AGRICULTURAL EXPERIMENT STATION
UNIVERSITY OF KENTUCKY COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT, LEXINGTON, KY, 40546

PR-693

UNIVERSITY OF KENTUCKY
College of Agriculture, Food and Environment

2015 Kentucky Soybean Variety Performance Tests

Claire M.-P. Venard, Joshua Duckworth, Plant and Soil Sciences

The Kentucky Soybean Variety Performance Tests are conducted to provide an unbiased and objective estimate of the relative performance of soybean varieties 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 2015 tests were entered by soybean growers, commercial companies, and state and federal institutions.

Forty soybean tests were planted in 2015 in Kentucky at the eight test locations shown below. Planting dates and other information are shown in Table 1.

Methods

All tests were planted in a randomized complete block design by maturity group with a specially built no-till planter. The tests (Tables 6-10) had three replications (plots) of each variety. The individual plots were 20 feet long and 6 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 inches. All plots were treated with fertilizers and herbicides before planting and were maintained as weed-free as possible during the growing season. All plots were chemically end-trimmed to 16 feet approximately one month after planting.

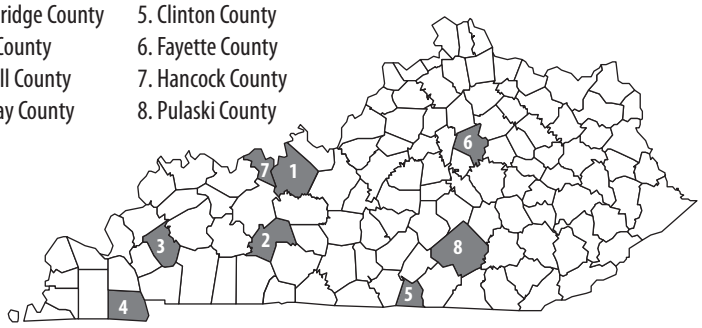
Seed source information is located on page 4. Companies could choose to treat their seed with fungicides, insecticides, and nematicides (Table 3). The treatment codes are provided in Table 4.

Harvesting was done with a small plot combine (Hege 160, HEGE Equipment Inc., 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 HM1000 GrainGage system, Juniper Systems, Inc., USA) located on the combine was used for monitor weight and moisture readings for each plot. Data were collected with a field computer (Allegro Mx, Juniper Systems, Inc., USA) connected to the monitor and analyzed with Agrobase GEN II statistical software (Agronomix Software Inc., Canada).

Location of the 2015 Kentucky Soybean Variety Performance Tests

1. Breckinridge County
2. Butler County
3. Caldwell County
4. Calloway County
5. Clinton County
6. Fayette County
7. Hancock County
8. Pulaski County



Tables *page*

Table 1. Locations, Planting Dates, and Harvest Dates for the 2015 Kentucky Soybean Variety Performance Tests

TEST	REGION	COLLABORATORS	PLANTING DATE(S)	HARVEST DATES
Breckinridge	Lincoln trail	Carol Hinton, Co Ext Agent for Ag; Mr. Kenny Campton, farmer	05/22	MG II 09/21; MG III 10/07; MG IV Early 10/08, MG IV Late & V 10/22
Butler	Mammoth Cave	Gregory Drake, Co Ext Agent for Ag and Nat Resources; Mr. Shane Wells, farmer	06/05	MG II, III & IV Early, 10/12 MG IV Late & V 10/20
Caldwell	Pennyrile	Joe Williams, Farm Superintendent	05/28	MG II & III 09/24; MG IV Early & Late 10/06; MG V 10/21
Calloway	Purchase	Dr. Ferguson, Professor of Agronomy, Murray State University	IV E &L: 06/03, II, III, V: 06/04	MG II, III & IV Early 09/23, MG IV Late 10/05; MG V 10/21
Clinton	Lake Cumberland	Colby Guffey, Co Ext Agent for Ag and Nat Resources; Mr. Kenny Mims, farmer	06/10	MG II, III & IV Early 10/14, MG IV Late & V 10/23
Fayette	Bluegrass		II, III, IV E: 05/14 IV L, V: 05/15	MG II 09/17; MG III 09/25; MG IV Early 09/28, MG IV Late & V 10/19
Hancock	Green River	Whitney Carman, Co Ext Agent for Ag and Nat Resources; Mr. Bud Ray, farmer	05/20	MG II & III 09/21; MG IV Early 09/22,MG IV Late & V 10/07
Pulaski	Lake Cumberland	Richard Whitis, Co Ext Agent for Ag and Nat Resources; Mr. Chris Pierce, farmer	06/11	MG II, III, IV Early 10/15, MG IV Late & V 10/16

- **Test weight** is expressed as pounds per bushel. Test weight, also called bulk density, specifies the weight of a "volume" bushel (1.2445 ft^3 of grain). Weather and production practices may cause variations in grain density and quality. Test weight is a general indicator of grain quality. Higher test weight usually means higher grain quality. Test weights decrease as grain deteriorates. Good quality grain at low moisture content (13-15%) is expected to have a good test weight. The electronic weight and moisture monitor described in the section above also recorded the test weight for the grain harvested from each plot.
- **Lodging** was recorded at harvest. 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 percent down; 4 = all plants over considerably or 50 percent to 80 percent down; 5 = all plants down.
- **Maturity date.** 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 the beans were ready to combine. Maturity dates were recorded at the Fayette County location.
- **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 are visited every other week during the soybean growing season and scouted for disease. During the 2015 season, frogeye leaf spot (FLS) was observed at all of the Kentucky Soybean Variety Performance Test sites. Disease ratings for FLS were taken during the first week of August, except for the Butler County site where lodging prevented accurate observations of the plots. The disease ratings are presented in Tables 6 through13. Sudden death syndrome (SDS) was also observed at the Breckinridge County, Calloway County, Fayette County, Hancock County, and Pulaski County sites. However, the incidence was so low that no ratings were taken.
- **Protein, oil.** Variety protein and oil concentrations are reported on the basis of 13 percent moisture. The 2015 samples were collected at the Fayette County, Hancock County, and Pulaski County locations, and analyzed with a NIR spectrophotometer (DA 720, Perten Instruments, Sweden). The data were analyzed with Agrobase GEN II statistical software.

Interpretation

An important step in profitable soybean production is selecting good quality seed of 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. 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* 21 [3], "Using Performance Test Results in Soybean Variety Selection in Kentucky"). The data presented in the Table 5, "State Summary–Recommended Table," have been averaged across years and locations, and are recommended to evaluate variety relative performances.

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 Tables 5 through 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. Maturity, lodging resistance, disease resistance, and availability of time and equipment need to be considered as well as economic management and weed control costs.

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* 6 [1], "Soybean Oil and Protein"). 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 oil and protein concentrations. This approach should help selecting a variety that has 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. 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* 25 [3], "Growing Soybean Varieties from Multiple Maturity Groups Can Reduce Yearly Yield Volatility").

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 through 13, are average dates over a long term. Actual dates will vary from year to year. For the dates of a one-year-out-of-ten chance of a fall killing frost, subtract 13 to 18 days from the dates. For maximum yield, a variety must mature before the first killing frost in the fall. The relative maturity for each variety is found in Table 3.

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 (see Kentucky Cooperative Extension Service publication PPA-42: *Soybean Cyst Nematode*). The importance of resistant varieties has increased as the number of acres affected by SCN has increased. SCN occurs in 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. Contact the University of Kentucky County Extension offices for more information on collecting and submitting samples.

Table 5, consisting of a summary of the 2013-2014-2015 full-season tests for each maturity group, is recommended for selecting varieties for maximum yield in double-crop systems and in full-season systems in Kentucky. Better yielding full-season varieties are also the better-yielding double-crop varieties (Pfeiffer, Todd 1987. *Applied Agricultural Research* 2 [3]: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.

Growing Conditions and Special Circumstances - 2015

February 2015 was overrun by multiple arctic air outbreaks, winter storms, and record-breaking cold temperatures in Kentucky. March started with another winter storm, on March 3. Flooding was caused by excessive rainfall and melting snow. A following cold front brought more snow leading to record breaking snowfall across the state, and record breaking cold temperature for this time of year. The wet pattern continued over the second week of March. Dry and warmer weather set up for the second half of the month. Overall the state saw nearly 7 inches of precipitation in March, 2.6 inches above normal. Temperatures for March averaged 45 degrees across the state, which was 2 degrees cooler than normal. April 2015 was very wet. Kentucky saw more than 8 inches of rain statewide, almost 4 inches above normal. Most of the precipitation fell over the first half of the month, leading to significant flooding in low lying areas and along creeks/rivers. This wet start of spring significantly delayed corn planting. As of April 20, the USDA Crop Progress and Condition Report stated that Kentucky was two to three weeks behind schedule. A round a freezing temperature and severe weather affected the area late April. Temperatures for the period averaged 58 degrees across the state.

May 2015 started with much dryer conditions; the first couple of weeks were dry, which allowed for corn and soybean planting. Planting progress quickly caught up with the 5-year average. Rain returned to western Kentucky during the third week of the month. Conditions in eastern Kentucky stayed dried with only 0.5 inch of rain, which reintroduced abnormally dry conditions in the eastern half of the state. Precipitation for May totaled 2.80 inches statewide, which was 2.1 inches below normal. Western Kentucky received 4.4 inches, central Kentucky 2.9 inches, while the Bluegrass area saw fewer than 2 inches. Temperatures averaged 68 degrees for the month.

Heat and humidity returned in June. Temperatures rose above 90 degrees numerous times across the state. Precipitation over the first two weeks of month stayed below normal. The US Drought Monitor reintroduced moderate drought to portions of southeastern Kentucky and Bluegrass. The second half of the month saw an active and wet pattern, with tropical storm Bill bringing abundant rainfall averaging over 3.5 inches of rainfall statewide. Precipitation for June totaled 5.2 inches statewide, which is 0.8 inches above normal. Temperatures averaged 74 degrees, 2 degrees warmer than normal.

July 2015 was the wettest July on record since 1895. Precipitation totaled 8.99 inches, more than 4.5 inches above normal. The first week of July received nearly 3 inches, which increased the risk of flash flooding on already saturated grounds. The wet pattern remained active for the first half of the month. The USDA Crop Progress and Condition Report described damaged, reduced quality, and stressed crops, such as yellowing in soybean (see Dr. Lee's article on the Grain Crops Update blog – July 13, 2015 - http://graincrops.blogspot.com/2015/07/yellow-soybeans-need-sun.html). Temperatures remained in the normal range for July.

August 2015 was below normal for temperature and precipitation. Temperatures averaged 73 degrees, 2 degrees cooler than normal. Precipitation totaled 2.75 inches, 1 inch below normal.

September started abnormally dry and warm, with temperatures in the low to mid-90s across the state. Cooler temperatures, scattered showers, and storms started after September 9, although unevenly over the state. South-central Kentucky remained under moderate drought conditions. Although the state did need some rainfall, the weather pattern provided excellent harvest conditions. Temperatures averaged 71 degrees, 2 degrees above normal. Precipitation totaled 2.6 inches, 0.9 inches below normal.

More detailed precipitation and temperature information for each test location is provided in Tables 6 through 13, in the sections called Agronomic Information. (Sources: www.kymesonet.gov, www.nws.noaa.gov, wwwagwx.ca.uky.edu/annual.shtml, and http://www.wunderground.com).

Soybean Production Information

The Kentucky Cooperative Extension Service has a series of publications, *Soybean Production in Kentucky*, which contains a more detailed discussion of soybean production practices:

- AGR-128: *Status, Uses, and Planning (Part I)*
- AGR-129: *Seed Selection, Variety Selection, and Fertilization (Part II)*
- AGR-130: *Planting Practices and Double Cropping (Part III)*
- AGR-131: *Weed, Disease, and Insect Control (Part IV)*
- AGR-132: *Harvesting, Drying, Storage, and Marketing (Part V)*

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* 6 (2) ("Soybean Population and Yield"), and *Corn & Soybean News* 7 (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. Seeding rates should be based on standard germination rate as well as expected stand losses. Stand losses are typically more severe in damp, cool conditions with heavy residue or with soil crusting. Stand losses are typically less with warm conditions and adequate soil moisture.

As of November 1st, soybean production for Kentucky was forecast at 94.6 million bushels, up 14 percent from 2014. Yield was estimated at 52 bushels per acre, up 4.5 bushels from a year ago. Acreage for harvest as beans was estimated at 1.82 million acres, up 70,000 acres from the previous year. Soybean average price reached $9.95 per bushel in August 2015 (Source: November Crop Production-News Release USDA NASS, November 10, 2015; Kentucky AgriNews USDA-NASS: 34[10]).

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

Table 2. Planting Guide for Full-season and Double-crop Soybeans

2A, Full-season						
				Row spacing (inches)		
Target Stand plants/acre	Standard Germination	Assumed Stand Loss	Final Seeding Rate (seeds/acre)	7.5	15	30
				Seeds per foot		
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
2B, Double-crop						
				Row spacing (inches)		
Target Stand plants/acre	Standard Germination	Assumed Stand Loss	Final Seeding Rate (eeds/acre)	7.5	15	30
				Seeds per foot		
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	6.0	12.1
	90%	5%	163,743	2.3	4.7	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
		30%	235,294	3.4	6.8	13.5

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.

Acknowledgments

In addition to the collaborators mentioned in Table 1, the authors would also like to thank:

- John Stanhope and the Service Center crew at Spindletop North Farm (University of Kentucky) for their services all year long.
- The farm crew at the UK Experimental Station in Princeton, Kentucky, for their help with agronomic management and harvest at the Caldwell County location.
- The farm crew at Murray State University for their help with agronomic management and harvest at the Calloway County location.

Contact

Claire Venard, PhD
N-122 Agriculture Science Center North
University of Kentucky
Lexington, KY 40546-0091
email: cvenard@uky.edu
Phone: 859-257-2993 (office)
859-492-1135 (cell)

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) and 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 2015 Soybean Variety Performance Tests were acquired from the following sources:

Armor Seed, LLC
Chris Ouzts 662-719-3157
183 Pennsylvania Avenue, Waldenburg AR 72475
chrisouzts@armorseed.com

ARMOR 37-R33
ARMOR 41X5L
ARMOR 43-R43
ARMOR 440L
ARMOR 46-R65
ARMOR 47X5L
ARMOR 48-C5
ARMOR 497L
ARMOR 49-R56
ARMOR 49X5L
ARMOR 50-R21
ARMOR 51X5L
ARMOR 53-L55
ARMOR AR3905
ARMOR AR3915
ARMOR AR4205
ARMOR AR4305
ARMOR AR4615
ARMOR AR4705
ARMOR AR4904
ARMOR AR5004
ARMOR AR5205
ARMOR AX4450

Beck's Hybrids
Craig Hurley 317-984-3508
6767 E 276th Street, Atlanta IN 46031
craig.hurley@beckshybrids.com

BECK 424L4
BECK 449L4
BECK 474L4
BECK 481R2
BECK 522L4
BECK XL 453R4™*
BECK XL 465R4™*
BECK XL 493R4™*

Caverndale Farms Brand Seeds
Barry Welty 859-236-2150
1921 Bluegrass Pike, Danville KY 40422
bwelty@kywimax.com

CAVERNDALE CF 286 RR2Y/STSn
CAVERNDALE CF 404n
CAVERNDALE CF 415 LLn
CAVERNDALE CF 426 RR2Y/STSn
CAVERNDALE CF 452 RR2Yn
CAVERNDALE CF 472 RR2Y/STSn
CAVERNDALE CF 479 LLn

Channel
David Haines 574-870-9207
800N Lindbergh, St Louis MO 63167
dave.haines@monsanto.com

CHANNEL 4009R2
CHANNEL 4209R2
CHANNEL 4407R2
CHANNEL 4508R2
CHANNEL 4806 R2/STS

Bayer CropScience
Lucas Owen
lucas.owen@bayer.com

James Heath 1-270-970-0814
james.heath@bayer.com

CZ 3560 RY
CZ 3841 LL
CZ 3945 LL
CZ 4105 LL
CZ 4181 RY
CZ 4540 LL
CZ 4590 RY
CZ 4818 LL
CZ 4959 RY
HBK LL4653
HBK LL4850
HBK LL4950
HBK LL4953
HBK RY4721

DuPont Pioneer
George Stabler 803-308-1003
59 Greif Parkway, Suite 200, Delaware OH 43015
George.Stabler@pioneer.com

PIONEER 93Y92
PIONEER 94Y23
PIONEER P28T08R
PIONEER P28T33R
PIONEER P32T16R
PIONEER P35T58R
PIONEER P45T11R
PIONEER P46T01R
PIONEER P47T36R
PIONEER P48T53R
PIONEER P49T97R
PIONEER P50T64R

Dyna-Gro Seed
Mick Schonauer 614-620-5008
Dyna-Gro Seed 615 Hilliard Rome Road, Columbus OH 43228
michael.schonauer@cpsagu.com

DYNA-GRO 32RY39	DYNA-GRO 39RY43
DYNA-GRO S38LL54	DYNA-GRO S39RY65
DYNA-GRO S42RS03	DYNA-GRO S42RY46
DYNA-GRO S43RY95	DYNA-GRO S44LS76
DYNA-GRO S46RY85	DYNA-GRO S47RY13
DYNA-GRO S48RS53	DYNA-GRO S49LL34
DYNA-GRO S49RY25	DYNA-GRO S51RY45
DYNA-GRO S52LL66	DYNA-GRO SX15852RS

Great Lakes Hybrids
Phil Brunner..... 317-440-0572
9915 E M 21, Ovide MI 48866
Phil.brunner@greatlakeshybrids.com

GREAT LAKES HYBRIDS GL3659R2
GREAT LAKES HYBRIDS GL3729R2
GREAT LAKES HYBRIDS GL3852NR2
GREAT LAKES HYBRIDS GL4354NR2
GREAT LAKES HYBRIDS GL4729R2

Growmark
Ken Martin 309-660-5576
1701 Towanda Ave, Bloomington IL 61702
kmartin@growmark.com

HS 45A50
HS 46A50
HS 48A22

L&M Glick Seed
Trevor Glick..... 812-343-8119
15120 E Base Rd, Columbus IN 47203
Trevor@glickseed.com

L&M GLICK 386 R2
L&M GLICK 412 R2

LG Seeds
Jesse Grogan..... 765-426-2763
22827 Shissler Road, Elmwood IL 61529
Jesse.grogan@lgseeds.com

LG SEEDS C2744R2	LG SEEDS C3915R2
LG SEEDS C4221R2	LG SEEDS C4322R2
LG SEEDS C4780R2	LG SEEDS C4994R2

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

ASGROW AG2836	ASGROW AG2935
ASGROW AG3936	ASGROW AG4034
ASGROW AG4135	ASGROW AG4232
ASGROW AG4336	ASGROW AG4632
ASGROW AG4835	ASGROW AG4934
ASGROW AG5335	

Pfister Seeds, LLC
Keith Niemeier..... 618-541-0605
201 Knollwood Dr., Suite A, Champaign IL 61820
kniemeier@pfisterseeds.com

PFISTER 38R202	PFISTER 39R201
PFISTER 39R29	PFISTER 41RS01
PFISTER 43R201	PFISTER 45R23
PFISTER 47R22	

Progeny Ag Products
John D. Rocconi..... 870-238-2079
1529 HWY 193, Wynne AR 72396
johnr@progenyag.com

PROGENY 4211 RY	PROGENY 4214 RY
PROGENY 4247 LL	PROGENY 4613 RYS
PROGENY 4757 RY	PROGENY 4788 RY
PROGENY 4814 LLS	PROGENY 4850 RYS
PROGENY 4900 RY	PROGENY 4930 LL

Terral Seed, Inc.
Dr. Phil Michener/Marty Hale..... 318-231-8800
117 Ellington Drive, Rayville LA 71269
pmichener@terralseed.com; mhale@terralseed.com

REV® 39A35™	REV® 44A14™
REV® 47R34™	REV® 47R53™
REV® 49A14™	REV® 49A55™
REV® 49A75™	REV® 49R94™
REV® 51A56™	REV® 52A94™
REV® 54R84™	REV® 55R53™

Seed Consultants Inc.
Bill Mullen..... 740-505-2022
648 Miami Trace Rd. SW Washigton Court House, OH 43160-0370
bmullen@seedconsultants.com
SEED CONSULTANTS SCS 9363RR™
SEED CONSULTANTS SCS 9385RR™
SEED CONSULTANTS SCS 9393RR™
SEED CONSULTANTS SCS 9412RR™
SEED CONSULTANTS SCS 9456SR™
SEED CONSULTANTS SCS 9474RR™

Southern States Cooperative, Inc.
Jason Hinton 804-291-6785
6606 West Broad Street, Richmond VA 23230
Jason.hinton@sscoop.com
SOUTHERN STATES LL 423N
SOUTHERN STATES SS 3813N R2
SOUTHERN STATES SS 3914NS R2
SOUTHERN STATES SS 4215NS R2
SOUTHERN STATES SS 4414N R2
SOUTHERN STATES SS 4514N R2
SOUTHERN STATES SS 4714NS R2
SOUTHERN STATES SS 4725NS R2
SOUTHERN STATES SS 4915NS R2
SOUTHERN STATES SS 4917N R2

Stewart Seeds
Justin Petrosino..... 1-800-365 SEED
2230 East County Road 300N, Greensburg IN 47240 .
justin.petrosino@stewartseeds.com

STEWART 4016R2	STEWART 4113R2
STEWART 4216R2	STEWART 4415R2
STEWART 4516R2	STEWART 4714R2

Steyer Seeds
Joe Steyer 419-355-6708
PO BOX 209 Old Fort OH 44861
joe@steyerseeds.com

STEYER 3301R2	STEYER 4303R2
STEYER 4402R2	STEYER 4602R2
STEYER 4703R2	

Stine Seed Company
Kyle Ross 270-993-4590
22555 Laredo Trail Adel IA 50003
kwross@stineseed.com

STINE 38RE02	STINE 40RF02
STINE 41LF32	STINE 42LF22
STINE 43RE02	STINE 45LF22
STINE 47RC32	STINE 49LD02

Syngenta Seeds
Sarah Gehant 270-307-4440
4320 Upton Talley Rd, Upton KY 42784
Sarah.gehant@syngenta.com

SYNGENTA 48-D9	SYNGENTA S35-C2
SYNGENTA S39-T3	SYNGENTA S39-U2
SYNGENTA S40-N2	SYNGENTA S41-J6
SYNGENTA S45-R7	SYNGENTA S45-V8
SYNGENTA S46-L2	SYNGENTA S47-K5

UniSouth Genetics, Inc.
Stacy Burwick..... 800-505-3133
Dickson TN 37055
sburwick@usgseed.com
UNISOUTH GENETICS USG 73P93R
UNISOUTH GENETICS USG 74A33R
UNISOUTH GENETICS USG 74F24RS
UNISOUTH GENETICS USG 74F53R
UNISOUTH GENETICS USG 74G23L
UNISOUTH GENETICS USG ELLIS

University of Arkansas
Tina LuAnn Hart / Pengyin Chen 479-575-7564
Soybean Breeding and Genetics Lab, 115 Plant science, Fayetteville AR 72701
tlhart@uark.edu; pchen@uark.edu

UNIVERSITY OF ARKANSAS 5213C
UNIVERSITY OF ARKANSAS 5612
UNIVERSITY OF ARKANSAS OSAGE
UNIVERSITY OF ARKANSAS R05-3239
UNIVERSITY OF ARKANSAS R09-1589
UNIVERSITY OF ARKANSAS R09-430
UNIVERSITY OF ARKANSAS R10-197RY
UNIVERSITY OF ARKANSAS R11-89RY
UNIVERSITY OF ARKANSAS UA5414RR
UNIVERSITY OF ARKANSAS UA5814HP

USDA-ARS
Lisa Fritz 731-425-4736
605 Airways Blvd, Jackson TN 38301
lisa.fritz@ars.usda.gov

EXP USDA-ARS JTN-5110

Warren Seed and Agronomy Service, LLC
Lanny Warren..... 731-234-2921
208 South Thompson St, Union City TN 38261
Lanny.warren@charter.net

WARREN SEED DS 3780
WARREN SEED DS 3838
WARREN SEED DS 43-003
WARREN SEED DS 4340
WARREN SEED DS 4633
WARREN SEED DS 4720
WARREN SEED DS 4850

Table 3. Company Specifications for Entries in the 2015 Kentucky Soybean Variety Performance Tests[A]

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophtora Sojae[B,C] Resistance Gene Rps	Phytophtora Sojae[B,C] Field Tolerance	Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canke	Other Reported Resistance(S)	Seed Treatment(S)
ARMOR 37-R33	RR2	3.7								
ARMOR 41X5L	LL	4.1								
ARMOR 43-R43	RR2	4.3	R3		MR	MR		R		
ARMOR 43-R51	RR2	4.3								
ARMOR 440L	LL	4.4								
ARMOR 46-R65	RR2/STS	4.6	MR3		MR	MR		R		
ARMOR 47-L10	LL	4.7								
ARMOR 47-R70	RR2	4.7								
ARMOR 48-C5	CONV/STS	4.8			MR	MR		R		
ARMOR 497L	LL	4.9								
ARMOR 49-R44	RR2	4.9								
ARMOR 49-R56	RR2	4.9	R3		MR	MR		R		
ARMOR 49X5L	LL	4.9								
ARMOR 50-R21	RR2	5.0								
ARMOR 51X5L	LL	5.1								
ARMOR 53-L55	LL/STS	5.3	R?			MR				
ARMOR AR3905	RR2	3.9								
ARMOR AR3915	RR2	3.9								
ARMOR AR4205	RR2	4.2								
ARMOR AR4504	RR2	4.5								
ARMOR AR4615	RR2	4.6								
ARMOR AR5004	RR2	5.0								
ARMOR AR5205	RR2	5.2								
ASGROW AG2836	RR2	2.8	3	1c	T	MR				2
ASGROW AG2935	RR2	2.9	3	1c	T	MR				2
ASGROW AG3936	RR2	3.9	3	1c	T	MR		R		2
ASGROW AG4034	RR2	4.0	3	1c	T	MR		R		2
ASGROW AG4135	RR2/SR	4.1	3	1c	T	MR		R		2
ASGROW AG4232	RR2/SR	4.2	3	1a	MT	S		R		2
ASGROW AG4336	RR2	4.3	3	1a	T	MS		R		2
ASGROW AG4632	RR2/SR	4.6	3	1a	T	MS		MR		2
ASGROW AG4835	RR2/SR	4.8	3	1c	MS	MR		R		2
ASGROW AG4934	RR2/SR	4.9	3	1c	T	MR		R		2
ASGROW AG5335	RR2/SR	5.3	3	1c	T	MR		R		2
BECK 424L4	LL	4.2	3, 14	c	T	T		MR		10
BECK 449L4	LL	4.4	3, 14	1a	MT	T		S		10
BECK 474L4	LL	4.7	3, 14	c	T	T		R		10
BECK 481R2	RR2/STS	4.8	3, 14	c	T	MT		R		10
BECK 522L4	LL	5.2	3, 14	c	T	T		R		10
BECK XL 453R4™*	RR	4.5	3, 14		T	T		R		10
BECK XL 465R4™*	RR/STS	4.6	3, 14		T	T		R		10
BECK XL 493R4™*	RR	4.9	3, 14		T	MT		R		10
CAVERNDALE CF 286 RR2Y/STSn	RR2/STS	2.8			T	MR		MR		18, 19, 20
CAVERNDALE CF 404n	CONV	4.0		1c	T	MR		MR		18, 19, 20
CAVERNDALE CF 415 LLn	LL	4.1	3, 14	1c	T	MR		MR		18, 19, 20
CAVERNDALE CF 426 RR2Y/STSn	RR2/STS	4.2	3, 14	1c	T	MR		MR		18, 19, 20
CAVERNDALE CF 452 RR2Yn	RR2	4.5	3, 14	1a	T	MR		R		18, 19, 20
CAVERNDALE CF 472 RR2Y/STSn	RR2/STS	4.7	3, 14	1c	T	MR		R		18, 19, 20
CAVERNDALE CF 479 LLn	LL	4.7		1c	T	MR		MR		18, 19, 20
CHANNEL 4009R2		4.0								2
CHANNEL 4209R2		4.2								2
CHANNEL 4407R2		4.4								2
CHANNEL 4508R2		4.5								2
CHANNEL 4806 R2/STS		4.8								2
CZ 3560 RY	RR2	3.5		1c	MS	MS		S		12, 17
CZ 3841 LL	LL	3.8		3a	S	S		S		12, 17
CZ 3945 LL	LL	3.9			S	S				12, 17
CZ 4105 LL	LL	4.1		1c		MS		S		12, 17
CZ 4181 RY	RR2	4.1				MS		S		12, 17
CZ 4540 LL	LL	4.5				S		T		12, 17
CZ 4590 RY	RR2	4.5				MS		S		12, 17
CZ 4818 LL	LL	4.8				S		S		12, 17
CZ 4959 RY	RR2	4.9		1a	MS	MT		S		12, 17
DYNA-GRO 32RY39	RR2/STS	3.9	3, 14	1c	T	MR		MR	MR Frogeye Leaf Spot	5, 13
DYNA-GRO 39RY43	RR2	4.3	3, 14	1c	MT	MR	MS	MS		5, 13
DYNA-GRO S38LL54	LL	3.8	3, 14	1c	MT	MR		MR	MR Frogeye Leaf Spot	5, 13
DYNA-GRO S39RY65	RR2	3.9	3, 14		MT	MS			MR Charcoal Root Rot	5, 13
DYNA-GRO S42RS03	RR2/STS	4.2	3, 14	1a	T	S		MR	MR Charcoal Root Rot	5, 13
DYNA-GRO S42RY46	RR2	4.2	3, 14		MT	R		MR	MR Charcoal Root Rot	5, 13
DYNA-GRO S43RY95	RR2	4.3	3, 14	1k	MT	MS		R	MR Frogeye Leaf Spot	5, 13
DYNA-GRO S44LS76	LL/STS	4.4	3, 14	1k	MT	MR		MR	MR Frogeye Leaf Spot	5, 13
DYNA-GRO S46RY85	RR2	4.6	3, 14	1k	MT	MR	MR	R		5, 13
DYNA-GRO S47RY13	RR2	4.7	3, 14		MT	MR	MR	MR	MR Frogeye Leaf Spot	5, 13
DYNA-GRO S48RS53	RR2/STS	4.8	3, 14	1c	T	MS	MR	R	R Frogeye Leaf Spot	5, 13
DYNA-GRO S49LL34	LL	4.9	3, 14	1c	MT	MS	MR	MR		5, 13
DYNA-GRO S49RY25	RR2	4.9	3, 14	1c	T	R		MR	R Frogeye Leaf Spot	5, 13
DYNA-GRO S51RY45	RR2	5.1	3, 14	1c	MT	MR		R		5, 13
DYNA-GRO S52LL66	LL	5.2	3		MT	MS	MR	MR	R Frogeye Leaf Spot	5, 13
DYNA-GRO SX15852RS	RR2/STS	5.2	3, 14	1c	MS	R		R	MR Root Knot Nematode	5, 13
EXP USDA-ARS JTN-5110	CONV, EXP, P	5.5	2, 3, 5			R		R	R Frogeye Leaf Spot R Reniform nematode	4, 7
GREAT LAKES HYBRIDS GL3659R2	RR2	3.6	PI88788		T	R				12
GREAT LAKES HYBRIDS GL3729R2	RR2	3.7	PI88788	1k	T	MR				12
GREAT LAKES HYBRIDS GL3852NR2	RR2	3.8	PI88788	1c	T	R				12
GREAT LAKES HYBRIDS GL4354NR2	RR2	4.3	PI88788		MT	R				12
GREAT LAKES HYBRIDS GL4729R2	RR2	4.7	PI88788	1c	MT	R				12
HBK LL4653	LL	4.6				S		S		17

continued

Table 3. *(continued)*

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora Sojae[B,C] Resistance Gene Rps	Phytophthora Sojae[B,C] Field Tolerance	Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance(S)	Seed Treatment(S)
HBK LL4850	LL	4.8		1k		MT		S		17
HBK LL4950	LL	4.9		1c		MT		S		17
HBK LL4953	LL	4.9		1c		MT		S		17
HBK RY4721	RR2	4.7		1c	S	MT		S		17
HS 45A50	RR2	4.5	3, 14	1a	2	MR	MR			5
HS 46A50	RR2	4.6	3, 14	1k	1.8	MR	MR		R Charcoal Root Rot	5
HS 48A22	RR2/STS	4.8	3, 14		1.9	MR	MR			5
L&M GLICK 386 R2	RR2	3.8		segc		2.5				4, 13
L&M GLICK 412 R2	RR2	4.2	3, 14	1c	2.1	2.6				
LG SEEDS C2744R2	RR2	2.7		1c	T	MR				3, 12, 14
LG SEEDS C3915R2	RR2	3.9		1c	MT	MR		R		3, 12, 14
LG SEEDS C4221R2	RR2/STS	4.2			T	MR		S		3, 12, 14
LG SEEDS C4322R2	RR2	4.3		1a	T	R		R		3, 12, 14
LG SEEDS C4780R2	RR2/STS	4.7		1c	MT	MR		R		3, 12, 14
LG SEEDS C4994R2	RR2	4.9		1c	T	R		MR		3, 12, 14
PFISTER 38R202	RR2	3.8	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PFISTER 39R201	RR2	3.9	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PFISTER 39R29	RR2	3.9	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PFISTER 41RS01	RR2	4.1	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PFISTER 43R201	RR2	4.3	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PFISTER 45R23	RR2	4.5	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PFISTER 47R22	RR2	4.7	3, 14	1c	T	MR	MR	MR	MR Frogeye Leaf Spot	16
PIONEER 93Y92	RR	3.9	3, 14		MS	MR				1, 7
PIONEER 94Y23	RR	4.1	3, 14		MS	MR				1, 7
PIONEER P28T08R	RR	2.8	3, 14		MS	MR				1, 7
PIONEER P28T33R	RR	2.8	3, 14	1k	MS	MR				1, 7
PIONEER P32T16R	RR	3.2	3, 14	1k, 3a	MT	MR				1, 7
PIONEER P35T58R	RR	3.5	3, 14		MT	MR				1, 7
PIONEER P45T11R	RR	4.5	3, 14	1k	MT	MR		R		1, 7
PIONEER P46T01R	RR	4.6	3, 14		MT	MR		R		1, 7
PIONEER P47T36R	RR	4.7	3, 14		MT	MR		R		1, 7
PIONEER P48T53R	RR	4.8	3, 14		MT	MR		R		1, 7
PIONEER P49T97R	RR	4.9	3, 14	1k	MT	MR		R		1, 7
PIONEER P50T64R	RR	5.0	3, 14	1k	MT	MR		R		1, 7
PROGENY 4211 RY	RR2	4.2	3, 14		T	MR				12, 15
PROGENY 4214 RY	RR2	4.2	3, 14		MR	MR		MR		12, 15
PROGENY 4247 LL	LL	4.2				MR				12, 15
PROGENY 4613 RYS	RR2/STS	4.6	R	1c	MR	MR		R		12, 15
PROGENY 4757 RY	RR2	4.7	3, 14	1a	MR	MR		R		12, 15
PROGENY 4788 RY	RR2	4.7	3, 14	1c	MR	MS		MR		12, 15
PROGENY 4814 LLS	LL/STS	4.8				MR				12, 15
PROGENY 4850 RYS	RR2/STS	4.8	3, 14	1c	MR	MR		R		12, 15
PROGENY 4900 RY	RR2	4.9	3, 14	1a	MR	MR		MR		12, 15
PROGENY 4930 LL	LL	4.9	3	1c	MR	MR		MR		12, 15
REV® 39A35™	RR	3.9								4, 7, 23
REV® 44A14™	RR2	4.4	1, 3	1c						4, 7, 23
REV® 47R34™	RR	4.7	3, 14	1k						4, 7, 23
REV® 47R53™	RR	4.7	3, 14							4, 7, 23
REV® 49A14™	RR	4.9	3, 14	1k						4, 7, 23
REV® 49A55™	RR	4.9	3, 14							4, 7, 23
REV® 49A75™	RR	4.9		1k						4, 7, 23
REV® 49R94™	RR2	4.9	3	1c						4, 7, 23
REV® 51A56™	RR	5.1								4, 7, 23
REV® 52A94™	RR/STS	5.2	3, 14							4, 7, 23
REV® 54R84™	RR	5.4	3, 14	1k						4, 7, 23
REV® 55R53™	RR	5.5	3, 14	1k						4, 7, 23
SEED CONSULTANTS SCS 9363RR™	RR	3.6	3, 14	1k	MT	MR			MR Frogeye Leaf Spot MR Charcoal Root Rot	
SEED CONSULTANTS SCS 9385RR™	RR	3.8	3, 14		MT	MR			MR Frogeye Leaf Spot MR Charcoal Root Rot	
SEED CONSULTANTS SCS 9393RR™	RR	3.9	3, 14	1k	MT	MR			R Frogeye Leaf Spot MR Charcoal Root Rot	
SEED CONSULTANTS SCS 9412RR™	RR	4.1	3, 14	1k	MT	MR			S Frogeye Leaf Spot MR Charcoal Root Rot	
SEED CONSULTANTS SCS 9456SR™	RR	4.5	3, 14		T	MR		R	R Frogeye Leaf Spot	
SEED CONSULTANTS SCS 9474RR™	RR	4.7	3, 14		MT	MR		R	MR Frogeye Leaf Spot	
SOUTHERN STATES LL 423N	LL	4.2	3, 14	1c	MT	MS				2, 12
SOUTHERN STATES SS 3813N R2	RR2	3.8	3, 14	1c	MT	T				2, 12
SOUTHERN STATES SS 3914NS R2	RR2/STS	3.9	3	1c	MT	MS				2, 12
SOUTHERN STATES SS 4215NS R2	RR2/STS	4.2	3, 14		T	MS				2, 12
SOUTHERN STATES SS 4414N R2	RR2	4.4	3, 14	1c	MT	MS				2, 12
SOUTHERN STATES SS 4514N R2	RR2	4.5	3, 14	1c	MT	MT				2, 12
SOUTHERN STATES SS 4714NS R2	RR2/STS	4.7	3, 14	1c	MT	MS				2, 12
SOUTHERN STATES SS 4725NS R2	RR2/STS	4.7	3, 14	1c		MS				2, 12
SOUTHERN STATES SS 4915NS R2	RR2/STS	4.9	3, 14	1c	MT	MT				2, 12
SOUTHERN STATES SS 4917N R2	RR2	4.9	3, 14	1c		MS				2, 12
STEWART 4016R2	RR2	4.0	PI88788, 3	1c	MR	MR		R		2
STEWART 4113R2	RR2	4.1	PI88788	1c	R	MR		R		2
STEWART 4216R2	RR2	4.2	PI88788	1a	MR	R		R		2
STEWART 4415R2	RR2	4.4	PI88788		MR	MR		R		2
STEWART 4516R2	RR2	4.5	PI88788	1a	MR	MS		R		2
STEWART 4714R2	RR2	4.7	PI88788		MR	MR		R		2
STEYER 3301R2	RR2	3.3	3, 14	1c	MT	MR	MR	MS		6, 13
STEYER 4303R2	RR2/STS	4.3	3, 14	1c	MT	MR	MR	MR		6, 13
STEYER 4402R2	RR2	4.4	3, 14	1k	MT	MS	MR	R		6, 13
STEYER 4602R2	RR2	4.6	3, 14	1a	MT	MR	MR	R		6, 13
STEYER 4703R2	RR2/STS	4.7	3, 14	1c	MT	MS	MR	R		6, 13

continued

Table 3. *(continued)*

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophtora Sojae[B,C] Resistance Gene Rps	Phytophtora Sojae[B,C] Field Tolerance	Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance(S)	Seed Treatment(S)
STINE 38RE02	RR2	3.8		1c						21
STINE 40RF02	RR2	4.0		1c						21
STINE 41LF32	LL	4.1								21
STINE 42LF22	LL	4.2								21
STINE 43RE02	RR2	4.3								21
STINE 45LF22	LL	4.5								21
STINE 47RC32	RR2	4.7								21
STINE 49LD02	LL	4.9								21
SYNGENTA 48-D9	RR2	4.8	3, 14	1c	MT	MT			R Frogeye Leaf Spot	5, 13
SYNGENTA S35-C2		3.5								
SYNGENTA S39-T3	RR2/STS	3.9	3, 14		MT	MR			MR Frogeye Leaf Spot	5, 13
SYNGENTA S39-U2		3.9								
SYNGENTA S40-N2	RR2	4.0	3, 14	1a	MT	MT			R Frogeye Leaf Spot	5, 13
SYNGENTA S41-J6	RR2	4.1	3, 14	1c	MT	MR			MR Frogeye Leaf Spot	16
SYNGENTA S45-R7	RR2/STS	4.5	3, 14		MT			R	MR Frogeye Leaf Spot	6, 22
SYNGENTA S45-V8	RR2	4.5	3, 14	1c	MT	MT		R	MR Frogeye Leaf Spot	5, 13
SYNGENTA S46-L2	RR2	4.6	3, 14	1c	MT	MR		R	MR Frogeye Leaf Spot	5, 13
SYNGENTA S47-K5	RR2	4.7	3, 14	1a	MT	MT			R Frogeye Leaf Spot	6, 22
UNISOUTH GENETICS USG 73P93R	RR2	3.9	3, 14			MR				8, 9, 11
UNISOUTH GENETICS USG 74A33R	RR2	4.3	3			MR		MR	MR Frogeye Leaf Spot	8, 9, 11
UNISOUTH GENETICS USG 74F24RS	RR2/STS	4.2	3, 14	1c		R		MS	MR Frogeye Leaf Spot	8, 9, 11
UNISOUTH GENETICS USG 74F53R	RR2/STS	4.5		1c		R		R	MS Frogeye Leaf Spot	8, 9, 11
UNISOUTH GENETICS USG 74G23L	LL	4.2		3a		MR				8, 9, 11
UNISOUTH GENETICS USG ELLIS	CONV	4.9								8, 9, 11
UNIVERSITY OF ARKANSAS 5213C	CONV	5.2								
UNIVERSITY OF ARKANSAS 5612	CONV	5.6								
UNIVERSITY OF ARKANSAS OSAGE	CONV	5.6								
UNIVERSITY OF ARKANSAS R05-3239	CONV	4.9								4
UNIVERSITY OF ARKANSAS R09-1589	CONV	4.9								
UNIVERSITY OF ARKANSAS R09-430	CONV	5.0								
UNIVERSITY OF ARKANSAS R10-197RY	RR2	5.6								
UNIVERSITY OF ARKANSAS R11-89RY	RR2	5.4								
UNIVERSITY OF ARKANSAS UA5414RR	RR	5.4								
UNIVERSITY OF ARKANSAS UA5814HP	CONV	5.8								
WARREN SEED DS 3780	RR2	3.7	3, 14	1c	MT	MR				5
WARREN SEED DS 3838	RR2	3.8	3, 14	1c	MT	MR				5
WARREN SEED DS 43-003	RR2	4.3	3, 14	1c	MT	MR				5
WARREN SEED DS 4340	RR2	4.3	3, 14	1c	MT	MR				5
WARREN SEED DS 4633	RR2	4.6	3, 14	1c	MT	MR				5
WARREN SEED DS 4720	RR2/STS	4.7	3, 14	1c	MT	MR				5
WARREN SEED DS 4850	RR2/STS	4.8	3, 14	1c	MT	MR				5

A This information is provided by the companies and organizations, and has not been checked by the soybean variety performance test project.

B All races of Phytophtora sojae so far identified in Kentucky can be controlled with varieties with Rps 1c or 1k. Race-specific resistant is highly effective, but a proper match between pathogen race and variety is essential. Field tolerance is a lower level of protection to the fungus that will provide good (not excellent) control against all races. Seed and young seedlings of tolerant varieties must be protected with an appropriate fungicide since field tolerance develops after early seedling growth stages.

C Blank spaces = no data provided by seed company or data unknown
S=suscepible, MS=moderately susceptible, MT=moderately tolerant, T=tolerant, MR=moderately resistant, R=resistant

RR Roundup Ready Variety (RR1 first generation, original trait, released in 1996)
RR2 Introduced in 2009, Roundup Ready 2 Yield soybean variety
LL Introdced in 2009, Liberty Link is an ignite (glufosate ammonium) herbicide tolerant soybean variety
STS Introduced in 1994, STS is a sulfonylurea herbicide tolerant soybean variety
SR Sulfonylurea Resistant Variety
CONV Variety is a conventional entry
EXP Variety that is soon to be released or still being evaluated
P Public variety

Table 4. Seed Treatments.

Code	Name (treatment combination)	Treatment	Chemical class/use	LD50 oral/ derm A	LC50B
1	Allegiance & Meta Star ST	Metalaxyl	systemic fungicide	2,900/2,000	21.94 - 1hr
2	Acceleron (1, 10, 11)	Metalaxyl, Imidacloprid, Pyraclostrobin	systemic & non-systemic fungicide, systemic insecticide	NA	NA
3	Apron XL	Mefenoxam	systemic fungicide	862/2,020	2.52 - 4hrs
4	Apron Maxx (3, 12)	Mefenoxam, Fludioxonil	systemic & non-systemic fungicide	5,000/5,050	5.42 - 4hrs
5	Cruiser Maxx (3, 5, 12)	Mefenoxam, Thiamethoxam, Fluodioxinil	systemic & non-systemic fungicide, systemic insecticide	5,000/ 5,000	2.5 - 4hrs
6	Cruiser Extreme (6, 8)	Mefenoxam, Thiamethoxam, Fludioxonil, Axoxystrobin	systemic & non-systemic fungicide, systemic insecticide	5,000/ 5,050	NA
7	Gaucho	Imidacloprid	systemic insecticide	643/ 2,000	8.1 to 10.0 - 1hr
8	Trilex®	Trifloxystrobin	systemic fungicide	5,000/5,000	2.6 - 4hrs
9	Rancona 3.8 FS	Ipconazole	systemic broad-spectrum fungicide	5,000/slight	2.59 - 4hrs
10	Escalate (3, 12, 16, 10)	Mefenoxam, Fludioxonil, Thiram, Imidacloprid	systemic & non-systemic fungicide, systemic insecticide	640/2,000	NA
11	Agri Star® Macho® 600 ST (10)	Imidacloprid	systemic insecticide	4,500/2,000	5.0 - 4hrs
12	Poncho® VOTiVO®	Clothiandin, Bacillus firmus	systemic insecticide and nematicide	2,000/5,000	2.62 - 4hrs
13	VibranceTM	Sedaxane	fungicide	2,975/5,050	2.56 - 4hrs
14	Xemium®	Fluxapyroxad	broad spectrum fungicide	2,000/2,000	5.10 - 4hrs
15	Trilex® 2000	Trifloxystrobin, Metalaxyl, Glycerine	systemic fungicide	2,000/5,000	2.6 - 4hrs
16	Clariva™ Complete Beans	Pasteuria nishizawae, Mefenoxam, Thiamethoxam, Fluodioxinil, Sedaxane	nematicide, systemic & non-systemic fungicide, systemic insecticide	see 5 & 13	see 5 & 13
17	ILeVO®	Fluopyram	fungicide, nematicide	1,750/5,000	2.0 - 96hrs
18	Eclipse TEN	Metalaxyl, Fludioxonil, Thiabendazole, Imidacloprid	systemic & non-systemic fiungicide	NA	NA
19	TagTeam® LCO liquid	Penicillium bilaii, Bradyrhizobium japonicum	beneficial microorganisms	NA	NA
20	N-Hibit™ CST	Harpin protein	activates a natural defense mechanism in plants, referred to as systemic acquired resistance	NA	NA
21	Stine XP		fungicide		
22	Avicta Complete Beans	Abamectin ,Thiamethoxam , Mefenoxam , Fludioxon	nematicide, insecticide & fungicide	97.83/5,000	0.055-0.50 - 4hrs
23	EverGol™ Energy	Prothioconazole, Penflufen, Metalaxyl, Polyethylene-polypropylene copolymer, 1,2-Propanediol	fungicide	2,000/2,000	2,205 - 4hrs

A/B 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).

Table 5. 2015 Kentucky Soybean Variety Performance Tests, State Summary, Recommended Table.

	YIELD (BU/AC)[A]			TEST WEIGHT	LODGING	% OIL[A/B]			% PROTEIN[A/B]		
BRAND VARIETY	**2015**	**2014-15**	**2013-15**	**2015[A]**	**2015**	**2015**	**2014-15**	**2013-15**	**2015**	**2014-15**	**2013-15**
MATURITY GROUP II (relative MG 2.0-2.9)[C]											
PIONEER P28T33R	**62.2**	**59.0**		53.4	1.7	20.7	**20.3**		34.4	36.4	
ASGROW AG2935	61.3			53.2	2.3	19.7			35.8		
CAVERNDALE CF 286 RR2Y/STSn	61.1	57.2	57.3	53.8	1.8	19.1	18.8	18.8	35.9	**38.0**	37.9
ASGROW AG2836	59.0			53.0	2.1	18.9			**36.2**		
LG SEEDS C2744R2	58.3			53.2	2.3	19.1			35.1		
PIONEER P28T08R	57.9			52.4	2.0	**21.3**			34.8		
AVERAGE Group II	**60.0**	**58.1**	**NA**	**53.2**	**2.0**	**19.8**	**19.5**	**NA**	**35.4**	**37.2**	**NA**
LSD (0.10)	4.9	3.0				0.3	0.2		0.3	0.3	
C.V.	6.0	5.5				1.2	1.3		0.7	0.8	
MATURITY GROUP III (relative MG 3.0-3.9)[C]											
SYNGENTA S39-T3	**72.5**	**69.7**		53.4	1.6	19.4	19.1		35.4	36.7	
SEED CONSULTANTS SCS 9393RR™	71.9	68.5	**67.6**	52.8	1.2	**20.7**	20.3	**20.5**	33.9	35.7	35.7
ARMOR AR3915	70.9			53.7	1.4	19.5			35.6		
SOUTHERN STATES SS 3813N R2	70.4	66.9	67.1	52.7	2.2	**20.7**	20.1	20.0	33.9	35.6	35.9
ASGROW AG3936	70.4			53.4	1.7	20.0			34.9		
SEED CONSULTANTS SCS 9385RR™	69.9	67.8		54.3	1.8	20.5	20.3		33.8	35.3	
GREAT LAKES HYBRIDS GL3729R2	69.7	65.5		53.1	2.5	20.4	20.0		34.1	36.0	
REV® 39A35™	69.5	67.2		54.1	1.9	**20.7**	**20.4**		33.5	35.1	
ARMOR AR3905	68.4			53.6	1.5	20.0			35.8		
PIONEER 93Y92	68.1	66.0	64.8	53.4	2.1	20.4	19.8	19.9	34.5	36.4	36.5
DYNA-GRO 32RY39	68.1	64.3		53.5	1.3	19.5	19.1		35.2	36.5	
PFISTER 39R29	67.7	65.1		53.1	1.5	19.2	18.8		35.3	**37.1**	
SYNGENTA S35-C3	67.6			53.4	2.2	20.2			34.4		
UNISOUTH GENETICS USG 73P93R	67.4	64.5	64.0	52.3	1.5	20.3	19.7	19.8	34.3	36.4	36.4
SEED CONSULTANTS SCS 9363RR™	66.8	64.4	64.0	54.0	1.3	19.8	19.6	19.7	34.9	36.5	36.3
PIONEER P35T58R	65.9	63.5	64.3	53.7	1.8	**20.7**	20.3	20.3	33.9	35.5	35.7
GREAT LAKES HYBRIDS GL3852NR2	65.7			53.3	1.9	19.9			35.6		
PFISTER 39R201	65.5			53.0	1.6	19.7			36.0		
CZ 3560 RY	65.5			53.5	2.2	18.7			35.9		
DYNA-GRO S38LL54	65.4			53.3	1.4	20.0			34.6		
DYNA-GRO S39RY65	65.0	63.8		52.2	1.6	**20.7**	19.8		33.9	36.0	
SOUTHERN STATES SS 3914NS R2	64.8	63.8		53.6	1.3	19.4	19.1		35.5	37.0	
CZ 3841 LL	64.7	63.1		53.2	2.2	19.9	19.4		34.9	36.8	
STINE 38RE02	64.6	62.1		53.2	2.3	19.8	19.4		35.0	36.5	
STEYER 3301R2	64.4			53.4	1.6	19.4			35.3		
WARREN SEED DS 3838 R2Y	64.3	63.8		53.4	1.6	20.5	20.2		34.2	35.5	
L&M GLICK 386 R2	64.1			53.4	1.3	19.8			35.7		
CZ 3945 LL	63.0			53.2	2.2	20.3			34.7		
LG SEEDS C3915R2	62.6			53.2	1.3	19.9			35.6		
PFISTER 38R202	62.5			52.3	1.8	20.5			34.1		
PIONEER P32T16R	61.1			53.1	1.7	20.3			34.3		
SYNGENTA S39-U2	60.6			53.1	1.9	19.8			34.4		
GREAT LAKES HYBRIDS GL3659R2	59.6			53.2	2.2	19.1			35.4		
ARMOR 37-R33	58.9			53.2	1.9	19.1			35.8		
WARREN SEED DS 3780	58.8			53.9	2.2	19.2			35.7		
AVERAGE Group III	**65.9**	**65.3**	**65.3**	**53.3**	**1.8**	**19.9**	**19.7**	**20.0**	**34.9**	**36.1**	**36.1**
LSD (0.10)	5.9	4.0	3.5			0.3	0.2	0.2	0.3	0.3	0.2
C.V.	6.7	6.5	7.1			1.1	1.2	1.2	0.7	0.8	0.9
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)[D]											
PIONEER P45T11 R	**73.5**	69.9		53.3	1.1	19.4	19.2		34.9	36.2	
STEWART 4113R2	73.1	69.8	**68.0**	53.4	1.7	19.8	19.2	19.2	32.8	34.7	35.1
CAVERNDALE CF 426 RR2Y/STSn	71.9	**70.1**		53.2	2.5	20.0	19.7		34.6	36.0	
UNISOUTH GENETICS USG 74F24RS	71.5	69.6		53.9	2.3	20.3	19.8		34.2	35.7	
LG SEEDS C4221R2	71.2			54.1	1.8	19.7			34.9		
STEWART 4516R2	70.9			53.0	2.0	19.8			34.6		
SYNGENTA S45-R7	70.8			54.3	1.5	20.2			36.0		
WARREN SEED DS 43-003	69.9			53.4	1.5	20.2			34.6		
DYNA-GRO S43RY95	69.6	67.6		52.9	2.6	20.0	19.7		34.0	35.7	

Table 5. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015[A]	LODGING 2015	% OIL[A/B] 2015	2014-15	2013-15	% PROTEIN[A/B] 2015	2014-15	2013-15
SEED CONSULTANTS SCS 9456SR™	69.5			52.3	1.9	20.2			35.2		
CHANNEL 4508R2/SR	69.2	65.5		53.4	2.0	19.2	19.2		34.8	35.7	
UNISOUTH GENETICS USG 74F53R	69.1	67.8		51.6	2.4	19.4	19.1		35.8	36.8	
LG SEEDS C4322R2	69.1	67.5		54.2	1.9	20.4	20.1		34.5	35.9	
SOUTHERN STATES SS 4215NS R2	69.0			54.0	1.8	19.9			34.8		
CAVERNDALE CF 415 LLn	69.0			54.1	1.5	20.3			35.1		
STEYER 4402R2	68.9			52.8	1.8	19.8			34.6		
CAVERNDALE CF 452 RR2Yn	68.8			58.0	1.9	20.0			33.9		
CZ 4105 LL	68.8			54.4	1.5	20.0			35.1		
CAVERNDALE CF 404n	68.4			53.7	2.1	20.5			34.2		
SYNGENTA S40-N2	68.1	65.1		53.7	1.5	**21.0**	**20.8**		33.8	35.1	
UNISOUTH GENETICS USG 74G23L	68.1			54.7	2.3	19.3			35.1		
HS 45A50	67.9			53.0	2.0	19.7			34.2		
REV® 44A14™	67.7			54.3	1.5	19.8			34.4		
PIONEER 94Y23	67.5	65.6	65.2	54.3	1.2	20.4	20.1	20.1	33.2	35.0	35.2
PFISTER 41RS01	67.2			54.2	2.2	19.4			34.8		
ASGROW AG4135	67.1	65.9		53.9	2.0	19.9	19.7		35.1	36.2	
ARMOR AR4205	67.0			51.6	1.8	19.4			35.2		
BECK 424L4	66.9			54.4	1.4	19.7			35.6		
STINE 40RF02	66.7			54.2	2.1	19.3			35.1		
ARMOR 41X5L	66.7			54.1	1.4	20.1			35.1		
BECK XL 453R4™*	66.7			52.5	1.9	20.1			34.9		
CHANNEL 4009R2	66.2			53.5	1.4	20.1			35.6		
SYNGENTA S45-V8	66.1	64.7	63.9	54.4	1.8	20.0	19.5	19.7	34.9	36.1	36.1
STEWART 4415R2	66.0			53.8	1.9	19.5			34.9		
L&M GLICK 412 R2	66.0			54.2	1.9	19.8			34.7		
PFISTER 45R23	65.9			51.6	2.0	20.0			33.3		
DYNA-GRO S42RS03	65.9	64.3		52.9	1.5	20.2	19.7		33.7	35.2	
PFISTER 43R201	65.8			53.9	1.3	20.1			34.9		
DYNA-GRO 39RY43	65.7	65.1	64.8	54.1	1.7	19.7	19.5	19.5	34.8	36.1	36.4
WARREN SEED DS 4340 R2Y	65.7	64.8	65.9	53.7	1.9	19.5	19.3	19.4	35.3	36.5	36.7
ASGROW AG4034	65.6	64.3		53.9	1.5	19.4	19.0		35.6	37.2	
STEYER 4303R2	65.6	66.2		53.5	2.2	20.3	20.1		34.3	35.6	
SOUTHERN STATES LL 423N	65.5	66.4	66.0	54.3	2.5	19.5	19.2	19.3	34.8	36.3	36.4
SEED CONSULTANTS SCS 9412RR™	65.4			54.8	1.7	19.7			35.3		
STINE 41LF32	65.2			54.2	1.4	20.2			35.0		
PROGENY 4211 RY	65.2	65.6	65.0	53.5	2.0	19.9	19.5	19.5	34.3	36.0	36.1
ARMOR 43-R51	65.2			53.9	1.8	20.1			34.6		
STINE 42LF22	64.8			54.4	1.8	20.2			33.5		
CZ 4181 RY	64.8	63.3		53.9	2.1	19.5	18.9		34.9	36.6	
ARMOR 440L	64.7			53.4	2.4	19.6			34.8		
ASGROW AG4336	64.5			54.5	1.8	20.5			34.3		
STEWART 4016R2	64.5			53.6	1.7	20.2			35.4		
STINE 43RE02	64.4	65.1		53.3	1.8	19.7	19.4		34.9	35.7	
DYNA-GRO S42RY46	63.6			54.0	1.8	20.2			34.5		
SYNGENTA S41-J6	63.5	61.6	61.1	53.7	1.9	19.6	19.2	19.4	36.3	**37.4**	37.3
CZ 4590 RY	63.0			53.6	1.7	18.4			36.1		
GREAT LAKES HYBRIDS GL4354NR2	62.3			53.5	1.7	20.3			34.2		
PROGENY 4247 LL	62.3			53.9	1.6	20.3			33.2		
PROGENY 4214 RY	62.0			54.0	1.7	20.3			34.6		
STEWART 4216R2	61.9			54.0	1.6	19.9			35.3		
CHANNEL 4209R2	61.8			54.4	1.6	20.0			35.0		
ARMOR 43-R43	61.8	62.7	62.1	54.0	1.3	19.2	19.2	19.4	35.1	36.1	36.2
BECK 449L4	61.6			53.6	2.2	20.7			33.8		
DYNA-GRO S44LS76	61.6			53.5	2.0	20.9			33.6		
ASGROW AG4232	60.9	61.7	63.0	54.1	2.6	19.5	19.4	19.3	34.4	35.4	35.9
ARMOR AR4504	60.7	62.3		53.0	2.3	19.0	18.6		34.7	35.6	
SOUTHERN STATES SS 4414N R2	60.4			54.1	1.5	18.6			**36.4**		
UNISOUTH GENETICS USG 74A33R	60.2	62.6	60.8	53.2	1.8	19.9	19.4	19.3	34.8	36.4	36.7
SOUTHERN STATES SS 4514N R2	60.1	62.6		53.2	2.2	18.7	18.6		35.1	35.4	
STINE 45LF22	58.2			54.6	1.8	20.1			34.4		

Table 5. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015[A]	LODGING 2015	% OIL[A/B] 2015	2014-15	2013-15	% PROTEIN[A/B] 2015	2014-15	2013-15
CHANNEL 4407R2/STS	58.1	58.6		52.2	2.1	19.4	19.1		35.5	37.0	
CZ 4540 LL	56.8			52.5	2.5	20.0			34.2		
AVERAGE Group IV Early	**65.8**	**65.2**	**64.2**	**53.7**	**1.8**	**19.9**	**19.4**	**19.4**	**34.7**	**36.0**	**36.2**
LSD (0.10)	5.8	4.1	3.4			0.3	0.2	0.2	0.4	0.3	0.3
C.V.	6.6	6.6	6.8			1.1	1.2	1.3	0.9	1.0	1.2
MATURITY GROUP IV LATE (relative MG 4.6-4.9)[D]											
BECK XL 493R4™*	**72.0**	69.6		54.5	2.0	20.1	19.6		34.4	36.0	
PIONEER P47T36R	71.6	69.2	68.5	55.1	1.5	20.4	20.0	19.8	33.7	35.3	35.0
PIONEER P46T01R	70.0			54.4	2.2	20.6			33.4		
WARREN SEED DS 4633 R2Y	69.4	**70.0**	**69.6**	54.2	2.3	20.2	19.4	19.5	33.4	35.2	34.8
REV® 49A55™	69.3	66.9		54.2	1.8	20.3	19.8		33.9	35.6	
PROGENY 4613 RYS	69.2	67.1	66.9	54.2	1.8	19.4	19.0	19.2	35.1	36.5	35.9
CAVERNDALE CF 479 LLn	69.1	67.9		54.4	1.6	20.2	19.5		33.6	35.0	
ASGROW AG4632	69.1	67.3	67.1	54.0	2.2	20.1	19.4	19.5	33.4	35.1	34.7
SYNGENTA S47-K5	69.0	67.0		54.0	1.4	20.9	20.3		33.1	34.6	
ARMOR 47-R70	69.0			54.2	2.7	19.9			33.6		
PFISTER 47R22	68.9			55.3	1.5	19.1			34.9		
SEED CONSULTANTS SCS 9474RR™	68.9	67.1	68.0	54.5	1.8	20.5	19.8	19.8	33.8	35.3	35.0
HS 46A50	68.8			54.8	1.7	20.2			35.6		
STEWART 4714R2	68.2			54.1	1.6	18.8			35.7		
ASGROW AG4835	68.0	67.3		54.7	1.8	19.3	18.9		34.2	35.7	
PROGENY 4757 RY	68.0			53.9	2.6	20.2			33.2		
PROGENY 4788 RY	68.0	66.2		52.9	1.6	20.0	19.1		33.7	35.8	
LG SEEDS C4780R2	67.8	68.2	67.1	54.7	1.6	19.3	18.8	18.8	35.0	36.2	36.1
SOUTHERN STATES SS 4725NS R2	67.8	68.2	67.7	54.7	1.5	18.9	18.7	18.8	35.1	36.2	35.9
REV® 47R34™	67.7	65.5	64.5	54.5	2.5	20.2	19.6	19.6	34.0	35.8	35.2
SYNGENTA 48-D9	67.6			53.6	2.1	20.3			34.3		
PIONEER P49T97R	67.3	66.9	66.1	54.5	1.2	20.3	19.6	19.7	34.9	36.3	35.8
STINE 49LD02	67.3			53.8	1.3	19.9			33.7		
GREAT LAKES HYBRIDS GL4729R2	67.0	67.9	67.8	54.4	1.5	18.7	18.5	18.9	35.6	36.5	35.7
PIONEER P48T53R	66.8	66.0	66.1	54.3	1.4	20.7	20.0	19.8	33.6	35.4	35.4
ARMOR 49X5L	66.4			52.4	1.6	19.8			33.9		
WARREN SEED DS 4850 R2Y/STS	65.9	66.8	66.7	54.9	1.5	18.9	18.6	18.9	35.2	36.1	35.5
REV® 49R94™	65.6	65.5	64.5	54.6	1.7	19.6	19.3	19.4	35.3	36.4	36.0
SOUTHERN STATES SS 4714NS R2	65.5	66.1		54.4	1.8	19.4	18.9		35.0	36.0	
DYNA-GRO S48RS53	65.4	66.3	65.8	54.7	1.7	19.1	18.8	18.8	35.1	36.2	35.9
BECK XL 465R4™*	65.4	66.4		53.5	1.7	20.4	19.7		34.7	36.2	
ARMOR AR4615	65.1			57.9	1.6	20.4			35.1		
BECK 474L4	64.9			54.4	1.5	20.2			33.3		
HBK RY4721	64.8	64.4	65.9	54.1	2.4	19.5	19.2	19.2	34.5	35.8	35.5
SOUTHERN STATES SS 4915NS R2	64.6			55.2	1.9	18.7			35.3		
ARMOR 47-L10	64.3			53.5	1.8	20.1			33.7		
UNISOUTH GENETICS USG ELLIS	64.3	63.2		54.2	2.4	19.1	18.7		35.3	35.7	
STINE 47RC32	64.3			54.2	1.8	20.6			33.8		
ARMOR 46-R65	64.2	64.8		53.8	2.1	19.7	18.9		35.0	36.8	
CHANNEL 4806 R2/STS	64.2			54.8	1.5	18.9			35.8		
LG SEEDS C4994R2	64.0			54.9	1.5	19.1			35.5		
REV® 47R53™	63.8	63.1	63.6	54.5	2.1	**20.9**	**20.6**	**20.3**	35.4	36.9	36.5
PROGENY 4850 RYS	63.6	64.6	64.9	54.9	1.5	19.0	18.6	18.7	35.2	36.4	36.0
BECK 481R2	63.6			54.3	1.7	19.7			34.5		
DYNA-GRO S49RY25	63.6	63.5		55.1	1.7	19.5	19.0		35.3	36.2	
DYNA-GRO S46RY85	63.5	63.9		54.0	2.3	19.2	18.8		34.5	35.4	
REV® 49A75™	63.2	62.7		54.2	2.4	20.7	19.8		34.6	36.5	
DYNA-GRO S49LL34	63.1			53.0	1.3	19.5			34.3		
ASGROW AG4934	62.7	64.4	65.0	54.1	1.7	19.4	19.1	19.2	35.0	35.9	35.6
HBK LL4953	62.6	61.8		53.7	1.3	19.6	19.2		34.3	34.9	
SOUTHERN STATES SS 4917N R2	62.3	62.5	62.8	54.6	2.0	19.4	18.6	18.9	**36.3**	**37.5**	**36.6**
CAVERNDALE CF 472 RR2Y/STSn	61.9	64.1		54.1	1.8	19.5	18.8		34.5	36.2	
ARMOR 49-R56	61.8	62.5	63.9	54.5	1.3	19.7	19.0	19.0	35.6	36.9	**36.6**
PROGENY 4930 LL	61.6	62.6	62.2	53.2	1.4	20.0	19.5	19.4	33.6	34.5	34.4

Table 5. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015[A]	LODGING 2015	% OIL[A/B] 2015	2014-15	2013-15	% PROTEIN[A/B] 2015	2014-15	2013-15
REV® 49A14™	60.7	61.7		53.5	3.1	19.8	19.8		35.3	35.7	
HBK LL4950	60.3	59.7	60.0	51.7	2.1	19.1	19.0	19.1	34.7	35.3	34.8
UNIVERSITY OF ARKANSAS UA5014C	60.2	59.8		55.4	2.6	19.2	18.8		35.4	36.2	
CZ 4818 LL	59.9			54.3	2.9	19.8			34.7		
HBK LL4850	59.8	59.6	61.7	54.6	2.0	20.3	20.1	20.0	35.5	36.0	35.7
WARREN SEED DS 4720	59.7			54.7	1.7	19.3			35.0		
ARMOR 48-C5	59.6			55.5	2.3	19.2			35.5		
HS 48A22	59.4	61.0		54.4	2.3	19.7	19.2		35.5	36.7	
ARMOR 49-R44	59.3			54.5	2.3	19.6			34.4		
STEYER 4703R2	58.9			54.5	1.9	19.3			34.8		
PROGENY 4900 RY	58.8	60.7	60.7	57.1	1.4	19.6	19.0	19.2	35.4	36.6	36.1
SYNGENTA S46-L2	58.5	60.1	60.4	54.0	2.0	19.5	18.8	19.1	35.5	36.8	35.8
STEYER 4602R2	58.4	60.8		53.6	2.1	19.1	18.7		34.6	35.5	
CZ 4959 RY	57.2	59.4		54.9	1.7	18.9	18.5		**36.5**	**37.5**	
PROGENY 4814 LLS	57.2			42.7	3.5	19.0			35.8		
DYNA-GRO S47RY13	56.8	59.8	62.5	54.2	1.4	20.0	19.6	19.5	34.1	35.8	35.3
HBK LL4653	56.0	57.8		54.4	1.8	20.1	19.5		34.8	36.4	
ARMOR 497L	55.3			54.3	2.5	19.8			35.5		
UNIVERSITY OF ARKANSAS R09-1589	53.6			55.0	3.2	19.4			34.3		
AVERAGE Group IV Late	**64.1**	**64.4**	**65.0**	**54.2**	**1.9**	**19.7**	**19.2**	**19.3**	**34.7**	**36.0**	**35.6**
LSD (0.10)	5.3	3.8	3.1			0.3	0.2	0.3	0.4	0.3	0.6
C.V.	6.2	6.3	6.3			1.2	1.2	1.9	0.9	0.9	2.1
MATURITY GROUP V (relative MG 5.0-5.9)[D]											
REV® 51A56™	**66.0**			54.9	2.3	20.1			34.3		
UNIVERSITY OF ARKANSAS R09-430	65.3			55.0	3.3	**20.4**			35.7		
PIONEER P50T64R	63.9	**62.3**		55.0	1.3	19.7	19.0		35.6	37.4	
BECK 522L4	62.5	62.0	**62.5**	54.3	1.8	**19.1**	18.7	19.0	35.0	35.6	35.1
ARMOR 50-R21	60.4			55.4	2.3	19.2			35.8		
DYNA-GRO S51RY45	59.1	58.9		55.0	2.0	19.7	**19.1**		35.1	36.0	
ARMOR AR5004	58.7			54.3	2.0	19.6			34.5		
REV® 52A94™	58.5	56.8		54.5	3.6	19.1	18.5		34.9	36.2	
DYNA-GRO SX15852RS	58.4			54.3	2.8	19.4			35.9		
UNIVERSITY OF ARKANSAS R10-197RY	57.8			54.3	2.6	18.9			35.4		
ASGROW AG5335	57.5			54.8	1.6	19.4			35.5		
ARMOR AR5205	57.2			54.2	2.4	19.5			35.8		
ARMOR 51X5L	57.0			54.0	2.6	18.8			36.2		
UNIVERSITY OF ARKANSAS R11-89RY	56.4			53.9	3.2	19.3			36.6		
REV® 54R84™	56.3	55.1	56.1	54.0	4.2	18.8	18.7	18.9	37.1	37.2	36.9
ARMOR 53-L55	55.9			54.5	2.7	19.3			36.2		
DYNA-GRO S52LL66	55.8			53.2	2.3	19.2			35.7		
UNIVERSITY OF ARKANSAS UA5612	54.2	54.2	56.9	52.2	4.4	19.1	18.5	18.5	34.6	36.4	36.5
UNIVERSITY OF ARKANSAS UA5213C	53.7	53.2	55.9	55.5	4.5	17.9	17.8	17.9	**38.2**	**38.6**	38.2
EXP USDA-ARS JTN-5110	53.7	53.5	54.1	54.6	3.4	19.6	19.0	**19.1**	35.9	37.0	36.8
UNIVERSITY OF ARKANSAS UA5814HP	53.4			45.8	4.0	18.8			38.1		
UNIVERSITY OF ARKANSAS OSAGE	53.0	53.7	55.1	53.5	2.7	18.3	17.8	18.0	37.5	38.6	**38.4**
UNIVERSITY OF ARKANSAS UA5414RR	50.6	51.0	51.9	54.3	4.0	18.7	18.3	18.2	35.0	36.1	36.3
REV® 55R53™	47.9	50.3	52.5	52.5	3.5	18.7	18.3	18.4	36.8	37.5	37.3
AVERAGE Group V	**57.2**	**55.5**	**55.6**	**53.9**	**2.9**	**19.2**	**18.5**	**18.5**	**35.9**	**37.0**	**36.9**
LSD (0.10)	4.8	3.4	2.8			0.3	0.2	0.2	0.4	0.3	0.3
C.V.	6.2	6.4	6.4			1.3	1.2	1.2	0.8	0.8	0.9

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

B Variety protein and oil contents were determined for samples collected at the Calloway Co., Fayette Co., and Hardin Co. locations in 2013; at the Caldwell Co., Fayette Co., and Simpson Co. locations in 2014; and at the Hancock Co., Fayette Co., and Pulaski Co. locations in 2015.

C 2013 yield data were collected in Caldwell Co., Calloway Co., Fayette Co., Hardin Co., and Simpson Co. locations. 2014 yield data were collected in Caldwell Co., Calloway Co., Daviess Co., Fayette Co., Hardin Co., and Simpson Co. locations. 2015 yield data were collected in Breckinridge Co., Butler Co., Caldwell Co., Calloway Co., Clinton Co., Fayette Co., Hancock Co., and Pulaski Co. locations.

D 2013 yield data were collected in Caldwell Co., Calloway Co., Daviess Co., Fayette Co., Hardin Co., and Simpson Co. locations. 2014 yield data were collected in Caldwell Co., Daviess Co., Fayette Co., Hardin Co., and Simpson Co. locations. 2015 yield data were collected in Breckinridge Co., Butler Co., Caldwell Co., Calloway Co., Clinton Co., Fayette Co., Hancock Co., and Pulaski Co. locations.

Table 6. 2015 Kentucky Soybean Variety Performance Tests, Breckinridge County

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)								
ASGROW AG2836	**96.4**			54.5	2.0	33.3	1.3	R6/7
CAVERNDALE CF 286 RR2Y/STSn	88.3	**72.5**	**62.3**	56.0	1.0	33.3	1.3	R6/7
LG SEEDS C2744R2	83.2			54.3	2.3	0.0	1.0	R6/7
PIONEER P28T33R	82.5	69.2		55.8	1.7	33.3	1.3	R6/7
PIONEER P28T08R	80.2			54.6	1.0	0.0	1.0	R6/7
ASGROW AG2935	77.4			55.2	2.3	0.0	1.0	R6/7
AVERAGE Group II	**84.7**	**70.9**	**62.3**	**55.1**	**1.0**			
LSD (0.10)	10.0	4.8						
C.V.	7.9	6.3						
MATURITY GROUP III (relative MG 3.0-3.9)								
SYNGENTA S39-T3	**95.2**	**80.8**		53.6	2.0	0.0	1.0	R6
PIONEER P35T58R	93.7	80.2	**75.3**	53.6	2.0	0.0	1.0	R6
SYNGENTA S35-C3	93.4			53.7	2.3	0.0	1.0	R6
GREAT LAKES HYBRIDS GL3729R2	93.2	78.4		53.9	4.7	0.0	1.0	R6
PFISTER 38R202	93.0			52.4	3.0	0.0	1.0	R6
SEED CONSULTANTS SCS 9385RR™	92.7	78.7		54.2	1.7	0.0	1.0	R6
GREAT LAKES HYBRIDS GL3852NR2	92.2			53.5	2.0	33.3	1.3	R6
SOUTHERN STATES SS 3914NS R2	92.2	73.7		53.0	1.0	0.0	1.0	R6
SYNGENTA S39-U2	90.7			53.2	1.7	66.7	1.7	R6
ARMOR AR3905	89.8			53.1	2.0	33.3	1.3	R6
SEED CONSULTANTS SCS 9363RR™	89.6	75.5	69.6	54.7	1.7	33.3	1.3	R6
SEED CONSULTANTS SCS 9393RR™	89.5	76.8	69.8	54.2	2.0	0.0	1.0	R6
DYNA-GRO S38LL54	89.2			52.4	1.7	33.3	1.3	R6
ASGROW AG3936	88.7			52.5	2.0	0.0	1.0	R6
ARMOR AR3915	87.8			52.8	1.3	33.3	1.3	R6
STEYER 3301R2	87.7			53.0	1.0	0.0	1.0	R6
ARMOR 37-R33	86.9			53.0	3.0	33.3	1.3	R6
UNISOUTH GENETICS USG 73P93R	85.9	73.0	70.1	53.4	2.0	0.0	1.0	R6
CZ 3560 RY	85.2			53.4	2.3	0.0	1.0	R6
PFISTER 39R29	84.9	71.7		53.4	1.7	0.0	1.0	R6
DYNA-GRO S39RY65	84.6	72.3		52.7	3.0	0.0	1.0	R6
PIONEER P32T16R	84.4			53.2	1.3	100.0	2.0	R6
WARREN SEED DS 3838 R2Y	84.4	74.6		53.1	2.3	0.0	1.0	R6
REV® 39A35™	83.4	72.8		54.3	2.3	0.0	1.0	R6
CZ 3945 LL	83.0			52.9	3.7	0.0	1.0	R6
CZ 3841 LL	82.4	74.0		53.1	2.0	0.0	1.0	R6
STINE 38RE02	82.1	70.0		53.3	3.3	0.0	1.0	R6
WARREN SEED DS 3780	82.0			53.4	4.0	0.0	1.0	R6
DYNA-GRO 32RY39	81.4	71.5		52.4	1.0	0.0	1.0	R6
PIONEER 93Y92	81.4	71.9	66.5	52.6	2.3	33.3	1.3	R6
L&M GLICK 386 R2	81.3			52.9	1.3	0.0	1.0	R6
SOUTHERN STATES SS 3813N R2	80.9	73.8	69.6	52.5	3.0	33.3	1.3	R6
GREAT LAKES HYBRIDS GL3659R2	80.0			52.8	3.0	33.3	1.3	R6
LG SEEDS C3915R2	77.2			52.3	1.3	0.0	1.0	R6
PFISTER 39R201	75.8			51.8	2.0	0.0	1.0	R6
AVERAGE Group III	**86.5**	**74.7**	**70.2**	**53.2**	**2.2**			
LSD (0.10)	6.3	4.0	3.9					
C.V.	5.3	5.3	6.4					
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)								
DYNA-GRO S43RY95	**112.5**	85.3		53.0	4.3	33.3	1.3	R5
UNISOUTH GENETICS USG 74F24RS	106.6	84.9		53.2	4.3	33.3	1.3	R5
PIONEER 94Y23	105.5	**85.5**	**72.8**	53.1	1.7	0.0	1.0	R5
STINE 40RF02	103.4			52.9	3.3	0.0	1.0	R5
STEWART 4516R2	103.2			52.8	2.7	0.0	1.0	R5
PIONEER P45T11 R	101.9	82.8		54.3	1.0	0.0	1.0	R5
CAVERNDALE CF 452 RR2Yn	101.2			52.6	3.0	33.3	1.3	R5
HS 45A50	100.7			53.6	4.0	0.0	1.0	R5
UNISOUTH GENETICS USG 74F53R	97.2	79.6		52.9	4.0	0.0	1.0	R5
REV® 44A14™	96.9			54.0	1.7	0.0	1.0	R5
CHANNEL 4009R2	96.5			51.9	1.7	0.0	1.0	R5
CAVERNDALE CF 415 LLn	95.3			52.6	2.0	0.0	1.0	R5
SEED CONSULTANTS SCS 9456SR™	94.8			51.8	3.7	0.0	1.0	R5

Table 6. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
SYNGENTA S45-R7	94.7			53.4	2.7	0.0	1.0	R5
DYNA-GRO S42RY46	94.4			53.3	3.0	66.7	1.7	R5
STEWART 4113R2	94.1	80.5	72.7	53.8	2.3	0.0	1.0	R5
SEED CONSULTANTS SCS 9412RR™	94.0			54.0	2.7	100.0	2.0	R5
CAVERNDALE CF 426 RR2Y/STSn	93.9	80.4		52.1	4.0	66.7	1.7	R5
CAVERNDALE CF 404n	93.6			52.5	3.0	0.0	1.0	R5
SYNGENTA S45-V8	93.6	76.7	69.2	52.9	3.3	0.0	1.0	R5
SOUTHERN STATES SS 4215NS R2	93.4			54.1	2.0	0.0	1.0	R5
CHANNEL 4209R2	92.5			53.5	2.7	33.3	1.3	R5
DYNA-GRO S42RS03	92.3	79.6		52.9	1.7	33.3	1.3	R5
CZ 4105 LL	92.2			53.1	2.7	0.0	1.0	R5
SOUTHERN STATES SS 4414N R2	91.8			53.0	2.7	33.3	1.3	R5
BECK XL 453R4™*	91.5			54.2	3.0	33.3	1.3	R5
LG SEEDS C4322R2	90.6	78.5		53.5	2.7	0.0	1.0	R5
ARMOR 43-R51	89.9			54.4	3.0	0.0	1.0	R5
BECK 424L4	89.4			53.8	1.3	0.0	1.0	R5
ARMOR 440L	89.1			52.3	3.3	0.0	1.0	R5
GREAT LAKES HYBRIDS GL4354NR2	89.1			52.5	2.0	100.0	2.0	R5
ASGROW AG4135	89.0	77.2		52.8	2.7	0.0	1.0	R5
STEYER 4402R2	88.7			53.0	2.0	33.3	1.3	R5
PFISTER 45R23	88.6			51.2	4.0	0.0	1.0	R5
UNISOUTH GENETICS USG 74G23L	88.5			53.1	4.0	33.3	1.3	R5
L&M GLICK 412 R2	88.2			53.4	3.7	33.3	1.3	R5
SYNGENTA S41-J6	87.5	71.6	64.0	52.6	3.0	0.0	1.0	R5
WARREN SEED DS 43-003	87.1			53.0	3.0	0.0	1.0	R5
LG SEEDS C4221R2	86.3			53.4	2.3	0.0	1.0	R5
CHANNEL 4508R2/SR	85.7	72.7		53.3	3.0	0.0	1.0	R5
STEWART 4016R2	84.9			52.0	2.3	0.0	1.0	R5
CZ 4590 RY	84.8			53.9	2.3	0.0	1.0	R5
SYNGENTA S40-N2	84.1	74.4		52.5	2.3	0.0	1.0	R5
STINE 41LF32	84.0			53.3	1.3	0.0	1.0	R5
STINE 43RE02	83.7	75.5		53.1	4.0	0.0	1.0	R5
PROGENY 4247 LL	83.5			51.9	2.0	0.0	1.0	R5
STEYER 4303R2	83.5	74.5		52.9	3.0	66.7	1.7	R5
ARMOR 43-R43	83.4	70.9	63.7	53.7	1.3	0.0	1.0	R5
SOUTHERN STATES LL 423N	82.5	72.7	66.9	52.6	4.0	0.0	1.0	R5
STEWART 4415R2	82.0			52.2	3.3	0.0	1.0	R5
STINE 42LF22	81.6			53.7	2.7	33.3	1.3	R5
STEWART 4216R2	81.3			53.3	1.7	66.7	1.7	R5
SOUTHERN STATES SS 4514N R2	81.2	72.0		52.4	4.0	33.3	1.3	R5
PFISTER 41RS01	81.0			53.3	3.0	0.0	1.0	R5
PFISTER 43R201	80.6			53.3	1.3	0.0	1.0	R5
ARMOR AR4205	79.9			53.8	3.0	0.0	1.0	R5
PROGENY 4211 RY	79.1	73.4	67.8	53.7	4.0	0.0	1.0	R5
CZ 4181 RY	78.6	67.7		52.5	2.3	0.0	1.0	R5
ARMOR AR4504	78.5	72.2		53.3	3.0	33.3	1.3	R5
ARMOR 41X5L	78.3			53.2	1.7	0.0	1.0	R5
DYNA-GRO S44LS76	76.2			54.0	2.3	0.0	1.0	R5
BECK 449L4	76.0			53.3	3.0	0.0	1.0	R5
PROGENY 4214 RY	76.0			53.8	3.0	33.3	1.3	R5
DYNA-GRO 39RY43	75.3	71.3	65.3	53.2	2.7	33.3	1.3	R5
STINE 45LF22	75.1			54.7	4.0	33.3	1.3	R5
ASGROW AG4232	74.6	67.2	66.8	52.6	4.3	66.7	1.7	R5
WARREN SEED DS 4340 R2Y	74.4	69.2	67.7	53.6	3.7	33.3	1.3	R5
CHANNEL 4407R2/STS	73.8	68.2		50.9	4.0	33.3	1.3	R5
ASGROW AG4034	72.6	67.8		52.5	1.3	0.0	1.0	R5
UNISOUTH GENETICS USG 74A33R	72.4	68.4	65.1	54.1	2.3	0.0	1.0	R5
CZ 4540 LL	72.2			53.9	3.0	0.0	1.0	R5
ASGROW AG4336	67.2			52.6	2.0	0.0	1.0	R5
AVERAGE Group IV Early	**87.3**	**75.0**	**67.5**	**53.1**	**2.8**			
LSD (0.10)	5.9	3.6	2.9					
C.V.	5.0	4.6	4.7					
MATURITY GROUP IV LATE (relative MG 4.6-4.9)								
STEWART 4714R2	**93.1**			55.7	2.0	0.0	1.0	R5

Table 6. *(continued)*

	YIELD (BU/AC)[A/B]			TEST WEIGHT	LODGING	FROGEYE LEAF SPOT[C]		
BRAND VARIETY	2015	2014-15	2013-15	2015	2015	INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
SOUTHERN STATES SS 4714NS R2	88.7	**75.7**		54.9	3.0	0.0	1.0	R5
ASGROW AG4632	87.8	74.1	**76.4**	54.7	3.3	0.0	1.0	R5
CHANNEL 4806 R2/STS	87.3			57.0	1.7	0.0	1.0	R5
REV® 49A55™	86.8	75.2		54.2	2.7	0.0	1.0	R5
SEED CONSULTANTS SCS 9474RR™	85.9	72.8	67.5	55.4	2.0	0.0	1.0	R5
ASGROW AG4934	85.7	73.4	69.5	55.5	3.0	33.3	1.3	R5
PIONEER P47T36R	85.6	75.4	72.0	57.2	1.7	33.3	1.3	R5
REV® 49A14™	83.5	71.3		54.0	4.3	33.3	1.3	R5
BECK XL 493R4™*	82.2	73.0		55.9	1.7	0.0	1.0	R5
UNISOUTH GENETICS USG ELLIS	81.6	66.1		56.0	3.3	0.0	1.0	R5
ARMOR AR4615	81.6			55.9	2.7	0.0	1.0	R5
GREAT LAKES HYBRIDS GL4729R2	81.4	70.0	69.1	56.5	2.0	0.0	1.0	R5
PIONEER P49T97R	81.3	72.0	68.0	55.1	1.0	0.0	1.0	R5
ARMOR 49-R44	81.1			55.8	3.0	100.0	2.0	R5
PROGENY 4850 RYS	80.7	69.6	69.8	57.0	2.0	0.0	1.0	R5
HS 48A22	80.1	71.1		55.5	2.7	33.3	1.3	R5
ARMOR 47-R70	79.9			56.0	3.7	0.0	1.0	R5
PFISTER 47R22	79.9			57.2	0.7	0.0	1.0	R5
LG SEEDS C4780R2	79.6	70.7	68.2	55.8	1.7	0.0	1.0	R5
SYNGENTA 48-D9	79.3			55.0	2.0	0.0	1.0	R5
DYNA-GRO S47RY13	78.1	69.7	67.4	54.4	2.0	0.0	1.0	R5
PROGENY 4613 RYS	78.0	68.0	66.1	55.2	2.3	0.0	1.0	R5
REV® 47R34™	77.5	69.3	60.6	55.3	3.7	0.0	1.0	R5
HBK LL4850	76.6	64.1	64.6	55.2	2.7	0.0	1.0	R5
HBK LL4953	76.4	64.0		54.6	1.0	0.0	1.0	R5
DYNA-GRO S46RY85	75.9	67.7		55.9	3.3	0.0	1.0	R5
DYNA-GRO S48RS53	75.9	67.7	64.5	56.7	2.3	0.0	1.0	R5
STINE 49LD02	75.4			56.9	1.3	0.0	1.0	R5
PROGENY 4757 RY	75.3			55.4	3.0	0.0	1.0	R5
LG SEEDS C4994R2	75.2			57.1	1.3	33.3	1.3	R5
SOUTHERN STATES SS 4915NS R2	75.2			57.3	2.7	0.0	1.0	R5
STINE 47RC32	74.8			54.8	2.0	0.0	1.0	R5
ARMOR 49X5L	74.7			55.1	3.0	0.0	1.0	R5
HBK RY4721	74.7	67.1	68.1	56.2	2.7	33.3	1.3	R5
DYNA-GRO S49LL34	74.5			56.0	1.7	0.0	1.0	R5
HS 46A50	74.5			55.8	2.0	0.0	1.0	R5
ARMOR 49-R56	74.1	66.4	64.2	55.8	1.7	66.7	1.7	R5
DYNA-GRO S49RY25	74.1	66.1		56.4	2.7	0.0	1.0	R5
CZ 4818 LL	74.0			55.8	3.7	0.0	1.0	R5
WARREN SEED DS 4850 R2Y/STS	74.0	65.5	65.7	57.3	1.3	0.0	1.0	R5
PROGENY 4930 LL	73.4	64.8	65.1	56.2	1.3	0.0	1.0	R5
WARREN SEED DS 4633 R2Y	73.3	67.7	67.1	54.0	3.3	0.0	1.0	R5
ASGROW AG4835	72.7	66.6		56.2	1.7	0.0	1.0	R5
REV® 49A75™	72.4	64.4		55.4	2.3	0.0	1.0	R5
WARREN SEED DS 4720	71.9			56.6	1.7	33.3	1.3	R5
PIONEER P48T36R	71.6	65.1	63.8	54.3	2.3	33.3	1.3	R5
PROGENY 4900 RY	71.6	64.6	57.7	55.1	2.0	33.3	1.3	R5
ARMOR 48-C5	71.3			56.9	1.7	33.3	1.3	R5
BECK XL 465R4™*	70.6	66.6		53.6	1.3	0.0	1.0	R5
ARMOR 46-R65	69.4	65.6		53.9	2.7	0.0	1.0	R5
PROGENY 4788 RY	69.4	64.0		56.0	1.7	0.0	1.0	R5
ARMOR 497L	69.4			56.8	3.3	0.0	1.0	R5
STEYER 4602R2	69.4	65.2		55.0	3.0	0.0	1.0	R5
BECK 481R2	69.0			56.1	2.3	0.0	1.0	R5
CAVERNDALE CF 472 RR2Y/STSn	68.8	64.5		55.8	2.7	0.0	1.0	R5
SYNGENTA S46-L2	68.5	64.2	62.7	55.6	2.3	33.3	1.3	R5
HBK LL4950	68.3	62.9	63.2	55.5	2.3	0.0	1.0	R5
CAVERNDALE CF 479 LLn	67.7	65.7		53.9	2.3	0.0	1.0	R5
SYNGENTA S47-K5	67.7	64.7		54.7	1.0	0.0	1.0	R5
SOUTHERN STATES SS 4917N R2	67.6	62.3	55.4	55.4	2.3	0.0	1.0	R5
SOUTHERN STATES SS 4725NS R2	65.9	63.6	61.7	55.6	1.0	0.0	1.0	R5
STEYER 4703R2	64.7			55.9	2.3	33.3	1.3	R5
PIONEER P46T01R	64.2			55.3	2.7	0.0	1.0	R5
REV® 47R53™	63.1	60.3	58.5	56.3	3.0	0.0	1.0	R5
REV® 49R94™	62.9	62.0	60.9	57.1	1.7	0.0	1.0	R5

Table 6. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
CZ 4959 RY	62.5	59.1		56.1	1.7	0.0	1.0	R5
BECK 474L4	62.4			55.9	2.0	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R09-158	55.5			56.4	4.0	0.0	1.0	R5
PROGENY 4814 LLS	54.2			53.4	4.0	0.0	1.0	R5
HBK LL4653	54.0	56.1		55.1	2.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5014C	53.9	51.4		56.6	2.0	0.0	1.0	R5
ARMOR 47-L10	51.5			55.5	2.7	0.0	1.0	R5
AVERAGE Group IV Late	**73.7**	**66.8**	**65.3**	**55.7**	**2.3**			
LSD (0.10)	6.6	4.0	3.4					
C.V.	6.6	6.1	6.6					
MATURITY GROUP V (relative MG 5.0-5.9)								
UNIVERSITY OF ARKANSAS R09-430	**91.5**			54.5	4.7	0.0	1.0	R4/5
DYNA-GRO SX15852RS	85.0			53.0	3.7	33.3	1.3	R4/5
ASGROW AG5335	80.3			55.4	1.3	66.7	1.7	R4/5
DYNA-GRO S52LL66	78.6			54.1	3.7	0.0	1.0	R4/5
REV® 54R84™	76.5	63.9	61.3	56.0	5.0	0.0	1.0	R4/5
REV® 52A94™	76.1	60.8		55.9	4.3	0.0	1.0	R4/5
REV® 51A56™	75.8			55.2	2.0	0.0	1.0	R4/5
ARMOR 50-R21	75.3			56.8	2.7	0.0	1.0	R4/5
DYNA-GRO S51RY45	73.1	**70.0**		56.2	2.3	33.3	1.3	R4/5
ARMOR AR5004	72.5			55.7	2.7	66.7	1.7	R4/5
UNIVERSITY OF ARKANSAS UA5213C	72.3	60.1	60.6	57.5	5.0	33.3	1.3	R4/5
ARMOR 51X5L	72.1			55.7	4.7	0.0	1.0	R4/5
ARMOR AR5205	71.4			55.2	3.7	33.3	1.3	R4/5
BECK 522L4	70.5	64.0	**62.2**	56.2	1.7	0.0	1.0	R4/5
ARMOR 53-L55	70.5			56.8	4.3	0.0	1.0	R4/5
UNIVERSITY OF ARKANSAS R11-89RY	70.2			55.7	4.7	0.0	1.0	R4/5
PIONEER P50T64R	69.4	65.8		54.9	1.0	0.0	1.0	R4/5
REV® 55R53™	66.6	58.8	55.9	54.0	3.3	66.7	1.7	R4/5
UNIVERSITY OF ARKANSAS R10-197RY	66.1			56.1	3.0	0.0	1.0	R4/5
UNIVERSITY OF ARKANSAS UA5612	64.4	56.2	58.3	55.5	5.0	0.0	1.0	R4/5
UNIVERSITY OF ARKANSAS OSAGE	62.7	59.8	56.9	55.6	3.3	33.3	1.3	R4/5
EXP USDA-ARS JTN-5110	60.7	53.7	52.7	55.2	4.0	33.3	1.3	R4/5
UNIVERSITY OF ARKANSAS UA5814HP	57.0			46.8	5.0	0.0	1.0	R4/5
UNIVERSITY OF ARKANSAS UA5414RR	57.0	49.5	50.5	55.0	4.7	0.0	1.0	R4/5
AVERAGE Group V	**71.5**	**60.2**	**57.3**	**55.1**	**3.6**			
LSD (0.10)	4.6	3.2	2.4					
C.V.	4.7	5.1	4.9					

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

[B] *The data used for the analysis were collected in Breckinridge Co. in 2015, and in Hardin Co. in 2013 and 2014.*

[C] *For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion). Three replicates per variety were rated.*

AGRONOMIC INFORMATION

Location	Breckinridge County
Soil type	Nolin Silt Loam
Previous crop	corn
Soil test	pH6.16 P442 K243
SCN test	0
Fertilizer/lime applied	NA
Agricultural practice	Shallow tillage (surface)
Pre-Planting treatments	NA
Planting date	5/22
Post-Planting treatments	6/28: First Rate, Reflex, Intensity One 7/31: Quadris Top SB
Harvest dates	MG II 09/21 MG III 10/07 MG IV Early 10/08 MG IV Late & V 10/22
50% chance of killing frost	10/22

Precipitation and temperature history

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	7.38	44.5	75.5	-1.7
April	7.66	58	81.3	32.8
May	2.96	66.7	85.3	38.1
June	4.71	73.8	89.8	50.4
July	7.19	76.6	91.7	62.1
August	3.61	71.9	89.8	51.0
September	1.33	69.8	90.7	46.5
October (10/01-22)	1.05	59.2	82.5	28.4

Table 7. 2015 Kentucky Soybean Variety Performance Tests, Butler County

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015
MATURITY GROUP II (relative MG 2.0-2.9)					
CAVERNDALE CF 286 RR2Y/STSn	**58.7**	**56.9**	52.0	50.3	3.7
PIONEER P28T33R	58.3	55.9		50.3	3.7
PIONEER P28T08R	54.3			49.6	4.7
ASGROW AG2836	53.8			50.4	5.0
ASGROW AG2935	49.8			49.9	4.7
LG SEEDS C2744R2	48.0			50.7	5.0
AVERAGE Group II	**53.8**	**56.4**	**NA**	**50.2**	**4.5**
LSD (0.10)	4.9	3.3			
C.V.	5.8	6.2			
MATURITY GROUP III (relative MG 3.0-3.9)					
REV® 39A35™	**84.4**	**71.8**		52.5	4.0
DYNA-GRO 32RY39	83.8	67.3		52.5	2.0
SOUTHERN STATES SS 3813N R2	80.1	71.4	**67.8**	51.9	4.3
PFISTER 39R29	80.0	69.8		52.7	3.0
ASGROW AG3936	75.2			52.1	3.7
ARMOR AR3915	73.4			52.0	2.3
ARMOR AR3905	73.2			51.7	2.7
SEED CO0ULTANTS SCS 9393RR™	72.9	67.7	65.4	52.2	1.0
PIONEER 93Y92	72.2	67.5	62.0	51.6	4.0
PFISTER 39R201	71.7			51.5	3.3
SOUTHERN STATES SS 3914NS R2	71.0	68.4		52.6	3.0
CZ 3560 RY	70.8			52.1	4.0
SYNGENTA S39-T3	70.3	65.1		52.6	3.7
WARREN SEED DS 3838 R2Y	69.9	67.5		51.8	2.3
L&M GLICK 386 R2	69.1			51.0	2.3
GREAT LAKES HYBRIDS GL3729R2	68.8	63.3		52.3	3.7
UNISOUTH GENETICS USG 73P93R	66.7	61.6	54.5	52.0	2.7
GREAT LAKES HYBRIDS GL3852NR2	66.6			52.0	3.3
CZ 3841 LL	65.6	63.7		51.4	4.3
DYNA-GRO S39RY65	65.5	65.3		51.5	2.3
SEED CO0ULTANTS SCS 9363RR™	64.7	59.3	58.2	52.6	2.0
SEED CO0ULTANTS SCS 9385RR™	64.4	67.7		51.4	3.3
CZ 3945 LL	64.3			51.1	4.3
PIONEER P35T58R	64.2	60.3	59.6	50.8	3.3
DYNA-GRO S38LL54	64.0			52.1	2.3
ARMOR 37-R33	61.1			51.4	4.3
LG SEEDS C3915R2	60.5			51.8	2.3
STINE 38RE02	60.4	55.2		51.2	4.0
GREAT LAKES HYBRIDS GL3659R2	59.5			51.0	3.7
STEYER 3301R2	58.9			52.0	3.0
PIONEER P32T16R	57.2			50.9	3.7
SYNGENTA S35-C3	56.8			51.6	5.0
WARREN SEED DS 3780	55.5			52.3	4.0
PFISTER 38R202	54.4			51.7	2.7
SYNGENTA S39-U2	53.4			51.0	5.0
AVERAGE Group III	**67.2**	**65.5**	**61.2**	**51.8**	**3.3**
LSD (0.10)	6.3	4.5	3.8		
C.V.	6.8	7.3	7.7		
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)					
LG SEEDS C4221R2	**87.9**			53.1	4.0
WARREN SEED DS 43-003	86.2			52.5	2.3
ASGROW AG4034	83.3	68.5		51.8	3.3
SYNGENTA S40-N2	82.3	69.5		52.6	2.7
UNISOUTH GENETICS USG 74F24RS	80.8	**73.9**		52.4	3.7
SYNGENTA S45-R7	80.6			52.6	3.0
STEWART 4516R2	79.2			53.2	3.7
STEYER 4402R2	79.1			51.9	3.3
CHANNEL 4508R2/SR	78.5	68.6		52.1	4.3
SEED CO0ULTANTS SCS 9456SR™	78.4			52.9	3.7
PIONEER P45T11 R	78.3	72.4		54.3	1.7
STEWART 4216R2	78.3			52.3	3.0
STEWART 4113R2	78.0	69.3	67.3	52.5	3.0
WARREN SEED DS 4340 R2Y	77.0	72.0	**67.8**	52.9	2.7
SYNGENTA S45-V8	76.9	67.7	63.7	52.4	3.7

Table 7.*(continued)*

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015
SOUTHERN STATES SS 4215NS R2	76.8			53.1	3.3
REV® 44A14™	75.7			53.2	3.3
LG SEEDS C4322R2	75.4	69.0		52.4	3.7
ARMOR 41X5L	74.6			52.0	3.3
STINE 40RF02	74.3			52.4	4.7
SYNGENTA S41-J6	74.3	70.0	65.7	52.4	3.7
CAVERNDALE CF 404n	74.1			52.8	4.7
CAVERNDALE CF 452 RR2Yn	74.0			52.7	3.0
ARMOR AR4205	73.9			53.2	3.7
ASGROW AG4232	73.7	68.1	63.2	52.9	4.0
UNISOUTH GENETICS USG 74F53R	73.6	68.3		51.8	3.3
CZ 4105 LL	73.3			52.8	3.0
HS 45A50	72.9			52.2	2.7
PFISTER 43R201	72.8			52.7	2.7
ASGROW AG4135	72.6	68.2		52.5	4.0
CZ 4181 RY	72.5	67.0		52.8	3.3
PIONEER 94Y23	72.5	65.5	**67.8**	53.7	1.7
STEYER 4303R2	72.5	69.8		52.3	3.7
CAVERNDALE CF 415 LLn	72.3			52.8	4.0
CAVERNDALE CF 426 RR2Y/STSn	72.2	69.0		51.7	4.3
BECK XL 453R4™*	71.8			52.2	3.7
PROGENY 4211 RY	71.5	70.8	67.2	52.2	3.0
PFISTER 45R23	71.1			52.0	4.0
CZ 4590 RY	70.8			52.8	3.3
PROGENY 4214 RY	70.3			52.8	2.7
DYNA-GRO S43RY95	69.8	68.3		52.5	4.3
UNISOUTH GENETICS USG 74G23L	69.8			53.1	3.7
BECK 424L4	69.7			52.0	3.0
STEWART 4415R2	69.5			52.8	3.7
ARMOR 43-R43	69.4	66.0	63.1	53.6	2.3
PFISTER 41RS01	67.8			52.5	4.7
BECK 449L4	67.3			52.1	4.3
SEED CO0ULTANTS SCS 9412RR™	66.9			53.2	2.7
DYNA-GRO 39RY43	66.8	63.4	64.2	52.0	3.0
L&M GLICK 412 R2	66.6			52.7	3.7
CZ 4540 LL	66.1			53.4	4.3
ARMOR 43-R51	66.1			51.2	3.3
STINE 41LF32	66.0			53.2	3.7
STINE 42LF22	65.9			52.4	4.3
UNISOUTH GENETICS USG 74A33R	65.6	63.8	61.0	52.9	3.7
DYNA-GRO S42RS03	64.6	62.7		51.5	3.3
DYNA-GRO S42RY46	63.5			52.0	3.7
STEWART 4016R2	63.5			51.4	4.3
GREAT LAKES HYBRIDS GL4354NR2	62.9			51.2	4.0
CHANNEL 4009R2	62.6			53.2	2.7
STINE 45LF22	62.6			51.4	3.3
SOUTHERN STATES LL 423N	62.6	65.5	62.2	51.8	4.7
SOUTHERN STATES SS 4414N R2	62.6			52.5	2.3
ASGROW AG4336	62.2			53.1	3.7
ARMOR AR4504	61.9	62.4		53.1	4.3
SOUTHERN STATES SS 4514N R2	61.9	64.0		52.6	4.7
STINE 43RE02	61.5	61.2		52.0	3.3
ARMOR 440L	59.7			52.6	4.0
CHANNEL 4407R2/STS	59.4	61.4		51.7	4.0
CHANNEL 4209R2	58.3			52.7	3.3
DYNA-GRO S44LS76	54.3			52.0	4.3
PROGENY 4247 LL	48.8			53.0	4.7
AVERAGE Group IV Early	**70.6**	**67.4**	**64.8**	**52.5**	**3.5**
LSD (0.10)	6.0	4.0	3.2		
C.V.	6.3	6.2	6.1		
MATURITY GROUP IV LATE (relative MG 4.6-4.9)					
STINE 49LD02	**80.5**			54.9	2.0
PROGENY 4788 RY	79.4	67.1		55.3	3.0
ASGROW AG4632	79.3	70.6	66.2	54.9	4.0
PIONEER P46T01R	78.7			54.1	4.0
PIONEER P47T36R	77.7	66.8	63.8	55.6	2.3
ARMOR 47-R70	77.3			54.7	4.0

Table 7.*(continued)*

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015
BECK XL 493R4™*	76.9	69.9		55.8	4.0
SYNGENTA 48-D9	76.6			54.1	4.0
REV® 47R34™	76.3	65.5	64.5	55.3	4.3
HBK LL4953	76.1	71.9		54.7	2.3
PROGENY 4930 LL	75.2	69.1	63.5	55.0	2.7
PFISTER 47R22	74.4			56.5	2.3
LG SEEDS C4780R2	74.3	71.0	67.7	55.4	2.3
SYNGENTA S47-K5	73.9	66.3		54.1	2.3
SOUTHERN STATES SS 4915NS R2	73.7			55.9	3.0
SEED CO0ULTANTS SCS 9474RR™	73.5	64.9	63.8	54.1	3.3
DYNA-GRO S49LL34	73.3			55.0	1.7
SOUTHERN STATES SS 4714NS R2	73.3	67.6		55.2	3.0
WARREN SEED DS 4633 R2Y	72.8	74.1	66.7	55.0	3.0
BECK XL 465R4™*	72.8	70.4		53.3	3.0
PROGENY 4850 RYS	72.8	66.2	66.8	55.7	1.7
ARMOR 47-L10	72.5			54.2	2.7
STEWART 4714R2	72.3			54.9	2.0
PROGENY 4757 RY	72.2			54.1	3.7
DYNA-GRO S48RS53	72.2	68.2	66.8	55.6	2.0
SOUTHERN STATES SS 4917N R2	72.2	65.0	63.9	54.6	3.3
STINE 47RC32	71.7			54.3	3.0
PROGENY 4613 RYS	71.6	63.2	66.5	55.0	2.3
GREAT LAKES HYBRIDS GL4729R2	71.6	70.4	64.1	55.3	1.7
SOUTHERN STATES SS 4725NS R2	71.5	**74.4**	**70.0**	54.3	2.0
ARMOR 49X5L	71.0			54.3	2.3
STEYER 4703R2	70.2			55.4	3.0
CAVERNDALE CF 479 LLn	69.3	65.8		55.3	3.0
ARMOR 46-R65	69.2	65.6		54.3	3.7
CHANNEL 4806 R2/STS	69.1			54.8	2.7
CZ 4818 LL	67.6			55.2	4.3
WARREN SEED DS 4850 R2Y/STS	67.6	66.9	64.5	55.6	3.0
HBK LL4950	67.4	65.6	60.3	55.1	3.3
ASGROW AG4835	66.7	63.9		54.3	2.0
PIONEER P48T36R	66.6	62.7	62.7	53.9	2.0
REV® 47R53™	66.6	62.5	64.5	55.8	3.7
LG SEEDS C4994R2	66.4			55.5	2.3
UNIVERSITY OF ARKANSAS UA5014C	66.3	63.2		54.6	4.3
BECK 481R2	66.0			54.4	2.3
REV® 49A55™	66.0	58.6		54.9	3.0
ASGROW AG4934	65.8	63.4	60.2	55.7	2.3
HS 46A50	65.8			54.5	3.0
REV® 49A75™	65.6	62.4		55.2	3.0
UNISOUTH GENETICS USG ELLIS	65.5	62.1		54.6	4.3
UNIVERSITY OF ARKANSAS R09-1589	65.1			57.1	4.7
PROGENY 4814 LLS	64.9			52.7	4.7
REV® 49R94™	64.7	63.7	55.0	54.5	3.3
ARMOR 49-R56	64.6	62.8	65.6	54.5	1.7
HBK RY4721	64.6	58.7	59.0	55.0	3.7
STEYER 4602R2	64.3	59.6		54.4	3.3
HBK LL4850	64.2	62.9	60.1	54.5	4.7
DYNA-GRO S46RY85	64.1	64.2		54.3	3.7
DYNA-GRO S49RY25	63.9	62.1		55.1	3.0
CAVERNDALE CF 472 RR2Y/STSn	62.3	60.9		53.6	2.3
SYNGENTA S46-L2	61.6	58.6	53.1	54.6	3.7
ARMOR 48-C5	61.5			55.6	3.7
PIONEER P49T97R	61.1	62.1	60.5	53.9	1.7
PROGENY 4900 RY	61.0	62.7	61.2	54.1	2.3
BECK 474L4	61.0			53.3	2.3
REV® 49A14™	60.5	61.3		54.2	4.3
WARREN SEED DS 4720	60.4			54.3	2.7
ARMOR AR4615	59.0			54.9	2.0
ARMOR 497L	58.8			55.4	4.3
HS 48A22	57.5	56.6		54.5	4.3
CZ 4959 RY	56.7	57.5		55.8	3.0
ARMOR 49-R44	56.6			55.2	3.3
DYNA-GRO S47RY13	55.6	56.5	59.2	54.8	1.3
HBK LL4653	54.6	56.4		54.2	3.7

Table 7.*(continued)*

BRAND VARIETY	YIELD (BU/AC)[A/B] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015
AVERAGE Group IV Late	**68.3**	**64.5**	**63.1**	**54.8**	**3.0**
LSD (0.10)	5.3	3.5	3.4		
C.V.	5.8	5.7	6.9		
MATURITY GROUP V (relative MG 5.0-5.9)					
UNIVERSITY OF ARKANSAS R09-430	**76.2**			55.8	5.0
UNIVERSITY OF ARKANSAS R10-197RY	73.3			55.6	3.7
PIONEER P50T64R	73.0	66.6		54.1	1.7
BECK 522L4	69.3	**71.1**	**65.4**	54.0	2.7
UNIVERSITY OF ARKANSAS UA5814HP	67.8			53.4	3.7
ARMOR 50-R21	67.7			55.3	4.0
ARMOR AR5004	64.0			54.7	3.0
DYNA-GRO S51RY45	62.0	64.1		54.9	3.0
EXP USDA-ARS JTN-5110	61.4	64.3	59.7	55.6	5.0
UNIVERSITY OF ARKANSAS UA5612	60.6	63.4	62.2	54.8	4.0
ARMOR 51X5L	60.3			55.3	4.7
DYNA-GRO S52LL66	59.3			55.1	4.0
UNIVERSITY OF ARKANSAS R11-89RY	59.1			56.3	4.3
REV® 52A94™	58.0	60.3		55.5	3.0
REV® 51A56™	57.7			55.3	3.7
ASGROW AG5335	56.3			55.1	2.0
UNIVERSITY OF ARKANSAS OSAGE	55.4	60.2	55.3	56.3	4.0
ARMOR AR5205	55.1			53.6	3.0
UNIVERSITY OF ARKANSAS UA5213C	55.1	56.3	54.5	56.5	5.0
UNIVERSITY OF ARKANSAS UA5414RR	54.8	58.8	55.1	55.7	4.7
ARMOR 53-L55	53.6			55.7	4.0
REV® 55R53™	53.2	56.6	52.3	56.4	4.3
DYNA-GRO SX15852RS	53.1			54.7	3.0
REV® 54R84™	50.3	55.1	54.6	55.4	4.3
AVERAGE Group V	**60.7**	**61.5**	**57.4**	**55.2**	**3.7**
LSD (0.10)	5.8	3.9	3.1		
C.V.	7.1	6.7	6.8		

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

B The data used for the analysis were collected in Butler Co. in 2015, and in Simpson Co. in 2013 and 2014.

AGRONOMIC INFORMATION

Location	Butler County
Soil type	50% Newark Silt Loam 50% Nolin Silt Loam
Previous crop	corn
Soil test	pH6.19 P71 K192
SCN test	375 (low)
Fertilizer/lime applied	Mr. Shane uses variable application rates (VRT) of lime and fertilizer (precision ag.) Lime applied in 2012 according to soil tests. 10/7/2014 Average for the whole field 125lbs of MAP and 152lbs K2O
Agricultural practice	No-till
Pre-Planting treatments	AuthorityXL, 2,4-D, Glyphosate
Planting date	06/05
Post-Planting treatments	6/23: FirstRate, Reflex, Intensity One
Harvest dates	10/12 MG II, III and IV Early 10/20 MG IV Late and V
50% chance of killing frost	10/20

Precipitation and temperature history (Bowling Green)

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	5.91	48	79	1
April	9.08	61	84	31
May	2.96	70	90	40
June	3.11	78	96	55
July	6.17	81	95	65
August	1.56	75	95	53
September	4.06	73	85	61
October (10/01-20)	1.69	61	73	50

Table 8. 2015 Kentucky Soybean Variety Performance Tests, Caldwell County

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)								
CAVERNDALE CF 286 RR2Y/STSn	**75.5**	64.6	65.5	52.1	1.0	100.0	2	R6/7
ASGROW AG2935	73.9			50.6	2.0	100.0	2	R6/7
PIONEER P28T33R	72.2	**66.1**		52.7	1.0	0.0	1	R6/7
LG SEEDS C2744R2	72.2			50.8	2.0	100.0	2	R6/7
PIONEER P28T08R	71.5			50.1	1.0	100.0	2	R6/7
ASGROW AG2836	68.3			51.9	1.7	100.0	2	R6/7
AVERAGE Group II	**72.3**	**65.4**	**65.5**	**51.4**	**1.5**			
LSD (0.10)	5.9	5.5						
C.V.	6.5	3.7						
MATURITY GROUP III (relative MG 3.0-3.9)								
SEED CONSULTANTS SCS 9393RR™	**93.2**	**83.9**	**80.7**	46.0	1.3	0	1	R6
UNISOUTH GENETICS USG 73P93R	92.3	80.3	79.8	43.4	1.0	100	2	R6
SEED CONSULTANTS SCS 9363RR™	88.9	81.8	79.1	52.7	1.0	100	2	R6
SOUTHERN STATES SS 3813N R2	88.5	79.6	78.0	48.7	2.7	100	2	R6
PIONEER P35T58R	86.0	81.6	79.0	53.2	2.3	100	2	R6
DYNA-GRO S39RY65	84.9	81.8		45.7	1.3	100	2	R6
PIONEER 93Y92	84.4	77.3	76.6	53.4	2.0	100	2	R6
DYNA-GRO S38LL54	84.2			51.2	1.3	100	2	R6
PFISTER 39R201	83.6			52.5	1.3	100	2	R6
PFISTER 39R29	82.8	78.0		50.0	1.0	0	1	R6
GREAT LAKES HYBRIDS GL3729R2	82.7	72.1		49.6	2.0	100	2	R6
SEED CONSULTANTS SCS 9385RR™	82.2	77.4		55.7	1.0	100	2	R6
SYNGENTA S39-T3	81.8	80.3		50.1	1.3	100	2	R6
SYNGENTA S35-C3	81.7			53.7	2.0	100	2	R6
GREAT LAKES HYBRIDS GL3852NR2	81.3			52.0	1.7	100	2	R6
ASGROW AG3936	81.1			51.6	1.3	100	2	R6
WARREN SEED DS 3838 R2Y	80.5	78.6		51.3	1.3	100	2	R6
PIONEER P32T16R	80.0			53.9	1.0	100	2	R6
STEYER 3301R2	80.0			53.4	1.7	0	1	R6
CZ 3841 LL	78.1	74.9		51.6	2.3	100	2	R6
REV® 39A35™	76.7	74.8		53.1	1.3	100	2	R6
CZ 3560 RY	74.9			51.7	2.7	100	2	R6
PFISTER 38R202	73.9			47.0	1.7	100	2	R6
DYNA-GRO 32RY39	73.6	72.4		52.2	1.0	100	2	R6
STINE 38RE02	73.4	71.0		52.4	2.0	0	1	R6
ARMOR AR3915	71.5			52.3	1.3	100	2	R6
LG SEEDS C3915R2	69.3			53.2	1.0	100	2	R6
SYNGENTA S39-U2	66.9			51.7	2.3	100	2	R6
L&M GLICK 386 R2	66.2			53.8	1.0	100	2	R6
ARMOR AR3905	63.6			54.5	1.0	0	1	R6
WARREN SEED DS 3780	63.2			53.8	2.3	100	2	R6
GREAT LAKES HYBRIDS GL3659R2	62.2			52.4	2.7	100	2	R6
ARMOR 37-R33	59.1			51.2	1.0	100	2	R6
CZ 3945 LL	57.0			54.5	1.3	100	2	R6
SOUTHERN STATES SS 3914NS R2	56.2	68.9		54.1	1.0	100	2	R6
AVERAGE Group III	**76.7**	**77.3**	**78.9**	**51.6**	**1.6**			
LSD (0.10)	9.4	5.5	4.7					
C.V.	9.0	7.7	8.0					
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)								
SYNGENTA S45-R7	**96.1**			53.2	1.0	100.0	2.0	R5/6
STEWART 4113R2	93.5	76.8	76.0	53.4	1.3	100.0	2.0	R5/6
PIONEER P45T11 R	92.8	78.6		53.1	1.0	0.0	1.0	R5/6
WARREN SEED DS 4340 R2Y	91.6	74.5	**78.3**	52.2	1.7	100.0	2.0	R5/6
CAVERNDALE CF 426 RR2Y/STSn	90.2	**80.5**		51.9	2.0	100.0	2.0	R5/6
L&M GLICK 412 R2	88.8			53.0	1.3	100.0	2.0	R5/6
ARMOR 440L	88.7			51.4	1.7	100.0	2.0	R5/6
CHANNEL 4508R2/SR	88.3	73.6		52.8	1.7	0.0	1.0	R5/6
ARMOR 43-R43	86.9	79.0	76.1	52.6	1.0	100.0	2.0	R5/6
CAVERNDALE CF 415 LLn	86.6			51.3	1.0	0.0	1.0	R5/6
DYNA-GRO S42RS03	86.6	75.2		52.5	1.0	100.0	2.0	R5/6
WARREN SEED DS 43-003	86.5			52.0	1.3	100.0	2.0	R5/6
STINE 41LF32	86.3			52.5	1.0	0.0	1.0	R5/6

Table 8. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
SEED CONSULTANTS SCS 9412RR™	86.2			53.3	2.0	100.0	2.0	R5/6
LG SEEDS C4322R2	86.1	74.9		52.8	1.7	100.0	2.0	R5/6
CAVERNDALE CF 404n	85.4			51.7	2.3	0.0	1.0	R5/6
PFISTER 41RS01	84.1			53.6	2.3	100.0	2.0	R5/6
CZ 4105 LL	84.0			53.2	1.0	0.0	1.0	R5/6
SOUTHERN STATES LL 423N	83.9	78.9	77.6	53.2	2.7	0.0	1.0	R5/6
DYNA-GRO 39RY43	83.9	73.5	75.7	53.0	2.0	0.0	1.0	R5/6
STEWART 4516R2	83.7			52.4	1.3	100.0	2.0	R5/6
PROGENY 4211 RY	83.3	73.0	76.8	50.6	1.3	100.0	2.0	R5/6
LG SEEDS C4221R2	83.2			53.1	2.0	100.0	2.0	R5/6
SOUTHERN STATES SS 4215NS R2	83.2			52.8	1.7	100.0	2.0	R5/6
ARMOR 41X5L	82.7			51.7	1.0	0.0	1.0	R5/6
HS 45A50	82.2			53.5	1.3	100.0	2.0	R5/6
CHANNEL 4009R2	81.8			52.6	1.7	100.0	2.0	R5/6
BECK 424L4	81.8			53.3	1.0	0.0	1.0	R5/6
CZ 4590 RY	81.7			52.8	1.0	0.0	1.0	R5/6
UNISOUTH GENETICS USG 74F24RS	81.7	78.3		52.8	1.7	100.0	2.0	R5/6
STINE 43RE02	81.4	74.7		53.0	1.0	100.0	2.0	R5/6
STEYER 4402R2	80.8			52.6	1.3	100.0	2.0	R5/6
DYNA-GRO S42RY46	80.7			52.6	1.7	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74F53R	80.6	72.0		49.8	2.7	0.0	1.0	R5/6
SYNGENTA S45-V8	80.5	72.0	75.6	53.8	1.7	100.0	2.0	R5/6
STEYER 4303R2	80.2	74.1		52.2	2.3	100.0	2.0	R5/6
ASGROW AG4336	79.8			52.6	1.7	100.0	2.0	R5/6
DYNA-GRO S43RY95	79.3	72.9		52.5	2.0	0.0	1.0	R5/6
CAVERNDALE CF 452 RR2Yn	78.8			52.8	1.0	100.0	2.0	R5/6
STEWART 4216R2	78.7			53.3	1.7	100.0	2.0	R5/6
PIONEER 94Y23	78.3	72.8	72.8	54.0	1.0	100.0	2.0	R5/6
ASGROW AG4034	78.1	70.7		53.0	1.3	100.0	2.0	R5/6
REV® 44A14™	77.9			53.7	1.3	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74A33R	77.6	75.5	64.4	52.9	2.0	100.0	2.0	R5/6
ARMOR AR4504	77.5	71.4		52.9	2.3	100.0	2.0	R5/6
CZ 4181 RY	77.2	68.7		52.5	2.3	0.0	1.0	R5/6
STINE 42LF22	77.2			52.8	1.3	0.0	1.0	R5/6
GREAT LAKES HYBRIDS GL4354NR2	77.1			50.7	1.3	100.0	2.0	R5/6
ASGROW AG4232	76.7	68.2	71.3	51.8	2.0	100.0	2.0	R5/6
STEWART 4415R2	76.7			54.2	1.3	0.0	1.0	R5/6
BECK XL 453R4™*	76.2			52.5	2.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4414N R2	75.8			53.3	1.0	100.0	2.0	R5/6
PROGENY 4214 RY	75.7			52.9	1.3	100.0	2.0	R5/6
SYNGENTA S40-N2	75.0	66.5		52.5	1.0	0.0	1.0	R5/6
PFISTER 43R201	74.9			53.0	1.0	100.0	2.0	R5/6
ASGROW AG4135	74.7	71.1		52.8	1.0	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74G23L	74.5			54.5	2.0	0.0	1.0	R5/6
STINE 40RF02	73.7			53.8	1.7	100.0	2.0	R5/6
ARMOR 43-R51	73.5			53.0	1.7	100.0	2.0	R5/6
SEED CONSULTANTS SCS 9456SR™	72.8			51.6	1.0	0.0	1.0	R5/6
DYNA-GRO S44LS76	72.7			53.8	1.7	0.0	1.0	R5/6
ARMOR AR4205	72.5			52.3	1.0	0.0	1.0	R5/6
CHANNEL 4407R2/STS	71.6	62.7		49.8	2.0	100.0	2.0	R5/6
PROGENY 4247 LL	70.1			52.3	1.0	0.0	1.0	R5/6
SYNGENTA S41-J6	69.3	62.8	66.0	51.8	1.7	100.0	2.0	R5/6
CHANNEL 4209R2	68.7			54.2	1.0	100.0	2.0	R5/6
BECK 449L4	67.8			52.7	2.0	100.0	2.0	R5/6
PFISTER 45R23	67.8			52.3	1.3	0.0	1.0	R5/6
STEWART 4016R2	67.1			51.3	1.0	100.0	2.0	R5/6
CZ 4540 LL	66.4			51.7	2.3	100.0	2.0	R5/6
SOUTHERN STATES SS 4514N R2	65.2	67.5		53.3	1.3	100.0	2.0	R5/6
STINE 45LF22	63.6			53.8	1.3	100.0	2.0	R5/6
AVERAGE Group IV Early	**79.5**	**72.9**	**73.7**	**52.7**	**1.5**			
LSD (0.10)	9.4	5.4	4.9					
C.V.	8.8	7.6	8.3					
MATURITY GROUP IV LATE (relative MG 4.6-4.9)								
PIONEER P49T97R	**91.2**	**82.2**	**79.6**	54.4	1.0	0.0	1.0	R5/6
DYNA-GRO S46RY85	87.5	79.2		53.0	1.7	100.0	2.0	R5/6

Table 8. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
PROGENY 4788 RY	87.0	78.3		47.2	2.0	100.0	2.0	R5/6
CAVERNDALE CF 479 LLn	86.0	80.5		54.5	1.0	0.0	1.0	R5/6
REV® 49A75™	84.4	76.6		49.5	2.3	100.0	2.0	R5/6
PROGENY 4613 RYS	83.8	77.0	75.2	53.0	1.7	100.0	2.0	R5/6
WARREN SEED DS 4850 R2Y/STS	83.7	78.5	76.6	54.0	1.7	100.0	2.0	R5/6
HS 46A50	83.3			54.4	1.0	0.0	1.0	R5/6
SEED CONSULTANTS SCS 9474RR™	82.2	76.2	77.7	53.5	1.3	0.0	1.0	R5/6
ARMOR 47-L10	81.8			54.2	1.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4725NS R2	81.6	75.8	76.4	54.4	1.0	0.0	1.0	R5/6
REV® 49R94™	81.2	77.3	76.5	52.9	1.3	0.0	1.0	R5/6
ARMOR 47-R70	80.9			53.8	2.3	0.0	1.0	R5/6
ASGROW AG4835	79.3	75.3		51.9	2.0	100.0	2.0	R5/6
PIONEER P46T01R	79.2			53.2	2.0	0.0	1.0	R5/6
DYNA-GRO S49LL34	79.1			48.5	1.3	100.0	2.0	R5/6
DYNA-GRO S49RY25	79.1	70.9		53.6	1.0	100.0	2.0	R5/6
PIONEER P47T36R	79.1	75.5	77.4	52.3	1.7	0.0	1.0	R5/6
LG SEEDS C4780R2	78.8	77.9	74.5	52.6	1.3	0.0	1.0	R5/6
ARMOR 49X5L	78.4			51.5	1.3	0.0	1.0	R5/6
STINE 49LD02	78.0			51.4	1.0	0.0	1.0	R5/6
WARREN SEED DS 4633 R2Y	77.8	75.0	73.8	53.6	2.0	0.0	1.0	R5/6
HBK RY4721	77.6	71.0	75.1	51.1	2.0	0.0	1.0	R5/6
UNIVERSITY OF ARKANSAS UA5014C	77.5	71.2		49.4	3.3	100.0	2.0	R5/6
GREAT LAKES HYBRIDS GL4729R2	77.1	76.6	77.1	51.9	1.3	0.0	1.0	R5/6
STEYER 4703R2	77.0			54.1	1.0	100.0	2.0	R5/6
PFISTER 47R22	76.7			54.0	1.3	100.0	2.0	R5/6
BECK XL 465R4™*	76.4	72.7		54.0	1.3	0.0	1.0	R5/6
SYNGENTA S46-L2	75.6	71.7	71.8	53.3	2.0	100.0	2.0	R5/6
HBK LL4950	75.2	67.8	66.7	45.5	1.7	0.0	1.0	R5/6
SYNGENTA 48-D9	75.0			51.7	1.7	0.0	1.0	R5/6
PIONEER P48T36R	74.9	74.1	68.6	55.2	1.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4714NS R2	73.9	71.5		51.3	1.3	100.0	2.0	R5/6
BECK 474L4	73.7			56.1	1.3	100.0	2.0	R5/6
HBK LL4653	73.5	69.2		54.4	1.7	100.0	2.0	R5/6
UNISOUTH GENETICS USG ELLIS	73.4	70.9		50.3	1.7	0.0	1.0	R5/6
REV® 47R53™	73.4	72.2	73.8	53.8	1.7	0.0	1.0	R5/6
CZ 4959 RY	73.3	72.6		53.5	1.3	100.0	2.0	R5/6
SYNGENTA S47-K5	73.2	67.7		53.5	1.0	0.0	1.0	R5/6
WARREN SEED DS 4720	73.0			54.2	1.7	100.0	2.0	R5/6
ASGROW AG4632	72.1	71.3	72.1	53.4	1.3	100.0	2.0	R5/6
STINE 47RC32	71.8			50.8	1.3	0.0	1.0	R5/6
BECK 481R2	71.7			50.2	1.7	100.0	2.0	R5/6
STEWART 4714R2	71.4			49.4	1.7	0.0	1.0	R5/6
REV® 49A55™	71.3	70.5		53.5	1.3	0.0	1.0	R5/6
BECK XL 493R4™*	71.3	69.9		53.4	1.3	0.0	1.0	R5/6
SOUTHERN STATES SS 4917N R2	71.0	69.7	72.3	53.6	1.7	0.0	1.0	R5/6
CAVERNDALE CF 472 RR2Y/STSn	70.8	73.7		53.4	1.0	100.0	2.0	R5/6
REV® 49A14™	70.6	74.2		52.2	2.3	100.0	2.0	R5/6
PROGENY 4900 RY	70.3	64.8	65.0	54.0	1.0	100.0	2.0	R5/6
ARMOR 48-C5	70.2			53.8	2.3	100.0	2.0	R5/6
ASGROW AG4934	70.1	70.5	73.6	51.6	1.3	100.0	2.0	R5/6
DYNA-GRO S48RS53	69.7	70.3	69.6	53.9	1.3	100.0	2.0	R5/6
HBK LL4953	69.0	66.4		52.5	1.0	0.0	1.0	R5/6
ARMOR AR4615	68.8			54.1	1.3	0.0	1.0	R5/6
DYNA-GRO S47RY13	68.7	68.0	72.9	54.0	1.0	100.0	2.0	R5/6
REV® 47R34™	68.6	66.5	68.2	53.0	2.0	0.0	1.0	R5/6
ARMOR 49-R56	67.5	66.2	69.3	54.7	1.0	100.0	2.0	R5/6
ARMOR 46-R65	67.2	68.5		53.7	1.3	100.0	2.0	R5/6
PROGENY 4930 LL	67.1	69.9	66.8	53.3	1.0	100.0	2.0	R5/6
LG SEEDS C4994R2	66.4			53.4	1.7	0.0	1.0	R5/6
HBK LL4850	66.2	66.0	71.8	55.7	1.0	100.0	2.0	R5/6
CHANNEL 4806 R2/STS	65.7			52.1	1.0	100.0	2.0	R5/6
CZ 4818 LL	64.8			53.3	2.0	0.0	1.0	R5/6
ARMOR 49-R44	64.1			54.2	2.3	100.0	2.0	R5/6
PROGENY 4757 RY	63.9			52.0	2.0	0.0	1.0	R5/6
STEYER 4602R2	63.8	66.4		54.1	1.3	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS R09-1589	62.3			53.7	2.0	0.0	1.0	R5/6

Table 8. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
HS 48A22	61.9	66.4		53.8	1.3	100.0	2.0	R5/6
PROGENY 4850 RYS	58.1	63.4	66.0	53.2	1.3	100.0	2.0	R5/6
SOUTHERN STATES SS 4915NS R2	55.9			53.6	1.3	0.0	1.0	R5/6
ARMOR 497L	55.4			49.2	2.0	100.0	2.0	R5/6
PROGENY 4814 LLS	44.7			38.6	2.3	0.0	1.0	R5/6
AVERAGE Group IV Late	**73.2**	**72.1**	**72.6**	**52.6**	**1.5**			
LSD (0.10)	5.4	4.0	3.4					
C.V.	5.4	5.9	6.1					
MATURITY GROUP V (relative MG 5.0-5.9)								
REV® 51A56™	**76.3**			56.5	2.0	0.0	1.0	R5
ASGROW AG5335	67.3			55.6	1.0	100.0	2.0	R5
UNIVERSITY OF ARKANSAS R09-430	65.6			55.8	1.7	100.0	2.0	R5
ARMOR 53-L55	65.1			58.2	1.0	0.0	1.0	R5
ARMOR AR5004	65.0			56.9	1.0	100.0	2.0	R5
PIONEER P50T64R	65.0	**64.7**		57.0	1.0	100.0	2.0	R5
DYNA-GRO SX15852RS	62.5			57.3	3.0	100.0	2.0	R5
DYNA-GRO S52LL66	61.3			57.9	1.7	0.0	1.0	R5
UNIVERSITY OF ARKANSAS OSAGE	61.0	62.2	60.4	57.2	2.7	100.0	2.0	R5
ARMOR 50-R21	59.4			57.0	1.7	100.0	2.0	R5
UNIVERSITY OF ARKANSAS R10-197RY	59.1			58.7	1.7	100.0	2.0	R5
REV® 54R84™	58.9	56.2	58.4	58.3	4.0	100.0	2.0	R5
BECK 522L4	57.2	62.5	**66.0**	56.5	1.0	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R11-89RY	57.1			56.7	3.3	0.0	1.0	R5
REV® 52A94™	57.0	57.9		55.7	2.7	100.0	2.0	R5
ARMOR AR5205	56.6			55.9	1.3	100.0	2.0	R5
DYNA-GRO S51RY45	55.9	55.4		57.7	1.6	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5414RR	55.3	54.9	54.4	57.5	3.7	100.0	2.0	R5
EXP USDA-ARS JTN-5110	53.5	52.4	54.9	58.1	1.7	100.0	2.0	R5
ARMOR 51X5L	52.1			55.7	1.7	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5213C	52.1	52.6	57.3	58.0	4.0	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5612	52.0	54.8	60.4	58.2	3.7	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5814HP	48.8			58.0	2.0	0.0	1.0	R5
REV® 55R53™	47.3	50.5	56.6	56.6	2.7	100.0	2.0	R5
AVERAGE Group V	**58.8**	**56.7**	**58.6**	**57.1**	**2.2**			
LSD (0.10)	4.6	3.7	3.3					
C.V.	5.6	6.5	7.0					

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

[B] *For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion).One replicate per variety was rated.*

AGRONOMIC INFORMATION

Location	Caldwell County
Soil type	Crider silt loam
Previous crop	Tobacco (winter crop: rye)
Soil test	pH5.71 P89 K312
SCN test	1500 (moderate)
Fertilizer/lime applied	none
Agricultural practice	No-till
Pre-Planting treatments	Glyphosate, Spartan, Verdict
Planting date	05/28
Post-Planting treatments	6/30: First Rate, Reflex
Harvest dates	MG II & III 09/24 MG IV Early & Late 10/06 MG V 10/21
50% chance of killing frost	10/21

Precipitation and temperature history

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	6.82	45.2	77.3	-9.6
April	7.66	59	82.1	32
May	3.53	67.2	86.7	37.1
June	2.86	75.6	92.5	51.6
July	8.83	78.5	92.9	63.4
August	2.89	72.8	90.9	50.9
September	0.83	70.4	91.6	43.3
October (10/01-21)	0.80	59.6	83.2	29.9

Table 9. 2015 Kentucky Soybean Variety Performance Tests, Calloway County

BRAND VARIETY	YIELD (BU/AC)[A] 2015	YIELD (BU/AC)[A] 2014-15	YIELD (BU/AC)[A] 2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)								
ASGROW AG2935	**57.8**			54.7	1.0	100.0	2	R7
PIONEER P28T33R	56.1	**47.0**		54.6	1.0	100.0	2	R7
ASGROW AG2836	54.1			55.0	1.3	100.0	2	R7
PIONEER P28T08R	52.3			54.5	1.0	0.0	1	R7
CAVERNDALE CF 286 RR2Y/STSn	51.3	41.4	**51.9**	55.7	1.0	100.0	2	R7
LG SEEDS C2744R2	49.3			55.7	1.3	100.0	2	R7
AVERAGE Group II	**53.5**	**44.2**	**51.9**	**55.0**	**1.1**			
LSD (0.10)	5.2	2.7						
C.V.	6.6	5.6						
MATURITY GROUP III (relative MG 3.0-3.9)								
SYNGENTA S39-T3	**65.2**	56.1		56.8	1.0	100.0	2	R6/7
SEED CONSULTANTS SCS 9393RR™	63.9	**56.9**	**61.2**	56.3	1.0	33.3	1	R6/7
ASGROW AG3936	62.2			56.3	1.3	100.0	2	R6/7
ARMOR AR3905	61.9			55.1	1.0	100.0	2	R6/7
SEED CONSULTANTS SCS 9363RR™	61.5	50.4	56.7	56.4	1.0	100.0	2	R6/7
CZ 3560 RY	61.1			56.1	1.3	100.0	2	R6/7
ARMOR AR3915	60.6			57.3	1.3	100.0	2	R6/7
GREAT LAKES HYBRIDS GL3729R2	60.0	53.0		55.8	1.7	100.0	2	R6/7
SOUTHERN STATES SS 3914NS R2	59.5	53.0		55.7	1.0	100.0	2	R6/7
SOUTHERN STATES SS 3813N R2	59.0	51.3	59.8	55.6	1.3	100.0	2	R6/7
REV® 39A35™	58.9	53.3		56.5	1.7	100.0	2	R6/7
PIONEER 93Y92	58.0	54.5	55.1	56.7	3.0	0.0	1	R6/7
CZ 3945 LL	57.8			55.3	1.0	0.0	1	R6/7
SEED CONSULTANTS SCS 9385RR™	57.8	53.4		56.7	2.0	100.0	2	R6/7
STEYER 3301R2	56.6			55.3	1.0	100.0	2	R6/7
UNISOUTH GENETICS USG 73P93R	56.3	48.0	54.1	55.6	1.0	66.7	2	R6/7
STINE 38RE02	56.3	51.7		54.8	1.3	100.0	2	R6/7
PFISTER 39R29	56.2	52.8		55.6	1.0	100.0	2	R6/7
L&M GLICK 386 R2	55.1			55.3	1.0	100.0	2	R6/7
SYNGENTA S35-C3	54.3			55.4	1.3	100.0	2	R6/7
SYNGENTA S39-U2	54.2			55.9	1.3	100.0	2	R6/7
DYNA-GRO 32RY39	53.7	47.7		54.9	1.0	100.0	2	R6/7
PIONEER P35T58R	53.6	45.9	54.5	57.6	1.7	100.0	2	R6/7
DYNA-GRO S38LL54	52.9			57.2	1.0	100.0	2	R6/7
GREAT LAKES HYBRIDS GL3852NR2	52.4			55.3	1.7	100.0	2	R6/7
CZ 3841 LL	52.0	47.7		55.1	1.3	100.0	2	R6/7
PFISTER 39R201	52.0			55.5	1.7	100.0	2	R6/7
DYNA-GRO S39RY65	51.9	46.0		55.3	1.0	100.0	2	R6/7
PFISTER 38R202	51.7			54.1	1.0	66.7	2	R6/7
LG SEEDS C3915R2	51.6			55.5	1.0	100.0	2	R6/7
ARMOR 37-R33	51.3			56.3	1.0	100.0	2	R6/7
WARREN SEED DS 3838 R2Y	51.1	46.1		57.2	1.0	100.0	2	R6/7
GREAT LAKES HYBRIDS GL3659R2	49.5			56.2	1.3	100.0	2	R6/7
PIONEER P32T16R	47.3			56.1	1.0	100.0	2	R6/7
WARREN SEED DS 3780	45.8			56.2	1.0	100.0	2	R6/7
AVERAGE Group III	**55.8**	**51.0**	**56.9**	**55.9**	**1.3**			
LSD (0.10)	5.4	3.5	3.4					
C.V.	7.2	7.0	8.2					
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)[C]								
CHANNEL 4508R2/SR	**68.8**			53.4	1.7	66.7	1.7	R6
SYNGENTA S40-N2	65.6			56.5	1.0	33.3	1.3	R6
SOUTHERN STATES LL 423N	63.0			58.6	1.7	0.0	1.0	R6
CAVERNDALE CF 415 LLn	62.8			58.9	1.0	0.0	1.0	R6
UNISOUTH GENETICS USG 74F53R	62.5			49.1	1.7	100.0	2.0	R6
STEWART 4113R2	62.2			56.7	1.0	100.0	2.0	R6
DYNA-GRO S43RY95	62.2			53.7	2.7	100.0	2.0	R6
BECK 449L4	61.5			56.6	1.0	100.0	2.0	R6
DYNA-GRO S44LS76	61.3			55.5	1.7	0.0	1.0	R6
CZ 4105 LL	60.7			57.2	1.0	33.3	1.3	R6
PIONEER 94Y23	60.4			58.5	1.0	100.0	2.0	R6
PROGENY 4211 RY	60.3			57.5	1.3	100.0	2.0	R6
CAVERNDALE CF 426 RR2Y/STSn	60.1			56.4	2.0	100.0	2.0	R6

Table 9. 2015 *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
CAVERNDALE CF 452 RR2Yn	59.3			57.2	2.0	100.0	2.0	R6
UNISOUTH GENETICS USG 74G23L	59.1			59.2	1.0	33.3	1.3	R6
ASGROW AG4232	59.0			58.2	2.0	100.0	2.0	R6
STEYER 4303R2	59.0			57.3	1.7	100.0	2.0	R6
STINE 41LF32	58.7			58.3	1.0	33.3	1.3	R6
ASGROW AG4135	58.6			57.6	1.3	100.0	2.0	R6
STEWART 4516R2	58.6			56.9	2.0	66.7	1.7	R6
LG SEEDS C4221R2	58.4			58.4	1.0	0.0	1.0	R6
BECK XL 453R4™*	58.4			52.1	1.0	100.0	2.0	R6
LG SEEDS C4322R2	58.1			57.6	1.7	100.0	2.0	R6
UNISOUTH GENETICS USG 74F24RS	58.1			57.5	1.3	100.0	2.0	R6
ARMOR 43-R51	58.0			57.9	1.3	100.0	2.0	R6
PFISTER 43R201	57.9			57.3	1.0	66.7	1.7	R6
STEYER 4402R2	57.2			55.0	1.7	100.0	2.0	R6
PIONEER P45T11 R	57.2			52.2	1.0	0.0	1.0	R6
SEED CONSULTANTS SCS 9412RR™	56.8			59.0	1.0	100.0	2.0	R6
SYNGENTA S45-R7	56.1			58.1	1.0	100.0	2.0	R6
STINE 42LF22	55.6			58.4	1.0	0.0	1.0	R6
SYNGENTA S45-V8	55.6			58.8	1.0	100.0	2.0	R6
ASGROW AG4034	55.6			57.5	1.0	100.0	2.0	R6
PFISTER 45R23	55.6			48.1	1.3	33.3	1.3	R6
PFISTER 41RS01	55.3			58.1	1.7	100.0	2.0	R6
DYNA-GRO 39RY43	55.0			59.7	1.0	100.0	2.0	R6
STINE 43RE02	55.0			58.4	1.0	100.0	2.0	R6
BECK 424L4	54.7			58.8	1.7	0.0	1.0	R6
ARMOR AR4504	54.6			55.3	1.3	100.0	2.0	R6
WARREN SEED DS 4340 R2Y	54.6			58.3	1.3	0.0	1.0	R6
ARMOR 41X5L	54.5			58.3	1.0	66.7	1.7	R6
CHANNEL 4209R2	54.4			58.6	1.0	66.7	1.7	R6
HS 45A50	54.2			55.1	1.7	66.7	1.7	R6
ASGROW AG4336	54.0			59.0	1.0	100.0	2.0	R6
STEWART 4016R2	53.9			56.8	1.3	66.7	1.7	R6
CAVERNDALE CF 404n	53.6			57.0	1.3	66.7	1.7	R6
SOUTHERN STATES SS 4215NS R2	53.6			58.5	1.0	66.7	1.7	R6
ARMOR 440L	53.4			57.9	1.7	100.0	2.0	R6
REV® 44A14™	53.3			58.5	1.0	100.0	2.0	R6
WARREN SEED DS 43-003	53.3			58.2	1.0	100.0	2.0	R6
STINE 40RF02	53.3			57.6	1.7	100.0	2.0	R6
ARMOR AR4205	53.1			55.7	1.0	66.7	1.7	R6
GREAT LAKES HYBRIDS GL4354NR2	53.0			57.9	1.0	100.0	2.0	R6
UNISOUTH GENETICS USG 74A33R	52.7			56.3	1.7	100.0	2.0	R6
STEWART 4415R2	52.3			57.7	1.0	66.7	1.7	R6
CZ 4590 RY	52.2			57.0	1.0	100.0	2.0	R6
STINE 45LF22	52.1			58.3	1.0	66.7	1.7	R6
SEED CONSULTANTS SCS 9456SR™	52.0			55.5	1.0	0.0	1.0	R6
PROGENY 4247 LL	51.6			58.1	1.0	100.0	2.0	R6
CZ 4181 RY	50.9			57.3	1.7	0.0	1.0	R6
CZ 4540 LL	49.8			48.1	2.0	100.0	2.0	R6
SYNGENTA S41-J6	49.8			59.0	1.3	100.0	2.3	R6
DYNA-GRO S42RY46	49.4			58.9	1.0	100.0	2.0	R6
CHANNEL 4407R2/STS	48.8			53.3	1.0	100.0	2.0	R6
SOUTHERN STATES SS 4514N R2	48.8			55.6	1.3	100.0	2.0	R6
L&M GLICK 412 R2	47.7			58.6	1.0	100.0	2.0	R6
CHANNEL 4009R2	47.6			58.1	1.0	100.0	2.0	R6
DYNA-GRO S42RS03	47.0			56.4	1.0	100.0	2.0	R6
SOUTHERN STATES SS 4414N R2	46.7			56.8	1.0	100.0	2.0	R6
STEWART 4216R2	45.9			58.1	1.0	66.7	2.0	R6
PROGENY 4214 RY	44.5			58.6	1.0	100.0	2.0	R6
ARMOR 43-R43	40.6			56.6	1.0	100.0	2.0	R6
AVERAGE Group IV Early	**55.2**			**56.9**	**1.3**			
LSD (0.10)	5.2							
C.V.	7.1							
MATURITY GROUP IV LATE (relative MG 4.6-4.9)[C]								
HS 46A50	**78.2**			52.0	2.0	0.0	1.0	R5/6

Table 9. 2015 *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
BECK XL 493R4™*	76.9			51.8	2.3	0.0	1.0	R5/6
SYNGENTA S47-K5	74.5			52.0	1.3	0.0	1.0	R5/6
PIONEER P46T01R	73.9			52.5	2.0	0.0	1.0	R5/6
PROGENY 4814 LLS	72.7			32.7	2.7	33.3	1.3	R5/6
ARMOR 49X5L	68.3			47.9	1.0	0.0	1.0	R5/6
ASGROW AG4835	67.6			51.8	2.3	100.0	2.0	R5/6
UNISOUTH GENETICS USG ELLIS	66.9			51.4	2.3	0.0	1.0	R5/6
BECK 474L4	66.8			51.5	1.7	66.7	1.7	R5/6
PIONEER P48T36R	66.4			53.4	2.0	33.3	1.3	R5/6
PROGENY 4757 RY	66.2			50.6	2.7	66.7	1.7	R5/6
PROGENY 4930 LL	65.4			47.5	1.3	33.3	1.3	R5/6
ARMOR AR4615	64.6			79.3	1.0	0.0	1.0	R5/6
ARMOR 47-L10	64.6			51.8	2.0	33.3	1.3	R5/6
REV® 47R53™	64.6			52.0	2.3	33.3	1.3	R5/6
REV® 49A55™	62.8			52.0	2.0	33.3	1.3	R5/6
SOUTHERN STATES SS 4915NS R2	62.6			51.7	2.0	83.3	2.0	R5/6
ASGROW AG4632	62.3			50.9	2.0	0.0	1.0	R5/6
UNIVERSITY OF ARKANSAS UA5014C	62.0			52.2	2.7	70.0	2.0	R5/6
STINE 49LD02	61.9			50.7	1.0	66.7	1.7	R5/6
SOUTHERN STATES SS 4725NS R2	61.8			51.5	1.3	66.7	1.7	R5/6
CAVERNDALE CF 479 LLn	61.5			51.5	2.0	0.0	1.0	R5/6
SEED CONSULTANTS SCS 9474RR™	61.5			52.1	1.3	33.3	1.3	R5/6
ARMOR 47-R70	61.0			50.8	2.0	33.3	1.3	R5/6
HBK LL4953	60.4			51.2	1.0	0.0	1.0	R5/6
PROGENY 4613 RYS	60.3			51.3	1.3	100.0	2.0	R5/6
SYNGENTA 48-D9	59.9			51.7	1.3	0.0	1.0	R5/6
PIONEER P49T97R	59.7			52.3	1.0	0.0	1.0	R5/6
STEWART 4714R2	59.6			51.7	1.3	100.0	2.0	R5/6
REV® 49R94™	59.4			52.5	1.3	0.0	1.0	R5/6
WARREN SEED DS 4633 R2Y	59.3			51.2	2.3	33.3	1.3	R5/6
BECK XL 465R4™*	59.3			51.2	2.3	0.0	1.0	R5/6
CAVERNDALE CF 472 RR2Y/STSn	59.3			52.9	1.7	100.0	2.0	R5/6
LG SEEDS C4780R2	59.2			52.0	1.0	100.0	2.0	R5/6
REV® 49A14™	58.9			51.2	2.7	100.0	2.0	R5/6
ARMOR 46-R65	58.7			50.7	2.0	100.0	2.0	R5/6
CZ 4818 LL	58.5			51.6	3.3	33.3	1.3	R5/6
PROGENY 4850 RYS	58.2			50.6	1.3	66.7	1.7	R5/6
DYNA-GRO S48RS53	58.2			50.4	1.3	100.0	2.0	R5/6
REV® 49A75™	57.8			50.7	2.3	100.0	2.0	R5/6
WARREN SEED DS 4850 R2Y/STS	57.5			51.5	1.0	100.0	2.0	R5/6
REV® 47R34™	57.1			51.4	2.3	0.0	1.0	R5/6
LG SEEDS C4994R2	57.0			50.9	1.0	100.0	2.0	R5/6
HBK RY4721	56.3			51.6	2.3	33.3	1.3	R5/6
ARMOR 497L	56.2			53.2	1.3	66.7	1.7	R5/6
PIONEER P47T36R	56.2			52.3	1.7	33.3	1.3	R5/6
STINE 47RC32	56.2			53.5	1.3	66.7	1.7	R5/6
HBK LL4950	55.3			46.0	2.0	0.0	1.0	R5/6
DYNA-GRO S49LL34	55.2			48.9	1.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4917N R2	55.1			51.5	1.7	66.7	1.7	R5/6
SOUTHERN STATES SS 4714NS R2	55.0			51.9	1.3	100.0	2.0	R5/6
PFISTER 47R22	54.8			51.7	1.3	100.0	2.0	R5/6
DYNA-GRO S49RY25	54.2			52.5	1.3	100.0	2.0	R5/6
ASGROW AG4934	53.5			49.8	1.7	100.0	2.0	R5/6
GREAT LAKES HYBRIDS GL4729R2	52.7			51.2	1.3	100.0	2.0	R5/6
HS 48A22	51.3			50.2	3.0	100.0	2.0	R5/6
BECK 481R2	51.0			51.2	1.3	100.0	2.0	R5/6
ARMOR 49-R44	50.8			51.9	1.7	66.7	1.7	R5/6
PROGENY 4788 RY	50.5			51.4	1.0	33.3	1.3	R5/6
HBK LL4653	50.4			52.0	1.0	100.0	2.0	R5/6
CZ 4959 RY	50.0			52.0	1.0	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS R09-1589	49.6			48.9	3.7	0.0	1.0	R5/6
ARMOR 48-C5	48.4			53.4	2.0	100.0	2.0	R5/6
WARREN SEED DS 4720	48.4			51.2	1.3	100.0	2.0	R5/6
STEYER 4602R2	48.3			51.3	2.3	100.0	2.0	R5/6
HBK LL4850	47.7			52.6	1.0	100.0	2.0	R5/6

Table 9. 2015 *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
ARMOR 49-R56	47.1			51.2	1.0	100.0	2.0	R5/6
STEYER 4703R2	45.8			50.6	1.7	100.0	2.0	R5/6
DYNA-GRO S47RY13	45.5			52.0	1.0	100.0	2.0	R5/6
DYNA-GRO S46RY85	44.7			51.5	1.7	100.0	2.0	R5/6
CHANNEL 4806 R2/STS	44.6			52.6	1.7	100.0	2.0	R5/6
PROGENY 4900 RY	44.2			50.6	1.0	100.0	2.0	R5/6
SYNGENTA S46-L2	43.7			51.7	1.3	100.0	2.0	R5/6
AVERAGE Group IV Late	**58.0**			**51.5**	**1.7**			
LSD (0.10)	5.7							
C.V.	7.4							
MATURITY GROUP V (relative MG 5.0-5.9)[C]								
ARMOR 51X5L	**62.6**			55.7	1.3	33.3	1.3	R4
BECK 522L4	60.7			55.3	2.3	0.0	1.0	R4
PIONEER P50T64R	57.4			55.3	1.3	66.7	1.7	R4
REV® 51A56™	56.8			53.7	3.3	0.0	1.0	R4
ARMOR 50-R21	55.6			56.2	2.0	100.0	2.0	R4
ARMOR AR5205	55.3			54.7	2.3	100.0	2.0	R4
UNIVERSITY OF ARKANSAS R11-89RY	51.8			54.6	2.3	6.7	1.3	R4
UNIVERSITY OF ARKANSAS UA5612	51.0			54.0	5.0	0.0	1.0	R4
DYNA-GRO S52LL66	50.8			53.5	1.3	0.0	1.0	R4
UNIVERSITY OF ARKANSAS OSAGE	49.7			55.9	2.7	100.0	2.0	R4
UNIVERSITY OF ARKANSAS UA5213C	48.4			55.3	4.7	100.0	2.0	R4
UNIVERSITY OF ARKANSAS R09-430	47.8			53.5	3.7	66.7	1.7	R4
ASGROW AG5335	47.5			55.1	1.3	100.0	2.0	R4
DYNA-GRO S51RY45	46.7			54.6	2.0	100.0	2.0	R4
ARMOR AR5004	46.2			52.4	1.3	100.0	2.0	R4
ARMOR 53-L55	45.7			55.7	3.3	6.7	1.3	R4
REV® 54R84™	45.7			54.4	4.0	100.0	2.0	R4
EXP USDA-ARS JTN-5110	44.2			56.1	3.0	36.7	1.7	R4
DYNA-GRO SX15852RS	44.1			55.0	2.0	100.0	2.0	R4
UNIVERSITY OF ARKANSAS R10-197RY	43.8			56.0	3.0	70.0	2.0	R4
REV® 55R53™	42.2			53.9	4.3	100.0	2.0	R4
UNIVERSITY OF ARKANSAS UA5414RR	40.3			55.5	4.3	100.0	2.0	R4
REV® 52A94™	38.1			54.3	4.3	0.0	1.0	R4
UNIVERSITY OF ARKANSAS UA5814HP	31.3			54.0	4.7	0.0	1.0	R4
AVERAGE Group V	**48.5**			**54.8**	**2.9**			
LSD (0.10)	5.7			7.8	1.3			
C.V.	8.7			10.7	34.0			

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

[B] *For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion).Three replicates per variety were rated.*

[C] *The 2014 data for the maturity groups IV Early, IV Late, and V are not included in the analysis to avaoid penalyzing any variety (the plots were damaged by a storm soon after planting in 2014).*

AGRONOMIC INFORMATION

Location	Calloway County
Soil type	50% Calloway-Kurk complex 50% Grenada silt loam
Previous crop	Tobacco (winter crop rye)
Soil test	pH 6.24 P60 K184
SCN test	0
Fertilizer/lime applied	none
Agricultural practice	till
Pre-Planting treatments	05/23: Spartan Charge, Zidua, Glyphosate
Planting dates	IV Early and Late: 06/03, II, III, and V: 06/04
Post-Planting treatments	6/13: Intensity One, FirstRate, Reflex
Harvest dates	MG II, III & IV Early 09/23 MG IV Late 10/05 MG V 10/21
50% chance of killing frost	10/30

Precipitation and temperature history

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	6.66	46.5	76.2	-6.4
April	6.85	60.1	82.6	34.6
May	4.56	67.1	85.3	40
June	4.67	76.3	90.9	55.3
July	10.67	79.1	93.6	64.6
August	2.67	73.8	91.7	52.6
September	1.66	71.1	92.8	45.8
October (10/01-21)	0.84	71.7	92.8	45.8

Table 10. 2015 Kentucky Soybean Variety Performance Tests, Clinton County

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)						
PIONEER P28T33R	**86.4**	49.0	3.0	100.0	2.0	R7
CAVERNDALE CF 286 RR2Y/STSn	71.1	49.3	4.0	100.0	2.0	R7
ASGROW AG2935	69.5	48.6	5.0	100.0	2.0	R7
LG SEEDS C2744R2	67.0	48.3	5.0	0.0	1.0	R7
PIONEER P28T08R	62.6	47.7	5.0	100.0	2.0	R7
ASGROW AG2836	56.9	48.2	3.7	100.0	2.0	R7
AVERAGE Group II	**68.9**	**48.5**	**4.3**			
LSD (0.10)	5.8					
C.V.	5.7					
MATURITY GROUP III (relative MG 3.0-3.9)						
PFISTER 39R29	**91.8**	48.5	2.7	100.0	2.0	R6/7
SYNGENTA S39-T3	91.0	49.5	1.3	100.0	2.0	R6/7
ARMOR AR3915	84.4	49.9	1.7	100.0	2.0	R6/7
SEED CONSULTANTS SCS 9385RR™	83.8	49.7	2.0	100.0	2.0	R6/7
SYNGENTA S35-C3	83.6	49.3	3.3	0.0	1.0	R6/7
DYNA-GRO 32RY39	83.5	49.1	2.7	0.0	1.0	R6/7
ARMOR AR3905	82.6	50.4	1.7	100.0	2.0	R6/7
SOUTHERN STATES SS 3914NS R2	81.7	49.0	1.7	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3729R2	80.5	49.0	3.3	100.0	2.0	R6/7
STEYER 3301R2	80.2	50.7	2.7	0.0	1.0	R6/7
PFISTER 39R201	79.7	49.0	1.7	100.0	2.0	R6/7
PFISTER 38R202	79.6	50.0	2.0	100.0	2.0	R6/7
L&M GLICK 386 R2	79.3	49.6	1.3	100.0	2.0	R6/7
SOUTHERN STATES SS 3813N R2	79.2	49.5	2.3	100.0	2.0	R6/7
CZ 3945 LL	78.6	49.2	4.0	100.0	2.0	R6/7
PIONEER 93Y92	78.2	48.6	2.0	0.0	1.0	R6/7
SEED CONSULTANTS SCS 9393RR™	77.3	50.1	1.0	0.0	1.0	R6/7
WARREN SEED DS 3838 R2Y	77.1	49.1	2.3	100.0	2.0	R6/7
UNISOUTH GENETICS USG 73P93R	76.9	49.0	2.3	100.0	2.0	R6/7
STINE 38RE02	76.8	50.3	4.3	100.0	2.0	R6/7
ASGROW AG3936	76.1	50.0	1.7	100.0	2.0	R6/7
WARREN SEED DS 3780	75.7	49.6	3.3	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3659R2	75.4	49.4	3.0	100.0	2.0	R6/7
REV® 39A35™	74.6	50.2	2.3	100.0	2.0	R6/7
DYNA-GRO S39RY65	72.6	49.3	2.3	100.0	2.0	R6/7
LG SEEDS C3915R2	72.6	49.1	1.7	100.0	2.0	R6/7
SYNGENTA S39-U2	70.5	49.1	2.0	100.0	2.0	R6/7
SEED CONSULTANTS SCS 9363RR™	69.9	49.9	1.3	100.0	2.0	R6/7
CZ 3560 RY	69.7	49.4	3.0	100.0	2.0	R6/7
CZ 3841 LL	69.4	49.9	3.7	100.0	2.0	R6/7
DYNA-GRO S38LL54	68.7	49.2	2.0	100.0	2.0	R6/7
PIONEER P35T58R	68.2	49.6	2.3	100.0	2.0	R6/7
ARMOR 37-R33	64.6	49.0	2.7	100.0	2.0	R6/7
PIONEER P32T16R	63.1	48.0	3.0	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3852NR2	58.9	49.1	3.3	100.0	2.0	R6/7
AVERAGE Group III	**76.5**	**49.4**	**2.4**			
LSD (0.10)	5.6					
C.V.	5.5					
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)						
PIONEER P45T11 R	**80.7**	53.7	1.3	0.0	1.0	R5/6
ARMOR AR4205	79.2	53.5	2.0	0.0	1.0	R5/6
STEWART 4113R2	79.0	49.7	2.3	100.0	2.0	R5/6
SYNGENTA S45-R7	78.9	52.7	1.3	100.0	2.0	R5/6
SEED CONSULTANTS SCS 9456SR™	78.1	52.9	2.3	0.0	1.0	R5/6
PFISTER 45R23	77.8	52.6	2.3	0.0	1.0	R5/6
SOUTHERN STATES SS 4215NS R2	77.2	53.1	2.3	0.0	1.0	R5/6
BECK 424L4	75.7	53.8	1.3	0.0	1.0	R5/6
STEWART 4415R2	75.5	53.5	2.0	0.0	1.0	R5/6
REV® 44A14™	75.0	53.5	1.3	0.0	1.0	R5/6
CZ 4181 RY	74.6	53.4	3.3	100.0	2.0	R5/6

Table 10. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
UNISOUTH GENETICS USG 74F53R	74.6	49.9	3.3	0.0	1.0	R5/6
ASGROW AG4336	74.2	54.6	2.0	100.0	2.0	R5/6
CHANNEL 4009R2	73.2	53.5	1.0	0.0	1.0	R5/6
LG SEEDS C4322R2	72.6	53.4	2.0	100.0	2.0	R5/6
ASGROW AG4135	71.7	52.7	3.3	100.0	2.0	R5/6
SOUTHERN STATES LL 423N	71.5	53.5	3.7	0.0	1.0	R5/6
PROGENY 4247 LL	71.4	53.6	1.0	0.0	1.0	R5/6
STINE 43RE02	71.1	53.2	2.0	100.0	2.0	R5/6
DYNA-GRO 39RY43	70.9	53.2	1.7	100.0	2.0	R5/6
STEYER 4402R2	70.8	53.5	2.7	0.0	1.0	R5/6
HS 45A50	70.4	53.4	2.7	0.0	1.0	R5/6
STINE 42LF22	70.1	53.1	2.0	0.0	1.0	R5/6
STEWART 4516R2	69.9	52.3	2.7	100.0	2.0	R5/6
LG SEEDS C4221R2	69.7	53.8	1.7	0.0	1.0	R5/6
CAVERNDALE CF 452 RR2Yn	69.6	53.2	2.3	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74G23L	69.5	53.4	4.7	0.0	1.0	R5/6
WARREN SEED DS 43-003	69.5	51.9	1.0	100.0	2.0	R5/6
STEYER 4303R2	69.3	52.7	3.0	100.0	2.0	R5/6
STEWART 4016R2	68.3	53.4	1.3	0.0	1.0	R5/6
PIONEER 94Y23	67.9	54.4	1.3	100.0	2.0	R5/6
STINE 41LF32	67.3	52.8	1.3	0.0	1.0	R5/6
WARREN SEED DS 4340 R2Y	67.1	52.6	2.7	100.0	2.0	R5/6
SYNGENTA S41-J6	66.7	53.3	1.7	100.0	2.0	R5/6
CHANNEL 4508R2/SR	66.6	53.4	2.0	0.0	1.0	R5/6
CZ 4105 LL	65.5	53.8	1.0	0.0	1.0	R5/6
PROGENY 4214 RY	65.0	53.2	2.3	100.0	2.0	R5/6
CAVERNDALE CF 404n	64.8	53.3	2.3	0.0	1.0	R5/6
STINE 40RF02	64.3	53.7	2.0	100.0	2.0	R5/6
L&M GLICK 412 R2	64.1	53.3	2.3	100.0	2.0	R5/6
ARMOR 41X5L	64.0	53.2	1.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4414N R2	63.9	54.2	2.0	0.0	1.0	R5/6
ARMOR 440L	63.8	52.9	4.7	0.0	1.0	R5/6
UNISOUTH GENETICS USG 74F24RS	63.8	53.2	3.3	100.0	2.0	R5/6
CAVERNDALE CF 426 RR2Y/STSn	63.7	51.8	3.3	100.0	2.0	R5/6
CZ 4590 RY	63.7	53.2	2.7	0.0	1.0	R5/6
ARMOR 43-R51	63.5	53.4	2.3	100.0	2.0	R5/6
PFISTER 43R201	63.4	54.2	1.0	0.0	1.0	R5/6
STINE 45LF22	63.1	54.6	1.7	100.0	2.0	R5/6
SOUTHERN STATES SS 4514N R2	63.0	52.1	2.7	100.0	2.0	R5/6
DYNA-GRO S43RY95	62.9	53.4	3.7	0.0	1.0	R5/6
PFISTER 41RS01	62.9	52.1	2.7	100.0	2.0	R5/6
ASGROW AG4034	62.6	53.4	1.7	100.0	2.0	R5/6
BECK XL 453R4™*	62.4	53.1	2.7	0.0	1.0	R5/6
SEED CONSULTANTS SCS 9412RR™	61.9	52.6	2.0	100.0	2.0	R5/6
CAVERNDALE CF 415 LLn	61.5	52.9	1.0	0.0	1.0	R5/6
STEWART 4216R2	60.7	53.5	1.7	100.0	2.0	R5/6
SYNGENTA S45-V8	60.2	53.4	2.0	100.0	2.0	R5/6
ARMOR AR4504	59.8	51.9	2.7	100.0	2.0	R5/6
GREAT LAKES HYBRIDS GL4354NR2	59.8	53.4	2.0	100.0	2.0	R5/6
DYNA-GRO S42RY46	59.7	53.3	2.0	100.0	2.0	R5/6
ARMOR 43-R43	59.0	53.9	2.0	100.0	2.0	R5/6
DYNA-GRO S42RS03	59.0	50.9	2.0	100.0	2.0	R5/6
CHANNEL 4407R2/STS	58.7	52.1	3.0	100.0	2.0	R5/6
CHANNEL 4209R2	58.4	54.2	1.3	100.0	2.0	R5/6
DYNA-GRO S44LS76	58.2	52.7	2.7	0.0	1.0	R5/6
CZ 4540 LL	57.4	52.2	4.0	100.0	2.0	R5/6
PROGENY 4211 RY	55.1	52.8	2.7	100.0	2.0	R5/6
SYNGENTA S40-N2	54.7	52.7	1.7	0.0	1.0	R5/6
ASGROW AG4232	53.9	53.8	3.3	100.0	2.0	R5/6
BECK 449L4	52.2	52.3	4.0	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74A33R	46.0	53.7	1.7	100.0	2.0	R5/6
AVERAGE Group IV Early	**66.4**	**53.1**	**2.3**			
LSD (0.10)	5.3					
C.V.	6.0					

Table 10. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP IV LATE (relative MG 4.6-4.9)						
PFISTER 47R22	**81.2**	53.6	2.7	0.0	1.0	R5/6
CAVERNDALE CF 479 LLn	79.7	52.9	1.3	0.0	1.0	R5/6
SYNGENTA S47-K5	77.7	53.2	2.3	0.0	1.0	R5/6
REV® 49R94™	76.4	52.9	2.3	0.0	1.0	R5/6
WARREN SEED DS 4850 R2Y/STS	75.9	51.9	2.0	100.0	2.0	R5/6
WARREN SEED DS 4633 R2Y	75.8	53.9	4.0	0.0	1.0	R5/6
LG SEEDS C4994R2	74.6	53.8	1.3	0.0	1.0	R5/6
ASGROW AG4835	74.2	54.0	2.7	100.0	2.0	R5/6
PROGENY 4757 RY	73.9	53.0	3.0	0.0	1.0	R5/6
CAVERNDALE CF 472 RR2Y/STSn	73.3	53.8	3.3	100.0	2.0	R5/6
ASGROW AG4632	72.5	53.0	3.7	0.0	1.0	R5/6
PIONEER P47T36R	71.8	54.3	1.7	0.0	1.0	R5/6
ARMOR 49X5L	70.9	51.3	2.0	0.0	1.0	R5/6
REV® 47R34™	70.5	52.6	3.3	0.0	1.0	R5/6
HBK RY4721	70.2	52.8	3.7	0.0	1.0	R5/6
DYNA-GRO S49RY25	69.8	54.0	2.0	0.0	1.0	R5/6
LG SEEDS C4780R2	69.7	52.9	2.3	0.0	1.0	R5/6
PIONEER P48T36R	69.7	52.9	1.0	0.0	1.0	R5/6
CHANNEL 4806 R2/STS	69.6	53.5	1.3	0.0	1.0	R5/6
DYNA-GRO S49LL34	68.9	52.1	2.0	0.0	1.0	R5/6
GREAT LAKES HYBRIDS GL4729R2	68.8	53.6	2.3	0.0	1.0	R5/6
SOUTHERN STATES SS 4714NS R2	68.8	52.9	2.3	100.0	2.0	R5/6
BECK 474L4	68.7	53.1	1.3	0.0	1.0	R5/6
STEWART 4714R2	68.2	53.0	2.7	0.0	1.0	R5/6
DYNA-GRO S48RS53	67.8	53.7	2.7	0.0	1.0	R5/6
PROGENY 4788 RY	67.7	52.3	2.0	100.0	2.0	R5/6
HBK LL4953	67.5	53.8	1.7	0.0	1.0	R5/6
BECK XL 493R4™*	67.2	53.2	2.7	0.0	1.0	R5/6
HS 46A50	67.1	53.3	1.7	0.0	1.0	R5/6
SOUTHERN STATES SS 4917N R2	67.0	54.3	3.3	0.0	1.0	R5/6
ARMOR 49-R56	66.7	53.4	2.0	100.0	2.0	R5/6
PIONEER P46T01R	66.4	53.6	2.7	0.0	1.0	R5/6
SEED CONSULTANTS SCS 9474RR™	66.3	54.5	3.0	0.0	1.0	R5/6
PROGENY 4613 RYS	66.2	52.6	3.0	100.0	2.0	R5/6
REV® 47R53™	66.2	53.5	2.3	0.0	1.0	R5/6
BECK XL 465R4™*	66.0	52.0	2.3	0.0	1.0	R5/6
STINE 49LD02	65.7	52.6	2.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4915NS R2	65.6	54.7	2.3	0.0	1.0	R5/6
REV® 49A55™	65.3	52.9	2.0	0.0	1.0	R5/6
BECK 481R2	64.8	54.0	2.7	100.0	2.0	R5/6
SOUTHERN STATES SS 4725NS R2	64.7	54.2	2.7	0.0	1.0	R5/6
ASGROW AG4934	64.4	52.3	2.3	100.0	2.0	R5/6
SYNGENTA 48-D9	64.3	53.1	3.7	0.0	1.0	R5/6
DYNA-GRO S46RY85	64.1	51.4	3.0	100.0	2.0	R5/6
PROGENY 4850 RYS	64.1	53.0	2.3	0.0	1.0	R5/6
ARMOR 47-L10	63.3	49.5	2.7	100.0	2.0	R5/6
PIONEER P49T97R	61.7	53.7	1.7	0.0	1.0	R5/6
ARMOR 47-R70	61.4	53.3	4.3	0.0	1.0	R5/6
STINE 47RC32	61.1	53.3	3.3	0.0	1.0	R5/6
STEYER 4703R2	60.9	54.4	3.7	100.0	2.0	R5/6
PROGENY 4900 RY	60.3	52.2	2.0	100.0	2.0	R5/6
ARMOR AR4615	58.7	53.4	2.7	0.0	1.0	R5/6
HBK LL4850	58.6	53.1	3.3	100.0	2.0	R5/6
HBK LL4950	58.4	52.1	3.3	100.0	2.0	R5/6
ARMOR 48-C5	58.1	52.9	4.0	100.0	2.0	R5/6
WARREN SEED DS 4720	57.9	53.8	3.3	100.0	2.0	R5/6
ARMOR 46-R65	57.1	52.6	2.7	100.0	2.0	R5/6
PROGENY 4930 LL	56.6	53.5	1.3	0.0	1.0	R5/6
HBK LL4653	55.1	52.8	2.0	100.0	2.0	R5/6
HS 48A22	55.0	53.6	3.7	100.0	2.0	R5/6
UNISOUTH GENETICS USG ELLIS	54.9	53.2	4.0	0.0	1.0	R5/6
SYNGENTA S46-L2	54.0	51.6	3.3	100.0	2.0	R5/6
CZ 4959 RY	52.8	52.7	3.3	0.0	1.0	R5/6
ARMOR 497L	52.6	52.1	4.0	0.0	1.0	R5/6
ARMOR 49-R44	52.5	52.0	4.3	100.0	2.0	R5/6

Table 10. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
UNIVERSITY OF ARKANSAS UA5014C	52.5	58.2	5.0	0.0	1.0	R5/6
REV® 49A14™	52.2	52.9	4.3	100.0	2.0	R5/6
REV® 49A75™	51.8	53.3	3.3	100.0	2.0	R5/6
STEYER 4602R2	51.2	53.5	3.3	100.0	2.0	R5/6
DYNA-GRO S47RY13	50.0	53.4	3.0	0.0	1.0	R5/6
PROGENY 4814 LLS	46.5	44.9	5.0	0.0	1.0	R5/6
CZ 4818 LL	43.2	53.0	4.7	0.0	1.0	R5/6
UNIVERSITY OF ARKANSAS R09-1589	38.9	53.8	4.7	0.0	1.0	R5/6
AVERAGE Group IV Late	**63.9**	**53.0**	**2.8**			
LSD (0.10)	5.3					
C.V.	6.2					
MATURITY GROUP V (relative MG 5.0-5.9)						
DYNA-GRO S51RY45	**79.4**	53.4	4.3	100.0	2.0	R5
REV® 51A56™	74.2	52.9	3.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R09-430	73.8	55.7	5.0	100.0	2.0	R5
PIONEER P50T64R	72.0	53.7	1.0	0.0	1.0	R5
BECK 522L4	71.1	52.5	2.7	0.0	1.0	R5
DYNA-GRO SX15852RS	63.3	52.9	4.0	100.0	2.0	R5
ARMOR 50-R21	61.4	55.1	3.3	100.0	2.0	R5
ARMOR AR5004	61.2	52.0	3.7	0.0	1.0	R5
ASGROW AG5335	60.3	52.5	3.0	100.0	2.0	R5
REV® 52A94™	58.9	53.8	4.7	0.0	1.0	R5
ARMOR AR5205	58.3	53.2	4.0	0.0	1.0	R5
ARMOR 51X5L	56.0	53.5	3.7	0.0	1.0	R5
DYNA-GRO S52LL66	55.5	54.0	3.7	0.0	1.0	R5
UNIVERSITY OF ARKANSAS OSAGE	53.4	50.7	4.3	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5213C	52.4	52.4	5.0	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5612	51.4	51.1	5.0	0.0	1.0	R5
ARMOR 53-L55	50.5	53.1	4.0	100.0	2.0	R5
UNIVERSITY OF ARKANSAS R11-89RY	50.0	51.8	4.7	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5414RR	49.1	52.5	4.7	100.0	2.0	R5
UNIVERSITY OF ARKANSAS R10-197RY	48.6	53.6	4.3	100.0	2.0	R5
EXP USDA-ARS JTN-5110	47.5	55.3	5.0	100.0	2.0	R5
REV® 54R84™	47.0	54.4	5.0	100.0	2.0	R5
REV® 55R53™	36.4	50.2	5.0	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5814HP	36.3	48.3	5.0	0.0	1.0	R5
AVERAGE Group V	**57.0**	**52.9**	**4.1**			
LSD (0.10)	5.2					
C.V.	6.7					

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

[B] *For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion). One replicate per variety was rated.*

AGRONOMIC INFORMATION

Location	Clinton County
Soil type	90% Dewey Loam 10% Mountview silt loam
Previous crop	Soybean
Soil test	pH6.4 P124 K256
Fertilizer/lime applied	Poultry litter 2 tons/acre (equivalent fertilizer grade 50% N, 80% P2O5, and 100% K2O: 0.3-1.6-1)
Agricultural practice	no-till
Pre-Planting treatments	5/1 Authority XL, 2-4D and Paraquat 6/1 Glyphosate
Planting date	06/10
Post-Planting treatments	7/15: First Rate, Reflex - Intensity One (MG IV Early and Late)
Harvest dates	10/14 MG II, III, and IV Early 10/23 MG IV Late and V
50% chance of killing frost	10/20

Precipitation and temperature history

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	5.59	47.7	77.9	-0.9
April	6.52	58.6	82.1	29.9
May	2.52	67.5	86.6	36.6
June	9.24	73.5	89.4	53.8
July	9.31	76.2	91.4	59.6
August	3.69	71.8	89.2	51
September	2.83	68.9	89.2	43.9
October (10/01-23)	1.89	58.3	81.6	30.5

Table 11. 2015 Kentucky Soybean Variety Performance Tests, Fayette County

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	PLANT HEIGHT (IN.) 2015	MATURITY DATE 2015[B]	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)										
ASGROW AG2935	**75.7**			56.0	1.0	34	17	100.0	2.0	R7
LG SEEDS C2744R2	69.4			56.2	1.0	36	16	100.0	2.0	R6/7
ASGROW AG2836	69.3			55.0	1.0	37	17	100.0	2.0	R6/7
CAVERNDALE CF 286 RR2Y/STSn	68.9	60.1	**61.4**	56.0	1.3	36	17	100.0	2.0	R7
PIONEER P28T08R	68.9			55.9	1.0	34	16	100.0	2.0	R6/7
PIONEER P28T33R	64.0	**61.9**		55.3	1.0	34	16	0.0	1.0	R7
AVERAGE Group II	**69.4**	**61.0**	**61.4**	**55.7**	**1.1**	**35**	**Sept. 17th**			
LSD (0.10)	4.8	3.0	2.5							
C.V.	4.6	4.6	4.9							
MATURITY GROUP III (relative MG 3.0-3.9)										
STINE 38RE02	**71.8**	**65.3**		54.1	1.0	42	17	100.0	2.0	R6/7
SEED CONSULTANTS SCS 9393RR™	70.9	64.3	**64.4**	54.7	1.0	42	23	0.0	1.0	R6/7
ASGROW AG3936	70.6			54.8	1.3	42	17	100.0	2.0	R6/7
ARMOR AR3915	69.0			54.1	1.0	36	19	100.0	2.0	R6/7
CZ 3841 LL	64.3	60.0		54.9	1.0	40	20	100.0	2.0	R6/7
SEED CONSULTANTS SCS 9363RR™	64.1	64.2	62.4	56.0	1.0	42	18	100.0	2.0	R6/7
ARMOR AR3905	63.5			53.7	1.0	39	19	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3729R2	62.9	60.6		54.4	1.7	39	17	100.0	2.0	R6/7
SYNGENTA S39-T3	61.2	64.9		53.7	1.0	38	18	100.0	2.0	R6/7
DYNA-GRO S39RY65	60.6	59.5		55.2	1.0	40	23	100.0	2.0	R6/7
PIONEER P32T16R	60.5			53.3	1.0	38	18	100.0	3.0	R6/7
SEED CONSULTANTS SCS 9385RR™	60.3	61.8		55.2	1.3	46	17	100.0	2.0	R6/7
SOUTHERN STATES SS 3813N R2	60.1	58.8	61.1	53.9	1.0	38	17	100.0	2.0	R6/7
PIONEER 93Y92	59.9	59.9	62.7	54.3	1.0	40	17	0.0	1.0	R6/7
PFISTER 39R201	59.7			54.1	1.0	43	18	0.0	1.0	R6/7
DYNA-GRO 32RY39	59.3	59.2		54.8	1.0	41	22	100.0	2.0	R6/7
LG SEEDS C3915R2	59.2			53.5	1.0	38	20	100.0	2.0	R6/7
SYNGENTA S35-C3	58.9			54.2	1.3	36	17	100.0	2.0	R6/7
CZ 3945 LL	58.1			53.4	1.0	38	22	0.0	1.0	R6/7
GREAT LAKES HYBRIDS GL3852NR2	58.1			54.0	1.0	39	20	100.0	2.0	R6/7
DYNA-GRO S38LL54	58.0			54.4	1.0	40	17	100.0	2.0	R6/7
CZ 3560 RY	57.4			54.8	1.3	36	22	100.0	2.0	R6/7
L&M GLICK 386 R2	56.8			54.6	1.0	40	17	100.0	2.0	R6/7
STEYER 3301R2	56.8			54.0	1.0	36	20	100.0	2.0	R6/7
PIONEER P35T58R	55.9	56.0	58.6	54.4	1.0	41	17	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3659R2	55.0			54.4	1.0	34	19	100.0	2.0	R6/7
PFISTER 39R29	53.6	55.4		54.6	1.0	35	17	100.0	2.0	R6/7
UNISOUTH GENETICS USG 73P93R	52.7	55.3	58.4	53.8	1.0	37	22	100.0	2.0	R6/7
REV® 39A35™	51.8	58.6		54.8	1.0	38	17	100.0	2.0	R6/7
ARMOR 37-R33	51.7			54.5	1.3	40	20	100.0	2.0	R6/7
WARREN SEED DS 3780	50.1			54.9	1.0	40	23	100.0	2.0	R6/7
SOUTHERN STATES SS 3914NS R2	49.3	53.1		54.7	1.0	36	18	100.0	2.0	R6/7
WARREN SEED DS 3838 R2Y	49.3	54.9		54.3	1.3	40	17	100.0	3.0	R6/7
SYNGENTA S39-U2	48.8			54.2	1.0	40	18	100.0	2.0	R6/7
PFISTER 38R202	48.0			54.7	1.3	44	20	100.0	2.0	R6/7
AVERAGE Group III	**58.5**	**59.5**	**61.3**	**54.4**	**1.1**	**39**	**Sept. 19th**			
LSD (0.10)	7.0	4.5	3.4							
C.V.	8.8	7.9	7.3							
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)										
SYNGENTA S40-N2	**74.3**	67.7		52.5	1.3	35	20	100.0	2.0	R6
CAVERNDALE CF 404n	71.9			53.0	1.0	38	20	100.0	2.0	R6
CAVERNDALE CF 426 RR2Y/STSn	70.9	**68.8**		52.8	1.7	47	20	100.0	2.0	R6
UNISOUTH GENETICS USG 74F24RS	70.5	68.0		53.4	1.3	42	19	100.0	2.0	R6
LG SEEDS C4221R2	69.0			53.7	1.0	42	19	100.0	2.0	R6
DYNA-GRO S44LS76	65.8			53.3	1.0	40	20	0.0	1.0	R6
UNISOUTH GENETICS USG 74A33R	65.3	68.4	64.7	49.8	1.0	37	27	100.0	2.0	R6
STEWART 4016R2	64.9			53.5	1.0	40	20	100.0	2.0	R6
STEWART 4516R2	64.4			53.3	1.3	44	20	100.0	2.0	R6
ARMOR 41X5L	63.5			53.6	1.0	40	20	100.0	2.0	R6
PROGENY 4211 RY	62.9	63.4	61.5	53.2	1.0	40	20	100.0	2.0	R6
STEYER 4402R2	62.9			51.9	1.7	44	23	100.0	2.0	R6
DYNA-GRO S42RS03	62.8	60.2		51.9	1.3	39	25	100.0	2.0	R6
DYNA-GRO 39RY43	62.8	63.3	60.9	53.1	1.0	42	20	100.0	2.0	R6

Table 11. 2015 *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	PLANT HEIGHT (IN.) 2015	MATURITY DATE 2015[B]	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
ASGROW AG4336	61.4			53.7	1.3	40	20	100.0	2.0	R6
PFISTER 43R201	61.2			52.9	1.0	34	20	100.0	2.0	R6
CHANNEL 4407R2/STS	60.4	56.9		52.6	1.0	40	22	100.0	2.0	R6
BECK XL 453R4™*	60.4			54.2	1.0	42	21	0.0	1.0	R6
WARREN SEED DS 43-003	60.1			53.1	1.0	37	20	100.0	2.0	R6
CHANNEL 4209R2	59.9			53.9	1.7	44	20	100.0	2.0	R6
ASGROW AG4135	59.1	60.7		52.7	1.3	42	21	100.0	2.0	R6
UNISOUTH GENETICS USG 74G23L	58.9			53.8	1.0	38	22	100.0	2.0	R6
STINE 43RE02	58.8	60.2		53.0	1.0	41	9	100.0	2.0	R6
STINE 40RF02	58.8			54.0	1.3	42	25	100.0	2.0	R6
ASGROW AG4034	58.5	61.5		53.1	1.0	36	19	100.0	2.0	R6
CHANNEL 4009R2	58.5			52.8	1.0	40	21	100.0	2.0	R6
PFISTER 41RS01	57.9			53.4	1.0	39	21	100.0	2.0	R6
STINE 42LF22	57.4			53.9	1.0	36	20	0.0	1.0	R6
PROGENY 4214 RY	57.1			53.0	1.0	40	25	100.0	2.0	R6
STEWART 4216R2	57.1			53.8	1.7	43	19	100.0	2.0	R6
ARMOR AR4205	56.9			53.1	1.7	35	20	100.0	2.0	R6
PFISTER 45R23	56.8			52.8	1.0	45	21	0.0	1.0	R6
CAVERNDALE CF 415 LLn	56.6			54.1	1.0	39	25	100.0	2.0	R6
DYNA-GRO S43RY95	56.5	62.0		52.4	1.7	49	22	100.0	2.0	R6
SEED CONSULTANTS SCS 9456SR™	56.5			53.5	1.3	39	25	100.0	2.0	R6
SEED CONSULTANTS SCS 9412RR™	56.5			54.0	1.3	40	20	0.0	1.0	R6
CZ 4105 LL	56.3			55.0	1.0	38	20	100.0	2.0	R6
STEWART 4113R2	56.2	58.6	59.1	53.9	1.0	33	20	100.0	2.0	R6
PIONEER P45T11 R	56.0	60.7		53.7	1.0	47	25	0.0	1.0	R6
UNISOUTH GENETICS USG 74F53R	55.9	61.8		55.9	1.0	40	23	100.0	2.0	R6
CZ 4590 RY	55.6			52.8	1.0	44	22	100.0	2.0	R6
CAVERNDALE CF 452 RR2Yn	55.4			92.6	1.0	38	25	100.0	2.0	R6
DYNA-GRO S42RY46	55.4			52.1	1.0	46	21	100.0	2.0	R6
STINE 41LF32	55.0			53.2	1.0	37	25	0.0	1.0	R6
BECK 449L4	54.6			52.7	1.0	42	20	100.0	2.0	R6
WARREN SEED DS 4340 R2Y	54.3	59.5	58.6	53.1	1.0	38	21	100.0	2.0	R6
STINE 45LF22	54.2			53.2	1.0	34	22	100.0	2.0	R6
L&M GLICK 412 R2	54.1			53.5	1.0	36	20	100.0	2.0	R6
GREAT LAKES HYBRIDS GL4354NR2	52.9			52.8	1.0	40	20	100.0	2.0	R6
ARMOR 43-R51	52.8			54.1	1.0	41	20	100.0	2.0	R6
ARMOR 440L	52.5			51.8	1.3	37	25	0.0	1.0	R6
ARMOR AR4504	52.3	58.7		53.2	2.0	44	21	100.0	2.0	R6
CZ 4181 RY	51.8	55.0		54.2	1.0	40	24	100.0	2.0	R6
SYNGENTA S41-J6	51.8	54.4	55.8	53.3	1.7	46	20	100.0	2.0	R6
SOUTHERN STATES SS 4514N R2	51.6	57.6		54.5	1.0	42	25	100.0	2.0	R6
SYNGENTA S45-V8	51.2	55.4	56.2	54.4	1.0	32	20	100.0	2.0	R6
ASGROW AG4232	51.1	60.4	**67.1**	54.4	2.0	40	24	100.0	2.0	R6
SOUTHERN STATES LL 423N	50.9	58.4	61.5	54.8	1.0	33	22	0.0	1.0	R6
LG SEEDS C4322R2	50.8	55.5		53.6	1.0	40	22	100.0	2.0	R6
ARMOR 43-R43	50.8	54.4	53.0	54.5	1.0	44	25	100.0	2.0	R6
SOUTHERN STATES SS 4215NS R2	50.4			53.4	1.3	41	20	100.0	2.0	R6
STEYER 4303R2	49.9	59.2		53.6	1.3	42	20	100.0	2.0	R6
PROGENY 4247 LL	49.1			53.7	1.3	31	20	0.0	1.0	R6
SYNGENTA S45-R7	48.8			53.6	1.0	35	22	100.0	2.0	R6
REV® 44A14™	48.7			54.2	1.0	38	20	100.0	2.0	R6
STEWART 4415R2	48.1			53.1	1.3	39	20	100.0	2.0	R6
PIONEER 94Y23	47.5	55.2	56.8	53.0	1.0	40	20	100.0	2.0	R6
HS 45A50	47.5			52.7	1.3	42	20	100.0	2.0	R6
CHANNEL 4508R2/SR	46.2	50.8		53.3	1.3	42	20	100.0	2.0	R6
CZ 4540 LL	44.9			53.3	1.3	50	25	100.0	2.0	R6
BECK 424L4	44.9			53.4	1.0	38	21	100.0	2.0	R6
SOUTHERN STATES SS 4414N R2	42.5			54.4	1.0	43	19	100.0	2.0	R6
AVERAGE Group IV Early	**56.5**	**59.9**	**59.6**	**53.9**	**1.2**	**40**	**Sept. 21rst**			
LSD (0.10)	5.4	3.6	2.8							
C.V.	7.0	6.5	6.1							
MATURITY GROUP IV LATE (relative MG 4.6-4.9)										
PROGENY 4613 RYS	**72.3**	**70.6**	66.7	57.0	1.0	36	35	100.0	2.0	R6
PIONEER P47T36R	71.4	69.2	65.0	57.7	1.0	42	33	0.0	1.0	R6

Table 11. 2015 *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	PLANT HEIGHT (IN.) 2015	MATURITY DATE 2015[B]	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
BECK XL 493R4™*	70.6	68.2		56.8	1.7	48	33	0.0	1.0	R6
REV® 49A55™	69.0	67.8		57.4	1.0	38	34	0.0	1.0	R6
SOUTHERN STATES SS 4915NS R2	67.5			56.9	1.0	35	38	100.0	2.0	R6
BECK XL 465R4™*	65.8	65.6		55.9	1.3	44	35	0.0	1.0	R6
CAVERNDALE CF 479 LLn	65.5	64.6		56.9	1.0	38	35	0.0	1.0	R6
WARREN SEED DS 4633 R2Y	65.0	66.1	**67.3**	56.2	1.0	47	35	0.0	1.0	R6
BECK 481R2	65.0			56.7	1.0	46	35	100.0	2.0	R6
GREAT LAKES HYBRIDS GL4729R2	64.3	66.2	63.1	57.5	1.0	44	30	100.0	2.0	R6
ARMOR 49-R44	64.0			57.2	1.0	52	33	100.0	2.0	R6
PROGENY 4757 RY	63.9			56.5	2.0	44	35	0.0	1.0	R6
SEED CONSULTANTS SCS 9474RR™	63.9	65.4	66.4	56.2	1.0	45	37	0.0	1.0	R6
STINE 47RC32	63.2			56.7	1.0	40	35	0.0	1.0	R6
SOUTHERN STATES SS 4725NS R2	63.1	63.7	62.7	56.7	1.7	42	35	100.0	2.0	R6
REV® 47R34™	62.9	64.7	64.5	57.4	1.0	35	37	0.0	1.0	R6
PFISTER 47R22	62.1			57.4	1.3	46	33	100.0	2.0	R6
HS 46A50	62.1			57.2	1.3	40	35	0.0	1.0	R6
ARMOR 47-L10	61.7			55.6	1.0	37	33	0.0	1.0	R6
HBK LL4850	61.7	62.0	62.8	57.5	1.3	42	37	100.0	2.0	R6
REV® 49A75™	61.6	62.5		57.8	2.3	42	35	100.0	2.0	R6
REV® 49A14™	61.4	59.3		54.9	1.3	44	35	100.0	2.0	R6
ARMOR 46-R65	60.8	62.8		56.0	1.7	38	37	100.0	2.0	R6
REV® 49R94™	60.5	61.3	60.6	56.9	1.3	46	35	0.0	1.0	R6
ARMOR 48-C5	59.9			58.1	1.3	44	35	100.0	2.0	R6
LG SEEDS C4780R2	59.7	63.2	61.4	57.7	1.3	44	35	0.0	1.0	R6
HBK RY4721	59.4	62.4	60.8	57.2	1.3	48	30	100.0	2.0	R6
SOUTHERN STATES SS 4917N R2	59.3	60.8	60.7	56.9	1.0	46	35	100.0	2.0	R6
ASGROW AG4934	59.2	62.8	65.2	57.5	1.0	45	32	100.0	2.0	R6
STEWART 4714R2	59.1			57.5	1.0	45	35	100.0	2.0	R6
HS 48A22	58.8	58.4		57.4	1.0	44	35	100.0	2.0	R6
PIONEER P49T97R	58.5	61.6	60.2	56.8	1.0	40	35	0.0	1.0	R6
WARREN SEED DS 4850 R2Y/STS	58.3	64.0	65.2	58.1	1.0	40	36	0.0	1.0	R6
SYNGENTA S47-K5	58.2	60.6		56.1	1.0	35	37	0.0	1.0	R6
BECK 474L4	58.2			56.0	1.0	38	35	0.0	1.0	R6
UNIVERSITY OF ARKANSAS R09-1589	58.1			58.4	1.3	37	35	0.0	1.0	R6
PROGENY 4814 LLS	57.9			40.5	2.7	46	38	0.0	1.0	R6
PROGENY 4788 RY	57.5	61.1		54.3	1.0	40	35	0.0	1.0	R6
DYNA-GRO S48RS53	57.2	62.1	63.0	57.8	1.0	46	33	100.0	2.0	R6
ARMOR 497L	57.2			57.0	1.7	38	30	0.0	1.0	R6
SYNGENTA S46-L2	57.1	59.8	60.5	56.2	1.0	36	30	100.0	2.0	R6
ARMOR AR4615	56.6			55.3	1.0	40	33	0.0	1.0	R6
CAVERNDALE CF 472 RR2Y/STSn	56.4	61.3		55.8	1.3	45	36	100.0	2.0	R6
PIONEER P48T36R	56.0	61.6	62.5	55.9	1.0	44	35	0.0	1.0	R6
REV® 47R53™	55.9	60.2	60.8	56.6	1.3	44	35	0.0	1.0	R6
ARMOR 47-R70	55.8			56.5	1.0	41	36	0.0	1.0	R6
SOUTHERN STATES SS 4714NS R2	55.8	64.2		57.1	1.0	38	35	100.0	2.0	R6
STINE 49LD02	55.4			55.7	1.0	49	32	0.0	1.0	R6
LG SEEDS C4994R2	54.4			58.0	1.3	51	35	100.0	2.0	R6
ARMOR 49X5L	54.2			55.2	1.0	37	35	0.0	1.0	R6
CZ 4818 LL	54.2			56.2	1.7	46	35	0.0	1.0	R6
CZ 4959 RY	53.5	59.4		56.7	1.0	34	35	100.0	2.0	R6
STEYER 4703R2	53.4			56.2	1.0	38	30	100.0	2.0	R6
ASGROW AG4835	53.0	59.7		58.3	1.3	44	36	100.0	2.0	R6
UNISOUTH GENETICS USG ELLIS	52.8	57.5		58.1	1.3	38	35	0.0	1.0	R6
HBK LL4950	52.5	57.1	55.7	55.0	1.3	48	35	0.0	1.0	R6
ARMOR 49-R56	52.3	57.9	58.2	55.9	1.0	34	32	100.0	2.0	R6
DYNA-GRO S46RY85	52.1	53.3		56.2	1.0	37	30	100.0	2.0	R6
SYNGENTA 48-D9	51.8			55.9	2.0	50	40	0.0	1.0	R6
ASGROW AG4632	51.6	59.2	59.1	55.7	1.0	38	35	0.0	1.0	R6
PROGENY 4900 RY	51.2	58.2	59.3	54.8	1.0	32	35	100.0	2.0	R6
PIONEER P46T01R	50.7			56.8	1.0	42	35	100.0	2.0	R6
WARREN SEED DS 4720	50.6			58.1	1.0	36	36	100.0	2.0	R6
UNIVERSITY OF ARKANSAS UA5014C	50.3	56.2		58.4	1.7	45	33	100.0	2.0	R6
STEYER 4602R2	49.7	61.9		56.0	1.0	40	36	100.0	2.0	R6
DYNA-GRO S49LL34	49.4			57.3	1.0	42	30	0.0	1.0	R6
DYNA-GRO S49RY25	49.3	57.7		58.2	1.0	42	35	100.0	2.0	R6
PROGENY 4850 RYS	49.2	57.9	57.1	57.7	1.0	42	30	100.0	2.0	R6

Table 11. 2015 *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	PLANT HEIGHT (IN.) 2015	MATURITY DATE 2015[B]	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
HBK LL4653	48.2	53.7		56.8	1.3	36	33	100.0	2.0	R6
DYNA-GRO S47RY13	47.7	53.7	53.3	55.7	1.0	40	35	100.0	2.0	R6
CHANNEL 4806 R2/STS	46.1			57.0	1.0	46	30	100.0	2.0	R6
PROGENY 4930 LL	45.3	55.5	55.6	54.4	1.3	37	35	0.0	1.0	R6
HBK LL4953	45.0	52.1		56.3	1.7	44	33	0.0	1.0	R6
AVERAGE Group IV Late	**57.6**	**61.2**	**61.5**	**56.5**	**1.2**	**42**	**Oct. 4th**			
LSD (0.10)	6.3	4.3	3.2							
C.V.	8.1	7.5	6.9							
MATURITY GROUPV (relative MG 5.0-5.9)										
UNIVERSITY OF ARKANSAS UA5814HP	**77.7**			35.0	4.7	48	49	0.0	1.0	R5/6
REV® 52A94™	68.3	**63.3**		54.5	2.7	46	40	100.0	2.0	R5/6
DYNA-GRO SX15852RS	67.8			53.9	2.0	48	38	100.0	2.0	R5/6
REV® 54R84™	66.7	60.4	59.3	55.0	3.0	40	40	100.0	2.0	R5/6
REV® 51A56™	65.4			57.3	1.0	42	40	0.0	1.0	R5/6
PIONEER P50T64R	64.6	59.3		55.6	1.0	44	45	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS UA5612	61.6	55.6	55.6	45.8	4.7	42	38	0.0	1.0	R5/6
ARMOR AR5004	61.6			56.0	1.0	48	40	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS R10-197RY	59.6			49.9	1.3	48	40	0.0	1.0	R5/6
DYNA-GRO S51RY45	58.6	58.3		55.7	1.0	44	42	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS R09-430	58.1			55.9	1.3	38	42	100.0	2.0	R5/6
EXP USDA-ARS JTN-5110	57.9	56.8	58.5	56.3	3.0	42	38	100.0	2.0	R5/6
ARMOR AR5205	56.9			56.0	1.0	44	40	100.0	2.0	R5/6
ARMOR 51X5L	56.5			53.8	1.3	48	42	0.0	1.0	R5/6
ASGROW AG5335	55.5			56.6	1.0	46	38	100.0	2.0	R5/6
BECK 522L4	55.5	58.3	**60.3**	54.4	1.0	45	40	0.0	1.0	R5/6
UNIVERSITY OF ARKANSAS R11-89RY	54.9			55.4	1.3	42	38	0.0	1.0	R5/6
ARMOR 53-L55	53.9			53.9	2.3	44	40	0.0	1.0	R5/6
UNIVERSITY OF ARKANSAS UA5414RR	53.9	54.1	52.0	55.9	3.3	42	38	100.0	2.0	R5/6
ARMOR 50-R21	52.7			57.2	1.0	46	39	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS UA5213C	52.4	54.4	57.5	56.2	4.0	39	39	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS OSAGE	48.1	46.6	51.3	53.4	1.7	34	40	100.0	2.0	R5/6
DYNA-GRO S52LL66	37.1			50.4	1.0	50	39	0.0	1.0	R5/6
REV® 55R53™	36.6	46.3	50.4	51.7	2.7	44	44	100.0	2.0	R5/6
AVERAGE Group V	**57.6**	**55.8**	**55.6**	**53.6**	**2.0**	**44**	**Oct. 10th**			
LSD (0.10)	6.8	4.0	3.0							
C.V.	8.5	7.3	6.8							

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

[B] *The maturity date is expressed as days after August 31rst.*

[C] *For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion). One replicate per variety was rated.*

AGRONOMIC INFORMATION

Location	Fayette County
Soil type	Lanton silty clay loam
Previous crop	corn
Soil test	pH62.24 P357 K253
Fertilizer/lime applied	none
Agricultural practice	No-till
Pre-Planting treatments	04/24 Glyphosate (Generic), Salvo
	05/4: Glyphosate (Generic), Authority XL, Dual Magnum
Planting dates	05/14 II, III, and IV Early
	05/15 IV Late, and V
Post-Planting treatments	06/02: FirstRate, Intensity One
Harvest dates	MG II 09/17
	MG III 09/25
	MG IV Early 09/28
	MG IV Late & V 10/19
50% chance of killing frost	10/26

Precipitation and temperature history

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	6.32	43.9	71.6	6.8
April	10.43	56.5	81.3	32.6
May	2.15	67.4	85.4	42.1
June	6.55	73.0	88.6	52.8
July	9.58	75.1	89.0	63.8
August	2.24	72.2	87.2	55.2
September	3.54	70.0	90.8	45.6
October (10/01-19)	1.22	57.9	80.9	33.1

Table 12. 2015 Kentucky Soybean Variety Performance Tests, Hancock County

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)[B]								
PIONEER P28T33R	**36.0**	**48.8**		56.3	1.0	100	2	R6/7
ASGROW AG2935	34.8			55.8	1.0	67	2	R6/7
CAVERNDALE CF 286 RR2Y/STSn	34.5	**48.8**		57.1	1.0	100	2	R6/7
LG SEEDS C2744R2	34.1			56.9	1.0	100	2	R6/7
ASGROW AG2836	33.4			56.1	1.3	100	2	R6/7
PIONEER P28T08R	32.0			54.9	1.0	0	1	R6/7
AVERAGE Group II	**34.1**	**48.8**	**NA**	**56.2**	**1.1**			
LSD (0.10)	2.0	2.1						
C.V.	4.0	5.2						
MATURITY GROUP III (relative MG 3.0-3.9)[B]								
CZ 3560 RY	**59.4**			56.9	1.0	40.0	1.7	R6/7
SYNGENTA S39-T3	58.0	**66.7**		56.9	1.7	100.0	2.0	R6/7
CZ 3945 LL	57.7			56.5	1.0	33.3	1.3	R6/7
ARMOR AR3905	57.3			56.2	1.0	100.0	2.0	R6/7
REV® 39A35™	56.6	66.6		56.7	1.0	100.0	2.0	R6/7
LG SEEDS C3915R2	56.0			55.8	1.0	100.0	2.0	R6/7
ARMOR AR3915	55.3			57.6	1.0	100.0	2.0	R6/7
PIONEER P35T58R	55.0	61.1		56.8	1.0	100.0	2.0	R6/7
SEED CONSULTANTS SCS 9385RR™	54.5	61.5		56.9	1.0	100.0	2.0	R6/7
SYNGENTA S35-C3	54.4			55.6	1.0	0.0	1.0	R6/7
DYNA-GRO 32RY39	52.8	62.2		57.3	1.0	33.3	1.3	R6/7
SOUTHERN STATES SS 3813N R2	52.6	62.5		55.6	1.7	100.0	2.0	R6/7
STEYER 3301R2	52.3			54.9	1.3	40.0	1.7	R6/7
GREAT LAKES HYBRIDS GL3729R2	52.2	62.5		56.3	1.7	40.0	1.7	R6/7
SEED CONSULTANTS SCS 9393RR™	52.0	63.4		55.2	1.0	33.3	1.3	R6/7
PIONEER 93Y92	51.6	62.1		56.8	1.7	0.0	1.0	R6/7
ASGROW AG3936	51.1			55.1	1.0	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3852NR2	51.1			56.2	1.0	100.0	2.0	R6/7
L&M GLICK 386 R2	50.3			55.6	1.0	100.0	2.0	R6/7
SOUTHERN STATES SS 3914NS R2	50.1	59.5		56.0	1.0	100.0	2.0	R6/7
DYNA-GRO S38LL54	49.9			56.6	1.0	100.0	2.0	R6/7
CZ 3841 LL	49.2	58.3		56.0	1.3	100.0	2.0	R6/7
PFISTER 39R201	48.4			55.9	1.0	100.0	2.0	R6/7
UNISOUTH GENETICS USG 73P93R	48.2	64.6		58.1	1.0	100.0	2.0	R6/7
STINE 38RE02	47.9	59.1		56.5	1.0	33.3	1.3	R6/7
WARREN SEED DS 3838 R2Y	47.9	59.4		56.4	1.3	100.0	2.0	R6/7
SYNGENTA S39-U2	47.4			55.7	1.0	100.0	2.0	R6/7
DYNA-GRO S39RY65	47.2	59.0		55.0	1.0	100.0	2.0	R6/7
PFISTER 38R202	46.7			55.3	1.0	100.0	2.0	R6/7
ARMOR 37-R33	46.7			56.5	1.0	100.0	2.0	R6/7
GREAT LAKES HYBRIDS GL3659R2	46.7			56.0	1.3	100.0	2.0	R6/7
SEED CONSULTANTS SCS 9363RR™	46.4	59.7		56.5	1.0	100.0	2.0	R6/7
PIONEER P32T16R	46.3			56.2	1.3	100.0	2.0	R6/7
PFISTER 39R29	45.4	58.2		56.3	1.0	100.0	2.0	R6/7
WARREN SEED DS 3780	39.6			56.5	1.0	100.0	2.0	R6/7
AVERAGE Group III	**51.0**	**61.5**	**NA**	**56.2**	**1.1**			
LSD (0.10)	4.7	3.5						
C.V.	6.8	6.4						
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)								
PROGENY 4247 LL	**62.4**			53.9	1.0	0.0	1.0	R6
BECK 424L4	59.6			55.5	1.0	0.0	1.0	R6
CZ 4105 LL	59.4			55.3	1.0	33.3	1.3	R6
STEWART 4113R2	58.7	**66.0**	**61.7**	52.3	1.0	100.0	2.0	R6
CAVERNDALE CF 415 LLn	57.9			55.7	1.0	0.0	1.0	R6
ARMOR 41X5L	57.9			56.4	1.0	0.0	1.0	R6
CAVERNDALE CF 426 RR2Y/STSn	57.8	61.5		54.7	1.3	100.0	2.0	R6
CZ 4181 RY	57.8	62.8		54.4	1.3	100.0	2.0	R6
REV® 44A14™	57.6			53.6	1.0	33.3	1.3	R6
PFISTER 41RS01	57.5			56.3	1.0	100.0	2.0	R6
PIONEER P45T11 R	57.5	59.1		50.5	1.0	0.0	1.0	R6
STINE 41LF32	56.7			55.5	1.0	0.0	1.0	R6
STEWART 4415R2	56.3			53.2	1.0	66.7	1.7	R6
L&M GLICK 412 R2	55.3			55.2	1.0	100.0	2.0	R6

Table 12. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
SEED CONSULTANTS SCS 9456SR™	54.7			45.4	1.0	0.0	1.0	R6
HS 45A50	54.6			48.9	1.3	100.0	2.0	R6
LG SEEDS C4322R2	54.6	63.6		54.7	1.3	100.0	2.0	R6
DYNA-GRO 39RY43	54.4	60.6	58.2	53.9	1.0	100.0	2.0	R6
ASGROW AG4135	54.4	57.8		55.0	1.0	100.0	2.0	R6
CHANNEL 4009R2	54.4			55.9	1.0	100.0	2.0	R6
WARREN SEED DS 43-003	54.4			52.8	1.0	100.0	2.0	R6
CAVERNDALE CF 404n	54.3			54.7	1.0	33.3	1.3	R6
PFISTER 43R201	54.1			54.0	1.0	66.7	1.7	R6
STINE 42LF22	54.1			55.4	1.0	0.0	1.0	R6
LG SEEDS C4221R2	53.8			53.0	1.0	100.0	2.0	R6
UNISOUTH GENETICS USG 74F53R	53.7	62.7		48.9	1.3	100.0	2.0	R6
STEWART 4016R2	53.6			55.7	1.0	100.0	2.0	R6
WARREN SEED DS 4340 R2Y	53.6	58.3	56.4	53.3	1.0	100.0	2.0	R6
UNISOUTH GENETICS USG 74G23L	53.0			55.2	1.0	0.0	1.0	R6
UNISOUTH GENETICS USG 74F24RS	52.8	57.7		54.3	1.0	100.0	2.0	R6
PROGENY 4211 RY	52.8	59.6	58.9	53.9	1.3	100.0	2.0	R6
ARMOR AR4205	52.7			54.6	1.0	100.0	2.0	R6
ARMOR 43-R51	52.7			53.4	1.0	100.0	2.0	R6
STINE 40RF02	52.1			55.1	1.0	100.0	2.0	R6
DYNA-GRO S43RY95	52.0	57.6		51.8	1.0	100.0	2.0	R6
STINE 43RE02	51.7	62.3		49.2	1.0	100.0	2.0	R6
BECK 449L4	51.6			55.0	1.0	100.0	2.0	R6
SOUTHERN STATES LL 423N	50.9	59.6	57.6	55.1	1.0	0.0	1.0	R6
DYNA-GRO S42RS03	50.8	55.6		54.4	1.0	100.0	2.0	R6
ASGROW AG4232	50.8	56.7	57.4	54.7	1.3	100.0	2.0	R6
SYNGENTA S40-N2	50.5	55.6		56.0	1.0	0.0	1.0	R6
CHANNEL 4508R2/SR	50.4	58.1		54.6	1.0	40.0	1.7	R6
ASGROW AG4336	50.2			56.7	1.0	100.0	2.0	R6
SYNGENTA S45-V8	50.1	60.6	59.7	55.4	1.0	0.0	1.0	R6
ARMOR 440L	50.1			53.9	1.0	100.0	2.0	R6
DYNA-GRO S44LS76	50.1			51.9	1.0	33.3	1.3	R6
STEYER 4303R2	50.0	58.5		53.3	1.0	100.0	2.0	R6
STEWART 4516R2	49.8			49.1	1.0	100.0	2.0	R6
STEYER 4402R2	49.4			50.0	1.0	100.0	2.0	R6
SOUTHERN STATES SS 4215NS R2	49.1			53.3	1.0	100.0	2.0	R6
ASGROW AG4034	48.8	57.9		55.3	1.0	100.0	2.0	R6
DYNA-GRO S42RY46	48.8			55.7	1.0	100.0	2.0	R6
STINE 45LF22	47.6			55.8	1.0	100.0	2.0	R6
ARMOR 43-R43	47.3	59.0	58.7	52.9	1.0	66.7	1.7	R6
GREAT LAKES HYBRIDS GL4354NR2	47.3			54.5	1.0	100.0	2.0	R6
PROGENY 4214 RY	47.3			53.2	1.0	100.0	2.0	R6
PIONEER 94Y23	47.3	52.7	54.0	53.2	1.0	100.0	2.0	R6
SYNGENTA S45-R7	47.2			56.5	1.0	100.0	2.0	R6
SOUTHERN STATES SS 4514N R2	47.1	59.0		49.9	1.0	100.0	2.0	R6
SYNGENTA S41-J6	47.0	52.9	51.9	52.4	1.0	66.7	1.7	R6
SEED CONSULTANTS SCS 9412RR™	46.9			57.1	1.0	100.0	2.0	R6
CHANNEL 4209R2	46.3			53.6	1.0	100.0	2.0	R6
PFISTER 45R23	46.0			49.1	1.3	0.0	1.0	R6
CHANNEL 4407R2/STS	45.8	54.9		53.4	1.0	100.0	2.0	R6
BECK XL 453R4™*	45.8			46.0	1.0	0.0	1.0	R6
CZ 4590 RY	45.2			51.3	1.0	100.0	2.0	R6
CAVERNDALE CF 452 RR2Yn	44.3			47.8	1.3	100.0	2.0	R6
UNISOUTH GENETICS USG 74A33R	44.1	52.4	53.1	51.4	1.0	100.0	2.0	R6
CZ 4540 LL	43.1			51.6	1.0	0.0	1.0	R6
ARMOR AR4504	42.3	53.6		49.6	1.0	100.0	2.0	R6
STEWART 4216R2	41.1			53.5	1.0	100.0	2.0	R6
SOUTHERN STATES SS 4414N R2	38.8			54.1	1.0	100.0	2.0	R6
AVERAGE Group IV Early	**51.4**	**58.4**	**57.1**	**53.4**	**1.0**			
LSD (0.10)	4.8	4.8	3.6					
C.V.	7.0	9.1	8.4					
MATURITY GROUP IV LATE (relative MG 4.6-4.9)								
PIONEER P46T01R	**74.4**			54.5	2.0	0.0	1.0	R6
ARMOR AR4615	70.1			55.4	1.3	0.0	1.0	R5/6

Table 12. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
BECK 474L4	68.8			54.5	1.3	33.3	1.3	R6
ARMOR 47-R70	68.6			53.8	3.3	0.0	1.0	R5/6
PIONEER P48T36R	64.9	61.8	**65.2**	54.1	1.0	0.0	1.0	R6
PROGENY 4788 RY	64.9	61.7		51.7	1.3	3.3	1.3	R6
PIONEER P47T36R	64.6	**64.9**	65.0	55.8	1.0	0.0	1.0	R6
SYNGENTA 48-D9	64.0			53.6	1.3	0.0	1.0	R6
SYNGENTA S47-K5	63.9	62.8		53.8	1.0	0.0	1.0	R5/6
ASGROW AG4632	63.8	62.1	58.8	54.9	1.0	0.0	1.0	R5/6
WARREN SEED DS 4633 R2Y	63.7	63.0	61.0	55.1	1.7	0.0	1.0	R5/6
CAVERNDALE CF 479 LLn	62.8	63.2		54.6	1.0	0.0	1.0	R6
PROGENY 4613 RYS	62.7	60.4	59.0	54.5	1.3	66.7	1.7	R6
REV® 47R34™	62.4	61.7	63.1	55.8	2.3	0.0	1.0	R6
ARMOR 46-R65	62.3	62.1		54.8	1.3	100.0	2.0	R5/6
PROGENY 4850 RYS	62.2	60.4	59.3	54.6	1.3	100.0	2.0	R6
REV® 49A55™	61.9	62.8		53.3	1.3	0.0	1.0	R6
BECK XL 493R4™*	61.4	62.6		53.4	1.0	0.0	1.0	R6
PIONEER P49T97R	61.1	61.9	59.6	55.1	1.0	0.0	1.0	R6
ASGROW AG4835	60.4	60.5		54.8	1.0	100.0	2.0	R5/6
BECK 481R2	60.1			55.6	1.3	100.0	2.0	R6
HS 46A50	59.5			55.5	1.3	0.0	1.0	R6
PROGENY 4757 RY	59.4			54.4	3.0	0.0	1.0	R6
PFISTER 47R22	58.9			55.2	1.3	66.7	1.7	R6
STEYER 4602R2	58.9	59.9		49.1	1.3	100.0	2.0	R6
REV® 49R94™	58.8	59.9	60.8	54.2	1.0	0.0	1.0	R6
DYNA-GRO S47RY13	58.8	60.0	61.8	53.8	1.0	66.7	1.7	R5/6
CHANNEL 4806 R2/STS	58.2			55.2	1.7	0.0	1.0	R6
ARMOR 49-R56	58.1	58.4	58.3	55.3	1.0	66.7	1.7	R5/6
SEED CONSULTANTS SCS 9474RR™	57.8	58.8	62.5	54.6	1.3	0.0	1.0	R6
LG SEEDS C4994R2	57.5			55.3	1.7	33.3	1.3	R5/6
REV® 47R53™	57.5	57.5	57.3	53.1	1.7	66.7	1.7	R6
ARMOR 47-L10	57.4			53.2	1.0	0.0	1.0	R5/6
DYNA-GRO S46RY85	57.2	58.3		54.5	2.0	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS UA5014C	57.2	53.1		56.6	1.0	0.0	1.0	R6
HBK RY4721	56.9	58.2	59.7	53.9	1.7	40.0	1.7	R6
DYNA-GRO S48RS53	56.8	58.1	57.0	54.0	1.7	100.0	2.0	R5/6
STINE 47RC32	56.8			55.2	1.3	0.0	1.0	R6
PROGENY 4814 LLS	56.3			34.1	2.3	0.0	1.0	R6
HBK LL4653	55.9	57.0		54.5	1.0	70.0	2.0	R5/6
WARREN SEED DS 4720	55.3			53.3	1.0	33.3	1.3	R5/6
LG SEEDS C4780R2	54.6	58.2	59.7	55.0	1.3	66.7	1.7	R5/6
STINE 49LD02	54.6			52.5	1.0	33.3	1.3	R6
UNISOUTH GENETICS USG ELLIS	54.4	52.5		54.4	1.0	0.0	1.0	R6
PROGENY 4900 RY	54.2	55.8	57.7	54.7	1.0	33.3	1.3	R5/6
SOUTHERN STATES SS 4725NS R2	54.2	57.8	60.0	54.7	1.3	66.7	1.7	R5/6
DYNA-GRO S49RY25	53.9	56.0		55.9	1.3	100.0	2.0	R6
HS 48A22	53.9	58.0		55.1	1.7	100.0	2.0	R6
BECK XL 465R4™*	53.8	58.2		53.2	1.0	0.0	1.0	R5
REV® 49A75™	53.5	55.0		56.0	2.0	100.0	2.0	R6
SOUTHERN STATES SS 4917N R2	53.3	55.2	59.9	54.9	1.0	100.0	2.0	R6
CZ 4818 LL	53.1			53.8	2.0	0.0	1.0	R5/6
SYNGENTA S46-L2	52.9	56.4	55.5	53.6	1.7	100.0	2.0	R6
PROGENY 4930 LL	52.9	54.5	54.2	50.0	1.3	0.0	1.0	R6
SOUTHERN STATES SS 4714NS R2	52.7	57.7		55.2	1.0	66.7	1.7	R6
GREAT LAKES HYBRIDS GL4729R2	52.5	55.6	61.8	54.5	1.0	100.0	2.0	R6
ARMOR 49X5L	51.0			50.2	1.0	0.0	1.0	R5/6
CZ 4959 RY	50.9	53.3		56.0	1.0	100.0	2.0	R5/6
DYNA-GRO S49LL34	49.5			51.1	1.0	0.0	1.0	R6
SOUTHERN STATES SS 4915NS R2	48.8			54.8	1.3	66.7	1.7	R6
STEWART 4714R2	48.6			54.6	1.3	33.3	1.3	R6
ARMOR 48-C5	46.9			56.6	2.0	100.0	2.0	R5/6
WARREN SEED DS 4850 R2Y/STS	46.5	51.8	55.8	54.5	1.0	3.3	1.3	R5/6
CAVERNDALE CF 472 RR2Y/STSn	46.3	53.2		52.1	1.3	100.0	2.0	R5/6
ARMOR 49-R44	46.1			54.0	1.7	100.0	2.0	R5/6
ASGROW AG4934	46.1	53.6	55.4	55.1	1.0	100.0	2.0	R6
HBK LL4850	46.1	48.8	51.5	53.8	1.0	100.0	2.0	R6
HBK LL4950	45.8	51.6	54.6	48.6	1.0	6.7	1.3	R6

Table 12. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	2014-15	2013-15	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[C] INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE
HBK LL4953	45.5	48.6		51.4	1.0	0.0	1.0	R6
REV® 49A14™	44.4	51.7		54.5	3.7	100.0	2.0	R6
UNIVERSITY OF ARKANSAS R09-1589	43.4			55.4	1.3	33.3	1.3	R6
STEYER 4703R2	43.1			55.1	1.3	100.0	2.0	R6
ARMOR 497L	41.1			54.0	1.7	66.7	1.7	R6
AVERAGE Group IV Late	**56.1**	**57.8**	**59.0**	**53.9**	**1.4**			
LSD (0.10)	4.4	3.1	3.0					
C.V.	5.8	5.7	6.7					
MATURITY GROUP V (relative MG 5.0-5.9)								
BECK 522L4	**59.5**	53.2	**56.9**	50.1	2.0	0.0	1.0	R5
REV® 51A56™	58.2			52.6	2.3	0.0	1.0	R5/6
UNIVERSITY OF ARKANSAS R11-89RY	55.7			46.0	3.3	66.7	2.0	R5
ARMOR 50-R21	53.9			49.3	2.3	66.7	1.7	R5
UNIVERSITY OF ARKANSAS R10-197RY	53.0			48.3	1.3	100.0	2.0	R5/6
REV® 52A94™	52.7	49.1		52.1	3.7	0.0	1.0	R5
PIONEER P50T64R	52.2	**55.0**		54.0	2.3	100.0	2.0	R5/6
ARMOR AR5205	51.2			49.8	2.7	100.0	2.0	R5
EXP USDA-ARS JTN-5110	49.9	47.6	49.2	44.6	3.0	0.0	1.0	R5/6
REV® 54R84™	48.3	47.5	49.3	41.5	3.7	100.0	2.0	R5
ARMOR 53-L55	48.1			46.5	1.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R09-430	47.8			53.8	3.3	0.0	1.0	R5/6
DYNA-GRO S52LL66	46.4			45.5	1.7	0.0	1.0	R5
DYNA-GRO S51RY45	46.2	46.7		53.4	1.0	100.0	2.0	R5
ARMOR 51X5L	46.0			47.0	2.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5414RR	44.4	44.3	49.9	47.4	4.3	100.0	2.0	R6
REV® 55R53™	44.0	47.1	51.7	43.2	2.3	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS OSAGE	43.8	44.0	50.4	44.3	2.0	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5814HP	42.7			26.5	2.7	33.3	1.3	R6
DYNA-GRO SX15852RS	42.5			52.9	3.3	100.0	2.0	R6
ARMOR AR5004	42.1			52.3	2.3	100.0	2.0	R5
ASGROW AG5335	41.5			53.2	2.3	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5612	40.4	44.8	47.2	44.7	3.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5213C	39.6	43.5	47.3	51.7	3.7	100.0	2.0	R5/6
AVERAGE Group V	**47.9**	**47.5**	**50.2**	**47.9**	**2.6**			
LSD (0.10)	4.0	3.2	3.1					
C.V.	6.0	6.9	8.0					

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

[B] *The data used were the analysis were collected in Hancock Co. in 2015, and in Daviess Co. in 2014. No data were collected in 2013.*

[C] *For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion). Three replicates per variety were rated.*

AGRONOMIC INFORMATION

Location	Hancock County
Soil type	Elk silt loam
Previous crop	soybean
Soil test	pH6.6 K316 P134
SCN test	6000 (moderate)
Fertilizer/limeapplied	(Fall - for corn, around soybean plots: 100lb Phosphate – 150lb 60-0-0 Urea Potash)
Agricultural practice	No-till
Pre-Planting treatments	Early May: Glyphosate, Verdict, Synchrony
Planting date	05/20
Post-Planting treatments	6/24: First Rate, Reflex, Intensity One
Harvest dates	MG II & III 09/21 MG IV Early 09/22 MG IV Late & V 10/07
50% chance of killing frost	10/23

Precipitation and temperature history (Philpot, KY Station)

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	5.15	45	75	-1
April	6.08	59	81	36
May	2.59	69	88	43
June	5.31	76	92	52
July	4.77	79	93	65
August	2.21	74	92	52
September	0.49	72	95	45
October (10/01-07)	0.50	64	84	

Table 13. 2015 Kentucky Soybean Variety Performance Tests, Pulaski County

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
MATURITY GROUP II (relative MG 2.0-2.9)						
ASGROW AG2935	**51.3**	54.7	1	100	2	R6/7
LG SEEDS C2744R2	43.0	53.1	1	100	2	R6/7
PIONEER P28T33R	42.1	53.1	1	100	2	R6/7
PIONEER P28T08R	41.6	51.7	1	100	2	R6/7
CAVERNDALE CF 286 RR2Y/STSn	40.3	53.8	1	0	1	R6/7
ASGROW AG2836	40.1	53.2	1	0	1	R6/7
AVERAGE Group II	**43.1**	**53.3**	**1.0**			
LSD (0.10)	3.8					
C.V.	6.0					
MATURITY GROUP III (relative MG 3.0-3.9)						
REV® 39A35™	**69.5**	54.5	1.3	100.0	2.0	R6
ARMOR AR3915	65.4	53.4	1.0	100.0	2.0	R6
GREAT LAKES HYBRIDS GL3852NR2	65.1	54.3	1.0	0.0	1.0	R6
SEED CO0ULTANTS SCS 9385RR™	63.7	54.9	1.7	100.0	2.0	R6
SOUTHERN STATES SS 3813N R2	63.0	53.5	1.0	100.0	2.0	R6
UNISOUTH GENETICS USG 73P93R	60.0	53.0	1.0	100.0	2.0	R6
PIONEER 93Y92	59.3	53.4	1.0	0.0	1.0	R6
SOUTHERN STATES SS 3914NS R2	58.2	54.0	1.0	100.0	2.0	R6
WARREN SEED DS 3780	58.1	54.4	1.0	100.0	2.0	R6
ASGROW AG3936	57.9	54.4	1.3	100.0	2.0	R6
GREAT LAKES HYBRIDS GL3729R2	57.6	53.7	1.3	100.0	2.0	R6
SYNGENTA S35-C3	57.6	53.9	1.0	100.0	2.0	R6
SYNGENTA S39-T3	56.9	53.7	1.0	100.0	2.0	R6
CZ 3841 LL	56.7	53.8	1.3	100.0	2.0	R6
DYNA-GRO 32RY39	56.4	54.6	1.0	100.0	2.0	R6
DYNA-GRO S38LL54	56.3	53.4	1.0	100.0	2.0	R6
SEED CO0ULTANTS SCS 9393RR™	55.3	53.9	1.0	0.0	1.0	R6
ARMOR AR3905	55.2	54.4	1.3	100.0	2.0	R6
L&M GLICK 386 R2	54.6	53.9	1.0	100.0	2.0	R6
LG SEEDS C3915R2	54.1	54.7	1.0	100.0	2.0	R6
WARREN SEED DS 3838 R2Y	53.9	53.6	1.0	100.0	2.0	R6
PFISTER 39R201	53.3	54.0	1.0	100.0	2.0	R6
SYNGENTA S39-U2	52.6	53.6	1.0	100.0	2.0	R6
DYNA-GRO S39RY65	52.5	53.3	1.0	100.0	2.0	R6
PFISTER 38R202	52.3	53.0	1.3	100.0	2.0	R6
PIONEER P35T58R	50.9	53.8	1.0	100.0	2.0	R6
PIONEER P32T16R	50.0	52.8	1.0	100.0	2.0	R6
ARMOR 37-R33	49.8	54.1	1.0	100.0	2.0	R6
SEED CO0ULTANTS SCS 9363RR™	49.3	53.6	1.3	100.0	2.0	R6
GREAT LAKES HYBRIDS GL3659R2	48.6	53.6	1.3	100.0	2.0	R6
STINE 38RE02	48.2	53.3	1.0	0.0	1.0	R6
CZ 3945 LL	47.8	53.0	1.0	0.0	1.0	R6
PFISTER 39R29	47.1	53.3	1.0	100.0	2.0	R6
CZ 3560 RY	45.5	53.6	1.7	0.0	1.0	R6
STEYER 3301R2	42.9	53.6	1.0	0.0	1.0	R6
AVERAGE Group III	**55.0**	**53.8**	**1.1**			
LSD (0.10)	5.2					
C.V.	7.0					
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)						
UNISOUTH GENETICS USG 74G23L	**71.0**	55.5	1.0	0.0	1.0	R5/6
PFISTER 41RS01	70.9	54.5	1.0	0.0	1.0	R5/6
CHANNEL 4508R2/SR	69.0	54.6	1.3	100.0	2.0	R5/6
SEED CO0ULTANTS SCS 9456SR™	68.9	55.2	1.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4215N R2	68.4	53.6	1.3	0.0	1.0	R5/6
ARMOR AR4205	68.1	36.6	1.0	100.0	2.0	R5/6
STEWART 4415R2	67.8	53.6	1.3	0.0	1.0	R5/6
CAVERNDALE CF 452 RR2Yn	67.4	54.8	1.3	100.0	2.0	R5/6
ASGROW AG4336	66.8	54.1	1.3	100.0	2.0	R5/6
BECK XL 453R4™*	66.7	55.7	1.0	0.0	1.0	R5/6
CAVERNDALE CF 426 RR2Y/STSn	66.5	54.3	1.3	100.0	2.0	R5/6
ASGROW AG4034	65.5	54.2	1.0	100.0	2.0	R5/6
ARMOR 43-R51	64.9	54.2	1.0	100.0	2.0	R5/6

Table 13. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
LG SEEDS C4322R2	64.5	55.2	1.3	100.0	2.0	R5/6
SYNGENTA S45-R7	64.0	54.0	1.0	100.0	2.0	R5/6
PFISTER 45R23	63.8	55.0	1.0	0.0	1.0	R5/6
DYNA-GRO S42RS03	63.7	52.6	1.0	100.0	2.0	R5/6
PIONEER P45T11 R	63.6	54.4	1.0	0.0	1.0	R5/6
STEWART 4113R2	63.3	54.7	1.3	100.0	2.0	R5/6
L&M GLICK 412 R2	63.0	54.0	1.0	100.0	2.0	R5/6
STEYER 4402R2	62.4	54.5	1.0	100.0	2.0	R5/6
WARREN SEED DS 43-003	62.3	53.8	1.0	0.0	1.0	R5/6
BECK 449L4	61.8	54.1	1.0	100.0	2.0	R5/6
SOUTHERN STATES SS 4514N R2	61.7	54.8	1.3	100.0	2.0	R5/6
DYNA-GRO S43RY95	61.6	54.1	1.3	100.0	2.0	R5/6
PFISTER 43R201	61.4	53.8	1.0	100.0	2.0	R5/6
SYNGENTA S41-J6	61.4	54.7	1.3	100.0	2.0	R5/6
PROGENY 4247 LL	61.2	54.5	1.0	0.0	1.0	R5/6
LG SEEDS C4221R2	61.0	54.0	1.0	0.0	1.0	R5/6
SOUTHERN STATES SS 4414N R2	60.8	54.5	1.0	100.0	2.0	R5/6
HS 45A50	60.7	55.0	1.0	100.0	2.0	R5/6
PIONEER 94Y23	60.6	54.9	1.0	100.0	2.0	R5/6
STEYER 4303R2	60.6	53.7	1.7	100.0	2.0	R5/6
SYNGENTA S45-V8	60.5	54.4	1.0	100.0	2.0	R5/6
PROGENY 4214 RY	60.2	54.3	1.0	100.0	2.0	R5/6
ARMOR 440L	59.9	54.1	1.7	100.0	2.0	R5/6
STEWART 4016R2	59.6	54.4	1.0	100.0	2.0	R5/6
BECK 424L4	59.0	54.7	1.0	0.0	1.0	R5/6
ARMOR AR4504	58.7	54.4	1.3	100.0	2.0	R5/6
CZ 4105 LL	58.7	55.0	1.0	100.0	2.0	R5/6
SYNGENTA S40-N2	58.7	54.2	1.0	0.0	1.0	R5/6
CAVERNDALE CF 415 LLn	58.5	54.6	1.0	0.0	1.0	R5/6
SOUTHERN STATES LL 423N	58.4	54.8	1.0	0.0	1.0	R5/6
STEWART 4516R2	58.4	53.8	1.3	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74A33R	58.1	54.7	1.0	0.0	1.0	R5/6
ARM+A65:G98OR 41X5L	58.0	54.5	1.0	0.0	1.0	R5/6
UNISOUTH GENETICS USG 74F24RS	57.9	54.5	1.7	100.0	2.0	R5/6
ARMOR 43-R43	57.2	54.6	1.0	100.0	2.0	R5/6
DYNA-GRO 39RY43	56.9	54.4	1.0	100.0	2.0	R5/6
REV® 44A14™	56.9	54.1	1.0	100.0	2.0	R5/6
ASGROW AG4135	56.7	54.7	1.3	100.0	2.0	R5/6
PROGENY 4211 RY	56.6	54.1	1.3	100.0	2.0	R5/6
DYNA-GRO S42RY46	56.5	54.3	1.0	100.0	2.0	R5/6
GREAT LAKES HYBRIDS GL4354NR2	56.4	54.6	1.0	100.0	2.0	R5/6
STINE 42LF22	56.4	55.4	1.0	100.0	2.0	R5/6
CHANNEL 4209R2	56.2	54.7	1.0	100.0	2.0	R5/6
UNISOUTH GENETICS USG 74F53R	55.0	54.2	1.7	0.0	1.0	R5/6
CHANNEL 4009R2	54.6	49.9	1.0	100.0	2.0	R5/6
CZ 4181 RY	54.6	54.5	1.3	100.0	2.0	R5/6
CZ 4540 LL	54.5	55.6	1.7	0.0	1.0	R5/6
SEED CO0ULTANTS SCS 9412RR™	54.1	55.0	1.0	100.0	2.0	R5/6
DYNA-GRO S44LS76	54.0	54.5	1.0	0.0	1.0	R5/6
STINE 40RF02	54.0	54.2	1.0	100.0	2.0	R5/6
WARREN SEED DS 4340 R2Y	53.2	53.4	1.0	100.0	2.0	R5/6
STINE 43RE02	52.1	54.3	1.3	100.0	2.0	R5/6
STEWART 4216R2	51.7	54.0	1.0	100.0	2.0	R5/6
CZ 4590 RY	50.0	54.9	1.0	100.0	2.0	R5/6
CAVERNDALE CF 404n	49.4	54.8	1.0	0.0	1.0	R5/6
ASGROW AG4232	47.8	53.9	1.7	100.0	2.0	R5/6
STINE 41LF32	47.7	54.9	1.0	0.0	1.0	R5/6
STINE 45LF22	47.4	54.9	1.0	100.0	2.0	R5/6
CHANNEL 4407R2/STS	46.2	53.8	1.0	100.0	2.0	R5/6
AVERAGE Group IV Early	**59.5**	**54.1**	**1.1**			
LSD (0.10)	4.7					
C.V.	5.9					
MATURITY GROUP IV LATE (relative MG 4.6-4.9)						
SOUTHERN STATES SS 4725N R2	**79.2**	55.8	1.0	0.0	1.0	R5/6

Table 13. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	FROGEYE LEAF SPOT[B] SOYBEAN DEVELOPMENT STAGE
CHANNEL 4806 R2/STS	73.0	56.0	1.0	100.0	2.0	R5/6
STEWART 4714R2	72.9	55.9	1.0	100.0	2.0	R5/6
PIONEER P46T01R	72.4	55.2	1.0	0.0	1.0	R5/6
REV® 49A55™	71.4	55.5	1.3	0.0	1.0	R5/6
ASGROW AG4835	70.2	56.2	1.0	100.0	2.0	R5/6
SYNGENTA 48-D9	69.9	54.0	1.0	0.0	1.0	R5/6
BECK XL 493R4™*	69.3	55.6	1.0	0.0	1.0	R5/6
PROGENY 4757 RY	69.2	54.9	1.7	0.0	1.0	R5/6
ARMOR 46-R65	68.9	54.7	1.7	100.0	2.0	R5/6
SOUTHERN STATES SS 4915NS R2	67.7	57.0	1.3	100.0	2.0	R5/6
GREAT LAKES HYBRIDS GL4729R2	67.4	54.8	1.3	0.0	1.0	R5/6
WARREN SEED DS 4633 R2Y	67.3	54.2	1.0	0.0	1.0	R5/6
ARMOR 47-R70	67.2	54.7	1.0	0.0	1.0	R5/6
PROGENY 4788 RY	67.2	55.4	1.0	100.0	2.0	R5/6
STINE 49LD02	66.7	55.6	1.0	0.0	1.0	R5/6
REV® 47R34™	66.6	54.9	1.0	0.0	1.0	R5/6
LG SEEDS C4780R2	66.4	55.8	1.3	100.0	2.0	R5/6
PIONEER P47T36R	66.4	55.6	1.0	0.0	1.0	R5/6
DYNA-GRO S48RS53	65.5	55.9	1.3	0.0	1.0	R5/6
UNISOUTH GENETICS USG ELLIS	65.1	55.8	1.3	0.0	1.0	R5/6
PIONEER P48T36R	64.5	55.0	1.0	0.0	1.0	R5/6
DYNA-GRO S49RY25	64.2	55.2	1.0	100.0	2.0	R5/6
PIONEER P49T97R	64.0	54.6	1.0	0.0	1.0	R5/6
CZ 4818 LL	63.9	55.3	1.7	0.0	1.0	R5/6
PROGENY 4850 RYS	63.9	57.4	1.3	0.0	1.0	R5/6
ARMOR 49-R56	63.8	55.6	1.0	100.0	2.0	R5/6
WARREN SEED DS 4850 R2Y/STS	63.7	56.0	1.0	100.0	2.0	R5/6
REV® 47R53™	63.5	55.0	1.0	0.0	1.0	R5/6
ASGROW AG4632	63.1	54.5	1.3	0.0	1.0	R5/6
SYNGENTA S47-K5	63.1	54.7	1.0	0.0	1.0	R5/6
PFISTER 47R22	63.0	56.9	1.0	100.0	2.0	R5/6
DYNA-GRO S46RY85	62.7	55.0	1.7	100.0	2.0	R5/6
ARMOR 49X5L	62.1	53.2	1.0	0.0	1.0	R5/6
ARMOR 47-L10	61.8	53.6	1.0	0.0	1.0	R5/6
ARMOR AR4615	61.8	54.7	1.0	0.0	1.0	R5/6
STEYER 4602R2	61.7	55.3	1.3	100.0	2.0	R5/6
UNIVERSITY OF ARKANSAS UA5014C	61.6	57.4	1.0	100.0	2.0	R5/6
BECK 481R2	61.4	56.1	1.0	100.0	2.0	R5/6
LG SEEDS C4994R2	61.0	55.5	1.0	100.0	2.0	R5/6
HBK LL4953	60.7	55.3	1.0	100.0	2.0	R5/6
CAVERNDALE CF 479 LLn	60.6	55.3	1.0	0.0	1.0	R5/6
REV® 49R94™	60.5	55.4	1.0	0.0	1.0	R5/6
PROGENY 4814 LLS	60.4	44.5	4.7	0.0	1.0	R5/6
ARMOR 48-C5	60.2	57.0	1.0	100.0	2.0	R5/6
WARREN SEED DS 4720	60.1	55.9	1.0	100.0	2.0	R5/6
HS 46A50	60.0	55.6	1.0	0.0	1.0	R5/6
SEED CO0ULTANTS SCS 9474RR™	59.9	55.6	1.0	0.0	1.0	R5/6
HBK LL4950	59.6	55.7	1.7	0.0	1.0	R5/6
BECK 474L4	59.5	54.6	1.0	0.0	1.0	R5/6
ARMOR 49-R44	58.8	55.5	1.0	100.0	2.0	R5/6
HBK RY4721	58.8	54.8	2.0	100.0	2.0	R5/6
STINE 47RC32	58.7	55.3	1.0	100.0	2.0	R5/6
BECK XL 465R4™*	58.5	55.2	1.0	0.0	1.0	R5/6
PROGENY 4613 RYS	58.5	54.5	1.0	100.0	2.0	R5/6
REV® 49A75™	58.3	55.9	1.7	100.0	2.0	R5/6
CZ 4959 RY	58.1	56.2	1.0	100.0	2.0	R5/6
PROGENY 4900 RY	57.8	54.5	1.0	100.0	2.0	R5/6
CAVERNDALE CF 472 RR2Y/STSn	57.7	55.5	1.0	100.0	2.0	R5/6
HBK LL4850	57.7	53.9	1.0	100.0	2.0	R5/6
HS 48A22	57.1	55.1	1.0	100.0	2.0	R5/6
PROGENY 4930 LL	56.9	55.5	1.0	0.0	1.0	R5/6
HBK LL4653	56.6	55.4	1.0	100.0	2.0	R5/6
ASGROW AG4934	56.5	55.5	1.0	100.0	2.0	R5/6
STEYER 4703R2	56.0	54.0	1.3	100.0	2.0	R5/6
SOUTHERN STATES SS 4714NS R2	55.5	56.5	1.0	100.0	2.0	R5/6

Table 13. *(continued)*

BRAND VARIETY	YIELD (BU/AC)[A] 2015	TEST WEIGHT 2015	LODGING 2015	FROGEYE LEAF SPOT[B] INCIDENCE	FROGEYE LEAF SPOT[B] RATING	SOYBEAN DEVELOPMENT STAGE
UNIVERSITY OF ARKANSAS R09-1589	55.5	56.7	3.7	0.0	1.0	R5/6
DYNA-GRO S49LL34	55.2	55.2	1.0	100.0	2.0	R5/6
SYNGENTA S46-L2	54.9	55.3	1.0	100.0	2.0	R5/6
REV® 49A14™	54.1	54.3	1.7	100.0	2.0	R5/6
SOUTHERN STATES SS 4917N R2	53.0	55.2	1.3	100.0	2.0	R5/6
ARMOR 497L	51.3	56.3	1.3	100.0	2.0	R5/6
DYNA-GRO S47RY13	49.6	55.2	1.0	100.0	2.0	R5/6
AVERAGE Group IV Late	**62.2**	**55.2**	**1.2**			
LSD (0.10)	4.7					
C.V.	5.6					
MATURITY GROUP V (relative MG 5.0-5.9)						
UNIVERSITY OF ARKANSAS UA5814HP	**65.2**	44.3	4.3	0.0	1.0	R5
REV® 51A56™	63.4	55.6	1.0	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R09-430	61.3	54.7	2.0	0.0	1.0	R5
ARMOR 53-L55	59.4	56.4	1.3	0.0	1.0	R5
REV® 52A94™	58.9	54.6	3.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R10-197RY	58.7	56.3	2.3	0.0	1.0	R5
PIONEER P50T64R	58.0	55.0	1.0	100.0	2.0	R5
DYNA-GRO S52LL66	57.6	55.0	1.3	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5213C	57.5	56.7	4.3	100.0	2.0	R5
ARMOR 50-R21	57.3	55.9	1.0	100.0	2.0	R5
ARMOR AR5004	57.2	54.0	1.3	100.0	2.0	R5
REV® 54R84™	56.9	56.6	4.3	100.0	2.0	R5
REV® 55R53™	56.9	54.2	3.3	100.0	2.0	R5
BECK 522L4	56.1	55.6	1.0	0.0	1.0	R5
EXP USDA-ARS JTN-5110	54.3	55.6	2.7	100.0	2.0	R5
ARMOR AR5205	53.1	54.9	1.3	100.0	2.0	R5
UNIVERSITY OF ARKANSAS UA5612	52.3	53.3	4.7	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R11-89RY	52.2	55.1	1.7	100.0	2.0	R5
ASGROW AG5335	51.2	55.1	1.0	100.0	2.0	R5
DYNA-GRO S51RY45	50.7	54.0	1.0	100.0	2.0	R5
ARMOR 51X5L	50.6	55.8	1.0	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5414RR	49.9	55.2	2.3	100.0	2.0	R5
UNIVERSITY OF ARKANSAS OSAGE	49.6	54.7	1.0	100.0	2.0	R5
DYNA-GRO SX15852RS	49.1	54.8	1.3	100.0	2.0	R5
AVERAGE Group V	**55.7**	**54.7**	**2.1**			
LSD (0.10)	4.5					
C.V.	5.9					

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

B For each variety, 1) the disease incidence (DI) was reported as percentage of plants showing leaf symptoms; 2) the disease rating (DR) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1-25% of the leaf surface has lesion, 3 = moderately resistant or 26-49% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or ≥51% of the leaf surface has lesion). One replicate per variety was rated.

AGRONOMIC INFORMATION

Location	Pulaski County
Soil type	70% Mountview Silt Loam 20% Bredfoard silt Loam 10% Frederick Silt Loam
Previous crop	soybean
Soil test	NA
SCN test	0
Fertilizer/lime applied	NA
Agricultural practice	No-till
Pre-Planting treatments	05/04: Glyphosate, 06/10: Glyphosate, FirstRate, Classic
Planting date	06/11
Post-Planting treatments	7/10: Reflex, FirstRate
Harvest dates	10/15 MG II, III, and IV Early 10/16 MG IV Late and V
50% chance of killing frost	10/15

Precipitation and temperature history

	Total Monthly Precipitation (in.)	Temperature (F°) Average Monthly	Highest recorder	Lowest recorded
March	6.08	47	76	-3
April	10.06	58	82	28
May	1.54	67	86	37
June	5.58	73	89	55
July	8.43	75	90	58
August	1.61	71	88	51
September	2.39	69	80	58
October (10/01-16)	2.18	61	72	50

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