Xtend XT/STS	MR3, MR14 MR3, MR14	None	MT MT	MR R		R MR		12, 6 12, 6
DYNA-GRO S4209N	4.1	CONV	MR3, MR14 MR3, MR14	None Rps 1c	MT	MR		R		12,6
DYNA-GRO S43XS27	4.2	XT/STS	MR3, MR14	Rps 1c	MT	MR		MS	Frogeye - MR	12, 6
DYNA-GRO S44XS68	4.4	XT/STS	MR3, MR14	Rps 1c	MS	MR		R	Frogeye - R	12, 6
DYNA-GRO S46XS87	4.6	XT/STS	MR3, MR14	Rps 1c	MT	MR		R	Frogeye - MR	12, 6
DYNA-GRO S48XS78	4.8	XT/STS	MR3, MR14	Rps 1c	MT	MS		MS	Frogeye - R	12, 6
DYNA-GRO S48XT56	4.8	XT/STS	MR3, MR14	Rps 1a	MT	R		R		12, 6
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Froegeye - MR	, -
ESSEX (long term check-release 1974)	5.0	CONV-PUB								
GO SOY 43C17S	4.3	CONV/STS	3, 14		MT	MR		R		4, 7, 26, 27
GO SOY 49G16	4.9	GT	1, 3, 5, 14		MT	MR		R		4, 7, 26, 27
GO SOY E4510S	4.5	CONV/STS	3, 14		MT	MR		R		4, 7, 26, 27
GO SOY IREANE	4.9	CONV	2, 5	D1 -	MT	R		R		4, 7, 26, 27
HBK LL4950	4.9	LL	2	Rps1c	T	MS MT		R		21, 15
HBK LL4953 HOEGEMEYER HPT 4211 NX	4.9 4.2	Xtend	1 PI88788	Rps1k 1k	MS	MT	NA	R NA		21, 15
HOEGEMEYER HPT 4211 NX	4.2	Xtend	PI88788	none	S	MT	NA NA	NA NA		14, 12, 20, 16 14, 15, 12, 20, 16
HOEGEMEYER HPT 4511 NX	4.5	RR	PI88788	1k	MS	MT	NA NA	NA		14, 12, 20, 16
HOEGEMEYER HPT 4922 NRB	4.9	RR/STS	PI88788	1k	S S	MT	NA NA	NA		14, 15, 12, 20, 16
HS 45X80	4.5	RR2 Xtend	3, 14	Rps 1c	MT	MT	NR	R		1, 15
HS 46X60	4.6	RR2 Xtend	3,14	Rps 1c	MT	MR	NR	R		1, 15
HS 48X70	4.8	RR2 Xtend	3, 14	Rps 1c	MT	MR	NR	R		1, 15
HS 49X60	4.9	RR2 Xtend	3, 14	Rps 1a	MT	MR	NR	R		1, 15
LG SEEDS C4227RX	4.2	Xtend, STS	M3, MR14	none	Т	R		MR		6, 27
LG SEEDS C4710RX	4.7	Xtend	M3, MR17	1c	TOL	MS		R		6, 27
LG SEEDS C4845RX	4.8	Xtend	M3, MR18	1c	TOL	R		R		6, 27
LG SEEDS LGS4597RX	4.5	Xtend	M3, MR15	1c	TOL	MR		R		6, 27
LG SEEDS LGS4624RX	4.6	Xtend	M3, MR16	1a	TOL	MR		MR		6, 27
LG SEEDS LGS4989RX	4.9	Xtend	M3, MR19	1a	TOL	N/A	_	R		6, 27
MISSION A4608X	4.6	R2Y, Xtend, STS	R3, MR14	Rps 1a	2.0	R	R	MR		23
MISSION A4950X PENNYRILE (long term check-release 1987)	4.9	R2Y, Xtend	R3, MR14	NG	1.5	R	R	R		23
PIONEER P36T36X	4.7 3.6	CONV-PUB RR2X	3, 14	1c	MT-5	MR-8			FLS - MT - 5	2,14
PIONEER P37A78X	3.8	RR2X	3, 14	1a	MT-6	MT-7				2, 14
PIONEER P40A47X	4.0	RR2X	3, 14	1k	MT-5	MT-6				2, 14
PIONEER P42A96X	4.0	RR2X	3, 14	1c	MT-5	MT-6			FLS - MT - 6	2,14
PIONEER P44A08L	4.4	LL	3, 14		MT-7	MT-5			FLS - MT - 5	2,14
PIONEER P44A72BX	4.4	Bolt, RR2X	3, 14		MT-5	MT-5			FLS - MR - 7	2,14
PIONEER P46A16R	4.6	RR	3, 14		MS-4	MT-6				2,14
PIONEER P46A57BX	4.6	Bolt, RR2X	3, 14		MS-4	MT-6				2, 14
PIONEER P47A76L	4.7	LL	3, 14		MS-4	MT-5			FLS - MR - 8	2, 14
PIONEER P48A60X	4.8	RR2X	3, 14		MS-4	MT-7				2, 14
PIONEER P50A85X	5.0	RR2X	3, 14		MT-5	MT-5			FLS - MT - 5	2, 14
PROGENY 4255 RX	4.2	R2X	R-3, MR-14		Field Toler-	MR/MS		Suscep-		21, 26, 15
DDOCENIV 4210 BY	4.2	Day		1 -	ance	-		tible		21 26 15
PROGENY 4318 RX	4.3	R2X	unknown	1c		AAD /AAC		R		21, 26, 15
PROGENY 4444 RXS	4.4	R2X, STS	R-3, MR-14	HRps 1c		MR/MS		R		21, 26, 15
PROGENY 4570 RXS	4.5	R2X, STS	R-3, MR-14	1c		MR		R		21, 26, 15
PROGENY 4620 RXS PROGENY 4757 RY	4.6 4.7	R2X. STS RR2	R-3, MR-14 R-3, MR-14	Hrps 1a 1a		MR MR		R R		21, 26, 15 21, 26, 15
PROGENY 4757 RY PROGENY 4799 RXS	4.7	R2X. STS	R-3, MR-14 R-3	HRps 1c		MR		R		21, 26, 15
PROGENY 4799 RXS	4.7	R2X. 515	R-3	1a		MR		R		21, 26, 15
I NOULINI TUTU IIA	7.0	I\ΔΛ	I/-2	ı a		T IAIL/		1 11		۱, ۷۷, IJ

Table 3. Company specifications for entries in the 2018 Kentucky Soybean Variety Performance Tests. A

				Dhutanh		Resistance Tra				
Variety/Brand Name	Realtive Maturity Group	Туре	Soybean Cyst Nematode	R gene Rps	tora Sojae <sup>D</sup> Field Tolerance	Sudden Death Symdrome	Soybean Mosaic Virus	Stem Canker	Other Resistance Traits	Seed Treaments
PROGENY 4821 RX	4.8	R2X	R-3, MR-14	1c		MR		MR		21, 26, 15
PROGENY 4851 RX	4.8	R2X	R-3, MR-14	1c		MR/MS		R		21, 26, 15
PROGENY 4955 RX	4.9	R2X	unknown	1a		unknown		R		21, 26, 15
PROGENY 4994 RX	4.9	R2X	unknown	1k		MR		R		21, 26, 15
PROGENY 5016 RXS	5.0	R2X, STS	R-3, MR-14	1a		MR		R		21, 26, 15
PROGENY 5018 RX	5.0	R2X	R-3, MR-14	unknown		MR		R		21, 26, 15
PROGENY 5157 RXS	5.1	R2X, STS	Susceptible	unknown		unknown		R		21, 26, 15
PROGENY 5226 RYS	5.2	RR2, STS	R-3, MR-14	HRps 1c		MR		R		21, 26, 15
PROGENY 5252 RX	5.2	R2X	unknown	1k		unknown		R		21, 26, 15
PROGENY 5279 RXS	5.2	R2X	Susceptible	1c		R		R		21, 26, 15
REV® 4168X™	4.1	RR2X	9/3, 7/14	rps1k	6	7		8		3, 13, 14, 22
REV® 4679X™	4.6	RR2X	9/3, 8/14	none	5	5		9		3, 13, 14, 22
REV® 46L99™	4.6	LL	8/3, 8/14	none	8	_		7		3, 13, 14, 22
REV® 47L38™	4.7	LL	9/3, 8/14	none	4	5		8		3, 13, 14, 22
REV® 4857X™	4.8	RR2X	9/3, 9/14	rps1a	5	5		7		3, 13, 14, 22
REV® 4927X™	4.9	RR2X	9/3, 6/14	rps1k	5	6		9		3, 13, 14, 22
REV® 49L88™	4.9	LL	8/3, 4/14	rps1k	4	6		8		3, 13, 14, 22
S35-K9X	3.5	Xtend	R3	Susc.	MT	MR		MR		5
S42-B9XS	4.2	Xtend/STS	R3	1c	MR	MR		MR		5
S45-Z5XS	4.5	Xtend/STS	R3	1a	MR	MR		MR		5
SEED CONSULTANTS SC 8379X™	3.7	Xtend								11
SEED CONSULTANTS SC 8399X™	3.9	Xtend								11
SEED CONSULTANTS SC 8439X™	4.3	XTend	D400700		NAT.	LAT.				11
SEED CONSULTANTS SCS 9385RR™	3.8	R2Y	P188788	11.	MT	MT				11
SEED CONSULTANTS SCS 9393RR™	3.9	R2Y	P188788	1k	MT	MT				11
SEED CONSULTANTS SCS 9469BR™	4.6	STS/RR	D2	1.	MD	MC		MAD		11
STEWART 4029R2X	4.0	Xtend	R3	1c	MR MS	MS		MR		1
STEWART 4228R2X STEWART 4327R2X	4.2 4.3	Xtend Xtend	R3 R3	1c 1c	MR	MR NR		MR MS		1
STEWART 432/R2X	4.3	Xtend	R3	1c	MR	MR		MR		1
STEWART 4438R2X	4.4	Xtend	R3	1c	MR	MS		MR		1
STEWART 4436R2X	4.5	Xtend	R3	1c	MR	MR		R		1
STEWART 4619R2X	4.6	Xtend	R3	1c	MR	MS		MR		1
STEWART 4927R2X	4.9	Xtend	R3	1c	MR	MR		MR		1
STEWART 4939R2X	4.9	Xtend	R3	Susc.	MR	NS		MR		1
STINE 40BA02	4.0	Stine GT	113	Jusc.	.,,,,,	113		14111		
STINE 48BA23	4.8	Julie 01								
USG 7447XTS	4.4	XT	R3, MR14	1c	1.9	MR		MS	FELS-MS	3, 14, 24, 19
USG 7487XTS	4.8	XT	R3, MR14	1c	2.0	MR		R		3, 14, 24, 19
USG 7489XT	4.8	XT	R3, MR14	1a	1.5	MR		R	Cercospora	3, 14, 24, 19
			,						Cercospora - MR	2, 1, 2, 1, 12
USG 7496XTS	4.9	XT	R3, MR14	1a	2.2	MR		R	SRK - MR	3, 14, 24, 19
UNIVERSITY OF MISSOURI MO5201D CONV	5.3	CONV	3, 14		Χ	MR		R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S11-20242C	5.1	CONV	2, 3, 5, 14		Χ	R			FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S13-10590C	4.3	CONV	5		X	R		R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S13-10592C	4.5	CONV	1		Х	R		R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S13-1955C	5.5	CONV	3, 14		Х	MR		_	FLS, RKNT	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S13-2743C	4.1	CONV	3, 14		Х			R		3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S13-3851C	4.4	CONV	2.11		Х			R	F: C	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S14-15138R	4.8	RR1/STS	3, 14		Х			R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S14-15146R	4.6	RR1/STS	4 3 -		X			R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S14-9017R	5.3	RR1	1, 3, 5		X			R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S14-9051R	4.7	RR1	5		X			R	FLS	3, 6, 26, 15, 18
UNIVERSITY OF MISSOURI S15-10434C	5.5	CONV	1, 2, 3, 5, 14	1	X	140			RN	3, 6, 26, 15, 18
WARREN SEED BG 3821 RR2X	3.8	Xtend	3, 14	1c	MT	MR				8
WARREN SEED BG 4210 RR2X	4.2	Xtend	3, 14	1c	MT	MR				8
WARREN SEED BG 4322 RR2X	4.3	Xtend	3, 14	1c	MT	MR				8
WARREN SEED BG 4510 RR2X	4.5	Xtend	3, 14	1c	MT	MR				8
WARREN SEED BG 4842 RR2X	4.8	Xtend	3, 14	1c	MT	MR				8
WARREN SEED BG 4911 RR2X	4.9	Xtend	3, 14	1c	MT	MR				8
WARREN SEED BG 4922 RR2X	4.9	Xtend	3, 14	1c	MT	MR				8

A This information is provided by the seed nominators and has not been verified by the soybean variety performance test program

B Bolt: variety with enhanced tolerance to PuPont™ LeadOff® and DuPont™ Basis® Blend herbicides; CONV, Conv. conventional soybean variety; Experimental Public: experimental public variety; LL: Liberty
Link herbicide (glufosinate ammonium) tolerant soybean variety (introduced in 2009); PUB, Public Release: public variety; RR, RR1: Roundup Ready soybean variety (first generation - original trait, introduced in 1996); RR2, R2Y: Roundup Ready 2 Yield soybean variety (2nd generation - introduced in 2008); SR: Sulfonylurea herbicide tolerant soybean variety; STS: sulfonylurea-tolerant soybean variety; X,

Xtend, XT, Extend, XTEND: dicamba-tolerant soybean variety

C S: susceptible; MS: moderately susceptible; MT: moderately tolerant; T: tolerant; MR: moderately resistant; R: resistant; blank space: no information provided or information unknown

D All races of Phytophtora sojae identified so far in Kentucky can be controlled with varieties in the Rps 1c or 1k. Race-specific resistance is highly effective but requires a proper match between pathogen race and soybean variety. Field tolerance is a lower level of protection that will provide good control against all races. Seed and yound seedlings of tolerant soybean varieties must be protected with a fungicde since field tolerance develops after early seedling growh stages.

Table 4. Seed Treatments.

Code	Name	Treatment	Chemical class/use	LD50 oral/derm A	LC50B
1	Acceleron	Metalaxyl, Imidacloprid, Pyraclostrobin	systemic & non-systemic fungicide, systemic insecticide	NA	NA
2	AgriShield® Fungicide + Insecticide		nematicide, fungicide & insecticide	NA	NA
3	Apron Maxx	Mefenoxam, Fludioxonil	systemic & non-systemic fungicide	5,000/5,050	5.42 - 4hrs
4	Apron XL	Mefenoxam	systemic fungicide	862/2,020	2.52 - 4hrs
5	B2000SAT		biological component	NA	NA
6	Clariva™ Complete Beans	Pasteuria nishizawae, Mefenoxam, Thiamethoxam, Fluodioxinil, Sedaxane	nematicide, systemic & non-systemic fungicide, systemic insecticide	NA	NA
7	Cruiser Maxx	Mefenoxam, Thiamethoxam, Fluodioxinil	systemic & non-systemic fungicide, systemic insecticide	5,000/ 5,000	2.5 - 4hrs
8	Cruiser Extrem	Mefenoxam, Thiamethoxam, Fluodioxinil, Azoxystrobin	systemic & non-systemic fungicide, systemic insecticide	5,000/ 5,000	NA
9	Defend Extra				
11	Eclipse TEN	Metalaxyl, Fludioxonil, Thiabendazole, Imida- cloprid	systemic & non-systemic fungicide	NA	NA
12	Equity® VIP	Thiamethoxam, Mefenoxam, Fludioxonil, Thiabendazole, Sedaxane	systemic insecticide and fungicide	3758/>5,000	>2.60 - 4 hrs
13	EverGol™ Energy	Prothioconazole, Penflufen, Metalaxyl, Polyethylene-polypropylene copolymer, 1,2-Propanediol	fungicide	2,000/2,000	2,205 - 4hrs
14	Gaucho	Imidacloprid	systemic insecticide	643/2,000	8.1 to 10.0 - 1hr
15	ILeVO®	Fluopyram	fungicide, nematicide	1,750/5,000	2.0 - 96hrs
16	DuPont Lumisena	Oxathiapiprolin	fungicide	>5,000/>5,000	>0.69 - 96 hrs
17	Marauder®		inoculant	NA	NA
18	Maxim®	Fludioxonil	fungicide	NA	NA
19	N-Hibit™ CST	Harpin protein	activates a natural defense mechanism in plants, referred to as systemic acquired resistance	NA	NA
20	PA2030		biological component	NA	NA
21	Poncho® VOTiVO®	Clothiandin, Bacillus firmus	systemic insecticide and nematicide	2,000/5,000	2.62 - 4hrs
22	PPST 2030		biological component and polymer	NA	NA
23	Revize® PBI	Imidacloprid	systemic insecticide	NA	NA
24	Rancona 3.8 FS	Ipconazole	systemic broad spectrum fungicide	5,000/slight	2.59-4hrs
25	TagTeam® LCO liquid	Penicillium bilaii, Bradyrhizobium japonicum	beneficial microorganisms	NA	NA
26	Trilex® 2000	Trifloxystrobin, Metalaxyl, Glycerine	systemic fungicide	2,000/5,000	2.6 - 4hrs
27	Vibrance <sup>TM</sup>	Sedaxane	fungicide	2,975/5,050	2.56 - 4hrs

AB The LD50 and LC50 are standardized measures for expressing and comparing the toxicity of chemicals.

A The LD50 is expressed as mg of chemical per kg (2.2 lbs.) body weight of test animal.

B The LC50 is expressed as mg of chemical per liter of air inhaled by test animal.

The LD50 and LC50 are the doses that kill half (50%) of the animals tested (LD = "lethal dose", LC = "lethal concentration").

The LD50 and LC50 data are from MSDS (Material Saftey Data Sheet).

BRAND VARIETY   2016   2017-18   2016-18   2018   2018   2017-18   2016-18	Table 5. 2018 Kentucky Soybean Variety P					ucu idbie.	OILA/C			<b>PROTEIN</b> A/C	
MATURITY GROUP II I I Intelative MG 2.0-2.9 (MIGOR 2 POT 19)  MIGOR 3 POT	RRAND VARIETY				LODGING	2010	_	2016.10	2010		
CRISTOLID GROOMEN   42.4   2.6   19.3   58.3   58.3		2018	2017-18	2010-18	2018	2018	2017-18	2010-18	2018	2017-18	2010-18
MANOR 2-901   4-88		12.1			26	10.2			36.3		
\$\$\$6500W AGGRAYS \$40.7 \$52.2 \$2.1 \$18.9 \$18.2 \$37.2 \$36.4 \$\$ \$\$\$5000 AGGRAYS \$\$\$01010 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$10 \$\$ \$\$\$10.0 \$2.1 \$18. \$0.5 \$2.2 \$2.5 \$\$ \$\$\$\$10.0 \$2.1 \$18. \$0.5 \$2.2 \$2.5 \$\$ \$\$\$\$10.0 \$2.1 \$18. \$0.5 \$2.2 \$2.5 \$\$ \$\$\$\$10.0 \$2.1 \$18. \$0.5 \$2.2 \$2.5 \$\$ \$\$\$\$10.0 \$2.1 \$18. \$0.5 \$2.2 \$2.5 \$\$ \$\$\$\$10.0 \$2.1 \$18. \$0.5 \$2.2 \$2.5 \$\$ \$\$\$\$10.0 \$1.0 \$2.1 \$1.0 \$2.1 \$2.1 \$1.0 \$2.1 \$2.1 \$2.0 \$2.0 \$2.0 \$3.6 \$3.1 \$2.1 \$2.1 \$2.0 \$2.0 \$3.6 \$3.1 \$2.1 \$2.1 \$2.0 \$2.0 \$3.6 \$3.1 \$2.1 \$2.1 \$2.0 \$2.0 \$3.0 \$3.6 \$3.1 \$2.1 \$2.1 \$2.0 \$2.0 \$3.0 \$3.6 \$3.0 \$3.2 \$3.0 \$3.0 \$3.0 \$3.0 \$3.0 \$3.0 \$3.0 \$3.0											
SCRION HACRONE											
ROUP II AVERAGE			52.2				10.2			26.4	
SQUADO   2.1   18	ASGROW AG29X8	40.7	52.2		2.1	18.9	18.2		3/.2	30.4	
MATURITY GROUP III   relative MG 3.09-39	GROUP II AVERAGE	41.2	52.2		2.4	18.9			36.4		
MATURITY GROUP II (relative MG 3.0-3.9)  EED CONSULTANTS SCS 9385RP*    60.0   65.6   63.1   2.4   20.5   19.8   20.1   34.2   34.0   33.8	LSD (0.10)	2.1	1.8			0.5			1.0		
SEED CONSULTANTS SCS 9385R**	C.V.	4.9	5.4			2.2			2.5		
SEED CONSULTANTS SCS 9385R**											
SEED CONSULTANTS SC 8399/"   Sp1				45.4			400	20.4	212	24.2	
SSERIOW AGSBYS			65.6	63.1			19.8	20.1		34.0	33.8
SEED CONSULTANTS SCS 9939RR**			61.6				10.0			247	
SSEROW AGGENT				<b></b>							
NAMORIA 5-D20							_				
SSEROW AGAIXY9			61.1	59.1			18.3	18.6		34.6	34./
PIONEER PSGTSGEN											
VERTICATION   1972   1972   1972   1973   1974											
DYNAL-GRO 539XT68											
NAMICH SPU-D39   51.5   57.9   2.3   19.1   18.5   35.3   34.8											
133-140	DYNA-GRO S39XT68										
CAMPENDALE CF 387 HT-GLYn	ARMOR 39-D39		57.9				18.5			34.8	
SRODBECK 388R2											
ZZ 3601 LL	CAVERNDALE CF 387 HT-GLYn	51.4	58.0	59.3	2.4		19.7	20.0	35.1		34.2
SRODBECK 368R2   50.5   56.2   2.3   19.5   18.9   36.0   35.8	BRODBECK 388R2		58.9		2.5		19.3		34.8	34.2	
SERIC CONSULTANTS C 8379X"   49.6   2.5   19.1   19.0   35.9   35.5	CZ 3601 LL	50.6			2.4	20.2			34.5		
### SEED CONSULTANTS SC 8379X™	BRODBECK 368R2	50.5	56.2		2.3	19.5	18.9		36.0	35.8	
Table   Tabl	AGRIGOLD G3520RX	50.2	56.2		2.2	19.7	19.0		35.9	35.5	
PRONEER P37A78X	SEED CONSULTANTS SC 8379X™	49.6			2.5	19.1			36.6		
HANNEL 3718R2X 47.7 2.6 20.0 35.3  WARREN SEED BG 3821 RRZX 46.6 2.8 19.1 35.4  WARREN SEED BG 3821 RRZX 46.6 3.1 20.0 35.6  ASGROW AG36X6 46.2 2.5 19.6 33.4  ACMERNDALE CF 364 STSn 45.8 2.7 19.0 36.4  WARREN SEED BG 3821 RRZX 45.8 2.7 19.0 36.4  WARREN SEED BG 4510 RRZX 45.8 2.7 19.0 36.4  WARREN SEED BG 4510 RRZX 45.8 2.9 19.6 18.9 37.0  WARREN SEED BG 4510 RRZX 62.9 19.6 18.9 37.0  WARREN SEED BG 4510 RRZX 62.9 19.6 18.9 37.0  WARREN SEED BG 4510 RRZX 62.9 19.6 18.9 37.0  WARREN SEED BG 4510 RRZX 62.2 19.1 34.8 34.8  WARREN SEED BG 4510 RRZX 62.2 67.5 2.1 19.3 18.9 19.1 34.3  WARREN SEED BG 4510 RRZX 62.2 19.4 34.8  WARREN SEED BG 4510 RRZX 62.2 19.4 34.8  WARREN SEED BG 4510 RRZX 61.7 2.2 19.4 34.3  WARREN SEED BG 4510 RRZX 61.7 2.2 19.4 34.3  WARREN SEED BG 4510 RRZX 61.7 2.2 19.4 34.3  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 34.8 34.9  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 62.2 67.5 2.5 18.7 18.4 34.3  WARREN SEED BG 4510 RRZX 61.7 2.2 19.6 34.7  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 62.2 67.5 2.5 18.7 18.4 34.3  WARREN SEED BG 4510 RRZX 62.2 67.5 2.5 18.7 18.4 34.3  WARREN SEED BG 4510 RRZX 61.7 2.2 19.6 34.7  WARREN SEED BG 4510 RRZX 62.2 67.5 2.5 18.7 18.7 34.9 34.8  WARREN SEED BG 4510 RRZX 62.2 67.5 2.5 18.7 18.7 34.9 34.8  WARREN SEED BG 4510 RRZX 61.7 2.2 19.6 34.7  WARREN SEED BG 4510 RRZX 61.7 2.2 19.6 34.7  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 2.2 19.8 35.4  WARREN SEED BG 4510 RRZX 61.7 34.9 34.9  WARREN SEED BG 4510 RRZX 61.	CZ 3841 LL	48.0	54.7	54.6	2.9	19.8	19.1	19.4	35.4	35.1	34.9
WARREN SEED BG 3821 RR2X	PIONEER P37A78X	47.9			3.0	20.1			35.1		
ARMOR X35D92	CHANNEL 3718R2X	47.7			2.6	20.0			35.3		
ASGROW AG36X6	WARREN SEED BG 3821 RR2X	46.6			2.8	19.1			35.4		
ARRINDALE CF 364 STSn	ARMOR X35D92	46.6			3.1	20.0			35.6		
DYNA-GRO S39XTO8	ASGROW AG36X6	46.2			2.5	19.6			35.4		
RRMOR X30D53 38.4 3.4 20.7 34.5  GROUP III AVERAGE 50.7 59.0 59.4 2.6 19.8 19.1 19.7 35.3 34.8 34.3   S.SD (0.10) 3.0 3.2 2.4 0.3 0.2 0.5 0.4 0.3 0.9   C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1    MATURITY GROUP IV EARLY (relative MG 4.0-4.5)    FIEWART 4339R2X 68.8 2.2 19.1 34.6   FIEWART 4339R2X 66.5 67.5 62.7 2.1 19.3 18.9 19.1 34.3 33.7 33.8   AGRIGOLD G4380RX 64.5 69.3 2.1 18.8 18.3 34.8 34.8   AGRIGOLD G4380RX 63.5 69.2 2.0 19.2 18.9 34.6 34.0    SIEWART 4438R2X 63.5 69.2 2.0 19.2 18.9 34.6 34.9    WARREN SEED BG 4510 RR2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6    CHANNEL 4517R2X 61.9 2.4 18.8 35.2 34.6    CHANNEL 4517R2X 61.9 2.2 19.4 34.3 35.2 34.6    CHANNEL 4517R2X 61.9 3.4 34.9 34.9 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8	CAVERNDALE CF 364 STSn	45.8			2.7	19.0			36.4		
\$\frac{\text{SROUP III AVERAGE}}{\text{50.7}}  \text{59.0}  \text{59.4}  \text{2.6}  \text{19.8}  \text{19.1}  \text{19.7}  \text{35.3}  \text{34.8}  \text{34.3}  \text{50}  (0.10)  \text{3.0}  \text{3.2}  \text{2.4}   \text{0.3}  \text{0.2}  \text{0.5}  \text{0.4}  \text{1.1}  \text{1.1}  \text{1.0}  \text{4.1}  \text{1.1}  \text{1.0}  \text{4.1}  \text{1.1}  \text{1.1}  \text{1.0}  \text{4.1}  \text{1.1}  \text{1.1}  \text{1.1}  \text{1.1}  \text{1.1}  \text{1.1}  \text{1.1}  \text{1.1}  \text{3.4.4}  \text{1.1}  \text{3.4.4}  \text{3.4.4}  \text{3.4.5}  \text{5.5}  \text{5.5}  \text{66.5}  \text{6.5.5}  \text{67.5}  \text{62.7}  \text{2.1}  \text{19.3}  \text{18.9}   \text{34.3}   \text{33.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.9}  \text{34.8}  \text{34.9}  \text{34.8}  \text{34.9}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.9}  \text{34.8}  \text{34.8}  \text{34.8}   \text{34.8}   \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}  \text{34.8}   \text{34.8}   \text{34.8}   \text{34.8}   \text{34.8}	DYNA-GRO S39XT08	45.0	54.6		2.9	19.6	18.9		37.0	36.4	
SD (0.10) 3.0 3.2 2.4 0.3 0.2 0.5 0.4 0.3 0.9 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 TEWART 4339R2X 66.5 1.7 20.0 34.6 C.V. 5.6 TEWART 4339R2X 66.5 1.7 20.0 34.6 C.V. 5.6 TEWART 4527R2X 65.5 67.5 62.7 2.1 19.3 18.9 19.1 34.3 33.7 33.8 C.V. 5.6 TEWART 438R2X 63.5 69.2 2.0 19.2 18.9 34.6 34.0 C.V. 5.6 TEWART 438R2X 63.5 69.2 2.0 19.2 18.9 34.6 34.0 C.V. 5.6 TEWART 438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.7 18.7 34.9 34.8 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.2 19.6 34.7 C.V. 5.6 TEWART 4438R2X 62.2 19.6 34.7 C.V. 5.6 TEWART 4438R2X 62.2 19.8 35.4 C.V. 5.6 TEWART 4438R2X 62.2 19.8 35.5 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 C.V. 5.6 T	ARMOR X30D53	38.4			3.4	20.7			34.5		
SD (0.10) 3.0 3.2 2.4 0.3 0.2 0.5 0.4 0.3 0.9 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 7.8 7.2 1.4 1.3 4.1 1.1 1.0 4.1 C.V. 5.6 TEWART 4339R2X 66.5 1.7 20.0 34.6 C.V. 5.6 TEWART 4339R2X 66.5 1.7 20.0 34.6 C.V. 5.6 TEWART 4527R2X 65.5 67.5 62.7 2.1 19.3 18.9 19.1 34.3 33.7 33.8 C.V. 5.6 TEWART 438R2X 63.5 69.2 2.0 19.2 18.9 34.6 34.0 C.V. 5.6 TEWART 438R2X 63.5 69.2 2.0 19.2 18.9 34.6 34.0 C.V. 5.6 TEWART 438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.5 18.7 18.7 18.7 34.9 34.8 C.V. 5.6 TEWART 4438R2X 62.2 67.5 2.2 19.6 34.7 C.V. 5.6 TEWART 4438R2X 62.2 19.6 34.7 C.V. 5.6 TEWART 4438R2X 62.2 19.8 35.4 C.V. 5.6 TEWART 4438R2X 62.2 19.8 35.5 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 34.3 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 C.V. 5.6 TEWART 4438R2X 62.2 19.6 19.0 35.1 34.8 C.V. 5.6 T	GPOLID III AVERAGE	50.7	50.0	50 /	26	10 0	10 1	10.7	25.2	2/1 0	2/1 2
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)  STEWART 4339R2X  68.8  2.2  19.1  34.4  STEWART 4527R2X  65.5  67.5  62.7  21  18.8  18.3  34.8  34.8  34.8  34.8  34.8  34.8  34.8  34.8  34.9  STEWART 4338R2X  63.5  69.2  20  19.2  18.8  18.3  34.6  34.6  34.0  STEWART 4338R2X  63.5  69.2  20  19.2  18.8  34.6  34.6  34.0  STEWART 4338R2X  63.5  69.2  20  19.2  18.8  34.9  34.6  34.0  STEWART 4438R2X  63.5  69.2  20  19.2  18.8  34.9  34.6  34.0  STEWART 4438R2X  61.0  STEWART 4438R2X  62.2  67.5  28.1  18.8  38.9  STEWART 4438R2X  61.0  STEWART 4438R2X  62.2  67.5  18.7  18.4  35.2  34.6  STEWART 4438R2X  61.9  STEWART 4438R2X  62.2  67.5  18.7  18.4  35.2  34.6  STEWART 4438R2X  61.9  STEWART 4438R2X  61.9  STEWART 4438R2X  61.9  STEWART 452R2X  62.1  18.8  34.9  STEWART 452R2X  61.9  STEWART 452R2X  62.2  19.1  STEWART 452R2X  63.5  STEWART 452R2X  64.5  STEWART 452R2X  65.5  STEWART 452R2X  66.5  STEWART 452R2X  66.7  STEWART 452R2X  STEWA	LSD (0.10)				2.0						
STEWART 4339R2X   68.8   2.2   19.1   34.4   34.9   34.6   33.7   33.8   34.6	C.V.										
STEWART 4339R2X   68.8   2.2   19.1   34.4   34.9   34.6   33.7   33.8   34.6											
1.7   20.0   34.6   34.6   34.8   3	•										
STEWART 4527R2X											
AGRIGOLD G4380RX 64.5 69.3 2.1 18.8 18.3 34.8 34.8 34.8 34.8 34.9  JSG 7447XTS 62.9 2.4 18.8 34.9  WARREN SEED BG 4510 RR2X 62.2 67.5 2.5 18.7 18.4 35.2 34.6  CHANNEL 4517R2X 61.9 2.2 19.4 34.3  ARMOR 42-D27 61.7 63.1 2.3 19.7 18.7 34.9 34.8  PROGENY 4570 RXS 61.2 2.2 19.8 35.4  PROGENY 4570 RXS 61.2 2.3 19.4 34.9  ARMOR 45-D50 61.1 2.4 18.8 35.5 AGRIGOLD G4579RX 60.8 1.8 19.4 34.9 ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 3											
STEWART 4438R2X 63.5 69.2 2.0 19.2 18.9 34.6 34.0 34.9 STEWART 4438R2X 62.9 2.4 18.8 34.9 STEWART 4517R2X 62.9 67.5 2.5 18.7 18.4 35.2 34.6 STEWART 4517R2X 61.9 2.2 19.4 34.3 STEWART 4517R2X 61.9 2.2 19.4 34.9 STEWART 4517R2X 61.7 63.1 2.3 19.7 18.7 34.9 34.8 STEWART 44472BX 61.7 2.2 19.6 34.7 STEWART 4570 RXS 61.2 2.2 19.8 35.4 STEWART 4570 RXS 61.2 2.3 19.4 34.9 STEWART 4570 RXS 61.1 2.4 18.8 35.5 STEWART 4570 RXS 60.8 18.8 19.4 34.9 STEWART 4570 RXS 60.8 66.4 2.3 19.4 18.8 34.8 34.9 STEWART 4570 RXS 60.8 60.4 2.1 19.5 34.5 STEWART 4570 RXS 60.0 2.4 19.1 34.8 STEWART 4570 RXS 60.0 541X598 59.9 63.7 2.4 19.6 19.0 35.1 34.3				62.7				19.1			33.8
Section   Sect	AGRIGOLD G4380RX	64.5	69.3		2.1	18.8	18.3		34.8	34.8	
WARREN SEED BG 4510 RR2X       62.2       67.5       2.5       18.7       18.4       35.2       34.6         CHANNEL 4517R2X       61.9       2.2       19.4       34.3         ARMOR 42-D27       61.7       63.1       2.3       19.7       18.7       34.9       34.8         PONER P44A72BX       61.7       2.2       19.6       34.7       34.9       35.4       35.4       35.4       35.4       36.9       36.4       34.9	STEWART 4438R2X	63.5	69.2			19.2	18.9		34.6	34.0	
CHANNEL 4517R2X 61.9 2.2 19.4 34.3 ARMOR 42-D27 61.7 63.1 2.3 19.7 18.7 34.9 34.8 PROMER P44A72BX 61.7 2.2 19.6 34.7 PROGENY 4570 RXS 61.2 2.3 19.4 34.9 ARMOR 45-D50 61.1 2.4 18.8 35.5 AGRIGOLD G4579RX 60.8 1.8 19.4 34.9 ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 3	USG 7447XTS										
ARMOR 42-D27 61.7 63.1 2.3 19.7 18.7 34.9 34.8 PIONEER P44A72BX 61.7 2.2 19.6 34.7 PYNA-GRO S4209N 61.2 2.2 19.8 35.4 PROGENY 4570 RXS 61.2 2.3 19.4 34.9 ARMOR 45-D50 61.1 2.4 18.8 35.5 AGRIGOLD G4579RX 60.8 1.8 19.4 34.9 ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.8 HS 45X80 60.4 2.1 19.5 34.5 AV447NSXR2 60.0 2.4 19.1 34.8 DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	WARREN SEED BG 4510 RR2X		67.5				18.4			34.6	
PIONEER P44A72BX 61.7 2.2 19.6 34.7  PYNA-GRO S4209N 61.2 2.2 19.8 35.4  PROGENY 4570 RXS 61.2 2.3 19.4 34.9  ARMOR 45-D50 61.1 2.4 18.8 35.5  AGRIGOLD G4579RX 60.8 1.8 19.4 34.9  ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.8  HS 45X80 60.4 2.1 19.5 34.5  AV447NSXR2 60.0 2.4 19.1 34.8  DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	CHANNEL 4517R2X										
DYNA-GRO S4209N     61.2     2.2     19.8     35.4       PROGENY 4570 RXS     61.2     2.3     19.4     34.9       ARMOR 45-D50     61.1     2.4     18.8     35.5       AGRIGOLD G4579RX     60.8     1.8     19.4     34.9       ASGROW AG41X8     60.8     66.4     2.3     19.4     18.8     34.8     34.3       H5 45X80     60.4     2.1     19.5     34.5       A4447NSXR2     60.0     2.4     19.1     34.8       DYNA-GRO S41XS98     59.9     63.7     2.4     19.6     19.0     35.1     34.3	ARMOR 42-D27		63.1				18.7			34.8	
PROGENY 4570 RXS 61.2 2.3 19.4 34.9  ARMOR 45-D50 61.1 2.4 18.8 35.5  AGRIGOLD G4579RX 60.8 1.8 19.4 34.9  ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.8 34.3  HS 45X80 60.4 2.1 19.5 34.5  A4447NSXR2 60.0 2.4 19.1 34.8  DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	PIONEER P44A72BX	61.7			2.2	19.6			34.7		
ARMOR 45-D50 61.1 2.4 18.8 35.5 AGRIGOLD G4579RX 60.8 1.8 19.4 34.9 ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.3 HS 45X80 60.4 2.1 19.5 34.5 AV4447NSXR2 60.0 2.4 19.1 34.8 DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	DYNA-GRO S4209N	61.2				19.8			35.4		
AGRIGOLD G4579RX 60.8 1.8 19.4 34.9 ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.3 HS 45X80 60.4 2.1 19.5 34.5 AV447NSXR2 60.0 2.4 19.1 34.8 DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	PROGENY 4570 RXS	61.2			2.3	19.4			34.9		
ASGROW AG41X8 60.8 66.4 2.3 19.4 18.8 34.8 34.3 45.45X80 60.4 2.1 19.5 34.5 44447NSXR2 60.0 2.4 19.1 34.8 59.9 63.7 2.4 19.6 19.0 35.1 34.3	ARMOR 45-D50	61.1			2.4	18.8			35.5		
HS 45X80 60.4 2.1 19.5 34.5 A4447NSXR2 60.0 2.4 19.1 34.8 DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	AGRIGOLD G4579RX	60.8			1.8	19.4			34.9		
A4447NSXR2 60.0 2.4 19.1 34.8 DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	ASGROW AG41X8	60.8	66.4		2.3	19.4	18.8		34.8	34.3	
DYNA-GRO S41XS98 59.9 63.7 2.4 19.6 19.0 35.1 34.3	HS 45X80	60.4			2.1	19.5			34.5		
	A4447NSXR2	60.0			2.4	19.1			34.8		
ASGROW AG44X6 59.6 63.0 60.8 2.7 19.0 18.5 18.6 35.4 35.0 35.0	DYNA-GRO S41XS98	59.9	63.7		2.4	19.6	19.0		35.1	34.3	
	ASGROW AG44X6	59.6	63.0	60.8	2.7	19.0	18.5	18.6	35.4	35.0	35.0

Table 5. 2018 Kentucky Soybean Variety Performance Tests, State Summary - Recommended Table.

		YIELD (BU/AC)	A/B	LODGING		OILA/C			PROTEINA/C	
BRAND VARIETY	2018	2017-18	2016-18	2018	2018	2017-18	2016-18	2018	2017-18	2016-18
PIONEER P44A08L	59.4			2.3	19.6			34.8		
PIONEER P40A47X	59.4	66.0		1.8	19.3	18.8		35.2	34.2	
S45-Z5XS	59.4			1.7	19.8			34.1		
CAVERNDALE CF 427 HT-GLY/STSn	59.1	63.9		2.1	19.8	19.5		35.3	34.8	
UNIVERSITY OF MISSOURI \$13-2743C	59.1	61.2		2.9	19.9	19.3		34.5	34.4	
HOEGEMEYER HPT 4511 NX	58.9			2.4	18.8			35.0		
PROGENY 4444 RXS	58.8	64.9		3.2	19.3	18.9		35.1	34.3	
DYNA-GRO S44XS68	58.7	65.8		1.9	19.4	18.6		34.2	34.5	
CZ 4548 LL	58.4			2.9	20.1			35.5		
STEWART 4039R2X	58.4			1.9	19.4			35.6		
BRODBECK 446R2	58.3	65.8	61.9	3.1	19.5	19.2	19.5	34.7	34.0	33.8
STEWART 4228R2X	58.2	65.6	0112	1.9	19.3	18.4		34.8	34.6	5510
SEED CONSULTANTS SC 8439X™	57.6	03.0		2.2	19.4	10.1		35.5	3 1.0	
LG SEEDS LGS4597RX	57.4			2.0	19.3			34.9		
UNIVERSITY OF MISSOURI S13-10592C	57.3			3.2	19.8			35.6		
ARMOR X41D47	56.7			3.6	19.7			34.8		
ASGROW AG43X7	56.7	64.6	61.7	2.7	19.7	18.7	18.8	34.8	34.1	33.9
		04.0	01./			10./	10.0		34.1	33.9
ASGROW AG42X9	56.7			2.8	19.7			34.2		
S42-B9XS	56.0	(7.6		1.8	19.6	10.2		35.0	77.7	
HOEGEMEYER HPT 4522 NR	55.8	67.6	(1.1	1.9	19.6	19.2	10.0	34.4	33.7	24.4
DYNA-GRO S43XS27	55.6	65.9	61.1	2.8	18.7	18.1	18.6	34.7	34.6	34.4
PROGENY 4318 RX	55.5	40.0		3.4	19.5	40.4		34.5	242	
UNIVERSITY OF MISSOURI S13-3851C	55.5	62.3		2.8	19.4	19.1		34.7	34.2	
REV® 4168X™	55.3			2.1	19.8			35.2		
AGRIGOLD G4190RX	55.3			2.2	19.5			34.9		
CZ 4105 LL	55.0	63.5	59.5	2.2	19.6	19.0	19.1	36.0	35.1	35.2
GO SOY E4510S	54.7			1.9	20.0			35.6		
CHANNEL 4218R2X	54.5			2.3	18.3			35.4		
UNIVERSITY OF MISSOURI S13-10590C	54.5	59.3		2.1	20.2	19.6		34.9	34.2	
HOEGEMEYER HPT 4211 NX	54.3			3.4	19.3			35.9		
CZ 4308 LL	54.1			2.9	20.4			35.3		
STEWART 4327R2X	54.0	64.9	60.9	2.8	18.7	18.5	18.9	34.9	33.9	33.8
AGRIGOLD G4440RX	53.6	60.6		2.3	19.1	18.5		34.3	34.2	
STINE 40BA02	53.1			2.1	20.1			33.4		
ARMOR 45-D43	53.0			3.0	19.2			34.8		
WARREN SEED BG 4322 RR2X	52.9			3.3	18.5			35.4		
CZ 4222 LL	52.3	57.5	54.0	2.6	19.5	19.3	19.5	34.8	33.6	33.4
GO SOY 43C17S	51.9			1.9	20.1			34.5		
LG SEEDS C4227RX	51.7	61.0		2.0	19.6	19.0		35.2	34.3	
PROGENY 4255 RX	50.9	58.3		2.7	19.3	18.8		34.2	33.8	
WARREN SEED BG 4210 RR2X	50.9	61.7		2.4	19.7	18.8		35.1	34.7	
ARMOR X40D85	49.3			2.9	20.0			35.4		
ARMOR X44D36	48.2			2.2	19.5			34.5		
GROUP IV EARLY AVERAGE	57.6	64.1	60.3	2.4	19.4	18.9	19.0	34.9	34.3	34.2
LSD (0.10)	3.2	3.2	2.4		0.3	0.2	0.2	0.4	0.3	0.2
C.V.	5.3	7.0	6.5		1.3	1.3	1.3	1.0	1.0	1.0
MATURITY GROUP IV LATE (relative MG	4.6-4.9)									
PROGENY 4757 RY	64.9	68.9	63.7	3.0	19.9	19.1	19.3	33.9	33.5	33.2
PIONEER P46A16R	63.1	69.4	55.7	2.3	19.7	19.3		33.9	33.4	
PIONEER P48A60X	63.0	77.7		2.4	19.0	17.3		34.5	33.7	
PROGENY 4816 RX	62.5	65.3		1.9	18.7	18.3		34.7	34.6	
ASGROW AG48X9	62.3	03.3		2.4	19.5	10.5		34.7	J-1.0	
REV® 49L88™	62.2	65.4		2.4	19.3	19.1		34.8	34.2	
STEWART 4619R2X	61.5	03.4		2.6	19.4	19.1		34.8	34.2	
		(2.6				10.2			22.6	
UNIVERSITY OF MISSOURI S14-15146R	61.3	63.6		2.1	19.6	19.3		34.4	33.6	
ASGROW AG47X9	61.2	(( -	(2.2	2.3	19.6	10.0	10.0	34.1	244	22.0
ASGROW AG47X6	61.1	66.5	63.2	2.5	19.5	18.6	18.9	34.3	34.1	33.9
HOEGEMEYER HPT 4922 NRB	60.8			2.8	19.6			34.7		
USG 7487XTS	60.7	64.9		1.8	19.2	18.7		34.6	33.4	
CAVERNDALE CF 478 RR2Y/STSn	60.7	63.8	59.4	2.4	18.8	18.4	18.4	34.3	33.9	34.1
STINE 48BA23	60.5			3.2	19.5			34.7		

Table 5. 2018 Kentucky Soybean Variety Performance Tests, State Summary - Recommended Table.

	Y	IELD (BU/AC)	A/B	LODGING		OILA/C			PROTEINA/C	
BRAND VARIETY	2018	2017-18	2016-18	2018	2018	2017-18	2016-18	2018	2017-18	2016-18
PROGENY 4994 RX	60.4			2.8	19.2			34.6		
ASGROW AG46X6	60.3	64.8	61.8	2.2	19.4	19.0	19.1	34.8	34.2	34.1
CZ 4820 LL	60.3	68.3		2.4	19.5	19.2		34.1	33.3	
MISSION A4950X	60.2			2.9	18.9			34.5		
CZ 4918 LL	59.5			2.6	19.5			34.6		
HS 49X60	59.1	69.3	63.8	1.7	19.0	18.4	18.5	34.8	34.7	34.6
ARMOR 47-D22	59.1			3.2	19.6			34.4		
CZ 4748 LL	59.0	65.9	62.2	2.2	19.7	19.1	19.3	33.7	33.4	33.5
ASGROW AG49X9	58.9			3.0	19.2			34.8		
GO SOY Ireane	58.4	61.5	58.8	2.6	18.6	18.0	18.3	34.9	34.7	34.5
AGRIGOLD G4685RX	58.3	66.8		2.0	19.6	19.0	10.0	33.9	33.2	55
WARREN SEED BG 4922 RR2X	57.9	00.0		1.6	19.3	.,,,,		34.6	33.2	
AGRIGOLD G4995RX	57.9			2.6	18.9			34.0		
USG 7496XTS	57.8	66.0	63.0	2.3	19.3	18.8	18.8	34.7	34.2	34.3
PROGENY 4620 RXS	57.5	64.4	05.0	3.1	19.0	18.5	10.0	34.6	34.3	27.2
MISSION A4608X	57.5	04.4		3.0	19.7	10.5		34.4	24.2	
CHANNEL 4717R2X	57.5			2.2	19.7			34.4		
DYNA-GRO S48XS78	57.3	66.5		2.2	19.1	10.0		35.0	34.7	
		00.5				18.9			34./	
UNIVERSITY OF MISSOURI S14-9051R	57.3			2.8	19.5			34.6		
UNIVERSITY OF MISSOURI S14-15138R	57.2			2.4	19.3			34.3		
WARREN SEED BG 4842 RR2X	56.9			2.1	19.5			34.2		
PIONEER P46A57BX	56.9			2.6	20.0			34.0		
REV® 47L38™	56.8	47.0		2.6	19.6	400		34.5		
HBK LL4953	56.7	67.3		2.1	19.4	19.2		34.4	33.3	
PIONEER P47A76L	56.6			2.6	20.0			34.2		
STEWART 4927R2X	56.2	65.9	60.1	2.3	19.4	18.8	18.9	34.3	33.4	33.3
HS 46X60	56.2	65.9	60.9	2.4	19.3	18.6	18.7	34.7	34.1	34.0
LG SEEDS C4710RX	56.1	61.1		2.9	19.3	19.2		34.4	33.3	
LG SEEDS C4845RX	56.1	65.2	61.7	1.7	19.2	18.5	18.5	34.7	34.6	34.7
USG 7489XT	56.0			1.7	19.7			34.7		
REV® 4679X™	55.5			2.9	19.7			34.5		
DYNA-GRO S48XT56	55.4	65.4	61.1	1.8	19.1	18.6	18.7	35.0	34.0	34.0
PROGENY 4955 RX	55.3			3.0	19.6			34.0		
REV® 46L99™	55.1			2.2	20.8			35.0		
WARREN SEED BG 4911 RR2X	55.0	62.5		2.7	19.2	18.9		34.5	33.8	
AGS GS48X18	54.8			2.4	19.6			33.9		
PROGENY 4799 RXS	54.8	63.5		2.3	18.8	18.2		35.0	34.6	
SEED CONSULTANTS SCS 9469BR™	54.7			2.0	19.7			34.3		
DYNA-GRO S46XS87	54.6	61.6	59.0	1.9	19.5	19.0	19.0	34.4	33.5	33.6
REV® 4927X™	54.3	61.3		3.7	19.6	19.2		34.0	33.2	
LG SEEDS LGS4624RX	54.2			2.9	19.9			33.6		
AGRIGOLD G4705RX	53.9			3.2	19.7			34.0		
CZ 4938 LL	53.9			2.6	19.2			34.1		
A4637NSXR2	53.7			3.2	19.2			34.6		
REV® 4857X™	53.7	60.9		3.1	19.3	19.0		34.9	34.3	
AGS GS46X17	53.6			1.9	19.9			34.4		
STEWART 4939R2X	53.5			2.3	19.3			34.4		
HS 48X70	53.3	64.7		2.1	19.0	18.3		34.8	34.4	
ARMOR X46D63	53.2	V 117		2.3	19.5	.0.5		34.6	3 11 1	
LG SEEDS LGS4989RX	52.5			2.1	19.7			33.7		
PROGENY 4851 RX	50.7	60.1		3.9	19.2	18.8		34.6	34.1	
GO SOY 49G16	50.7	51.0	49.2	3.9	19.8	18.8	19.0	33.9	34.0	33.9
HBK LL4950	49.8	31.0	77.2	2.7	19.8	10.0	13.0	34.7	J <del>1</del> .0	33.7
PENNYRILE (long term check-released 1987)	41.7	48.2	45.7	2.9	20.0	19.4	19.4	35.4	35.0	35.4
GROUP IV LATE AVERAGE	57.0	63.9	59.6	2.5	19.4	18.8	18.9	34.4	34.0	34.1
LSD (0.10)	2.9	2.6	2.0		0.4	0.3	0.2	0.5	0.3	0.2
C.V.	4.9	5.8	5.6		2.2	1.8	1.6	1.5	1.3	1.2
	112	3.0	5.0		_,_	7.0		1.5	1.5	
MATURITY GROUP V (relative MG 5.0-5.	9)									
PROGENY 5016 RXS	62.6	66.8		3.0	18.6	18.3		35.3	34.7	
UNIVERSITY OF MISSOURI S14-9017R	58.5	65.8		2.3	19.6	19.7		34.3	33.1	
OTTIVE COLITION WILLSON COLITION COLITICAL COLITION COLITION COLITION COLITION COLITION COLITION COLITICAL COLITION COLITICAL COLITICAL COLITICAL COLITICAL COLITICA COLITICAL	30.3	03.0		2.3	13.0	17.7		54.5	55.1	

Table 5. 2018 Kentucky Soybean Variety Performance Tests, State Summary - Recommended Table.

	YII	ELD (BU/AC)	A/B	LODGING		OILA/C			PROTEINA/C	
BRAND VARIETY	2018	2017-18	2016-18	2018	2018	2017-18	2016-18	2018	2017-18	2016-18
PIONEER P50A85X	58.4			2.8	19.3			34.3		
ARMOR 49-D13	57.5			3.5	18.7			34.5		
PROGENY 5018 RX	56.7			3.4	18.8			34.7		
UNIVERSITY OF MISSOURI MO5201D CONV	55.3			2.9	19.3			34.5		
ARMOR X51D77	54.8			3.2	18.6			35.7		
PROGENY 5279 RXS	54.3			2.5	18.2			35.5		
PROGENY 5252 RX	52.5			3.4	18.7			35.6		
PROGENY 5226 RYS	49.3			2.7	19.1			35.6		
ESSEX (long term check-released 1974)	46.3	51.9	48.8	3.1	19.1	18.9	18.8	35.9	35.2	35.9
UNIVERSITY OF MISSOURI S15-10434C	46.2			3.7	18.5			35.4		
UNIVERSITY OF MISSOURI S11-20242C	45.5			4.3	19.0			34.4		
UNIVERSITY OF MISSOURI S13-1955C	44.5	49.7		4.3	19.1	18.8		34.8	33.6	
GROUP V AVERAGE	53.0	58.5		3.2	18.9	18.9	18.8	35.0	34.2	35.9
LSD (0.10)	2.5	2.3			0.2	0.2	0.1	0.4	0.3	0.2
C.V.	4.5	5.5			1.2	1.2	1.2	1.0	1.0	1.0

A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

B The 2018 yield data were collected at the Caldwell Co., Calloway Co., Caldwell Co., Fayette Co., Henderson Co., Logan Co., and Meade Co. locations. 2017 yield data were collected at the Breckinridge Co., Butler Co., Caldwell Co., Calloway Co., Cumberland Co., Fayette Co., Hancock Co., and Pulaski Co. locations. The 2016 yield data were collected at the Breckinridge Co., Butler Co., Calloway Co., Cumberland Co., Fayette Co., Hancock Co., and Russel Co. locations.

C The 2018 and 2017 oil and protein samples were collected at the Caldwell Co., Calloway Co., Cand Fayette Co. locations. The 2016 samples were collected at the Calloway Co. (Sevent for MC IV English and Late camples). Hancock Co. and Fayette Co. locations.

<sup>(</sup>except for MG IV Early and Late samples), Hancock Co., and Fayette Co. locations.

Table 6. 2018 Kentucky Soybean Variety Performance Tests Caldwell County - Pennyrile Region.

		IELD (BU/AC)		LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
MATURITY GROUP II (relative MG 2.0-2		44.0		4.7
ASGROW AG29X8	41.5	44.0		1.7
ASGROW AG28X9	39.3			1.3
ARMOR 29-D11	37.6			1.7
AGRIGOLD G2900RX	37.3			2.0
GROUP II AVERAGE	38.9	44.0		1.7
LSD (0.10)	2.5			
C.V.	5.4			
MATURITY GROUP III (relative MG 3.0-	3.9)			
AGRIGOLD G3520RX	62.1	54.9		2.3
SEED CONSULTANTS SC 8399X™	61.9			2.3
ARMOR 35-D20	61.5			2.3
AGRIGOLD G3722RX	60.0			2.0
PIONEER P36T36X	59.3			2.7
S35-K9X	58.8			2.3
ARMOR X35D92	57.2			2.7
SEED CONSULTANTS SCS 9385RR™	56.7	61.4	60.9	2.3
SEED CONSULTANTS SC 8379X™	56.6			2.3
ARMOR 39-D39	56.6	55.1		2.0
CAVERNDALE CF 364 STSn	56.6			2.3
BRODBECK 388R2	56.5	59.6		2.3
BRODBECK 368R2	56.0	51.6		2.0
ASGROW AG38X8	55.8	52.3		2.0
ASGROW AG37X9	55.1			2.0
ASGROW AG36X6	53.0			2.3
CZ 3841 LL	52.1	49.8	53.4	2.0
DYNA-GRO S39XT68	51.7	52.7		2.3
SEED CONSULTANTS SCS 9393RR™	51.7	59.7	59.1	1.7
CAVERNDALE CF 387 HT-GLYn	51.5	59.2	57.5	2.0
DYNA-GRO S39XT08	49.9	50.9		2.7
ASGROW AG39X7	49.6	57.1	57.9	2.0
CZ 3601 LL	49.1			2.0
PIONEER P37A78X	48.0			2.3
CHANNEL 3718R2X	47.6			2.3
ARMOR X30D53	47.1			3.3
WARREN SEED BG 3821 RR2X	42.0			2.0
GROUP III AVERAGE	54.2	55.4	57.8	2.3
LSD (0.10)	3.1	2.9	2.3	
C.V.				
	5.4	7.1	6.9	
MATURITY GROUP IV EARLY (relative N		7.1	6.9	
		7.1	6.9	3.0
MATURITY GROUP IV EARLY (relative N	/IG 4.0-4.5)	7.1	6.9	3.0 2.3
MATURITY GROUP IV EARLY (relative N CHANNEL 4517R2X	/IG 4.0-4.5) 74.9	7.1	6.9	
MATURITY GROUP IV EARLY (relative N CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™	<b>74.9</b> 72.5	7.1	6.9	2.3
MATURITY GROUP IV EARLY (relative N CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X	<b>74.9</b> 72.5 71.9	7.1	6.9	2.3 3.0
MATURITY GROUP IV EARLY (relative N CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2	74.9 72.5 71.9 68.5		6.9	2.3 3.0 2.3
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX	74.9 72.5 71.9 68.5 68.4	65.0	6.9	2.3 3.0 2.3 2.3
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX	74.9 72.5 71.9 68.5 68.4 68.3	65.0 59.7	6.9	2.3 3.0 2.3 2.3 2.0
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSn	74.9 72.5 71.9 68.5 68.4 68.3 68.3	65.0 59.7	6.9	2.3 3.0 2.3 2.3 2.0 2.7
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSn PROGENY 4570 RXS	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1	65.0 59.7 58.2	6.9 67.1	2.3 3.0 2.3 2.3 2.0 2.7 2.0
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9	65.0 59.7 58.2		2.3 3.0 2.3 2.3 2.0 2.7 2.0 2.7
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1	65.0 59.7 58.2 63.1 <b>66.3</b>		2.3 3.0 2.3 2.3 2.0 2.7 2.0 2.7 2.7
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1	65.0 59.7 58.2 63.1 <b>66.3</b> 64.5	67.1	2.3 3.0 2.3 2.3 2.0 2.7 2.0 2.7 2.7 2.7 2.3
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1 66.7	65.0 59.7 58.2 63.1 <b>66.3</b> 64.5	67.1	2.3 3.0 2.3 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1 66.7 66.2	65.0 59.7 58.2 63.1 <b>66.3</b> 64.5	67.1	2.3 3.0 2.3 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0 2.0
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 66.7 66.2 66.0 65.5	65.0 59.7 58.2 63.1 <b>66.3</b> 64.5	67.1	2.3 3.0 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0 2.0 2.7
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX USG 7447XTS AGRIGOLD G4579RX	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 66.7 66.2 66.0 65.5 65.4	65.0 59.7 58.2 63.1 <b>66.3</b> 64.5	67.1	2.3 3.0 2.3 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0 2.0 2.7 2.3 2.0 2.7
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX USG 7447XTS AGRIGOLD G4579RX UNIVERSITY OF MISSOURI S13-10592C	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 66.7 66.2 66.0 65.5 65.4 64.6	65.0 59.7 58.2 63.1 <b>66.3</b> 64.5 59.2	67.1	2.3 3.0 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0 2.0 2.7 2.3 3.0
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX USG 7447XTS AGRIGOLD G4579RX UNIVERSITY OF MISSOURI S13-10592C UNIVERSITY OF MISSOURI S13-3851C	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1 66.7 66.2 66.0 65.5 65.4 64.6 64.3	65.0 59.7 58.2 63.1 66.3 64.5 59.2	67.1	2.3 3.0 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0 2.0 2.7 2.3 3.0 2.3
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX USG 7447XTS AGRIGOLD G4579RX UNIVERSITY OF MISSOURI S13-10592C UNIVERSITY OF MISSOURI S13-3851C DYNA-GRO S44XS68	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1 66.7 66.2 66.0 65.5 65.4 64.6 64.3 64.3	65.0 59.7 58.2 63.1 66.3 64.5 59.2	67.1	2.3 3.0 2.3 2.0 2.7 2.0 2.7 2.7 2.3 2.0 2.0 2.7 2.3 3.0 2.3 1.7
MATURITY GROUP IV EARLY (relative M CHANNEL 4517R2X SEED CONSULTANTS SC 8439X™ STEWART 4339R2X A4447NSXR2 AGRIGOLD G4380RX LG SEEDS C4227RX CAVERNDALE CF 427 HT-GLY/STSN PROGENY 4570 RXS STEWART 4438R2X ASGROW AG43X7 HOEGEMEYER HPT 4522 NR STEWART 4527R2X HOEGEMEYER HPT 4511 NX USG 7447XTS AGRIGOLD G4579RX UNIVERSITY OF MISSOURI S13-10592C UNIVERSITY OF MISSOURI S13-3851C DYNA-GRO S44XS68 STEWART 4039R2X	74.9 72.5 71.9 68.5 68.4 68.3 68.3 68.1 67.9 67.1 66.7 66.2 66.0 65.5 65.4 64.6 64.3 64.3	65.0 59.7 58.2 63.1 66.3 64.5 59.2	67.1	2.3 3.0 2.3 2.0 2.7 2.0 2.7 2.3 2.0 2.0 2.7 2.3 3.0 2.3 1.7 2.0

Table 6. 2018 Kentucky Soybean Variety Performance Tests Caldwell County - Pennyrile Region.

REV® 4168X™ 49.9 2.0 STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5 LSD (0.10) 3.5 3.0 2.3 C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9) STEWART 4619R2X 62.9 REV® 4679X™ 62.7 2.3 GO SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 ASGROW AG47X9 56.9 1.3 ASGROW AG47X9 56.9 1.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 AA637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0			TELD (BU/AC)		LODGING
PRONEER P44A72BX 62.4  DYNA-GRO S-1X1S99 62.1  GL SEEDS LG SE64597RX 61.9  PRONEER P44A08L 61.8  2.7  PRINGER P44A08L 61.2  3.0  ASEROW AGEXES 61.1  2.7  PRINGER P44A047X 61.0  3.0  DYNA-GRO S-4209N 59.8  2.0  WARREN SEED BG 4322 RR2X 59.7  PRINGER P40A47X 59.1  SAS 3  2.3  ASERODBE CK 446R2 58.7  SB.2  BRODBECK 446R2 58.7  SB.2  BRODBECK 446R2 58.7  SB.2  BRODBECK 446R2 58.7				2016-2018	
DYNA-GRO S41X598 62.1 61.2 2.7  GS SEED SLGS45978X 61.9 2.7  FONDEER P44A08L 61.8 2.7  RARMOR 42-D27 61.8 53.5 2.7  STINE 40BA02 61.6 2.7  FONDEER P42A96X 61.4 2.0  AGRIGOLD G4190RX 61.2 3.0  AGRIGOLD G4190RX 61.2 3.0  AGRIGOLD G4190RX 61.0 3.0  DYNA-GRO S4209N 59.8 2.0  DYNA-GRO S4209N 59.8 2.0  DYNA-GRO S4209N 59.8 2.0  DYNA-GRO S4209N 59.8 2.0  SOS O'S 43C175 59.8 2.0  PRODEER P40A47X 59.1 54.3 2.3  SASGROW AG4XX9 59.1 57.0 58.3 2.3  RARMOR 45-D50 58.7 58.2 60.9 2.7  HS 45X80 58.7 58.2 60.9 2.7  HARMOR 45-D50 58.3 58.3 2.3  MARREN SEED BG 4210 RRZX 59.7 2.3  WARREN SEED BG 4210 RRZX 59.7 2.3  WARREN SEED BG 4210 RRZX 59.7 2.3  WARREN SEED BG 4210 RRZX 59.1 54.3 2.3  WARREN SEED BG 4210 RRZX 59.1 55.9 2.7  WARREN SEED BG 4210 RRZX 59.1 55.9 2.7  WARREN SEED BG 4210 RRZX 59.1 52.0  WARREN SEED BG 4210 RRZX 59.2 52.0  WARREN SEED B			63.6		
GSEEDS LGS4597RX 61.9 2.7  PIONEER P44A0RL 61.8 2.7  STINE 40BA02 61.6 2.7  STINE 40BA02 61.1 2.0  ASGROW AG42X9 61.1 2.7  OCCEMENTER HPT 4211 NX 61.0 3.0  SASGROW AG42X9 61.1 2.7  OCCEMENTER HPT 4211 NX 61.0 3.0  SASGROW AG42X9 59.8 2.7  SASGROW AG42X9 59.8 2.7  SASGROW AG42X9 59.8 2.0  WARREN SEED BG 4322 RRX 59.7 3.3  ASGROW AG4X6 59.1 57.0 58.3 2.3  SASGROW AG4X6 59.1 57.0 56.1 2.0  CACACZ 422 LL 56.8 47.1 46.4 2.7  CHANNER SEED BG 4510 RRX 57.1 2.7  SARRING SEED BG 4510 RRX 57.1 2.7  CZ 4222 LL 56.8 47.1 46.4 2.7  CHANNER SEED BG 4510 RRX 57.1 2.7  SARRING SEED BG 4510 RRX 57.5 5.8  SARRING SEED BG 45			(1.2		
PRONEER P44A08L 61.8 53.5 2.7  ARAMOR 42-D27 61.8 53.5 2.7  AGRIGOLD G4190RX 61.2 3.0  AGRIGOLD G4190RX 61.2 3.0  AGRIGOLD G4190RX 61.1 2.7  HOEGEMEYER HPT 4211 NX 61.0 3.0  DYNA-GRO S4209 59.8 2.7  HOEGEMEYER HPT 4211 NX 61.0 3.0  SO SOY 43C175 59.8 2.2  MARREN SEED BG 4322 RR2X 59.7 3.3  PRONEER P40A47X 59.1 54.3 2.3  ARAMOR 45-D43 58.7 58.2 60.9 2.7  HS 45800 58.7 58.2 3.0  MARREN SEED BG 4210 RR2X 57.1 55.9 2.7  PROGENY 4318 RX 57.1 2.7  UNIVERSITY OF MISSOURI S13-10590C 57.0 56.1 2.0  CC 4105 LL 56.6 56.6 57.2 2.0  CHANNEL 4218R2X 56.8 2.0  CC 4105 LL 56.6 56.6 57.2 2.0  CHANNEL 4218R2X 56.8 2.0  CC 4105 LL 56.6 56.6 55.5 3.3  RAMOR AS-DSON SET S.3 2.0  UNIVERSITY OF MISSOURI S13-2743C 54.4 50.9 2.7  PROGENY 4444 RXS 55.6 59.1 2.3  STEWART 4228R2X 54.0 46.9 2.7  PROGENY 4444 RXS 55.6 55.5 3.3  LOUND C4440RX 56.5 59.1 2.3  STEWART 4228R2X 56.2 61.2 2.3  PROGENY 4444 RXS 55.6 55.5 3.3  LOUND C4400RX 56.5 59.1 2.3  STEWART A228R2X 56.2 61.2 2.3  PROGENY 4444 RXS 55.6 55.5 3.3  LOUND C45450 S.5 59.1 2.3  STEWART A228R2X 56.2 61.2 2.3  PROGENY 4444 RXS 55.6 55.5 3.3  LOUND C57450 S.5 50.0 2.0  LOUND C57450 S.5 50.0 3.0 2.3  LOUND C57450 S.5 50.0 2.0  LOU			61.2		
ARMOR 42-D27 61.8 53.5 2.7  TITINE 40BA02 61.6 2.7  TITINE 40BA02 61.6 2.7  AGRIGOLD G4190RX 61.2 3.0  AGRIGOLD G4190RX 61.2 3.0  AGRIGOLD G4190RX 61.1 2.7  AGRIGOLD G4190RX 61.0 3.0  DYNA-GRO S4209N 59.8 2.7  SO SOY 43C175 59.8 2.0  AGRIGOLD G4190RX 59.1 59.8 2.7  SO SOY 43C175 59.8 2.0  TOWNA-GRO S4209N 59.8 2.7  SO SOY 43C175 59.8 2.0  TOWNA-GRO S4209N 59.1 54.3 2.3  SASGROW AG44X6 59.1 57.0 58.3 2.3  SASGROW AG44X6 59.1 57.0 58.3 2.3  SASGROW AG44X6 59.1 57.0 58.3 2.3  SARMOR 45-D30 58.7 58.2 60.9 2.7  SASGROW AG44X6 59.1 57.0 58.3 2.3  ARMOR 45-D30 58.3 2.3  ARMOR 45-D30 58.3 2.3  ARMOR 45-D30 58.3 2.3  ARMOR 45-D30 58.3 2.3  ARMOR 45-D43 58.2 3.0  AMAREN SEED BG 4310 RR2X 58.1 55.9 2.7  MARREN SEED BG 4510 RR2X 57.3 62.6 2.7  INVERSITY OF MISSOURI S13-10590C 57.0 56.1 2.0  CZ 4222LL 56.8 47.1 46.4 2.7  ILANNEL 4218R2X 56.8 47.1 46.4 2.7  ILANNEL 4218R2X 56.8 47.1 46.4 2.7  ILANNEL 4218R2X 56.8 59.1 2.3  AGRIGOLD G4440RX 56.5 59.1 2.3  AGRIGOLD G4440RX 56.5 59.1 2.3  ARMOR A40D85 55.5 2.0  SO SOY E4510S 2.0  INVERSITY OF MISSOURI S13-2743C 54.4 50.9 2.7  FROGENY 444 RX 55.6 55.5 3.3  ARMOR X40D85 55.5 2.0  SO SOY E4510S 2.0  INVERSITY OF MISSOURI S13-2743C 54.4 50.9 2.7  CZ 4222LL 54.8 L 54.2 2.7  FROGENY 444 RX 55.6 55.5 3.3  ARMOR X40D85 55.5 2.0  SO SOY E4510S 2.0  AGRIGOLD G4440RX 59.0 56.7 59.1 2.3  STEWART 425R2X 48.2 48.7 54.6 2.7  STEWART 425R2X 48.2 48.7 54.6 2.7  SROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  SROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  SROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  SROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.3  AGROWA AG4099 58.4 2.3  AGGROWA AG4099 58.4 2.3					
STINE 40BA02 61.6 2.7 POINTER PAZAPOK 61.4 2.0 POINTER PAZAPOK 61.1 2.0 POINTER PAZAPOK 61.1 2.7 POINTER PAZAPOK 59.8 2.7 POINTER PAZAPOK 59.8 2.0 PAZAPOK 59.9 59.7 57.0 58.3 2.3 PAZAPOK 59.1 57.0 58.1 2.3 PAZAPOK 59.1 57.0 58.1 2.3 PAZAPOK 59.1 57.0 56.1 2.0 PAZAPOK 59.1 2.3 PAZAPOK 59.1 57.0 56.1 2.0 PAZAPOK 59.1 57.0 56.1 57.1 2.0 PAZAPOK 59.1 57.0 56.1 57.1 2.0 PAZAPOK 59.1 57.0 56.1			F2 F		
PRONEER P42A96X 61.4  AGRIGOLD C4190RX 61.2  3.0  AGRIGOLD C4190RX 61.1  2.7			55.5		
AGRIGOLD G4190RX A6SGROW AG42X9 61.1 2.7 ASGROW AG42X9 61.1 2.7 ASGROW AG42X9 61.1 2.7 AGSGOW AG42X9 61.1 2.7 AGAGGOS4209N 59.8 2.7 SO SOY 43C175 59.8 2.0 AGROW AG4X7 59.1 59.8 2.0 AGROW AG4X7 59.1 54.3 2.3 ASGROW AG44X6 59.1 57.0 58.3 2.3 ASGROW AG44X6 59.1 57.0 58.3 2.3 ASGROW AG44X6 59.1 57.0 58.3 2.3 ARMOR 45-DS0 58.7 58.2 60.9 2.7 ARMOR 45-DS0 58.8 ARMOR 45-DS1 ARMOR SEED BG 4210 RR2X 58.1 55.9 2.7 ARREN SEED BG 4210 RR2X 57.3 62.6 2.7 PROGENY 4318 RX 57.1 2.7 ARREN SEED BG 4510 RR2X 57.3 62.6 2.7 CZ 4222 LL 56.8 47.1 46.4 2.7 CHANNEL 4218R2X 56.8 2.0 AGRICOLD G4440RX 56.5 59.1 2.3 AGRICOLD G4440RX 56.5 59.1 2.3 AGRICOLD G4440RX 56.5 59.1 2.3 AGROW A444 RXS 55.6 55.5 2.0 AGRICOLD G4440RX 56.5 59.1 2.3 AGROW A444 RXS 55.6 55.5 2.0 AGRICOLD G4440RX 56.5 AGROW A4440RX 56.6 AGROW A4440RX 57.5 AGROW A4440RX 57.7 ARMOR A44016 AGROW A4440RX 57.7 ARMOR A44016 AGROW A440RX 57.7 ARMOR A44016 AGROW A					
ASGROW AG42X9 61.1 2.7 HOEGEMEYER HPT 4211 NX 61.0 3.0 DYNA-GRO S4209N 59.8 2.7 SOS OSY 43C175 59.8 2.0 SOS OSY 43C175 59.8 2.0 MARREN SEED BG 4322 RR2X 59.7 3.3 ASGROW AG44X6 59.1 57.0 58.3 2.3 ASGROW AG45DECK 446R2 58.7 58.2 60.9 2.7 HS 45X80 58.7 58.2 60.9 2.7 HS 45X80 58.7 58.2 3.0 ARRINGR 45-D43 58.2 3.0 WARREN SEED BG 4210 RR2X 58.1 55.9 2.7 WARREN SEED BG 4210 RR2X 57.3 62.6 2.7 PROGENY 4318 RX 57.1 2.7 UNIVERSITY OF MISSOURI S13-10590C 57.0 56.1 2.0 CZ 4222 LL 56.8 47.1 46.4 2.7 CLANNEL 4218R2X 56.8 2.0 AGRIGOLD G4440RX 56.5 59.1 2.3 AGRIGOLD G4440RX 56.5 59.1 2.3 AGRIGOLD G4440RX 56.5 59.1 2.3 STEWART 4228R2X 56.2 61.2 2.3 SPROGENY 4434 RXS 55.6 55.5 3.3 ARMOR X40D85 55.5 2.0 SOS OF 24510S 55.3 2.0 UNIVERSITY OF MISSOURI S13-2743C 54.4 50.9 2.7 ARROW ASDROW A					
HOGGEMEVER HPT 4211 NX  61.0  3.0  DYNA_GRO S4209N  59.8  2.7  S0.5 OS V 43C17S  59.8  2.0  MARREN SEED BG 4322 RR2X  59.7  3.3  PRONEER P40A47X  59.1  54.3  23.3  SRCODBECK 446R2  58.7  58.2  60.9  27.7  SABROOBECK 446R2  58.7  58.2  60.9  27.7  SARMOR 45-D50  58.3  2.3  SRRODBECK 446R2  58.7  58.2  60.9  27.7  SARMOR 45-D50  58.3  2.3  SRRODBECK 446R2  58.7  58.2  3.0  WARREN SEED BG 4210 RR2X  58.1  58.2  3.0  WARREN SEED BG 4210 RR2X  58.1  55.9  2.7  WARREN SEED BG 4210 RR2X  57.1  2.7  UNIVERSITY OF MISSOURI \$13-10590C  57.0  56.1  2.0  CZ 4222 LL  56.8  47.1  46.4  2.7  CHANNEL 4218R2X  56.8  56.6  56.6  57.2  2.0  AGRIGOLD G4440RX  56.5  59.1  2.3  STEWART 4228R2X  56.6  56.6  55.5  3.3  SARMOR X4008S  55.5  50.50 YE4510S  55.5  30.50 YE4510S  55.5  30.0  CZ 4329 LL  54.4  54.9  PROGENY 4255 RX  54.0  46.9  2.7  PROGENY 4255 RX  54.0  AGRIGOLD MARREN SEED BG  55.9  55.9  30.0  CZ 4328 LL  52.4  52.7  SRROWN X41D47  52.9  STEWART 4327R2X  48.2  48.7  54.6  55.7  20.0  CZ 4388 LL  52.4  52.7  SRROWN X41D47  52.9  STEWART 4327R2X  48.2  48.7  54.6  2.7  SRROWN X44D36  51.0  2.3  STEWART 4327R2X  48.2  48.7  54.6  2.7  SRROWN X44D36  51.0  2.3  STEWART 4327R2X  48.2  48.7  54.6  2.7  SRROWN X44D36  51.0  2.3  STEWART 4327R2X  58.2  58.1  2.5  STEWART 4327R2X  58.2  58.1  2.0  CX-V.  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4327R2X  57.7  58.8  58.9  2.0  ASGROWN AG49X9  58.4  2.3  SAGROWN AG48X9  57.5  57.5  58.8  2.0  CZ 44291B LL  59.9  50.0  50.9  51.0  52.3  52.0  52.0  52.0  53.3					
DYNA-GRO S4209N 59.8 2.7 50 SOY 43C17S 59.8 2.0 MARREN SEED BG 4322 RR2X 59.7 59.1 54.3 2.3 ASGROW AG44X6 59.1 59.1 57.0 58.3 2.3 ASGROW AG44X6 59.1 57.0 58.3 2.3 ARMOR 45-D50 58.7 58.2 60.9 2.7 ARMOR 45-D50 58.3 3.0 ARMOR 45-D50 58.3 3.0 ARMOR 45-D43 MARREN SEED BG 4210 RR2X 58.1 55.9 2.7 MARREN SEED BG 4510 RR2X 57.3 62.6 27.7 AVARREN SEED BG 4510 RR2X 57.3 CHANNEL 4218R2X 56.8 2.0 CZ 4105 LL 56.8 47.1 46.4 2.7 CHANNEL 4218R2X 56.8 2.0 CZ 4105 LL 56.6 56.6 56.6 57.2 2.0 ARRIGOLD G4440RX 55.5 55.5 50.0 SO SOY E4510S 55.3 2.0 UNIVERSITY OF MISSOURI S13-2743C 54.4 50.9 CZ 4458 LL 52.4 48.7 54.8 ARMOR X44D36 51.0 CZ 4458 LL 52.4 ARMOR X44D36 51.0 STEWART 4232R2X 48.2 48.7 54.6 55.5 55.7 ARRIGOLD FOR MISSOURI S13-2743C 54.4 50.9 2.7 CZ 4588 LL 52.9 CZ 4308 LL 52.4 ARRIGOR X44D36 51.0 STEWART 4232R2X 48.2 48.7 54.6 55.5 55.7 ARRIGOR X44D36 51.0 CZ 4308 LL 52.4 ARRIGOR X44D36 51.0 STEWART 4237R2X 48.2 48.7 54.6 55.7 ARRIGOR X44D36 51.0 STEWART 4237R2X 48.2 48.7 54.6 55.7 ARRIGOR X44D36 51.0 CZ 4588 LL 52.4 CZ 4582 LL 52.4 CZ 4582 LL 52.7 ARRIGOR X44D36 51.0 STEWART 4327R2X 48.2 48.7 54.6 CZ 4582 LL 59.8  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5 STEWART 4619R2X 50.5 STEWA					
SGO SOY 43C17S					
MARREN SEED BG 4322 RR2X  PRONEER P40A4TX  59.1  54.3  2.3  ASGROW AG44X6  59.1  57.0  58.3  2.3  BRODBECK 446R2  58.7  58.2  60.9  2.7  HS 45X80  58.7  58.2  60.9  2.7  ARMOR 45-D50  58.3  2.3  ARMOR 45-D43  58.2  3.0  MARREN SEED BG 4210 RR2X  58.1  55.9  2.7  MARREN SEED BG 4210 RR2X  57.3  62.6  2.7  PROGENY 4318 RX  57.1  2.7  UNIVERSITY OF MISSOURI S13-10590C  57.0  56.1  2.0  CZ 4222 LL  56.8  47.1  46.4  2.7  CHANNEL 4218R2X  56.8  56.8  57.2  2.0  AGRICOLD G4440RX  56.5  59.1  2.3  STEWART 4228R2X  56.2  56.5  57.2  2.0  LINIVERSITY OF MISSOURI S13-2743C  54.4  50.9  2.7  PROGENY 4444 RX5  55.0  55.5  50.0 SOY E4510S  55.0  50.0 SOY E4510S  55.3  2.0  UNIVERSITY OF MISSOURI S13-2743C  54.4  50.9  2.7  CZ 438B LL  52.4  52.7  ARMOR X4036  51.0  51.0  52.4  53.0  ARMOR X4036  51.0  52.4  54.2  55.5  55.5  56.7  57.1  58.8  58.2  58.1  58.2  58.1  58.2  58.1  58.2  58.1  58.2  58.3  58.2  58.3  58.2  58.3					
PRODEER P40A47X					
ASGROW AG44X6  AGAGSAYA  A			54.3		
BRODBECK 446R2 58.7 58.2 60.9 2.7 HS 45X80 58.7 2.3 ARMOR 45-D50 58.3 2.3 ARMOR 45-D43 58.2 3.0 WARREN SEED BG 4210 RR2X 58.1 55.9 2.7 WARREN SEED BG 4210 RR2X 57.3 62.6 2.7 PROGENY 4318 RX 57.1 2.7 UNIVERSITY OF MISSOURI S13-10590C 57.0 56.1 2.0 CZ 4222 LL 56.8 47.1 46.4 2.7 CHANNEL 4218R2X 56.8 2.0 CZ 4222 LL 54.2 2.3 PROGENY 4444 RX5 55.5 55.5 2.0 GO SOY E4510S 55.3 2.0 UNIVERSITY OF MISSOURI S13-2743C 54.4 50.9 2.7 CZ 458 LL 54.2 2.7 PROGENY 4255 RX 54.0 46.9 2.7 PROGENY 4255 RX 54.0 46.9 2.7 ARMOR X44D36 51.0 2.3 ARM				58.3	
HS 45X80 58.7 2.3  ARAMOR 45-D50 58.3 2.3  ARAMOR 45-D51 58.2 3.0  WARREN SEED BG 4210 RR2X 57.3 62.6 2.7  PROGENY 4318 RX 57.1 2.7  UNIVERSITY OF MISSOURI \$13-10590C 57.0 56.1 2.0  CZ 4222 LL 56.8 47.1 46.4 2.7  CHANNEL 4218R2X 56.8 2.0  CZ 4105 LL 56.6 56.6 56.6 57.2 2.0  AGRIGOLD 64440RX 56.5 59.1 2.3  STEWART 4228R2X 56.2 61.2 2.3  PROGENY 4444 RXS 55.6 55.5 3.3  ARAMOR X40D85 55.5 2.0  SO SOY E4510S 55.3 2.0  UNIVERSITY OF MISSOURI \$13-2743C 54.4 50.9 2.7  CZ 4588 LL 54.2 2.7  PROGENY 4255 RX 54.0 46.9 2.7  ARAMOR X41D47 52.9 3.0  CZ 4308 LL 52.4 2.7  ARAMOR X41D47 52.9 3.0  STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  SISUMART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 478B LL 59.2 57.6 57.1 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 478B LL 59.2 57.6 57.1 2.0  ASGROW AG40X9 58.4 2.3  DYSG 7487XTS 57.7 55.8 1.3  PRODEER P46A16R 57.5 61.2 2.3  PROGENY 4994 RX 57.5 5.9 2.7  ASGROW AG48X9 57.3 1.7  STEVNEER P46A16R 57.5 61.2 2.3  PROGENY 4994 RX 57.5 5.9  ASGROW AG47X9 56.9 1.3  PROGENY 4998 TT 55.3 1.0  DEGRET P47A76L 56.9  PROGENY 4757 RY 56.0 56.7 59.1 2.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.					
ARMOR 45-D50  ARMOR 45-D43  ARMOR 45-D43  ARMOR 45-D43  ARMOR 45-D43  ARMOR 45-D43  ARREN SEED BG 4210 RR2X  ARREN SEED BG 4510 RR2X  ARREN SEED BG 4510 RR2X  57.3  62.6  2.7  PROGENY 4318 RX  57.1  2.7  UNIVERSITY OF MISSOURI S13-10590C  57.0  56.1  2.0  CZ 4222 LL  56.8  47.1  46.4  2.7  CZ 4105 LL  56.6  56.6  56.6  57.2  2.0  AGRIGOLD G4440RX  56.5  59.1  2.3  AGRIGOLD G4440RX  55.6  55.5  3.3  ARMOR X40D85  55.5  2.0  UNIVERSITY OF MISSOURI S13-2743C  54.4  50.9  2.7  PROGENY 4444 RXS  55.6  55.5  3.0  2.0  UNIVERSITY OF MISSOURI S13-2743C  54.4  50.9  2.7  CZ 4548 LL  54.2  2.7  ARMOR X41D47  52.9  3.0  CZ 4308 LL  52.4  2.7  ARRMOR X44D36  51.0  2.3  ARRWOR X44D36  51.0  2.3  ARROR X44D36  51.0  2.0  ARROR X44D36  51.0  ARR			30.2	00.7	
ARMOR 45-D43  ARMOR 45-D43  ARRHON SEED BG 4210 RR2X  58.1  55.9  2.7  MARREN SEED BG 4210 RR2X  57.3  62.6  2.7  MARREN SEED BG 4210 RR2X  57.3  62.6  2.7  MARREN SEED BG 4210 RR2X  57.1  2.7  UNIVERSITY OF MISSOURI \$13-10590C  57.0  56.1  2.0  CZ 4222 LL  56.8  47.1  46.4  2.7  CHANNEL 4218R2X  56.8  56.8  50.0  AGRIGOLD 64440RX  56.5  55.5  55.1  2.0  AGRIGOLD 64440RX  56.5  55.5  55.5  3.3  ARMOR X40D85  55.5  50.0  SO SOY E4510S  UNIVERSITY OF MISSOURI \$13-2743C  54.4  54.2  2.7  PROGENY 4255 RX  54.0  46.9  2.7  CZ 4308 LL  52.4  ARMOR X41D47  52.9  3.0  ARRMOR X44D36  51.0  2.3  ARRWOR X44D36  51.0  2.3  ARRWOR X44D36  51.0  2.3  ARRWOR X44D36  51.0  55.5  55.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.7  MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.7  ASGROW AG46X6  59.2  57.6  57.1  20.0  ASGROW AG49X9  58.4  23.3  ASGROW AG40X9  58.4  23.3  ASGROW AG40X9  58.4  23.3  ASGROW AG40X9  58.6  57.7  55.8  1.3  PROGENY 499 RX  57.5  57.7  55.8  1.3  PROGENY 499 RX  57.5  57.7  57.7  57.7  57.7  57.8  ASGROW AG48X9  57.7  57.7  57.7  57.7  57.8  AGSGROW AG47X9  56.9  1.3  AGGROW AG49XT  55.9  20  SGROW AG49XY  56.9  1.3  AGGROW AG49XY  56.9  1.3  AGGROW AG48X9  57.3  1.7  AGGROW AG48X9  57.3  3.0  2.3  AGGROW AG47X9  56.9  1.3  AGGROW AG47X9  56.9  1.3  AGGROW AG49XY  56.9  1.3  AGGROW AG47X9  56.9  1.3  AGGROW AG49XY  56.9  1.3  AGGR					
MARREN SEED BG 4210 RR2X  MARREN SEED BG 4510 RR2X  57.3  62.6  2.7  PROCENY 4318 RX  57.1  2.7  UNIVERSITY OF MISSOURI \$13-10590C  57.0  56.1  2.0  CZ 4222 LL  56.8  47.1  46.4  2.7  CHANNEL 4218R2X  56.8  56.8  56.6  57.2  2.0  AGRIGOLD G4440RX  56.5  59.1  2.3  STEWART 4228R2X  56.6  56.6  57.2  2.0  AGRIGOLD G4440RX  55.5  59.1  2.3  STEWART 4228R2X  56.2  61.2  2.3  PROCENY 4444 RXS  55.6  55.5  3.3  ARMOR X40D85  55.5  50.0  UNIVERSITY OF MISSOURI \$13-2743C  54.4  50.9  2.7  PROCENY 4255 RX  54.0  46.9  2.7  ARMOR X41D47  52.9  3.0  ZZ 4398 LL  52.4  48.7  54.6  57.7  58.8  58.1  2.5  STEWART 4327R2X  48.2  48.7  54.6  2.7  STEWART 4327R2X  48.2  48.7  54.6  2.7  STEWART 4327R2X  48.2  48.7  54.6  2.7  STEWART 4519R2X  62.7  STEWART 4519R2X  62.7  ARMOR X44D36  51.0  2.3  STEWART 4519R2X  62.7  STEWART 4519R2X  62.7  ARMOR X44D36  51.0  2.3  STEWART 4519R2X  62.7  STEWART 4327R2X  48.2  48.7  54.6  2.7  STEWART 4519R2X  62.7  STEWART 4519R2X  62.9  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4380 LL  59.8  60.0  50.0  ASGROW AG49X9  58.4  2.3  STEWART 4519R2X  62.7  2.3  SGO SOV Ireane  62.6  65.5  62.3  1.7  CZ 4380 LL  59.8  60.0  50.0  ASGROW AG49X9  58.4  2.3  STEWART 4519R2X  62.7  2.3  SGO SOV Ireane  62.6  65.5  62.3  1.7  CZ 4380 LL  59.8  60.0  50.0					
### SEED BG 4510 RR2X			55.9		
PROGENY 4318 RX  57.1  2.7  UNIVERSITY OF MISSOURI \$13-10590C  57.0  56.1  2.0  CZ 4222 LL  56.8  47.1  46.4  27  CHANNEL 4218R2X  56.8  56.8  56.6  57.2  2.0  AGRIGOLD G4440RX  56.5  59.1  2.3  STEWART 4228R2X  56.2  61.2  2.3  PROGENY 4444 RXS  55.6  55.5  3.3  ARMOR X40D85  55.5  2.0  UNIVERSITY OF MISSOURI \$13-2743C  54.4  50.9  2.7  ZZ 4548 LL  54.2  2.7  PROGENY 425 RX  54.0  46.9  2.7  ARMOR X41D47  52.9  3.0  CZ 4308 LL  52.4  3.0  STEWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  STEWART 4619R2X  62.9  50.5  CV.  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  52.4  53.0  54.6  57.7  57.7  58.8  1.3  PONDEER P48A60X  57.7  57.7  58.8  1.3  PONDEER P48A60X  57.7  57.7  58.8  1.3  PONDEER P48A60X  57.7  57.9  ASGROW AG48Y9  58.9  ASGROW AG48Y9  57.5  57.7  58.8  1.3  PONDEER P48A60X  57.7  57.7  58.8  1.3  PROGENY 475R RY  56.9  1.3  ASGROW AG48X9  57.3  2.7  ASGROW AG48X9  57.3  2.7  ASGROW AG48X9  57.3  2.7  ASGROW AG47X9  56.9  1.3  AGA37NSXR2  55.2  2.0  AGA37NSXR2  55.9  2.0  AGA37NSXR2  57.9  AGA37NSX					
UNIVERSITY OF MISSOURI \$13-10590C CZ 4222 LL 56.8 47.1 46.4 2.7 CHANNEL 4218R2X 56.8 2.0 CZ 4122 LL 56.6 56.6 57.2 2.0 AGRIGOLD C4440RX 56.5 59.1 2.3 STEWART 4228R2X 56.2 61.2 2.3 PROGENY 4444 RXS 55.6 55.5 3.3 ARMOR X40D85 55.5 55.5 2.0 UNIVERSITY OF MISSOURI \$13-2743C 54.4 50.9 UNIVERSITY OF MISSOURI \$13-2743C 54.4 50.9 2.7 PROGENY 4255 RX 54.0 46.9 2.7 ARMOR X41D47 52.9 3.0 CZ 4388 LL 52.4 2.7 ARMOR X41D47 52.9 3.0 STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5 STEWART 4327R2X 48.2 48.7 54.6 2.7  MATURITY GROUP IV LATE (relative MG 4.6-4.9) STEWART 4619R2X 62.7 SCZ 4788 LL 59.2 62.7 SCZ 4788 LL 59.2 62.7 SCZ 4788 LL 59.2 SCZ 478 LL 59.2 SCZ 4788 LL 59.2 SCZ 47			02.0		
CZ 4222 LL CHANNEL 4218R2X CZ 4105 LL CHANNEL 4218R2X CZ 4105 LL S6.6 S6.6 S6.6 S7.2 CZ 4105 LL S6.6 S6.6 S7.2 CZ 4105 LL S6.6 S6.6 S7.2 CZ 408 CL SEWART 4228R2X S6.2 SETEWART 4228R2X S6.2 SETEWART 428R2X S6.2 SETEWART 444 RXS S5.6 S5.5 S3.3 SARMOR X40D85 S5.5 S2.0 SGO SOY E4510S S5.3 S2.0 SO SOY E4510S S5.3 S2.0 SETEWART 425R RX S4.0 S6.9 SETEWART 425R RX S4.0 SETEWART 4327R2X SETEWART 4327R2X SETEWART 4327R2X SETEWART 4327R2X SETEWART 4327R2X SETEWART 4327R2X SETEWART 44519R2X SETEWART 4619R2X SETEWART 4			56.1		
CHANNEL 4218R2X  CZ 4105 LL  56.6  56.6  57.2  2.0  AGRIGOLD G4440RX  56.5  59.1  2.3  STEWART 4228R2X  56.2  61.2  2.3  PROGENY 4444 RXS  55.6  55.5  3.3  ARMOR X40085  55.5  2.0  GO SOY E4510S  UNIVERSITY OF MISSOURI \$13-2743C  54.4  50.9  2.7  ZZ 4548 LL  54.2  2.7  PROGENY 4255 RX  54.0  46.9  2.7  ARMOR X41D47  52.9  2.0  STEWART 423R2X  48.2  48.7  54.6  2.7  ARMOR X44D36  51.0  2.3  REV® 4168X™  49.9  STEWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  LSD (0.10)  3.5  3.0  2.3  REV® 4679X™  62.7  GO SOY Ireane  62.6  65.5  62.3  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG49X9  58.4  2.3  USG 7487XTS  57.7  55.8  1.3  PROOLEN PAGATOR  PROOLEN PAGATOR  57.7  58.7  57.7  57.7  57.7  57.7  57.7  57.7  57.7  57.8  57.7  57.7  57.8  57.7  57.9  57.				46.4	
CZ 4105 LL  56.6  57.2  2.0  AGRIGOLD G4440RX  56.5  59.1  2.3  STEWART 4228R2X  56.2  61.2  2.3  PROGENY 4444 RXS  55.6  55.5  55.5  2.0  GO SOY E4510S  55.3  2.0  UNIVERSITY OF MISSOURI S13-2743C  54.4  50.9  2.7  CZ 4548 LL  54.2  2.7  PROGENY 4255 RX  54.0  46.9  2.7  ARMOR X41D47  52.9  2.0  STEWART 4328R2X  54.4  50.9  2.7  ARMOR X41D47  52.9  3.0  CZ 4308 LL  52.4  2.7  ARMOR X41D47  52.9  3.0  STEWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  CV.  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  CZ 4748 LL  59.8  65.0  20.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 2472 LL  59.8  65.0  20.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  20.0  ASGROW AG49X9  58.4  2.3  USG 7487XTS  57.7  55.8  1.3  PPIONEER P48A60X  57.7  PIONEER P48A60X  57.7  PIONEER P48A60X  57.7  PIONEER P48A60X  57.7  PIONEER P48A60X  57.7  ASGROW AG4X9  56.9  1.3  PROGENY 4797 RY  56.0  56.7  59.1  2.3  ASGROW AG47X9  56.9  1.3  AGA37NXR2  56.0  USG 7489XT  55.3  1.0	CHANNEL 4218R2X				2.0
STEWART 4228R2X 56.2 61.2 2.3 PROGENY 4444 RXS 55.6 55.5 3.3 ARMOR X40D85 55.5 55.5 2.0 GO SOV E4510S 55.3 2.0 UNIVERSITY OF MISSOURI \$13-2743C 54.4 50.9 2.7 CZ 4548 LL 54.2 2.7 ARMOR X41D47 52.9 3.0 CZ 4308 LL 52.4 ARMOR X41D47 52.9 3.0 CZ 4308 LL 52.4 48.7 54.6 2.7 ARMOR X44D36 51.0 2.3 AREV** 4168X*** 49.9 2.0 STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5 LSD (0.10) 3.5 3.0 2.3 C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9) STEWART 4619R2X 62.9 REV** 4679X*** 62.9 REV** 4679X*** 62.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PPIONEER P48A60X 57.7 2.7 ASGROW AG48X9 57.3 1.7 STINE 488A23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 AG67489XT 55.3 2.0 USG 7489XT 55.3 2.0 USG 7489	CZ 4105 LL		56.6	57.2	
PROGENY 4444 RXS PROGENY 44444 RXS PROGENY 44510S STEWART 4619R2X PROGENY 4255 RX PROGENY 446.9 PROGENY 446.9 PROGENY 446.9 PROGENY 446.9 PROGENY 444.0 PROGENY 446.9 PROGENY 446.9 PROGENY 446.9 PROGENY 446.9 PROGENY 446.9 PROGENY 446.9 PROGENY 4679X™ PROGENY 4679X PX PROGENY 4677XP PROGENY 4677XP PROGENY 4677XP PROGENY 4757 RY PROGE	AGRIGOLD G4440RX				
ARMOR X40D85 55.5 2.0  GO SOY E4510S 55.3 2.0  UNIVERSITY OF MISSOURI \$13-2743C 54.4 50.9 2.7  CZ 4548 LL 54.2 2.7  PROGENY 4255 RX 54.0 46.9 2.7  ARMOR X41D47 52.9 3.0  CZ 4308 LL 52.4 2.7  ARMOR X44D36 51.0 2.3  REV® 4168X™ 49.9 2.0  STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  LSD (0.10) 3.5 3.0 2.3  C.V. 5.5 6.7 6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9 2.0  MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 4428 LL 59.8 65.0 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 4748 LL 59.2 57.6 57.1 2.0  ASGROW AG49X9 58.4 2.3  USG 7487XTS 57.7 55.8 1.3  PIONEER P48A60X 57.7 2.7  PIONEER P48A60X 57.7 2.7  PIONEER P48A60X 57.7 2.7  PROGENY 4994 RX 57.5  ASGROW AG48X9 57.3 1.7  STINE 48BA23 57.3 2.7  ASGROW AG47X9 56.9 1.3  PRONEER P47A76L 56.9  PRONEER P47A75RY 56.0 56.7 59.1 2.3  AA637NSXR2 55.8 2.0  USG 7489XT 55.3 1.0  CZ 4918 LL 55.2 2.0	STEWART 4228R2X	56.2	61.2		2.3
GO SOY E4510S  GO SOY E4510S  UNIVERSITY OF MISSOURI S13-2743C  54.4  50.9  2.7  CZ 4548 LL  PROGENY 4255 RX  54.0  46.9  2.7  ABMOR X41D47  52.9  3.0  CZ 4308 LL  52.4  2.7  ARMOR X44D36  51.0  2.3  REV® 4168X™  49.9  51EWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  LSD (0.10)  3.5  3.0  2.3  CV.  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  REV® 4679X™  62.7  62.7  62.4820 LL  59.8  65.0  60.5 65.5  62.3  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG49X9  58.4  2.3  USG 7487XTS  57.7  55.8  1.3  PIONEER P48A60X  57.7  PIONEER P46A16R  57.5  66.9  1.3  ASGROW AG47X9  56.9  1.3  PROGENY 4994 RX  57.5  ASGROW AG47X9  56.9  1.3  PROGENY 4757 RY  56.0  56.7  59.1  2.3  PROGENY 4757 RY  56.0  56.7  57.7  57.7  57	PROGENY 4444 RXS	55.6	55.5		3.3
UNIVERSITY OF MISSOURI \$13-2743C  CZ 4548 LL  PROGENY 4255 RX  54.0  46.9  2.7  ARMOR X41D47  52.9  3.0  CZ 4308 LL  52.4  ARMOR X44D36  51.0  2.3  RELV® 4168X™  49.9  2.0  STEWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  STEWART 4619R2X  57.6  57.6  57.1  2.0  ASGROW AG48X9  57.7  55.8  1.3  PIONEER P48A60X  57.5  ASGROW AG48X9  57.3  STINE 48BA23  57.3  ASGROW AG48X9  57.3  ASGROW AG48X9  57.3  ASGROW AG47X9  56.9  1.3  PROGENY 4757 RY  56.0  56.7  59.1  2.3  AA637NSXR2  55.8  2.0  USG 7489XT  55.3  1.0  CZ 4918 LL  55.2  2.0	ARMOR X40D85	55.5			2.0
CZ 4548 LL PROGENY 4255 RX 54.0 46.9 2.7 ARMOR X41D47 52.9 3.0 CZ 4308 LL 52.4 ARMOR X44D36 51.0 2.3 AREV™ 4168X™ 49.9 2.0 STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 LSD (0.10) 3.5 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9) STEWART 4619R2X 62.9 REV™ 4679X™ 62.7 GG SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P46A16R 57.5 ASGROW AG48X9 57.3 ASGROW AG47X9 56.9 AG4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0	GO SOY E4510S	55.3			2.0
PROGENY 4255 RX  54.0  46.9  2.7  ARMOR X41D47  52.9  3.0  CZ 4308 LL  52.4  2.7  ARMOR X44D36  51.0  2.3  REV® 4168X™  49.9  2.0  STEWART 4327R2X  48.2  48.7  54.6  2.7   GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  LSD (0.10)  3.5  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  REV® 4679X™  62.7  2.3  GO SOY Ireane  62.6  65.5  62.3  1.7  CZ 4820 LL  59.8  65.0  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG49X9  58.4  2.3  USG 7487XTS  57.7  55.8  1.3  PHONEER P48A60X  57.7  PLONEER P46A16R  57.5  61.2  2.3  PROGENY 4994 RX  57.5  ASGROW AG48X9  57.3  ASGROW AG48X9  57.3  ASGROW AG48X9  57.3  ASGROW AG47X9  56.9  PROGENY 4994 RX  57.5  ASGROW AG47X9  56.9  PROGENY 4757 RY  56.0  56.7  59.1  2.3  2.6  2.7  2.7  2.7  2.8  2.8  2.0  2.0  2.0  2.0  2.0  2.0	UNIVERSITY OF MISSOURI S13-2743C	54.4	50.9		2.7
ARMOR X41D47  CZ 4308 LL  52.4  ARMOR X44D36  STEWART 4327R2X  48.2  48.7  STEWART 4327R2X  48.2  48.7  SETEWART 4327R2X  48.2  SETEWART 4327R2X  48.2  SETEWART 4619R2X  62.9  SETEWART 4679X™  62.7  SETEWART 4619R2X  57.6  57.1  2.0  SETEWART 4619R2X  57.6  57.7  55.8  1.3  SETEWART 4619R2X  57.7  SETEWART 4619R2X  57.8  SETEWART 4619R2X  SETEWART 461, SE	CZ 4548 LL	54.2			2.7
CZ 4308 LL 52.4 2.7  ARMOR X44D36 51.0 2.3  REV® 4168X™ 49.9 2.0  STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5  LSD (0.10) 3.5 3.0 2.3  C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9  REV® 4679X™ 62.7 2.3  GO SOY Ireane 62.6 65.5 62.3 1.7  CZ 4820 LL 59.8 65.0 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 4748 LL 59.2 57.6 57.1 2.0  ASGROW AG49X9 58.4 2.3  USG 7487XTS 57.7 55.8 1.3  PHONEER P48A60X 57.7  PHONEER P48A60X 57.5  ASGROW AG48X9 57.3 1.7  STINE 48BA23 57.3 2.7  ASGROW AG4X9 56.9 1.3  ASGROW AG4X9 56.9 1.3  ASGROW AG4X9 56.9 1.3  PROGENY 4994 RX 57.5  ASGROW AG4X9 56.9 1.3  AGGROW AG4X	PROGENY 4255 RX	54.0	46.9		2.7
ARMOR X44D36  AREV® 4168X™  49.9  2.0  STEWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  LSD (0.10)  3.5  3.0  2.3  C.V.  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  REV® 4679X™  62.7  2.3  GO SOY Ireane  62.6  65.5  62.3  1.7  CZ 4820 LL  59.8  65.0  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG49X9  58.4  2.3  USG 7487XTS  57.7  55.8  1.3  PIONEER P48A60X  57.7  PIONEER P46A16R  57.5  61.2  2.3  PROGENY 4994 RX  57.5  ASGROW AG4X9  57.3  57.1  27.4  ASGROW AG4X9  57.3  57.1  ASGROW AG4X9  57.3  57.3  ASGROW AG4X9  56.9  1.3  PROGENY 4757 RY  56.0  56.7  59.1  2.3  AA637NSXR2  55.8  2.0  USG 7489XT  55.3  1.0  CZ 4918 LL  55.2	ARMOR X41D47	52.9			3.0
REV® 4168X™ 49.9 2.0 STEWART 4327R2X 48.2 48.7 54.6 2.7  GROUP IV EARLY AVERAGE 61.0 58.2 58.1 2.5 LSD (0.10) 3.5 3.0 2.3 C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9) STEWART 4619R2X 62.9 REV® 4679X™ 62.7 2.3 GO SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 ASGROW AG47X9 56.9 1.3 ASGROW AG47X9 56.9 1.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 AA637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0	CZ 4308 LL	52.4			2.7
STEWART 4327R2X  48.2  48.7  54.6  2.7  GROUP IV EARLY AVERAGE  61.0  58.2  58.1  2.5  LSD (0.10)  3.5  3.0  2.3  C.V.  5.5  6.7  6.4   MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X  62.9  REV® 4679X™  62.7  2.3  GO SOY Ireane  62.6  65.5  62.3  1.7  CZ 4820 LL  59.8  65.0  2.0  ASGROW AG46X6  59.2  61.3  60.8  1.7  CZ 4748 LL  59.2  57.6  57.1  2.0  ASGROW AG49X9  58.4  2.3  USG 7487XTS  57.7  55.8  1.3  PIONEER P48A60X  57.7  PIONEER P46A16R  57.5  61.2  2.3  PROGENY 4994 RX  57.5  ASGROW AG48X9  57.3  57.1  27  ASGROW AG4X9  56.9  1.3  PROGENY 4994 RX  57.5  ASGROW AG47X9  56.9  PIONEER P47A76L  56.9  PROGENY 4757 RY  56.0  56.7  59.1  2.3  PROGENY 478NXR2  55.8  2.0  USG 7489XT  55.3  1.0  CZ 4918 LL  55.2	ARMOR X44D36	51.0			2.3
GROUP IV EARLY AVERAGE LSD (0.10) 3.5 3.0 2.3 C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9) STEWART 4619R2X 62.9 REV® 4679X™ 62.7 GO SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 ASGROW AG48X9 57.3 STINE 48BA23 57.3 ASGROW AG47X9 56.9 PIONEER P47A76L 56.9 PROGENY 4757 RY 56.0 56.7 59.1 2.3 AA637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0	REV® 4168X™	49.9			2.0
LSD (0.10) 3.5 3.0 2.3  C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9  REV® 4679X™ 62.7  GO SOY Ireane 62.6 65.5 62.3 1.7  CZ 4820 LL 59.8 65.0 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 4748 LL 59.2 57.6 57.1 2.0  ASGROW AG49X9 58.4 2.3  USG 7487XTS 57.7 55.8 1.3  PIONEER P48A60X 57.7  PIONEER P46A16R 57.5 61.2 2.3  PROGENY 4994 RX 57.5  ASGROW AG48X9 57.3 1.7  STINE 48BA23 57.3 2.7  ASGROW AG47X9 56.9 1.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  AA637NSXR2 55.8 2.0  USG 7489XT 55.3 1.0  CZ 4918 LL 55.2 2.0	STEWART 4327R2X	48.2	48.7	54.6	2.7
LSD (0.10) 3.5 3.0 2.3  C.V. 5.5 6.7 6.4  MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9  REV® 4679X™ 62.7  GO SOY Ireane 62.6 65.5 62.3 1.7  CZ 4820 LL 59.8 65.0 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 4748 LL 59.2 57.6 57.1 2.0  ASGROW AG49X9 58.4 2.3  USG 7487XTS 57.7 55.8 1.3  PIONEER P48A60X 57.7  PIONEER P46A16R 57.5 61.2 2.3  PROGENY 4994 RX 57.5  ASGROW AG48X9 57.3 1.7  STINE 48BA23 57.3 2.7  ASGROW AG47X9 56.9 1.3  ASGROW AG47X9 56.9 1.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  AA637NSXR2 55.8 2.0  USG 7489XT 55.3 1.0  CZ 4918 LL 55.2 2.0					
MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9  GO SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 5TINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 PIONEER P47A76L 56.9 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0	GROUP IV EARLY AVERAGE	61.0	58.2	58.1	2.5
MATURITY GROUP IV LATE (relative MG 4.6-4.9)  STEWART 4619R2X 62.9  REV® 4679X™ 62.7  GO SOY Ireane 62.6 65.5 62.3 1.7  CZ 4820 LL 59.8 65.0 2.0  ASGROW AG46X6 59.2 61.3 60.8 1.7  CZ 4748 LL 59.2 57.6 57.1 2.0  ASGROW AG49X9 58.4 2.3  USG 7487XTS 57.7 55.8 1.3  PIONEER P48A60X 57.7  PIONEER P46A16R 57.5 61.2 2.3  PROGENY 4994 RX 57.5 ASGROW AG48X9 57.3 1.7  STINE 48BA23 57.3 ASGROW AG47X9 56.9 PIONEER P47A76L 56.9 PROGENY 4757 RY 56.0 56.7 59.1 2.3  AA637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0	LSD (0.10)	3.5	3.0	2.3	
STEWART 4619R2X       62.9       2.0         REV® 4679X™       62.7       2.3         GO SOY Ireane       62.6       65.5       62.3       1.7         CZ 4820 LL       59.8       65.0       2.0         ASGROW AG46X6       59.2       61.3       60.8       1.7         CZ 4748 LL       59.2       57.6       57.1       2.0         ASGROW AG49X9       58.4       2.3         USG 7487XTS       57.7       55.8       1.3         PIONEER P48A60X       57.7       2.7         PIONEER P46A16R       57.5       61.2       2.3         PROGENY 4994 RX       57.5       2.7         ASGROW AG48X9       57.3       1.7         STINE 48BA23       57.3       2.7         ASGROW AG47X9       56.9       1.3         PROGENY 4757 RY       56.0       56.7       59.1       2.3         PROGENY 4757 RY       56.0       56.7       59.1       2.3         A4637NSXR2       55.8       2.0         USG 7489XT       55.3       1.0         CZ 4918 LL       55.2       2.0	C.V.	5.5	6.7	6.4	
STEWART 4619R2X       62.9       2.0         REV® 4679X™       62.7       2.3         GO SOY Ireane       62.6       65.5       62.3       1.7         CZ 4820 LL       59.8       65.0       2.0         ASGROW AG46X6       59.2       61.3       60.8       1.7         CZ 4748 LL       59.2       57.6       57.1       2.0         ASGROW AG49X9       58.4       2.3         USG 7487XTS       57.7       55.8       1.3         PIONEER P48A60X       57.7       2.7         PIONEER P46A16R       57.5       61.2       2.3         PROGENY 4994 RX       57.5       2.7         ASGROW AG48X9       57.3       1.7         STINE 48BA23       57.3       2.7         ASGROW AG47X9       56.9       1.3         PROGENY 4757 RY       56.0       56.7       59.1       2.3         PROGENY 4757 RY       56.0       56.7       59.1       2.3         A4637NSXR2       55.8       2.0         USG 7489XT       55.3       1.0         CZ 4918 LL       55.2       2.0					
REV® 4679X™ 60 SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 2.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 57.8 57.8 57.8 57.8 57.9 57.9 57.9 57.9 57.9 57.9 57.9 57.9	·	G 4.6-4.9)			
GO SOY Ireane 62.6 65.5 62.3 1.7 CZ 4820 LL 59.8 65.0 2.0 ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 2.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 61.2 2.3 ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0		_			
CZ 4820 LL       59.8       65.0       2.0         ASGROW AG46X6       59.2       61.3       60.8       1.7         CZ 4748 LL       59.2       57.6       57.1       2.0         ASGROW AG49X9       58.4       2.3         USG 7487XTS       57.7       55.8       1.3         PIONEER P48A60X       57.7       2.7         PIONEER P46A16R       57.5       61.2       2.3         PROGENY 4994 RX       57.5       2.7         ASGROW AG48X9       57.3       1.7         STINE 48BA23       57.3       2.7         ASGROW AG47X9       56.9       1.3         PIONEER P47A76L       56.9       2.3         PROGENY 4757 RY       56.0       56.7       59.1       2.3         A4637NSXR2       55.8       2.0         USG 7489XT       55.3       1.0         CZ 4918 LL       55.2       2.0					
ASGROW AG46X6 59.2 61.3 60.8 1.7 CZ 4748 LL 59.2 57.6 57.1 2.0 ASGROW AG49X9 58.4 2.3 USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 2.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 2.7 ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 PROGENY 4757 RY 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0		62.6		62.3	
CZ 4748 LL       59.2       57.6       57.1       2.0         ASGROW AG49X9       58.4       2.3         USG 7487XTS       57.7       55.8       1.3         PIONEER P48A60X       57.7       2.7         PIONEER P46A16R       57.5       61.2       2.3         PROGENY 4994 RX       57.5       2.7         ASGROW AG48X9       57.3       1.7         STINE 48BA23       57.3       2.7         ASGROW AG47X9       56.9       1.3         PIONEER P47A76L       56.9       2.3         PROGENY 4757 RY       56.0       56.7       59.1       2.3         A4637NSXR2       55.8       2.0         USG 7489XT       55.3       1.0         CZ 4918 LL       55.2       2.0					
ASGROW AG49X9 58.4 2.3  USG 7487XTS 57.7 55.8 1.3  PIONEER P48A60X 57.7 2.7  PIONEER P46A16R 57.5 61.2 2.3  PROGENY 4994 RX 57.5 2.7  ASGROW AG48X9 57.3 1.7  STINE 48BA23 57.3 2.7  ASGROW AG47X9 56.9 1.3  PIONEER P47A76L 56.9 2.3  PROGENY 4757 RY 56.0 56.7 59.1 2.3  A4637NSXR2 55.8 2.0  USG 7489XT 55.3 1.0  CZ 4918 LL 55.2 2.0					
USG 7487XTS 57.7 55.8 1.3 PIONEER P48A60X 57.7 2.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 2.7 ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0			57.6	57.1	
PIONEER P48A60X 57.7 2.7 PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 2.7 ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 PROGENY 4757 RY 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0					
PIONEER P46A16R 57.5 61.2 2.3 PROGENY 4994 RX 57.5 2.7 ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0			55.8		
PROGENY 4994 RX 57.5 2.7 ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0					
ASGROW AG48X9 57.3 1.7 STINE 48BA23 57.3 2.7 ASGROW AG47X9 56.9 1.3 PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0			61.2		
STINE 48BA23     57.3     2.7       ASGROW AG47X9     56.9     1.3       PIONEER P47A76L     56.9     2.3       PROGENY 4757 RY     56.0     56.7     59.1     2.3       A4637NSXR2     55.8     2.0       USG 7489XT     55.3     1.0       CZ 4918 LL     55.2     2.0					
ASGROW AG47X9 56.9 1.3 PRONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0					
PIONEER P47A76L 56.9 2.3 PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0					
PROGENY 4757 RY 56.0 56.7 59.1 2.3 A4637NSXR2 55.8 2.0 USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0					
A4637NSXR2       55.8       2.0         USG 7489XT       55.3       1.0         CZ 4918 LL       55.2       2.0					
USG 7489XT 55.3 1.0 CZ 4918 LL 55.2 2.0			56.7	59.1	
CZ 4918 LL 55.2 2.0					
CAVERNDALE CF 478 RR2Y/STSn 54.7 56.8 56.7 2.3					
	CAVERNDALE CF 478 RR2Y/STSn	54.7	56.8	56.7	2.3

Table 6. 2018 Kentucky Soybean Variety Performance Tests Caldwell County - Pennyrile Region.

	Υ	TELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
STEWART 4939R2X	54.7			2.0
HS 49X60	54.4	60.0	58.4	1.3
USG 7496XTS	54.4	57.1	59.5	2.0
ARMOR 47-D22	54.0			2.3
WARREN SEED BG 4842 RR2X	54.0			1.7
PROGENY 4620 RXS	53.9	55.0		2.7
UNIVERSITY OF MISSOURI S14-15146R	53.9	59.9		2.0
LG SEEDS C4710RX	53.7	50.9		2.3
PROGENY 4955 RX	53.4			2.3
PROGENY 4816 RX	53.2	49.9		1.0
CZ 4938 LL	53.0			1.7
LG SEEDS LGS4989RX	52.4			1.3
ARMOR X46D63	52.2			2.0
AGS GS46X17	52.2			1.3
PIONEER P46A57BX	52.1			2.7
AGS GS48X18	51.7			1.7
REV® 47L38™	51.5			1.7
WARREN SEED BG 4922 RR2X	51.5			1.0
REV® 4857X™	51.0	53.1		2.0
REV® 49L88™	51.0	57.3		2.3
DYNA-GRO S48XS78	50.6	60.0		1.3
HBK LL4953	50.5	60.9		1.7
HOEGEMEYER HPT 4922 NRB	50.2			2.7
DYNA-GRO S46XS87	50.2	55.6	57.1	2.0
MISSION A4950X	50.2			3.0
HS 46X60	49.9	51.3	53.1	1.7
SEED CONSULTANTS SCS 9469BR™	49.9			2.0
ASGROW AG47X6	49.9	51.5	55.6	1.7
AGRIGOLD G4685RX	49.7	50.9		1.0
LG SEEDS LGS4624RX	49.6			2.3
AGRIGOLD G4705RX	49.3			3.3
UNIVERSITY OF MISSOURI S14-9051R	48.9			2.0
REV® 46L99™	48.8			1.3
HS 48X70	48.7	58.6		1.7
CHANNEL 4717R2X	48.6			2.7
WARREN SEED BG 4911 RR2X	48.6	55.1		2.0
MISSION A4608X	48.5			2.7

Table 6. 2018 Kentucky Soybean Variety Performance Tests Caldwell County - Pennyrile Region.

	١	(IELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
UNIVERSITY OF MISSOURI S14-15138R	48.2			1.3
REV® 4927X™	47.9	48.7		3.0
PROGENY 4799 RXS	46.9	48.0		2.0
LG SEEDS C4845RX	46.6	49.8	54.0	1.0
AGRIGOLD G4995RX	46.4			2.3
STEWART 4927R2X	46.2	52.3	55.1	2.0
HBK LL4950	45.6			2.0
GO SOY 49G16	44.4	44.8	47.7	2.0
PROGENY 4851 RX	44.0	60.3		3.7
DYNA-GRO S48XT56	43.9	45.3	48.8	1.7
PENNYRILE (long term check-released 1987)	39.6	42.5	43.3	2.0
GROUP IV LATE AVERAGE	52.4	54.9	55.2	2.0
LSD (0.10)	3.0	2.6	2.0	
C.V.	5.4	6.4	6.2	
MATURITY GROUP V (relative MG 5.0-5	5.9)			
PROGENY 5016 RXS	74.0	62.7		2.7
PIONEER P50A85X	65.4			2.7
PROGENY 5279 RXS	64.6			2.3
PROGENY 5018 RX	61.2			4.0
ARMOR X51D77	60.8			2.3
UNIVERSITY OF MISSOURI MO5201D CONV	58.7			2.0
ARMOR 49-D13	57.7			3.3
ESSEX (long term check-released 1974)	56.7	52.6		2.3
UNIVERSITY OF MISSOURI \$15-10434C	56.0			2.7
UNIVERSITY OF MISSOURI S11-20242C	55.9			3.3
PROGENY 5252 RX	54.6			3.7
UNIVERSITY OF MISSOURI S13-1955C	54.3	53.9		4.3
PROGENY 5226 RYS	53.9			2.7
UNIVERSITY OF MISSOURI S14-9017R	42.5	48.7		2.7
GROUP V AVERAGE	58.3	54.5		2.9
LSD (0.10)	2.5	2.9		
CV				

<sup>3.9</sup> Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.
 2018, 2017, and 2016 data were collected in Caldwell Co.

## Agronomic Information - Caldwell County, Pennyrile Region.

Agronomic intormation	Calawell County, Fellilythe Region.
GPS coordinates	37°05′47.4″N 87°51′46.2″W
Soil type	Crider silt loam
Slopes	0-6 %, eroded
Previous crop	Tobacco, winter wheat (cover crop)
Soil test	pH 6.82, P 64, K 313
SCN test	1,125
Fertilizer/lime applied	NA
Agricultural practice	no-till
Pre-planting herbicides	NA
Planting dates	MG II, III, IV Early and V: 05/23/2018 MG IV Late: 05/24/2018
Harvest dates	MG II and III: 10/18 MG IV Early and Late: 10/22 MG V: 10/23
50% frost killing	10/21

## Caldwell County (Princeton).

C.V.

		Temperatures					
Month	Total Monthly Precipitation (in.)	Monthly Average (°F)	Highest recorded (°F)	Lowest recorded (°F)			
March	3.51	46.0	73.4	22.2			
April	4.86	50.9	79.9	25.3			
May	4.69	73.2	88.7	45.7			
June	7.79	77.5	92.6	55.4			
July	2.84	77.8	94.0	61.4			
August	2.41	76.6	91.7	52.1			
September	5.61	73.9	95.4	48.6			
October (10/23)	1.48	61.6	88.7	27.8			

Table 7. 2018 Kentucky Soybean Variety Performance Tests Calloway County - Purchase Region.

		IELD (BU/AC)		LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
MATURITY GROUP II (relative MG 2.0-2				
ARMOR 29-D11	40.8			1.0
ASGROW AG28X9	39.3			1.0
AGRIGOLD G2900RX	38.8	40.2		1.0
ASGROW AG29X8	37.0	49.2		2.0
GROUP II AVERAGE	39.0			1.3
LSD (0.10)	2.1			
C.V.	4.2			
MATURITY GROUP III (relative MG 3.0-	-3.9)			
SEED CONSULTANTS SCS 9385RR™	61.0	65.0	63.9	2.3
CAVERNDALE CF 387 HT-GLYn	60.1	65.6	64.9	1.3
SEED CONSULTANTS SCS 9393RR™	59.4	63.9	58.3	1.0
SEED CONSULTANTS SC 8399X™	58.0			1.0
CZ 3841 LL	56.1	55.3	51.2	2.3
ASGROW AG36X6	55.4			2.3
ARMOR X35D92	55.1			1.7
CHANNEL 3718R2X	55.0			2.0
DYNA-GRO S39XT68	54.6	56.9		1.3
WARREN SEED BG 3821 RR2X	54.5			1.7
ARMOR 39-D39	53.9	53.8		1.3
SEED CONSULTANTS SC 8379X™	52.4			1.7
ASGROW AG38X8	52.0	61.9		2.0
BRODBECK 368R2	51.6	59.6		2.0
CZ 3601 LL	51.2			1.3
ASGROW AG39X7	51.1	57.9	54.6	2.0
S35-K9X	50.3			2.7
PIONEER P36T36X	50.2			2.0
CAVERNDALE CF 364 STSn	50.0			2.0
AGRIGOLD G3722RX	48.2			2.7
AGRIGOLD G3520RX	47.5	55.9		1.3
ARMOR 35-D20	46.2			1.7
ASGROW AG37X9	46.1			1.7
PIONEER P37A78X	45.3			1.7
DYNA-GRO S39XT08	43.6	47.4		1.3
BRODBECK 388R2	42.9	53.9		1.3
ARMOR X30D53	37.3			3.0
GROUP III AVERAGE	51.4	58.1	58.6	1.8
LSD (0.10)	4.5	3.4	2.6	
C.V.	8.3	8.3	7.7	
MATURITY GROUP IV EARLY (relative I	MG 4.0-4.5)			
USG 7447XTS				
	65.5			2.0
CHANNEL 4517R2X	<b>65.5</b> 65.3			2.0 1.3
DYNA-GRO S4209N	65.3	56.2	58.1	1.3
DYNA-GRO S4209N STEWART 4527R2X	65.3 64.0	56.2	58.1	1.3 1.7
CHANNEL 4517R2X DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X	65.3 64.0 63.2	56.2	58.1	1.3 1.7 1.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X	65.3 64.0 63.2 62.4 62.0 61.8	56.2	58.1	1.3 1.7 1.0 3.7
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX	65.3 64.0 63.2 62.4 62.0	56.2	58.1	1.3 1.7 1.0 3.7 1.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50	65.3 64.0 63.2 62.4 62.0 61.8	56.2	58.1	1.3 1.7 1.0 3.7 1.0 2.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50	65.3 64.0 63.2 62.4 62.0 61.8 60.8	56.2	58.1	1.3 1.7 1.0 3.7 1.0 2.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7			1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3		59.8	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2			1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2	56.2	59.8	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1	56.2	59.8	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X GO SOY E4510S HS 45X80	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1	56.2	59.8	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0 1.7 1.3
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X GO SOY E4510S HS 45X80 UNIVERSITY OF MISSOURI S13-3851C	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1 57.8	56.2	59.8	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0 1.7 1.3
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X GO SOY E4510S HS 45X80 UNIVERSITY OF MISSOURI S13-3851C DYNA-GRO S43XS27	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1 57.8 57.4	<b>56.2</b> 55.8	59.8 <b>60.9</b>	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0 1.7 1.3 1.7
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X GO SOY E4510S HS 45X80 UNIVERSITY OF MISSOURI S13-3851C DYNA-GRO S43XS27 PROGENY 4444 RXS	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1 57.8 57.4 57.3 56.9	<b>56.2</b> 55.8	59.8 <b>60.9</b>	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0 1.7 1.3 1.7
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X GO SOY E4510S HS 45X80 UNIVERSITY OF MISSOURI S13-3851C DYNA-GRO S43XS27 PROGENY 4444 RXS HOEGEMEYER HPT 4211 NX	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1 57.8 57.4 57.3 56.9	<b>56.2</b> 55.8	59.8 <b>60.9</b>	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0 1.7 1.3 1.7 1.0 2.0
DYNA-GRO S4209N STEWART 4527R2X WARREN SEED BG 4322 RR2X PIONEER P42A96X PIONEER P44A72BX S45-Z5XS ARMOR 45-D50 ASGROW AG44X6 STEWART 4339R2X UNIVERSITY OF MISSOURI S13-2743C STEWART 4327R2X GO SOY E4510S	65.3 64.0 63.2 62.4 62.0 61.8 60.8 59.7 59.3 58.2 58.2 58.1 57.8 57.4 57.3 56.9 56.5	<b>56.2</b> 55.8	59.8 <b>60.9</b>	1.3 1.7 1.0 3.7 1.0 2.0 1.0 2.0 2.7 1.0 2.0 1.7 1.3 1.7 1.0 2.0 2.7 3.7

Table 7. 2018 Kentucky Soybean Variety Performance Tests

		LODGIN		
BRAND VARIETY	2018	2017-18	2016-2018	2018
PROGENY 4255 RX	55.3	<u> </u>		1.7
CZ 4548 LL	55.0			1.7
JNIVERSITY OF MISSOURI S13-10590C	54.9			1.0
HOEGEMEYER HPT 4511 NX	54.7			1.7
HOEGEMEYER HPT 4522 NR	54.6			1.0
CZ 4308 LL	54.3			2.0
WARREN SEED BG 4510 RR2X	54.1			1.3
PROGENY 4318 RX	53.9			2.0
ARMOR X41D47	53.8			3.0
AGRIGOLD G4190RX	53.7			1.3
PROGENY 4570 RXS	53.5			1.3
G SEEDS LGS4597RX	53.4			2.0
DYNA-GRO S44XS68	53.1			1.0
ARMOR 42-D27	53.0			1.3
ASGROW AG41X8	53.0			1.7
BRODBECK 446R2	52.8	54.7	60.8	1.3
AGRIGOLD G4380RX	52.3	J <del>4</del> ./	00.0	1.7
JNIVERSITY OF MISSOURI S13-10592C	52.2			1.7
STEWART 4228R2X				
	51.6			1.3
STINE 40BA02	51.1			1.0
CHANNEL 4218R2X	50.2	55.3	FF 4	1.0
ASGROW AG43X7	50.1	55.3	55.4	1.0
STEWART 4039R2X	49.8			1.3
WARREN SEED BG 4210 RR2X	49.6			1.7
CAVERNDALE CF 427 HT-GLY/STSn	49.6			1.3
SEED CONSULTANTS SC 8439X™	49.5			2.0
AGRIGOLD G4440RX	49.2			2.0
542-B9XS	48.5			1.0
ARMOR 45-D43	47.9			3.0
PIONEER P40A47X	47.5			1.3
AGRIGOLD G4579RX	47.3			1.0
LG SEEDS C4227RX	47.0			1.3
PIONEER P44A08L	46.8			1.7
ASGROW AG42X9	46.2			1.7
REV® 4168X™	46.0			1.3
ARMOR X44D36	45.8			1.3
CZ 4105 LL	45.7	51.3	53.7	1.3
CZ 4222 LL	42.9	40.3	47.1	1.7
ARMOR X40D85	42.9			2.0
GO SOY 43C17S	40.5			1.0
GROUP IV EARLY AVERAGE	53.6	52.8	56.6	1.6
LSD (0.10)	3.6	2.6	2.7	1.0
C.V.	6.4	6.6	8.1	
u. ₹.	0.7	0.0	0.1	
MATURITY GROUP IV LATE (relative MO	G 4.6-4.9)			
PIONEER P48A60X	69.7			4.0
JNIVERSITY OF MISSOURI S14-9051R	69.1			2.3
JSG 7496XTS	65.7	59.6	57.6	3.0
UNIVERSITY OF MISSOURI S14-15146R	65.5	64.8		2.3
ASGROW AG47X6	65.5	69.0	64.9	3.0
AGRIGOLD G4685RX	64.8	64.6		2.3
AGS GS46X17	64.3			1.7
MISSION A4950X	64.3			3.3
DYNA-GRO S48XT56	64.1	70.2	62.5	1.7
STINE 48BA23	64.1			4.3
HS 49X60	63.9	71.2	63.5	2.3
PIONEER P46A16R	63.6	68.5		2.0
ZZ 4820 LL	63.3	68.4		3.0
REV® 46L99™	63.1			2.7
ASGROW AG46X6	62.6	65.7	62.1	2.3
CZ 4748 LL	62.3	62.9	60.4	2.0
CZ 4746 LL REV® 49L88™	61.2	62.6	50.7	3.3
PROGENY 4757 RY	60.4	66.2	66.3	3.0
STEWART 4619R2X		00.2	00.3	
	59.9	(2.2	EQ.F	2.0
GO SOY Ireane	59.7	62.3	59.5	3.0

Table 7. 2018 Kentucky Soybean Variety Performance Tests Calloway County - Purchase Region.

	Y	TELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
HOEGEMEYER HPT 4922 NRB	59.5			2.7
REV® 4857X™	59.3	52.4		3.3
REV® 4679X™	59.0			3.3
PROGENY 4816 RX	58.9	60.0		2.0
USG 7487XTS	58.7	57.8		1.7
PROGENY 4955 RX	58.0			4.0
PIONEER P46A57BX	57.9			1.7
WARREN SEED BG 4922 RR2X	57.6			1.7
REV® 4927X™	57.5	56.3		3.7
LG SEEDS C4710RX	57.3	53.9		3.3
WARREN SEED BG 4842 RR2X	56.8			2.0
ASGROW AG48X9	56.4			2.3
HS 48X70	56.2	60.7		3.3
PROGENY 4620 RXS	56.0	61.2		2.3
A4637NSXR2	55.9			2.3
AGRIGOLD G4705RX	55.9			2.3
PIONEER P47A76L	55.3			2.0
DYNA-GRO S48XS78	55.2	54.3		3.3
WARREN SEED BG 4911 RR2X	55.0	55.1		2.7
ASGROW AG49X9	54.9			3.3
CAVERNDALE CF 478 RR2Y/STSn	54.0	55.7	52.1	2.3
HS 46X60	53.9	54.8	51.1	3.3
CZ 4938 LL	53.5			2.7
STEWART 4927R2X	53.2	59.8	52.4	2.7
ASGROW AG47X9	52.9			2.3
UNIVERSITY OF MISSOURI S14-15138R	52.8			2.7
REV® 47L38™	52.7			3.0
PROGENY 4851 RX	52.6	59.0		4.0
AGS GS48X18	51.9			1.7
CHANNEL 4717R2X	51.8			2.0
LG SEEDS LGS4624RX	51.8			2.3
ARMOR 47-D22	51.6			3.0
GO SOY 49G16	51.5	47.9	49.7	4.3
HBK LL4953	51.4	66.1		1.7
USG 7489XT	51.3			2.0
AGRIGOLD G4995RX	50.2			1.7
HBK LL4950	50.1			3.3

Table 7. 2018 Kentucky Soybean Variety Performance Tests Calloway County - Purchase Region.

	YIELD (BU/AC)A/B			LODGING	
BRAND VARIETY	2018	2017-18	2016-2018	2018	
LG SEEDS C4845RX	49.9	64.2	60.8	2.0	
MISSION A4608X	49.0			2.3	
CZ 4918 LL	48.3			1.7	
ARMOR X46D63	48.2			2.0	
LG SEEDS LGS4989RX	47.5			2.7	
PROGENY 4994 RX	46.8			1.7	
SEED CONSULTANTS SCS 9469BR™	46.7			2.0	
PROGENY 4799 RXS	46.4	54.4		1.3	
STEWART 4939R2X	43.5			1.7	
DYNA-GRO S46XS87	43.2	47.3	46.7	1.3	
PENNYRILE (long term check-released 1987)	35.2	40.2	39.7	2.7	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	33.2	1012	3717	2.17	
GROUP IV LATE AVERAGE	56.0	59.9	56.6	2.5	
LSD (0.10)	2.9	2.8	2.1		
C.V.	4.9	6.5	6.1		
MATURITY GROUP V (relative MG 5.0-5	5.9)				
PIONEER P50A85X	70.5			3.0	
PROGENY 5016 RXS	69.5	68.6		4.0	
UNIVERSITY OF MISSOURI MO5201D	68.9			3.7	
PROGENY 5018 RX	68.0			3.7	
UNIVERSITY OF MISSOURI S14-9017R	65.8	62.3		2.7	
PROGENY 5252 RX	64.4	02.0		4.3	
PROGENY 5226 RYS	63.3			3.3	
ARMOR 49-D13	61.4			4.0	
PROGENY 5279 RXS	60.5			3.3	
UNIVERSITY OF MISSOURI S11-20242C	55.9			5.0	
UNIVERSITY OF MISSOURI S13-1955C	53.6	52.2		4.3	
UNIVERSITY OF MISSOURI S15-10434C	53.1			4.0	
ARMOR X51D77	53.1			4.3	
ESSEX (long term check-released 1974)	52.0	50.0		4.0	
	32.0				

61.4

2.3

58.3

2.6

5.7

### Agronomic Information - Calloway County, Purchase Region.

Agronomic information	gronomic information – canoway county, r urchase region.				
GPS coordinates	36°36′43.9″N 88°20′57.8″W				
Soil type	Grenada silt loam				
Slopes	0-2%				
Previous crop	Tobacco, winter wheat (cover crop)				
Soil test	pH 6.8, P 114, K 187				
SCN test	938				
Agricultural practice	no-till				
Pre-planting herbicides	NA				
Planting date	05/22/2018				
Post-planting herbicides	Reflex, FirstRate: 06/07/2018				
Harvest date	MG II and II: 10/09 MG IV and V: 10/12				
50% frost killing	10/21				

## Calloway County (Murray).

**GROUP V AVERAGE** 

LSD (0.10)

C.V.

		Temperatures					
Month	Total Monthly Precipitation (in.)	Monthly Average (°F)	Highest recorded (°F)	Lowest recorded (°F)			
March	4.61	47.7	73.6	26.3			
April	5.84	52.2	81.0	27.8			
May	3.75	73.6	89.3	49.1			
June	6.11	77.7	91.7	59.6			
July	1.49	78.4	93.6	63.5			
August	3.29	78.0	94.3	53.8			
September	5.03	74.6	96.1	49.4			
October (10/12)	0.21	73.0	89.5	40.4			

Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.
 2018, 2017, and 2016 data were collected in Calloway Co.

Table 8. 2018 Kentucky Soybean Variety Performance Tests Fayette County - Bluegrass Region.

ruyette county bluegluss	VIF	LD (BU/AC	<b>1</b> A/B			
		,	2016-	LODGING	PLANT HEIGHT	MATURITY
BRAND VARIETY MATURITY GROUP II (relati	2018	2017-18	2018	2018	(IN.) 2018	DATE 2018
AGRIGOLD G2900RX	50.5	0-2.9)		3.0	36	21
ARMOR 29-D11	48.9			2.7	32	30
ASGROW AG28X9	43.3			2.0	32	21
ASGROW AG29X8	36.0	53.5		1.3	36	21
GROUP II AVERAGE	44.7			2.3	34	Sept. 23
LSD (0.10)	3.7			2.3	34	3ept. 23
C.V.	6.5					
MATURITY GROUP III (relat SEED CONSULTANTS SC 8399X™	65.7	.0-3.9)		2.3	47	40
SEED CONSULTANTS SCS 9385RR™	65.1	67.4	66.0	3.0	43	40
ASGROW AG39X7	64.3	67.1	64.9	2.0	43	40
ASGROW AG38X8	63.0	63.2		3.0	38	42
ASGROW AG37X9	62.4			2.7	48	40
SEED CONSULTANTS SCS 9393RR™	61.3	66.4	63.0	2.7	44	40
BRODBECK 368R2	59.8	65.7		2.0	42	35
PIONEER P37A78X BRODBECK 388R2	58.9 58.8	65.7		1.7 2.3	43 39	35 35
PIONEER P36T36X	56.5	65.7		3.0	40	40
S35-K9X	54.4			3.0	42	35
CAVERNDALE CF 387 HT-GLYn	54.0	59.6	60.6	2.3	41	39
AGRIGOLD G3722RX	53.6			3.0	44	40
DYNA-GRO S39XT68	52.7	59.7		2.3	45	38
CHANNEL 3718R2X	52.4			2.3	38	35
ARMOR 35-D20	52.2			2.7	39	40
CZ 3601 LL CAVERNDALE CF 364 STSn	51.6 51.5			2.0	48 32	35 35
SEED CONSULTANTS SC 8379X™	50.0			2.7	44	42
CZ 3841 LL	49.1	60.6	60.4	2.0	43	35
ASGROW AG36X6	48.8			2.3	37	40
DYNA-GRO S39XT08	48.6	55.8		2.7	40	35
ARMOR 39-D39	46.4	62.1		2.0	36	40
AGRIGOLD G3520RX ARMOR X35D92	43.9 41.4	59.4		2.0	37 36	40 40
WARREN SEED BG 3821 RR2X	41.1			2.3	38	40
ARMOR X30D53	38.7			2.7	34	35
GROUP III AVERAGE	53.6	62.7	63.0	2.4	41	Oct. 8th
LSD (0.10)	2.9	3.5	2.5	2.7	71	Oct. otii
C.V.	5.1	7.9	7.0			
MATURITY GROUP IV EARL	Y (relativ	e MG 4.0-	4.5)			
DYNA-GRO S4209N	83.5			2.7	44	45
AGRIGOLD G4380RX	79.6	79.9		2.0	44	40
STEWART 4339R2X	79.1	01.1	71.4	2.3	40	32
STEWART 4527R2X PIONEER P42A96X	77.8 77.5	81.1	71.4	2.0	43 46	46 45
CAVERNDALE CF 427 HT-	75.9	74.1		2.7	36	45
GLY/STSn						
STEWART 4438R2X	75.9	77.3		1.3	43	45
PROGENY 4570 RXS CZ 4105 LL	75.6 74.5	73.1	64.7	3.0 2.3	46 44	42 42
ASGROW AG44X6	74.5	69.1	63.2	2.3	44	42
PROGENY 4444 RXS	74.3	73.9	03.2	3.7	44	45
PIONEER P44A08L	73.4	, 5.5		2.7	42	45
ASGROW AG42X9	71.4			2.3	39	48
AGRIGOLD G4579RX	71.2			2.3	40	45
ARMOR 45-D50	71.1			2.0	46	45
WARREN SEED BG 4510 RR2X	70.6	72.1		2.3	50	45

Table 8. 2018 Kentucky Soybean Variety Performance Tests

	YIE	LD (BU/AC	<b>)</b> A/B		PLANT	
		(,	2016-	LODGING	HEIGHT	MATURITY
BRAND VARIETY	2018	2017-18	2018	2018	(IN.) 2018	DATE 2018
CHANNEL 4218R2X	70.1	70.7		3.0	44	44
DYNA-GRO S41XS98 HS 45X80	67.9	70.7		3.0 2.3	45 50	46 48
USG 7447XTS	67.1			2.5	46	40
ARMOR X44D36	65.9			2.3	40	43
ARMOR 42-D27	65.5	63.5		2.7	39	40
UNIVERSITY OF MISSOURI	65.3	60.0		2.7	46	42
S13-2743C	03.3	00.0		2.,	10	
ASGROW AG41X8	64.9	73.3		2.3	46	42
PIONEER P44A72BX	64.6			2.0	42	45
LG SEEDS LGS4597RX	64.4			2.3	46	45
CZ 4222 LL	63.5	61.9	58.1	2.3	39	42
GO SOY 43C17S	63.3			3.0	42	42
STEWART 4039R2X	63.1			2.0	42	43
UNIVERSITY OF MISSOURI S13-10592C	63.0			4.7	46	40
PIONEER P40A47X	62.9	67.9		1.7	42	42
UNIVERSITY OF MISSOURI S13-3851C	62.7	69.5		3.7	34	43
REV® 4168X™	62.7			2.3	42	40
GO SOY E4510S	62.6			2.0	36	45
ASGROW AG43X7	62.2	72.7	64.7	3.3	44	40
CZ 4548 LL	61.6			3.0	42	45
SEED CONSULTANTS SC 8439X™	61.5			2.0	42	45
PROGENY 4318 RX	61.1			3.7	45	45
DYNA-GRO S44XS68	60.6	68.3		2.0	44	42
HOEGEMEYER HPT 4511 NX	59.9			1.7	48	45
WARREN SEED BG 4322 RR2X	59.6			2.0	43	45
STEWART 4228R2X	59.3	62.1		2.3	42	42
AGRIGOLD G4440RX	59.0	61.2		2.3	46	45
CZ 4308 LL	58.9			3.3	43	40
CHANNEL 4517R2X	57.9			2.3	40	42
DYNA-GRO S43XS27	57.8	69.0	62.5	2.3	42	45
BRODBECK 446R2	57.7	67.4	61.8	4.0	48	42
STEWART 4327R2X	57.5	70.5	65.4	2.0	44	45
A4447NSXR2	56.7			2.3	44	42
UNIVERSITY OF MISSOURI S13-10590C	56.7	64.2		2.7	42	40
PROGENY 4255 RX	56.5	61.3		2.0	41	45
S42-B9XS	56.5			1.7	39	38
ARMOR X41D47	56.4			3.0	42	40
HOEGEMEYER HPT 4211 NX	56.3			3.7	46	42
S45-Z5XS	56.1	62.7		2.0	38	42
HOEGEMEYER HPT 4522 NR WARREN SEED BG 4210	55.8 55.0	62.7 62.0		2.0	42 42	42 45
RR2X	52.6			2.0	40	45
STINE 40BA02	53.6			2.0	40 40	45 42
ARMOR X40D85 ARMOR 45-D43	52.3			3.0	40	42
ARMOR 45-D43 AGRIGOLD G4190RX	52.2 51.6			3.0 2.3	39	42
LG SEEDS C4227RX	44.0	55.2		2.3	45	42
GROUP IV EARLY AVERAGE	64.0	68.3	64.0	2.5	43	Oct. 13th
LSD (0.10)	3.3	3.2	2.3			
C.V.	5.0	6.5	5.9			
MATURITY GROUP IV LATE (	relative	MG 4.6-4	9)			
PROGENY 4757 RY	77.5	73.6	64.9	2.7	50	43
UNIVERSITY OF MISSOURI	76.7	72.7	01.7	3.0	48	45
S14-15146R						
PIONEER P46A16R	76.1	77.1		2.7	47	42
CHANNEL 4717R2X	74.5			2.7	48	45
AGRIGOLD G4995RX	74.4			2.7	44	45
LG SEEDS C4845RX	74.0	78.5	69.3	2.0	48	45
ASGROW AG47X9	73.9	71.5		2.7	48	45
HBK LL4953	73.8	76.5		2.7	47	43

Table 8. 2018 Kentucky Soybean Variety Performance Tests Fayette County - Bluegrass Region.

rayette County - bluegrass		LD (BU/AC	<b>)</b> A/B		PLANT	
BRAND VARIETY	2018	2017-18	2016- 2018	LODGING 2018	HEIGHT (IN.) 2018	MATURITY DATE 2018
PROGENY 4994 RX	73.1			2.7	42	45
USG 7487XTS	72.9	72.9		2.3	57	45
MISSION A4608X	72.9			4.3	52	45
CAVERNDALE CF 478 RR2Y/ STSn	71.9	74.1	66.4	3.0	52	55
CZ 4918 LL	71.1			3.0	41	45
STEWART 4927R2X	70.5	71.8	64.5	3.0	42	45
MISSION A4950X	70.4			3.0	45	55
REV® 49L88™	69.5	66.2		3.3	48	48
CZ 4820 LL	68.6	68.4		2.7	47	45
REV® 46L99™	67.5			2.7	48	42
ASGROW AG48X9	67.3			3.3	42	45
ASGROW AG47X6	65.8	68.6	63.0	2.7	39	40
DYNA-GRO S48XS78	65.3	73.2		2.3	48	48
AGRIGOLD G4705RX	65.0			4.0	53	48
REV® 4857X™	64.8	71.1		2.3	49	48
PROGENY 4816 RX	64.3	70.8		2.0	52	50
UNIVERSITY OF MISSOURI S14-15138R	64.0			3.0	51	45
STINE 48BA23	63.8			3.3	44	40
REV® 47L38™	63.7			3.0	48	45
HS 46X60	63.4	71.3	64.4	2.3	48	40
CZ 4748 LL	63.3	67.2	63.8	2.0	46	45
CZ 4938 LL	63.3			3.0	46	48
ASGROW AG49X9	63.2			2.7	42	46
DYNA-GRO S48XT56	62.9	68.0	61.9	2.3	50	55
PIONEER P48A60X	62.7			2.7	45	42
PROGENY 4799 RXS	62.7	70.0		3.3	43	40
LG SEEDS LGS4624RX	62.6			3.7	53	45
WARREN SEED BG 4922 RR2X	62.6			2.7	42	48
HOEGEMEYER HPT 4922 NRB	62.4			3.0	47	45
ARMOR X46D63	61.9			2.7	47	43
WARREN SEED BG 4842 RR2X	61.5			2.7	56	45
A4637NSXR2	61.4			3.3	48	45
HBK LL4950	61.3			2.7	54	55
LG SEEDS C4710RX	60.6	67.9		3.0	50	48
HS 49X60	60.1	70.3	62.9	2.7	44	48
STEWART 4619R2X	60.1			3.3	48	43
DYNA-GRO S46XS87	60.0	65.7	60.7	2.3	46	48
STEWART 4939R2X	59.9			2.7	50	45
ASGROW AG46X6	59.6	63.6	58.7	2.0	46	48
ARMOR 47-D22	59.0			2.3	50	45
GO SOY Ireane	58.4	61.0	55.4	3.3	40	55
USG 7496XTS	58.1	68.8	62.8	2.7	54	58
PROGENY 4620 RXS	57.9	66.8		3.7	50	45
PROGENY 4955 RX	57.2			3.3	44	48
AGS GS48X18	56.9			4.0	48	43

**Table 8. 2018 Kentucky Soybean Variety Performance Tests** 

	YIE	LD (BU/AC	<b>)</b> A/B		PLANT	
BRAND VARIETY	2018	2017-18	2016- 2018	LODGING 2018	HEIGHT (IN.) 2018	MATURITY DATE 2018
REV® 4927X™	56.4	68.6		3.3	51	42
WARREN SEED BG 4911 RR2X	56.1	66.7		2.7	44	45
UNIVERSITY OF MISSOURI S14-9051R	55.7			3.7	42	45
HS 48X70	55.3	63.9		1.7	48	42
USG 7489XT	54.6			2.3	46	48
AGRIGOLD G4685RX	53.5	64.9		2.3	49	43
GO SOY 49G16	53.1	53.0	48.3	4.0	46	45
PROGENY 4851 RX	51.7	55.1		4.3	58	45
PIONEER P46A57BX	51.5			2.0	46	40
SEED CONSULTANTS SCS 9469BR™	50.7			2.0	55	45
LG SEEDS LGS4989RX	47.0			2.3	44	42
PENNYRILE (long term check-released 1987)	46.2	52.7	49.9	3.0	54	42
PIONEER P47A76L	46.2			2.7	45	45
REV® 4679X™	44.8			3.3	42	42
AGS GS46X17	40.6			3.0	48	40
GROUP IV LATE AVERAGE	62.3	68.2	61.1	2.9	48.0	Oct. 16
LSD (0.10)	2.3	2.7	2.0			
C.V.	3.6	5.6	5.3			
MATURITY GROUP V (relati	ve MG 5	.0-5.9)				
UNIVERSITY OF MISSOURI S14-9017R	56.6	63.0		2.3	47	60
ARMOR X51D77	55.3			3.3	50	60
PROGENY 5016 RXS	53.4	66.0		3.3	52	55
PROGENY 5018 RX	52.3			2.3	45	55
PROGENY 5279 RXS	49.8			2.0	54	50
ARMOR 49-D13	48.8			3.3	45	55
UNIVERSITY OF MISSOURI S15-10434C	47.5			4.7	52	48
UNIVERSITY OF MISSOURI S11-20242C	46.6			5.0	36	55
PROGENY 5226 RYS	46.3			3.3	52	45
PIONEER P50A85X	45.7			3.0	49	50
PROGENY 5252 RX	42.7			3.0	44	60
UNIVERSITY OF MISSOURI MO5201D CONV	41.2			4.7	50	48
ESSEX (long term check- released 1974)	35.2	48.4	46.0	4.3	34	45
UNIVERSITY OF MISSOURI S13-1955C	31.0	46.8		4.7	36	58
GROUP V AVERAGE	46.6	56.0		3.5	46	Oct. 23rd
LSD (0.10)	2.4	2.8			-	
(/						

4.9 7.4

## Agronomic Information – Fayette County, Bluegrass region.

38°07′22.9″N 84°29′23.5″W
Lanton silty clay, dunning, eroded, occasionally flooded
0%
corn
pH 6.73, P 276, K 261
0
none
no-till
Sharpen, Mad Dog (Glyphosate) 04/20/2018; Mad Dog, Dual II Magnum, Authority XL 05/02/2018
05/09/2018
none
MG II and III: 11/05 MG IV Early: 11/21 MG IV Late and V:11/29
10/26

#### Favette County (Lexington).

			Temperature:	S
Month	Total Monthly Precipitation (in.)	Monthly Average (°F)	Highest recorded (°F)	Lowest recorded (°F)
March	4.62	41.9	66.4	20.7
April	4.48	49.7	78.1	26.0
May	8.87	71.5	86.8	44.7
June	4.67	74.5	90.2	56.6
July	4.69	75.6	92.2	59.7
August	4.34	74.8	88.5	55.1
September	10.85	71.8	89.9	50.2
October	5.39	58.0	85.5	30.3
November (11/29)	4.19	40.7	65.0	19.3

Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.
 2018, 2017, and 2016 data were collected in Fayette Co.

Table 9. 2018 Kentucky Soybean Variety Performance Tests Henderson County - Green River Region.

BRAND VARIETY	2018	IELD (BU/AC) 2017-18	2016-2018	LODGING 2018
MATURITY GROUP II (relative MG 2.0-2.		2017-10	2010-2016	2010
AGRIGOLD G2900RX	30.4			4.0
ARMOR 29-D11	28.0			4.0
ASGROW AG29X8	25.5	61.1		4.0
ASGROW AG28X9	21.3	01.1		4.0
AJGNOW AG20X7	21.5			7.0
GROUP II AVERAGE	26.3	61.1		4.0
LSD (0.10)	2.0	2.7		
C.V.	6.3	8.3		
MATURITY GROUP III (relative MG 3.0-3	.9)			
SEED CONSULTANTS SCS 9385RR™	56.4	72.6	67.9	2.3
BRODBECK 388R2	50.9	62.8		3.0
ASGROW AG38X8	47.0	76.6		2.3
ASGROW AG39X7	45.7	63.2	61.3	2.7
ASGROW AG37X9	45.4			3.0
PIONEER P36T36X	43.9			2.0
CZ 3601 LL	43.4			2.7
SEED CONSULTANTS SCS 9393RR™	43.4	68.7	64.6	1.7
SEED CONSULTANTS SC 8399X™	41.7			2.3
CAVERNDALE CF 364 STSn	41.1			2.7
CHANNEL 3718R2X	41.0			2.7
DYNA-GRO S39XT68	40.6	62.3		3.3
WARREN SEED BG 3821 RR2X	39.6			3.3
ARMOR 35-D20	37.4			2.7
CAVERNDALE CF 387 HT-GLYn	36.8	57.8	59.1	3.0
BRODBECK 368R2	36.6	62.0		2.3
ARMOR 39-D39	35.8	60.7		2.7
CZ 3841 LL	33.5	57.4	57.4	3.3
DYNA-GRO S39XT08	32.8	55.0		3.7
S35-K9X	31.2			4.0
PIONEER P37A78X	31.1			4.0
AGRIGOLD G3722RX	30.1			3.0
ASGROW AG36X6	27.9			1.7
ARMOR X35D92	27.0	50.0		3.3
AGRIGOLD G3520RX	26.4	59.9		2.3
ARMOR X30D53	24.9			3.7
SEED CONSULTANTS SC 8379X™	17.4			2.0
GROUP III AVERAGE	37.4	63.3	62.1	2.8
LSD (0.10)	2.4	4.6	3.3	
C.V.	6.1	11.8	10.2	
MATURITY GROUP IV EARLY (relative M	G 4.0-4.5)			
CHANNEL 4517R2X	60.1			1.7
AGRIGOLD G4579RX	58.3			1.3
STEWART 4228R2X	57.6	73.6		1.7
WARREN SEED BG 4510 RR2X	56.7	69.8		2.3
UNIVERSITY OF MISSOURI S13-2743C	55.8	62.8		2.7
PIONEER P42A96X	55.3			1.0
STEWART 4527R2X	54.5	66.2	63.9	2.7
CZ 4548 LL	54.3			4.3
USG 7447XTS	54.1			3.0
HS 45X80	54.0			1.0
PIONEER P44A08L	53.6			2.0
STEWART 4339R2X	53.5			2.3
DYNA-GRO S44XS68	53.1	60.3		2.3
PROGENY 4318 RX	52.9			3.7
ARMOR X41D47	52.0			3.7
CHANNEL 4218R2X	51.9			2.3
PIONEER P44A72BX	50.1			1.3
ASGROW AG43X7	49.5	59.3	57.6	2.7
CZ 4308 LL	49.5			4.7
S45-Z5XS	49.3			1.0
ARMOR 42-D27	48.6	67.4		2.7
ASGROW AG42X9	47.8			3.3

Table 9. 2018 Kentucky Soybean Variety Performance Tests

		YIELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
REV® 4168X™	47.5			2.3
PROGENY 4570 RXS	47.0			1.7
STEWART 4327R2X	46.7	66.0	63.1	4.7
ASGROW AG44X6	46.6	59.4	59.9	3.3
STEWART 4438R2X	46.5	67.1		1.7
PIONEER P40A47X	46.5	74.5		1.7
HOEGEMEYER HPT 4511 NX	46.2			3.0
ARMOR 45-D50	46.1			2.7
BRODBECK 446R2	45.9	59.6	57.1	3.3
A4447NSXR2	45.6			3.3
PROGENY 4444 RXS	45.5	64.0		2.7
ARMOR 45-D43	45.0			1.7
CAVERNDALE CF 427 HT-GLY/STSn	44.8	67.6		1.3
LG SEEDS LGS4597RX	44.3	07.10		1.3
UNIVERSITY OF MISSOURI S13-3851C	44.1	63.1		3.7
UNIVERSITY OF MISSOURI \$13-10590C	44.1	59.0		1.0
AGRIGOLD G4380RX	43.9	60.2		2.7
HOEGEMEYER HPT 4211 NX	43.4	00.2		4.3
DYNA-GRO S43XS27	43.4	64.2	60.8	4.5
SEED CONSULTANTS SC 8439X™	43.1	04.2	00.0	2.0
DYNA-GRO S4209N	42.4			
				1.0
S42-B9XS	42.4	50.0		1.3
ASGROW AG41X8	42.4	59.8		2.7
STINE 40BA02	42.4			2.0
UNIVERSITY OF MISSOURI S13-10592C	42.2			3.0
HOEGEMEYER HPT 4522 NR	41.7	69.9		1.7
CZ 4105 LL	41.6	63.2	61.8	1.7
DYNA-GRO S41XS98	40.9	61.8		2.7
AGRIGOLD G4440RX	39.8	55.7		3.3
STEWART 4039R2X	39.5			1.7
WARREN SEED BG 4322 RR2X	38.3			4.7
PROGENY 4255 RX	37.6	60.8		4.0
ARMOR X44D36	37.5			2.3
GO SOY E4510S	35.9			1.3
CZ 4222 LL	34.8	59.8	57.6	2.3
AGRIGOLD G4190RX	34.7			2.0
WARREN SEED BG 4210 RR2X	32.6	56.0		2.3
GO SOY 43C17S	29.8			1.3
LG SEEDS C4227RX	27.3	52.3		1.0
ARMOR X40D85	25.5			4.0
GROUP IV EARLY AVERAGE	45.6	63.1	60.2	2.5
LSD (0.10)	3.9	4.4	3.1	
C.V.	8.1	10.5	9.2	
MATURITY GROUP IV LATE (relative				
MG 4.6-4.9)				
ARMOR 47-D22	73.0			4.3
ASGROW AG46X6	66.2	69.8	65.7	2.7
PROGENY 4757 RY	66.2	71.8	64.5	4.3
PROGENY 4620 RXS	65.2	68.0		3.3
DYNA-GRO S46XS87	65.1	68.6	63.5	2.0
GO SOY Ireane	65.1	63.4	60.4	2.0
STINE 48BA23	64.4			3.3
PIONEER P46A16R	63.5	69.7		1.3
PROGENY 4816 RX	63.0	70.3		3.0
REV® 49L88™	62.9	64.2		3.3
CAVERNDALE CF 478 RR2Y/STSn	62.3	65.2	59.1	2.7
PROGENY 4851 RX	62.2	65.0		3.3
HOEGEMEYER HPT 4922 NRB	62.0	03.0		3.3
WARREN SEED BG 4922 RR2X	62.0			1.0
ASGROW AG48X9	61.5			3.3
HBK LL4953	60.5	69.2		2.7
CHANNEL 4717R2X	59.8	09.2		1.0
	59.8	((7	61.2	3.7
7 0 7 0 0 1 1		66.7	61.2	1/
CZ 4748 LL DYNA-GRO S48XT56	59.3	74.7	69.5	1.7

2.0 continued

AGS GS48X18

Table 9. 2018 Kentucky Soybean Variety Performance Tests Henderson County - Green River Region.

	YIELD (BU/AC)A/B			LODGING	
BRAND VARIETY	2018	2017-18	2016-2018	2018	
USG 7489XT	58.4			1.3	
STEWART 4619R2X	58.2			3.0	
ASGROW AG47X6	58.2	67.9	62.7	2.0	
AGRIGOLD G4685RX	57.9	66.7		2.0	
WARREN SEED BG 4842 RR2X	57.9			1.3	
PIONEER P48A60X	57.7			1.3	
PIONEER P47A76L	57.6			2.7	
CZ 4918 LL	57.5			3.7	
UNIVERSITY OF MISSOURI S14-15138R	57.5			2.3	
LG SEEDS C4710RX	57.4	65.7		3.3	
ARMOR X46D63	57.0			2.0	
DYNA-GRO S48XS78	56.4	66.7		2.3	
PROGENY 4799 RXS	56.2	66.9		2.3	
ASGROW AG49X9	56.2			3.7	
MISSION A4608X	56.0			2.3	
LG SEEDS LGS4624RX	56.0			3.0	
REV® 4679X™	56.0			2.7	
STEWART 4927R2X	55.7	68.6	62.4	1.3	
AGRIGOLD G4995RX	55.6			4.0	
MISSION A4950X	55.3			3.3	
USG 7487XTS	55.1	65.8		2.0	
REV® 47L38™	55.0			3.0	
PIONEER P46A57BX	54.9			3.7	
ASGROW AG47X9	54.9			2.7	
HS 48X70	54.3	66.1		1.0	
REV® 4927X™	53.8	57.3		4.3	
AGS GS46X17	53.7			2.3	
PROGENY 4994 RX	53.7			4.3	
CZ 4820 LL	53.5	65.9		2.7	
PROGENY 4955 RX	53.5			1.7	
SEED CONSULTANTS SCS 9469BR™	53.3			1.7	
UNIVERSITY OF MISSOURI \$14-9051R	53.3			3.3	
CZ 4938 LL	52.8			3.3	
HS 46X60	52.7	65.7	58.8	2.3	
USG 7496XTS	52.6	64.1	61.1	1.7	
AGRIGOLD G4705RX	52.5			3.7	
HBK LL4950	52.5			3.0	
STEWART 4939R2X	52.4			2.0	

Table 9. 2018 Kentucky Soybean Variety Performance Tests

	Y	TELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
LG SEEDS C4845RX	51.4	70.5	65.7	2.0
REV® 4857X™	49.7	63.8		3.3
GO SOY 49G16	49.1	50.4	49.0	5.0
REV® 46L99™	48.3			1.7
UNIVERSITY OF MISSOURI S14-15146R	48.2	54.9		1.7
LG SEEDS LGS4989RX	47.2			2.3
A4637NSXR2	45.6			5.0
WARREN SEED BG 4911 RR2X	44.2	62.8		3.7
HS 49X60	44.0	69.1	64.0	1.3
PENNYRILE (long term check-released 1987)	36.6	47.0	43.1	4.0
GROUP IV LATE AVERAGE	56.3	65.4	60.7	2.7
LSD (0.10)	3.5	3.0	2.3	
C.V.	6.0	6.6	6.3	
MATURITY GROUP V (relative MG 5.0-	5.9)			
PROGENY 5016 RXS	65.8	70.0		2.7
UNIVERSITY OF MISSOURI S14-9017R	65.1	72.4		2.0
PIONEER P50A85X	64.8			3.3
UNIVERSITY OF MISSOURI MO5201D CONV	60.2			2.7
PROGENY 5018 RX	59.4			4.0
ARMOR 49-D13	57.5			3.7
ARMOR X51D77	56.8			3.3
PROGENY 5252 RX	54.5			4.0
PROGENY 5226 RYS	54.2			1.7
UNIVERSITY OF MISSOURI S11-20242C	50.1			5.0
PROGENY 5279 RXS	49.8			3.7
UNIVERSITY OF MISSOURI S13-1955C	44.3	49.1		5.0
UNIVERSITY OF MISSOURI S15-10434C	42.5			3.7
ESSEX (long term check-released 1974)	42.4	49.7		3.0
GROUP V AVERAGE	54.8	60.3		3.4

C.V. 6.2 A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

2.4

5.7

#### Agronomic Information - Henderson County, Green River Region.

GPS coordinates	37°47′44.7″N 87°29′36.3″W
Soil type	Hensthraw silt loam
Slopes	0%
Previous crop	Corn
Soil test	pH 7.04, P 27, K 113
SCN test	938
Fertilizer/lime applied	NA
Agricultural practice	vertical tillage to smooth the field surface
Pre-planting herbicides	NA
Planting date	05/25/2018
Post-planting herbicides	Reflex, FirstRate, Intensity One: 06/14/2018
Harvest dates	MG II, III, and IV Early: 10/25 MG IV Late and V: 10/30
50% frost killing	10/20

### Henderson County (Henderson).

LSD (0.10)

			Temperature	5
Month	Total Monthly Precipitation (in.)	Monthly Average (°F)	Highest recorded (°F)	Lowest recorded (°F)
March	3.82	43.8	65.7	22.5
April	3.56	50.0	79.8	26.7
May	9.21	73.4	92.7	44.1
June	6.83	77.2	92.6	58.2
July	3.99	75.9	93.1	55.0
August	1.35	75.3	95.6	50.0
September	7.26	73.4	96.8	46.7
October (10/30)	1.10	58.4	91.4	25.5

B Data were collected in Henderson Co. in 2018, and in Hancock Co. in 2017 and 2016.

Table 10. 2018 Kentucky Soybean Variety Performance Tests Logan County - Mammoth Cave Region.

DDAND VADIETY		ELD (BU/AC)		LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
MATURITY GROUP II (relative MG 2.0-2				17
ARMOR 29-D11	58.1			1.7
AGRIGOLD G2900RX	55.4			1.3
ASGROW AG28X9	54.8	F.C. 1		1.0
ASGROW AG29X8	51.0	56.1		1.0
GROUP II AVERAGE	54.9			1.3
LSD (0.10)	3.0			
C.V.	4.6			
MATURITY GROUP III (relative MG 3.0-	3.9)			
SEED CONSULTANTS SCS 9385RR™	73.3	74.7	72.5	1.7
PIONEER P37A78X	72.0	7 747	72.3	3.3
SEED CONSULTANTS SC 8399X™	70.9			1.0
CZ 3841 LL	70.2	58.5	59.3	3.0
DYNA-GRO S39XT68	69.8	65.9		2.3
CZ 3601 LL	69.3			2.0
WARREN SEED BG 3821 RR2X	69.3			2.7
S35-K9X	68.4			2.7
ARMOR 35-D20	67.5			2.7
ASGROW AG38X8	67.0	63.4		2.0
ASGROW AG37X9	66.2			2.7
PIONEER P36T36X	65.7			1.7
CAVERNDALE CF 387 HT-GLYn	64.0	62.0	62.9	2.3
AGRIGOLD G3520RX	63.5	52.2		2.0
ASGROW AG39X7	62.7	58.6	60.5	2.3
ARMOR X35D92	62.6			3.7
BRODBECK 368R2	61.6	62.4		1.3
BRODBECK 388R2	60.5	61.2		1.7
SEED CONSULTANTS SC 8379X™	60.3			1.7
AGRIGOLD G3722RX	60.3			1.3
ARMOR 39-D39	59.2	59.7		1.3
SEED CONSULTANTS SCS 9393RR™	57.3	65.5	64.4	1.0
DYNA-GRO S39XT08	57.2	60.7		2.3
ASGROW AG36X6	56.1			1.7
CHANNEL 3718R2X	55.7			1.3
CAVERNDALE CF 364 STSn	51.0			2.0
ARMOR X30D53	49.6			3.3
GROUP III AVERAGE	63.4	62.1	63.9	2.1
LSD (0.10)	3.1	2.6	2.1	2.1
C.V.	4.6	5.6	5.4	
MATURITY GROUP IV EARLY (relative N	AG A O A E)			
ARMOR 42-D27				
		74.3		1.3
	77.9	74.3		1.3
STEWART 4339R2X	<b>77.9</b> 77.7			1.0
STEWART 4339R2X PIONEER P40A47X	<b>77.9</b> 77.7 75.9	74.3 70.9		1.0 1.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X	77.9 77.7 75.9 73.9			1.0 1.0 1.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX	77.9 77.7 75.9 73.9 72.9	70.9		1.0 1.0 1.0 1.7
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX	77.9 77.7 75.9 73.9 72.9 69.7	70.9 73.9	72.0	1.0 1.0 1.0 1.7 1.7
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X	77.9 77.7 75.9 73.9 72.9 69.7 69.3	70.9	72.0	1.0 1.0 1.0 1.7 1.7 2.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7	70.9 73.9	72.0	1.0 1.0 1.0 1.7 1.7 2.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6	70.9 73.9 73.7	72.0	1.0 1.0 1.0 1.7 1.7 2.0 1.7
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6	70.9 73.9 73.7 68.5	72.0	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4	70.9 73.9 73.7	72.0	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1	70.9 73.9 73.7 68.5	72.0	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9	70.9 73.9 73.7 68.5	72.0	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO S4209N	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6	70.9 73.9 73.7 68.5	72.0	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO S4209N USG 7447XTS	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6	70.9  73.9  73.7  68.5 <b>75.5</b>		1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3 1.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO S4209N USG 7447XTS STEWART 4327R2X	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6 66.0 65.9	70.9  73.9  73.7  68.5 <b>75.5</b>	68.3	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3 1.0 1.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO S4209N USG 7447XTS STEWART 4327R2X BRODBECK 446R2	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6 66.0 65.9 65.3	70.9  73.9  73.7  68.5 <b>75.5</b>		1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3 1.0 1.0 2.3
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO S4209N USG 7447XTS STEWART 4327R2X BRODBECK 446R2 PIONEER P44A72BX	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6 66.0 65.9 65.3 64.9	70.9  73.9  73.7  68.5 <b>75.5</b> 72.5  64.9	68.3	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3 1.0 1.0 2.3 3.0 2.7
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO S4209N USG 7447XTS STEWART 4327R2X BRODBECK 446R2 PIONEER P44A72BX AGRIGOLD G4440RX	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6 66.0 65.9 65.3 64.9	70.9  73.9  73.7  68.5 <b>75.5</b>	68.3	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3 1.0 1.0 2.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
STEWART 4339R2X PIONEER P40A47X PIONEER P42A96X HOEGEMEYER HPT 4211 NX AGRIGOLD G4380RX STEWART 4527R2X A4447NSXR2 STEWART 4039R2X ASGROW AG41X8 STEWART 4438R2X AGRIGOLD G4190RX ARMOR 45-D50 DYNA-GRO 54209N USG 7447XTS STEWART 4327R2X BRODBECK 446R2 PIONEER P44A72BX AGRIGOLD G4440RX ARMOR X40D85 WARREN SEED BG 4510 RR2X	77.9 77.7 75.9 73.9 72.9 69.7 69.3 68.7 67.6 67.4 67.2 67.1 66.9 66.6 66.0 65.9 65.3 64.9	70.9  73.9  73.7  68.5 <b>75.5</b> 72.5  64.9	68.3	1.0 1.0 1.0 1.7 1.7 2.0 1.7 1.0 2.3 1.0 1.3 2.3 1.0 1.0 2.3 3.0 2.7

Table 10. 2018 Kentucky Soybean Variety Performance Tests Logan County - Mammoth Cave Region.

		IELD (BU/AC)		LODGING	
BRAND VARIETY	2018	2017-18	2016-2018	2018	
HOEGEMEYER HPT 4511 NX	62.5			2.0	
CZ 4222 LL	61.7	63.0	60.5	3.3	
ARMOR X41D47	61.5			4.7	
STEWART 4228R2X	61.5	70.5		1.3	
CZ 4548 LL	61.4			2.0	
UNIVERSITY OF MISSOURI \$13-2743C	61.4	62.4		3.3	
DYNA-GRO S43XS27	60.4	71.5	68.0	1.3	
GO SOY E4510S	59.9			1.3	
S42-B9XS	59.8			1.7	
DYNA-GRO S41XS98	59.7	62.2		1.7	
LG SEEDS LGS4597RX	59.6			1.3	
GO SOY 43C17S	59.5			1.7	
S45-Z5XS	59.2			1.7	
CZ 4105 LL	59.2	66.8	66.9	1.7	
ASGROW AG42X9	58.8	00.0	00.5	3.0	
UNIVERSITY OF MISSOURI S13-3851C	58.8	61.8		2.3	
PROGENY 4570 RXS	58.2	01.0		1.3	
PROGENY 4318 RX	57.6			4.0	
		60.4			
WARREN SEED BG 4210 RR2X	56.6	68.4		1.3	
LG SEEDS C4227RX	56.5	65.4		1.3	
ASGROW AG43X7	56.5	67.8	66.6	2.0	
PROGENY 4444 RXS	55.5	54.0		2.3	
ASGROW AG44X6	55.3	59.0	61.5	2.0	
HS 45X80	55.1			1.7	
ARMOR 45-D43	55.0			3.3	
AGRIGOLD G4579RX	54.8			1.3	
CZ 4308 LL	54.8			1.0	
CHANNEL 4517R2X	54.5			1.3	
STINE 40BA02	53.8			1.0	
SEED CONSULTANTS SC 8439X™	53.7			1.0	
PIONEER P44A08L	53.4			1.7	
CHANNEL 4218R2X	53.4			2.0	
HOEGEMEYER HPT 4522 NR	52.3	64.0		1.0	
PROGENY 4255 RX	52.3	54.1		1.7	
UNIVERSITY OF MISSOURI \$13-10590C	52.2	58.7		1.3	
REV® 4168X™	51.7			1.0	
CAVERNDALE CF 427 HT-GLY/STSn	50.4	53.9		2.0	
WARREN SEED BG 4322 RR2X	44.5	33.5		1.7	
DYNA-GRO S44XS68	42.3	53.3		1.3	
ARMOR X44D36	40.0	JJ.J		1.0	
AllWOILXT-1050	TU.U			1.0	
GROUP IV EARLY AVERAGE	60.4	65.4	66.1	1.8	
				1.0	
LSD (0.10)	3.3	2.6	2.0		
C.V.	5.2	5.5	5.2		
MATURITY GROUP IV LATE (relative MC					
JNIVERSITY OF MISSOURI S14-15146R	71.9	66.0		1.0	
ASGROW AG48X9	69.9			1.3	
STEWART 4619R2X	69.7			1.7	
PROGENY 4816 RX	69.0	68.8		1.0	
PIONEER P48A60X	68.0			1.0	
WARREN SEED BG 4911 RR2X	67.6	68.8		1.3	
AGRIGOLD G4685RX	67.3	73.1		1.7	
HS 49X60	65.8	65.8	66.9	1.0	
GO SOY 49G16	65.3	61.7	57.9	3.0	
	64.5	68.7	67.2	1.7	
PROGENY 4757 RY			62.2	1.7	
		D3.7		1.7	
CAVERNDALE CF 478 RR2Y/STSn	64.1	63.2		2.0	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB	64.1 63.8	03.2		2.0	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB STINE 48BA23	64.1 63.8 63.7			1.7	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB STINE 48BA23 REV® 4927X™	64.1 63.8 63.7 63.4	63.5		1.7 3.0	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB STINE 48BA23 REV® 4927X™ MISSION A4608X	64.1 63.8 63.7 63.4 62.2	63.5		1.7 3.0 2.0	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB STINE 48BA23 REV® 4927X™ MISSION A4608X ASGROW AG47X6	64.1 63.8 63.7 63.4 62.2 62.2		64.1	1.7 3.0 2.0 2.0	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB STINE 48BA23 REV® 4927X™ MISSION A4608X ASGROW AG47X6 ASGROW AG49X9	64.1 63.8 63.7 63.4 62.2 62.2 61.9	63.5		1.7 3.0 2.0 2.0 2.0	
CAVERNDALE CF 478 RR2Y/STSn HOEGEMEYER HPT 4922 NRB STINE 48BA23 REV® 4927X™ MISSION A4608X ASGROW AG47X6 ASGROW AG49X9 CZ 4918 LL	64.1 63.8 63.7 63.4 62.2 62.2 61.9 60.9	63.5		1.7 3.0 2.0 2.0 2.0 1.7	
PROGENY 4757 RY  CAVERNDALE CF 478 RR2Y/STSn  HOEGEMEYER HPT 4922 NRB  STINE 48BA23  REV® 4927X™  MISSION A4608X  ASGROW AG47X6  ASGROW AG49X9  CZ 4918 LL  ARMOR 47-D22  PIONEER P47A76L	64.1 63.8 63.7 63.4 62.2 62.2 61.9	63.5		1.7 3.0 2.0 2.0 2.0	

Table 10. 2018 Kentucky Soybean Variety Performance Tests Logan County - Mammoth Cave Region.

	Y	LODGING		
BRAND VARIETY	2018	2017-18	2016-2018	2018
UNIVERSITY OF MISSOURI S14-15138R	59.9			1.0
USG 7489XT	59.3			1.0
USG 7487XTS	59.0	62.5		1.0
HS 46X60	58.8	66.4	67.2	1.0
USG 7496XTS	58.8	74.4	73.1	1.0
UNIVERSITY OF MISSOURI S14-9051R	58.3			2.0
AGS GS48X18	57.8			1.0
CHANNEL 4717R2X	57.7			2.0
REV® 47L38™	56.9			1.3
WARREN SEED BG 4842 RR2X	56.9			1.0
ASGROW AG46X6	56.6	64.3	63.3	1.0
PIONEER P46A57BX	56.2			1.0
ASGROW AG47X9	56.1			1.0
STEWART 4939R2X	56.1			1.3
CZ 4820 LL	56.1	65.4		1.7
DYNA-GRO S46XS87	56.0	67.6	67.2	1.3
DYNA-GRO S48XS78	56.0	69.8		1.3
SEED CONSULTANTS SCS 9469BR™	55.7			1.0
WARREN SEED BG 4922 RR2X	55.6			1.0
LG SEEDS LGS4989RX	55.1			1.0
PIONEER P46A16R	54.9	64.6		1.3
AGS GS46X17	54.0			1.0
MISSION A4950X	53.6			1.0
PROGENY 4620 RXS	53.5	62.1		2.0
STEWART 4927R2X	53.3	64.7	62.1	1.3
PROGENY 4799 RXS	52.9	63.0		1.0
REV® 4857X™	52.9	55.5		2.7
AGRIGOLD G4995RX	52.9			1.0
A4637NSXR2	52.8			2.0
CZ 4748 LL	52.3	59.9	61.8	1.0
PROGENY 4955 RX	52.3			2.3
PROGENY 4994 RX	52.3			1.7
LG SEEDS C4845RX	52.2	58.5	59.4	1.0
REV® 49L88™	51.9	65.4		1.3
LG SEEDS C4710RX	51.3	65.3		1.7
HS 48X70	50.8	70.1		1.3
HBK LL4953	50.4	67.1		1.0
PROGENY 4851 RX	50.0	57.9		3.3

Table 10. 2018 Kentucky Soybean Variety Performance Tests

	Y	IELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
GO SOY Ireane	49.3	58.0	60.1	1.0
CZ 4938 LL	48.8			2.3
REV® 4679X™	48.3			1.7
PENNYRILE (long term check-released 1987)	47.7	50.1	52.1	1.7
REV® 46L99™	46.9			1.3
AGRIGOLD G4705RX	46.6			2.0
ARMOR X46D63	45.3			1.0
LG SEEDS LGS4624RX	43.4			1.3
DYNA-GRO S48XT56	42.2	57.0	59.6	1.0
HBK LL4950	41.7			1.3
GROUP IV LATE AVERAGE	56.6	64.2	62.9	1.5
LSD (0.10)	3.1	2.7	2.1	
C.V.	5.2	5.9	5.6	
MATURITY GROUP V (relative MG 5.0-5.	.9)			
UNIVERSITY OF MISSOURI \$14-9017R	71.1	75.9		1.0
UNIVERSITY OF MISSOURI MO5201D CONV	62.7			2.0
ARMOR X51D77	62.4			2.0
ARMOR 49-D13	62.1			3.0
PROGENY 5016 RXS	59.5	71.0		1.7
PROGENY 5252 RX	57.4			1.7
ESSEX (long term check-released 1974)	54.9	58.7		1.3
PIONEER P50A85X	54.2			1.3
UNIVERSITY OF MISSOURI S13-1955C	52.9	61.6		2.3
PROGENY 5279 RXS	52.6			1.3
UNIVERSITY OF MISSOURI S15-10434C	51.8			2.7
PROGENY 5018 RX	47.0			2.3
UNIVERSITY OF MISSOURI S11-20242C	35.7			2.3
PROGENY 5226 RYS	35.7			1.3
GROUP V AVERAGE	54.3	66.8		1.9
LSD (0.10)	2.2	2.3		

C.V. A Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.

B Data data were collected in Logan Co. in 2018, and in Butler Co. in 2017 and 2016.

## Agronomic Information - Logan County, Mammoth Cave Region.

Agronomic information	Logan County, Manimoth Cave Region.
GPS coordinates	36°77′47.3″N 86°52′41.5″W
Soil type	Pembroke silt loam
Slopes	0%
Previous crop	double-crop soybean
Soil test	pH 7.19, P 94, K 374
SCN test	4,500
Fertilizer/lime applied	NA
Agricultural practice	no-till
Pre-planting herbicides	2,4-D, Valor
Planting date	06/04/2018
Post-planting herbicides	Reflex, FirstRate, Intensity One: 06/14/2018
Harvest dates	MG II and III: 10/23 MG IV Early and Late and V: 10/24
50% frost killing	10/22

#### Logan County (Russellville).

		Temperatures				
Month	Total Monthly Precipitation (in.)	Monthly Average (°F)	Highest recorded (°F)	Lowest recorded (°F)		
March	5.50	46.1	76.3	21.2		
April	3.79	51.7	81.8	26.1		
May	5.74	73.1	89.6	48.3		
June	6.08	76.8	92.6	55.9		
July	2.83	77.6	93.9	59.3		
August	5.86	76.9	92.9	54.5		
September	5.41	73.3	93.4	48.4		
October (10/24)	4.51	61.9	88.6	28.7		

Table 11. 2018 Kentucky Soybean Variety Performance Tests Meade County - Lincoln Trail Region.

		IELD (BU/AC)	A/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
MATURITY GROUP II (relative MG 2.0-2				
ASGROW AG29X8	53.2	59.6		3.7
ASGROW AG28X9	46.7			4.3
AGRIGOLD G2900RX	42.0			4.0
ARMOR 29-D11	31.6			4.7
GROUP II AVERAGE	43.4			4.2
LSD (0.10)	2.7			
C.V.	5.2			
MATURITY GROUP III (relative MG 3.0-	3.9)			
AGRIGOLD G3722RX	64.6			5.0
SEED CONSULTANTS SC 8379X™	60.9			4.7
ARMOR 35-D20	58.2			4.0
AGRIGOLD G3520RX	57.8	60.0		3.0
ARMOR 39-D39	57.3	56.7		4.3
SEED CONSULTANTS SC 8399X™	56.4			4.0
SEED CONSULTANTS SCS 9393RR™	54.4	65.8	60.7	3.3
ASGROW AG39X7	53.6	63.2	57.0	4.0
SEED CONSULTANTS SCS 9385RR™	47.3	59.3	57.2	2.7
ASGROW AG38X8	47.0	57.9		4.0
ASGROW AG37X9	46.2			4.7
DYNA-GRO S39XT68	46.0	61.3		4.0
535-K9X	45.6			4.7
PIONEER P36T36X	45.3			4.3
CAVERNDALE CF 387 HT-GLYn	42.1	54.3	55.4	3.7
CZ 3601 LL	39.2			4.7
DYNA-GRO S39XT08	37.6	53.8		4.7
BRODBECK 368R2	37.2	45.6		4.0
BRODBECK 388R2	36.9	48.2		4.3
ARMOR X35D92	36.3			5.0
ASGROW AG36X6	35.8			4.7
CHANNEL 3718R2X	34.7			4.7
WARREN SEED BG 3821 RR2X	33.2			4.7
ARMOR X30D53	33.1			4.7
PIONEER P37A78X	31.9	44.0	40.0	5.0
CZ 3841 LL CAVERNDALE CF 364 STSn	27.1 24.8	46.2	48.3	4.7 4.7
SROUP III AVERAGE	44.1	<b>56.0</b>	<b>55.7</b>	4.3
.SD (0.10) C.V.	3.3 7.0	3.7 9.7	2.7 8.7	
V.	7.0	9.7	0.7	
MATURITY GROUP IV EARLY (relative N	-			
DYNA-GRO S44XS68	78.8	75.5		3.0
REV® 4168X™	74.2	70.7		3.7
AGRIGOLD G4380RX	73.2	72.7		2.3
ASGROW AG41X8	73.0	76.3		3.3
DYNA-GRO S41XS98	72.9	70.1		3.7
TEWART 4339R2X	72.3	72.6		3.3
WARREN SEED BG 4510 RR2X	70.6	73.6		3.3
HS 45X80	70.0	72.5	(5.3	3.7
BRODBECK 446R2	69.4	72.5	65.2	4.3
PIONEER P42A96X	68.6	71.4		2.3
STEWART 4438R2X	67.9	71.4		4.0
AGRIGOLD G4579RX	67.5			2.7
PIONEER P44A08L	67.4	66.5		3.3
LG SEEDS C4227RX	67.0	66.5		3.7
S45-Z5XS	66.6			2.3
		70.5		
		/0.5		
		71 7		
		/1./		
	65.0			4.0
PROGENY 4570 RXS	64.9			
PIONEER P44A72BX PROGENY 4444 RXS STEWART 4039R2X CAVERNDALE CF 427 HT-GLY/STSn SEED CONSULTANTS SC 8439X™	66.4 65.9 65.9 65.7 65.0	70.5 71.7		2.7 4.7 3.3 3.0 4.0

Table 11. 2018 Kentucky Soybean Variety Performance Tests Meade County - Lincoln Trail Region.

	\	(IELD (BU/AC)	V/B	LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018
A4447NSXR2	64.7			3.7
S42-B9XS	64.6			3.0
PIONEER P40A47X	64.3	68.3		2.7
CZ 4548 LL	64.1			4.0
HOEGEMEYER HPT 4511 NX	64.0			4.3
HOEGEMEYER HPT 4522 NR	64.0	74.4		3.3
ARMOR X41D47	63.7			4.0
ARMOR 42-D27	63.6	64.3		3.3
AGRIGOLD G4190RX	63.2			3.3
STEWART 4228R2X	63.2	72.3		2.7
ASGROW AG44X6	63.0	67.1	66.5	3.7
UNIVERSITY OF MISSOURI S13-10590C	62.1	60.3		4.7
STEWART 4527R2X	62.0	67.4	60.3	3.0
LG SEEDS LGS4597RX	60.8			2.3
USG 7447XTS	60.3			3.7
ARMOR 45-D43	59.8			4.0
UNIVERSITY OF MISSOURI S13-2743C	59.2	68.7		4.3
CHANNEL 4517R2X	58.7			3.7
GO SOY 43C17S	58.6			2.7
UNIVERSITY OF MISSOURI S13-10592C	58.0			4.3
GO SOY E4510S	56.7			3.7
STINE 40BA02	56.3			3.7
ARMOR X40D85	55.7			3.7
ASGROW AG42X9	54.8			4.0
CZ 4308 LL	54.7			4.0
ASGROW AG43X7	54.6	68.3	63.1	4.7
CZ 4222 LL	53.8	60.0	55.2	3.0
WARREN SEED BG 4210 RR2X	53.8	61.6	33.2	4.0
WARREN SEED BG 4322 RR2X	52.9	01.0		4.3
CZ 4105 LL	52.5	65.0	57.7	4.0
AGRIGOLD G4440RX	52.5	61.5	31.1	3.0
DYNA-GRO S43XS27	51.3	60.1	60.6	3.7
DYNA-GRO S4209N		00.1	0.00	
PROGENY 4318 RX	51.1 50.5			4.3 4.7
PROGENY 4255 RX	50.0	F6 0		4.7
ARMOR X44D36		56.9		4.0
STEWART 4327R2X	49.3	E0.2	E7 0	
	47.7	58.2	57.8	3.3
UNIVERSITY OF MISSOURI S13-3851C	45.6	59.4		3.7
CHANNEL 4218R2X	44.7			3.7
HOEGEMEYER HPT 4211 NX	36.1			4.7
GROUP IV EARLY AVERAGE	61.0	67.2	60.8	3.6
LSD (0.10)	3.5	4.1	3.0	5.0
C.V.	5.4	8.7	7.8	
MATURITY GROUP IV LATE (relative Mo				
PROGENY 4994 RX	79.0			3.7
REV® 49L88™	76.8	64.5		3.3
ASGROW AG47X9	72.9			4.0
SEED CONSULTANTS SCS 9469BR™	71.8			3.3
PIONEER P46A57BX	68.7			4.3
AGRIGOLD G4995RX	67.7			4.0
MISSION A4950X	67.7			4.0
HOEGEMEYER HPT 4922 NRB	66.7			3.3
HS 49X60	66.5	63.1	62.3	1.7
PROGENY 4816 RX	66.3	60.2		2.7
LG SEEDS LGS4989RX	65.9			2.7
ASGROW AG47X6	65.1	69.5	63.2	3.7
PROGENY 4757 RY	64.9	64.9	58.9	4.0
CZ 4918 LL	63.8			3.7
PROGENY 4799 RXS	63.7	65.3		3.7
PIONEER P47A76L	63.2			3.7
PIONEER P46A16R	62.9	66.6		4.0
LG SEEDS C4845RX	62.4	61.6	59.3	2.0
PIONEER P48A60X	62.3			3.0
I C CEEDC I CCACAADV	(2.2			47

continued

4.7

LG SEEDS LGS4624RX

Table 11. 2018 Kentucky Soybean Variety Performance Tests Meade County - Lincoln Trail Region.

weate County - Ellicolli Itali Region.	YIELD (BU/AC)A/B					LODGING
BRAND VARIETY	2018	2017-18	2016-2018	2018		
REV® 4679X™	61.9			4.3		
ASGROW AG48X9	61.4			2.7		
REV® 47L38™	61.2			3.3		
USG 7487XTS	60.9	62.1		2.3		
UNIVERSITY OF MISSOURI S14-15138R	60.6			4.0		
CZ 4820 LL	60.5	65.7		2.7		
DYNA-GRO S48XS78	60.4	62.7		3.0		
DYNA-GRO S48XT56	59.9	63.1	59.8	2.3		
ASGROW AG49X9	58.9			4.0		
PROGENY 4620 RXS	58.7	59.6		4.7		
WARREN SEED BG 4922 RR2X	58.4			2.0		
STEWART 4927R2X	58.3	63.3	59.0	3.3		
STEWART 4619R2X	58.2			3.3		
UNIVERSITY OF MISSOURI S14-9051R	58.2			3.3		
HS 46X60	58.2	70.8	63.4	3.7		
WARREN SEED BG 4911 RR2X	58.1	54.4		3.7		
CZ 4748 LL	57.7	65.6	62.2	2.7		
ASGROW AG46X6	57.5	54.5	57.8	3.3		
PROGENY 4955 RX	57.5			4.3		
USG 7496XTS	57.3	59.7	60.8	3.7		
CAVERNDALE CF 478 RR2Y/STSn	57.1	59.6	57.5	2.3		
USG 7489XT	57.1			2.3		
ARMOR 47-D22	56.8			4.3		
AGS GS46X17	56.6			2.3		
AGRIGOLD G4685RX	56.3	63.1		2.7		
LG SEEDS C4710RX	56.3	52.5		4.0		
MISSION A4608X	56.3			4.3		
REV® 46L99™	56.3			3.7		
GO SOY Ireane	55.4	59.1	60.5	4.3		
ARMOR X46D63	54.7			4.0		
HS 48X70	54.6	53.7		3.3		
STEWART 4939R2X	54.5			4.0		
WARREN SEED BG 4842 RR2X	54.4			3.7		
AGRIGOLD G4705RX	54.3			4.0		
HBK LL4953	53.5	61.9		2.7		
DYNA-GRO S46XS87	53.3	50.8	53.3	2.3		
AGS GS48X18	52.4			4.3		

Table 11. 2018 Kentucky Soybean Variety Performance Tests Meade County - Lincoln Trail Region.

	Υ	LODGING		
BRAND VARIETY	2018	2017-18	2016-2018	2018
CHANNEL 4717R2X	52.3			2.7
CZ 4938 LL	51.8			2.7
UNIVERSITY OF MISSOURI S14-15146R	51.4	60.1		2.7
A4637NSXR2	50.7			4.3
STINE 48BA23	49.9			3.7
HBK LL4950	47.3			4.0
REV® 4927X™	46.8	56.3		5.0
PENNYRILE (long term check-released 1987)	44.7	45.9	47.3	4.0
REV® 4857X™	44.5	56.4		4.7
PROGENY 4851 RX	43.9	55.6		5.0
GO SOY 49G16	37.6	43.0	44.1	5.0
GROUP IV LATE AVERAGE	58.6	59.8	58.0	3.5
LSD (0.10)	3.6	2.8	2.3	
C.V.	5.8	6.4	6.5	
MATURITY GROUP V (relative MG 5.0-5	.9)			
ARMOR 49-D13	57.2			3.7
PROGENY 5016 RXS	53.4	58.0		3.7
PROGENY 5018 RX	52.7			4.0
UNIVERSITY OF MISSOURI S14-9017R	49.7	57.6		3.0
PIONEER P50A85X	49.7			3.7
PROGENY 5279 RXS	48.6			2.3
PROGENY 5226 RYS	42.4			3.7
PROGENY 5252 RX	41.2			3.7
ARMOR X51D77	40.1			4.0
UNIVERSITY OF MISSOURI MO5201D CONV	40.1			2.3
ESSEX (long term check-released 1974)	36.6	43.2		3.7
UNIVERSITY OF MISSOURI S13-1955C	31.0	33.9		5.0
UNIVERSITY OF MISSOURI S11-20242C	28.6			5.0
UNIVERSITY OF MISSOURI S15-10434C	26.4			4.7

<sup>6.5</sup> Within a maturity group, shaded yield are not significantly different (0.10) from the highest yielding cultivar (bold) of that maturity group and year column.
 Data were collected in Meade Co. in 2018, and in Breckinridge Co. in 2017 and 2016.

48.2

2.2

6.6

### Agronomic Information - Meade County, Lincoln Trail Region.

Agronomic information -	Agronomic information – Meade County, Lincoln Itali Region.					
GPS coordinates	37°48′29.0″N 86°8′23.7″W					
Soil type	Crider silt loam					
Slopes	0%					
Previous crop	Corn					
Soil test	pH 6.84, P 47, K 163					
SCN test	0					
Agricultural practice	no-till					
Pre-planting herbicides	NA					
Planted date	05/21/2018					
Post-planting herbicides	none					
Harvest date	11/8					
50% frost killing	10/13					

Meade County (Brandenburg).

**GROUP V AVERAGE** 

LSD (0.10)

C.V.

		Temperatures				
Month	Total Monthly Precipitation (in.)	Monthly Average (°F)	Highest recorded (°F)	Lowest recorded (°F)		
March	5.43	42.4	67.7	19.4		
April	3.04	49.7	79.1	23.1		
May	3.76	71.4	88.4	37.2		
June	7.72	75.3	92.1	52.3		
July	3.87	75.3	93.2	55.9		
August	6.93	74.8	89.9	51.6		
September	6.76	71.5	91.8	49.6		
October	3.50	57.6	87.7	27.6		
November (11/8)	3.02	49.1	64.9	33.0		



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