

# 2013 Kentucky Soybean Variety Performance Tests

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

Thirty soybean tests were planted in 2013 in Kentucky at the six test locations shown below (see map). Planting dates and other information are shown in Table 1. Data for the maturity groups II and III at the Daviess County locations are not provided to avoid penalizing any variety. (Yield was reduced due to high weed pressure in the field where the two tests were planted.)

## Soybean Variety Performance Tests Website

The Kentucky Grain Crops website (<http://www.uky.edu/Ag/GrainCrops/varietytesting.htm>) provides links to all Kentucky variety test publications and related resources. This site includes a link

to the Soybean Variety Performance Tests website (<http://www.ca.uky.edu/pss/index.php?p=663>), which provides the following features:

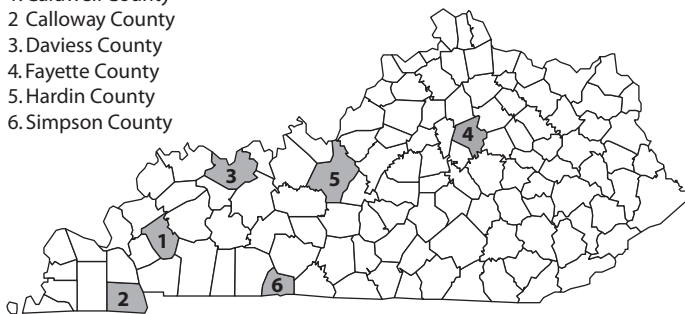
- 2013 Kentucky Soybean Variety Performance Tests (this publication) and archived reports in PDF format
- Archived tables by year in Excel format
- Current year preliminary test results in Excel format
- ListServ signup form to receive emails when the preliminary tables are posted
- Nomination form, cover letter, and instructions for next season test entries
- Locations of the 2013 Kentucky Soybean Variety Performance Tests

## 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 through 10) had three replications (plots) of each variety. The individual plots were 20 feet long and six rows wide with 15 inches between rows. The seeding rate was four to five viable seeds per foot of row, at a planting depth of 1.5 inch. All plots were treated with fertilizers and herbicides before planting and maintained as weed-free as possible during the growing season. All plots were chemically end-trimmed to 16 feet approximately one month after planting.

**Location of the 2013 Kentucky Soybean Variety Performance Tests**

1. Caldwell County
2. Calloway County
3. Daviess County
4. Fayette County
5. Hardin County
6. Simpson County



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**Table 1. Locations, planting dates and harvest dates for the 2013 Kentucky Soybean Variety Performance Tests.**

Test	Site	Collaborator	Planting Dates	Harvest Dates
Caldwell County	Princeton Experiment Station, University of Kentucky	Joe Williams, UK Farm Superintendent	MG II, III, IV Early: 5/15 MG IV Late, V: 5/16	MG II, III: 11/09 MG IV: 11/10 MG V: 11/11
Calloway County	Murray State University	Dr. Ferguson, UK Agronomy Faculty	5/24	MG II, III: 9/27 MG IV Early: 10/10 MG IV Late and V: 11/02
Daviess County	McCornick Farm	Clint Hardy, UK Extension County Agent	6/14	MG IV: 10/25 MG V: 10/26
Fayette County	Lexington Experiment Station, University of Kentucky	David Smith, UK Farm Superintendent	6/12	MG II, III: 11/04 MG IV Early: 11/05 MG IV Late: 11/15 MG V: 11/20
Hardin County	Wooden Farms	Matthews Adams, UK Extension County Agent	MG II, III, IV: 6/03 MG V: 6/04	MG II, III: 10/14 MG IV Early: 10/28 MG IV Late: 11/13 MG V: 11/14
Simpson County	Walnut Grove Farms	Jason Philips, UK Extension County Agent	MG II, III, IV Early: 5/25 MG IV Late, V: 5/26	MG II, III: 10/11 MG IV Early: 10/20 MG IV Late and V: 10/21

Seed source information is located on page 4. Companies could choose to treat their seed with fungicides and insecticides (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; thus, several harvests were made at each location. 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 1000, 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 MS, Juniper Systems, Inc., USA) connected to the monitor, and analyzed with Agrobases GEN II statistical software (Agronomix Software Inc., Canada).
- **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 to 80 percent down; 5 = all plants down. Lodging is reported at all locations.
- **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 have been 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.
- **Protein and oil** concentrations are reported on the basis of 13 percent moisture. Samples were collected at the Calloway, Hardin, and Fayette County locations. Samples will be analyzed with a NIR spectrophotometer (DA 720, Perten Instruments, Sweden). The data will be analyzed with Agrobases GEN II statistical software (Agronomix Software Inc., Canada).

## 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 UK's *Agronomy Notes*, Volume 21, No. 3, "Using Performance Test Results in Soybean Variety Selection in Kentucky"). The data presented in Table 5, State Summary, have been averaged across years and locations and are recommended for evaluating relative variety 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

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

2A. FULL-SEASON						
Target Stand (plants/acre)	Standard Germination	Assumed Stand Loss	Final Seeding Rate (seeds/acre)	Row Spacing (inches)		
				7.5	15	30
				(seeds/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						
Target Stand (plants/acre)	Standard Germination	Assumed Stand Loss	Final Seeding Rate (seeds/acre)	Row Spacing (inches)		
				7.5	15	30
				(seeds/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

each maturity group should be used. The significance level in Tables 5 through 11 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 your 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*, Volume 6, Issue 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 varieties those

that have the highest average oil and protein concentrations. This approach should give a variety that has the best chance of producing acceptable yield and meeting 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*, Volume 25, No. 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 11 are average dates over 30 years. Actual dates will vary from year to year. For the date of a 1-year-out-of-10 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*, available at both county extension offices and on the Grain Crops website). The importance of resistant varieties has increased as the number of acres affected by SCN has increased. SCN occurs in 32 western Kentucky counties, representing 90 percent of the state's soybean acreage. Low levels of SCN show few visible symptoms but can cause yield losses of up to 25%.

The level of SCN infestation as well as the SCN race can be determined through the SCN laboratory at the UK Research and Education Center at Princeton. Fields should be tested for SCN. Contact the county extension offices for more information on collecting and submitting samples.

Diseases (SMV, SDS, Stem Canker) may cause yield loss if soybean plants are infected prior to flowering. Planting disease-resistant or disease-tolerant vari-

eties will help eliminate this possible yield loss. Growers should review Table 3 for disease resistance/tolerance ratings.

Table 5, which consists of a summary of the six 2013 full-season tests, 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*, Vol. 2, No. 3, pp. 141-145). The full-season environment that maximizes gain is a better indicator of performance than late-planted soybeans that have reduced yields. The data from five 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

Wet and cool conditions left over from March and April 2013 brought a slow start to the month of May. Monthly temperatures averaged 66 degrees across the state, 2 degrees above normal. Rainfall totaled 4.51 inches for the month.

June 2013 was the 11th wettest month on record since 1895, with precipitations totaling 6.01 inches statewide, 1.59 inches above normal. A slow moving front at the beginning of the month brought most of the rainfall. Strong and severe thunderstorms on the 26th produced damaging winds and heavy rainfall. Maximum temperatures from the second week to the end of the month remained in the low to mid-90s. The monthly average temperature was 74 degrees statewide, 2 degrees warmer than normal.

July 2013 was the 12th coldest July on record. Temperatures remained in the upper 70s to the lower 80s for much of the month, with an average of 74 degrees statewide (2 degrees cooler than normal). Only one week in the middle of the month really felt like summer. Warm and moist air from the south brought temperatures to upper 80s and lower 90s and dew points to the low 70s. Cold fronts on the 23rd and 27th reinforced cool and dry air conditions. Most of the rain came during the first week of the month with precipitation totaling 6.16 inches statewide, 1.81 inches above normal.

Cool conditions in August gave the impression that fall started early this year. Temperatures dropped to the low 50s on the 15th, even low 40s in part of the state, nearly 20 degrees below normal. Temperatures recovered the last two weeks of the month, reaching the upper 80s and 90s. Temperatures averaged 74 degrees, 2 degrees cooler than normal, for the month. Most of the rain came during the first two weeks of the month. Precipitation totaled 3.96 inches statewide.

September was typically one of the driest months of the year. The conditions remained dry, except for the third week when a cold front brought most of the rainfall for the month. Temperatures averaged 70 degrees. Precipitation totaled 3.08 inches statewide.

Temperatures for October averaged 58 degrees across the state. The first week of the month, high temperatures were in the low 80s, 7 degrees above normal. Temperatures then started to cool off, and dropped to the mid 30s by mid-month, resulting in the first frost of the season. By late October, low temperatures across the state averaged in the mid to upper 20s, 10 degrees below normal. A couple of systems during the first weekend of the month and on the 31st brought significant rainfall. The second system came with wind gusts exceeding 50 mph and thunderstorms. The state received a total of 3.55 inches of rain for the month.

November saw very mixed weather conditions. Temperatures warmed early in the month, with highs in the low- to mid-60s. A cold front then swept through the region with winds becoming breezy and rainfall totaling 0.25 to 0.5 inch. Temperatures remained in the 50s until an arctic cold front on the 11th brought the first snowfall of the season, with sub-freezing conditions. A very strong storm system followed on the 17th, with temperatures in the mid-60s. Temperatures then dropped to mid- to upper 40s on the 19th. Precipitations totaled 1.08 inches statewide on the 19th. (Sources: [www.kymesonet.gov](http://www.kymesonet.gov), [www.nws.noaa.gov](http://www.nws.noaa.gov), and [www.agwx.ca.uky.edu/annual.shtml](http://www.agwx.ca.uky.edu/annual.shtml).)

More detailed precipitation and temperature information for each test location is provided along with Tables 6 through 11, in the Agronomic Information sections.



## Soybean Production Information

The Kentucky Cooperative Extension Service has a series of publications, *Soybean Production in Kentucky*, which contains 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)*

These publications, including PPA-42, *Soybean Cyst Nematode*, and the *Corn & Soybean Newsletter* are available online at the Grain Crops website (<http://www.uky.edu/Ag/GrainCrops/varietytesting.htm>). Table 2 is an updated planting guide for your convenience. For additional research on seeding rates, see the *Corn & Soybean News*, Volume 6, Issue 2 (“Soybean Population and Yield”), and Volume 7, Issue 4 (“Soybean Seed Rates”). The most recent research suggests that a final stand of 100,000 plants per acre is more than 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 minimal with warm conditions and adequate soil moisture.

## Sources of Seeds

The seeds planted in the 2013 Soybean Variety Performance Tests were acquired from the following sources:

### Armor Seed

Scottie Blanchard ..... 870-579-2286  
PO Box 9, Waldenburg AR 72475  
scottieblanchard@armorseed.com

ARMOR 39-R16	ARMOR 44-R08	ARMOR 45-R60
ARMOR 47-R13	ARMOR 49-C3	ARMOR 49-R56
ARMOR X1401	ARMOR X1406	ARMOR X1408
ARMOR X1409	ARMOR X1410	ARMOR X1413
ARMOR X47C	ARMOR X48C	ARMOR X49C

### Bayer CropScience

Lucas Owens ..... 731-793-3530  
Lucas.owens@bayer.com

HORNBECK HBK L4850	HORNBECK HBK L4950
HORNBECK HBK L5350	HORNBECK HBK RY4620
HORNBECK HBK RY4721	HORNBECK HBK RY5221
HORNBECK HBK RY5421	

In November 2013 an estimated 1.64 million acres of soybeans were harvested in the state of Kentucky. The yield estimate on November 1st was 49 bushels per acre, 9 bushels above 2012. Soybean production for Kentucky was forecast at 80.4 million bushels on November 1st, 37 percent above 2012. Soybean price reached \$13.40 per bushel in Kentucky in August. (Sources: USDA-NASS Crop Production ISSN: 1936-3737, and Kentucky AgriNews USDA-NASS: 32[11]).

## 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 kind and variety for each agricultural seed component present in excess of 5 percent of the whole and the percentage by weight of each component. All soybean seed blends should be labeled as to the percentage of each variety that makes up the mixture. All soybean seed must be labeled by variety name; the term “variety unknown” may no longer be used in place of a variety designation for soybeans.

## Acknowledgments

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

- The McCornick family in Daviess County, the Halcomb family in Simpson County (Walnut Grove Farms), and the Wooden family in Hardin County (Wooden Farms) for hosting the 2013 tests
- Dr. Pfeiffer, Cam Kenimer, and Ronald Curd (University of Kentucky) for their input and support during the 2013 season

### Beck's Hybrids

Doug Clouser ..... 800-937-2325  
6767 East 276th Street, Atlanta IN 46031  
dougc@beckshybrids.com

BECK 391R4TM*	BECK 418NRTM*
BECK 423NL	BECK 444NRTM*
BECK 459L4TM*	BECK 477NRTM*
BECK 483NL	BECK 511R4TM*
BECK 522L4	

### BioGene Seeds

Drew Lawwill ..... 888-862-3276  
5477 Tri-County Hwy, Sardania, OH 45171  
drew@biogeneseeds.com  
BIOGENE BG 7421      BIOGENE BG 7441

- Joshua Penna (student, University of Kentucky) for his help with seed packaging
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- The farm crew at the UK Experimental Station in Princeton for their help with agronomic management and harvest at the Calloway County location
- Jason Robertson and the farm crew at Murray State University for their help with agronomic management and harvest at the Caldwell County location
- Dr. Hershman (University of Kentucky), Southern States Coop and Crop Production Services in Franklin for their help with disease rating, agronomic management, and harvest at the Simpson County location

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Fax: 859-323-1952  
Web: <http://www2.ca.uky.edu/pss/index.php?p=663>

### Caverndale Farms Brand Seeds

Barry Welty ..... 859-236-2150  
1921 Bluegrass Pike, Danville KY 40422  
bwelty@kywimax.com  
CAVERNDALE CF 286 RR2Y/STS<sub>n</sub>  
CAVERNDALE CF 380 RR2Y<sub>n</sub>  
CAVERNDALE CF EXP 416 RR2Y<sub>n</sub>  
CAVERNDALE CF 425 LL<sub>n</sub>  
CAVERNDALE CF 456 RR2Y/STS<sub>n</sub>  
CAVERNDALE CF 466 RR2Y<sub>n</sub>  
CAVERNDALE CF 469 LL/STS<sub>n</sub>  
CAVERNDALE CF 485 LL<sub>n</sub>  
CAVERNDALE CF 486 RR2Y/STS<sub>n</sub>  
CAVERNDALE CF 496 RR2Y<sub>n</sub>

**Delta Grow Seed**

Lee Hughes.....800-530-7933  
 220 NW 2nd, ProBox 219, England AR 72046  
 leehughes19@hotmail.com  
 DELTA GROW 4670 RR2  
 DELTA GROW 4755 RR2  
 DELTA GROW 4765 RR2/STS  
 DELTA GROW 4825 RR2/STS  
 DELTA GROW 4867 LL  
 DELTA GROW 4880 RR  
 DELTA GROW 4925 RR2  
 DELTA GROW 4940 RR  
 DELTA GROW 4967 LL  
 DELTA GROW 4981 LL/STS  
 DELTA GROW 4990 LL  
 DELTA GROW 5130 RR2  
 DELTA GROW 5361 LL  
 DELTA GROW 5461 LL  
 DELTA GROW 5481 LL  
 DELTA GROW 5625 RR2

**DuPont Pioneer**

George Stabler .....256-650-4223  
 Eastern Business Unit, 59 Griel Parkway,  
 Suite 200, Delaware OH 43015  
 George.Stabler@pioneer.com  
 PIONEER 39T67R PIONEER 93Y84  
 PIONEER 93Y92 PIONEER 94Y23  
 PIONEER 94Y50 PIONEER 94Y70  
 PIONEER 95Y10 PIONEER P35T58R  
 PIONEER P46T21R PIONEER P47T36R  
 PIONEER P48T53R PIONEER P49T97R  
 PIONEER P50T40R

**Dyna-Gro Seed**

Michael Schonauer .....614-761-4110  
 6221 Riverside Drive, Suite 1 North,  
 Dublin OH 43017  
 michael.schonauer@cpsagu.com  
 DYNA-GRO 38RY45 DYNA-GRO 39RY43  
 DYNA-GRO 538RY84 DYNA-GRO 539RY33  
 DYNA-GRO 547RY13 DYNA-GRO 548RS53

**Great Lakes Hybrids**

Phil Brunner .....1-800-257-7333  
 9915 E M21, Ovid MI 48866  
 Phil.brunner@greatlakeshybrids.com  
 GREAT LAKES HYBRIDS GL4039R2  
 GREAT LAKES HYBRIDS GL4209R2  
 GREAT LAKES HYBRIDS GL4729R2

**L&M Glick Seed**

Trevor Glick.....812-343-8119  
 15120 E Base Rd, Columbus IN 47203  
 Trevor2glick@yahoo.com  
 L&M GLICK 403 R2Y L&M GLICK 412 R2Y  
 L&M GLICK 853 R2Y

**LG Seeds**

Jesse E. Grogan.....765-426-2763  
 22827 Shissler Road, Elmwood, IL 61529  
 jesse.grogan@lgseeds.com  
 LG SEEDS C3989R2 LG SEEDS C4340R2  
 LG SEEDS C4411R2 LG SEEDS C4544R2  
 LG SEEDS C4780R2 LG SEEDS C4867R2  
 LG SEEDS C5122R2

**Monsanto-DEKALB/Asgrow Company**

Todd Ladd .....270-522-7790  
 36 Rhett Blvd, Cadiz, KY 42211  
 jtladd@monsanto.com  
 ASGROW AG3832 ASGROW AG3934  
 ASGROW AG4033 ASGROW AG4232  
 ASGROW AG4433 ASGROW AG4534  
 ASGROW AG4632 ASGROW AG4831  
 ASGROW AG4832 ASGROW AG4933  
 ASGROW AG4934

**Mycogen Seeds**

Travis Keene.....717-327-3090  
 tlkeene@dow.com  
 MYCOGEN SEEDS 5N393R2  
 MYCOGEN SEEDS 5N423R2  
 MYCOGEN SEEDS 5N431R2  
 MYCOGEN SEEDS 5N451R2  
 MYCOGEN SEEDS 5N478R2  
 MYCOGEN SEEDS 5N479R2  
 MYCOGEN SEEDS 5N510R2  
 MYCOGEN SEEDS 5N540R2  
 MYCOGEN SEEDS X53413R2

**Pfister Seeds**

Brad Johnson .....515-681-9092  
 201 Knollwood Drive Suite A, Champaign IL 61820  
 bjohnson@pfisterseeds.com  
 PFISTER 43R29 PFISTER 45R22  
 PFISTER 47R22

**Progeny Ag. Products**

Brian Murray.....870-238-2079  
 1529 Hwy 193, Wynne AR 72396  
 bmurray@progenyag.com  
 PROGENY 4211 RY PROGENY 4313 RY  
 PROGENY 4510 RYS PROGENY 4560 LL  
 PROGENY 4613 RYS PROGENY 4710 RYS  
 PROGENY 4747 RY PROGENY 4819 LL  
 PROGENY 4850 RYS PROGENY 4900 RY  
 PROGENY 4928 LL PROGENY 4930 LL

**Seed Consultants Inc.**

Bill Mullen.....740-505-2022  
 648 Miami Trace Rd. SW, P.O. Box 370,  
 Washington Court House, OH 43160-0370  
 bmullen@seedconsultants.com  
 SEED CONSULTANTS SCS 9354RRTM  
 SEED CONSULTANTS SCS 9363RRTM  
 SEED CONSULTANTS SCS 9373RRTM  
 SEED CONSULTANTS SCS 9392RRTM  
 SEED CONSULTANTS SCS 9393RRTM  
 SEED CONSULTANTS SCS 9412RRTM  
 SEED CONSULTANTS SCS 9421RRTM  
 SEED CONSULTANTS SCS 9434RRTM  
 SEED CONSULTANTS SCS 9443RRTM  
 SEED CONSULTANTS SCS 9474RRTM  
 SEED CONSULTANTS SCS 9494RRTM  
 SEED CONSULTANTS SCS 9544RRTM  
 SEED CONSULTANTS SCS 9574RRTM

**Southern States Coop, Inc.**

Jason Hinton .....804-291-6785  
 6606 West Broad Street, Richmond VA 23230  
 jason.hinton@sscoop.com  
 SOUTHERN STATES LL 423N  
 SOUTHERN STATES LL 473N  
 SOUTHERN STATES LL 513N  
 SOUTHERN STATES SS 3801N R2  
 SOUTHERN STATES SS 3813N R2  
 SOUTHERN STATES SS 4312NR2  
 SOUTHERN STATES SS 4510N R2  
 SOUTHERN STATES SS 4700 R2-ST5  
 SOUTHERN STATES SS 4725NS R2  
 SOUTHERN STATES SS 4913N R2  
 SOUTHERN STATES SS 4917N R2  
 SOUTHERN STATES SS 453N

**Stewart Seeds**

Justin Petrosino.....419-681-3427  
 2230 E County Rd 300N, Greensburg IN 47240  
 justin.petrosino@stewartseeds.com  
 STEWART 4113R2 STEWART 4212R2  
 STEWART 4412R2 STEWART 4512R2  
 STEWART 4514R2 STEWART 4714R2

**Steyer Seeds**

Joe Steyer .....800-231-4274  
 P.O. Box 209, Old Fort OH 44861  
 joesteyer@yahoo.com  
 STEYER 4203R2 STEYER 4301R2  
 STEYER 4401R2 STEYER 4701R2  
 STEYER 4702R2 STEYER 4802R2  
 STEYER 5101R2

**Stine Seed Company**

Kyle Ross .....270-993-4590  
 11920 Hargrove Drive, Des Peres MO 63131  
 rosskw@hotmail.com  
 STINE 38RD02 STINE 42RD02  
 STINE 45RC32 STINE 48RD00

**Stratton Seed Company**

Heath North 800-264-4433  
 P.O. Box 1088, Stuttgart, AR 72160  
 hnorth@strattonseed.com  
 SCHILLINGER SEED 458.RCS  
 SCHILLINGER SEED 4712R  
 SCHILLINGER SEED 495.RC  
 SCHILLINGER SEED 4990.RC

**Syngenta Seeds**

Sarah Gehant .....270-307-4440  
 4320 Upton Talley Road, Upton KY 42784  
 sarah.gehant@syngenta.com  
 NK39-U2 BRAND NK41-J6 BRAND  
 NK43-K1 BRAND NK45-V8 BRAND  
 NK46-L2 BRAND NK46-G9 BRAND  
 NK49-F8 BRAND

**Terral Seed, Inc**

Phil Michener 662-822-8242  
 111 Elington Drive, Rayville LA 71269  
 pmichener@terralseed.com  
 REV® 38R10TM REV® 44R22 TM  
 REV® 46R64 TM REV® 47R34 TM  
 REV® 47R53 TM REV® 48R22 TM  
 REV® 48R33 TM REV® 48R44 TM  
 REV® 49R22 TM REV® 49R94 TM  
 REV® 51R53 TM REV® 52R74 TM  
 REV® 53R23 TM REV® 54R84 TM  
 REV® 55R53 TM REV® 59R13 TM

**Unisouth Genetics, Inc.**

Stacy Burwick 800-505-3133  
 3205-C HWY 46S, Dickson, TN 37055  
 sburwick@usgseed.com  
 UNISOUTH GENETICS USG 5002T  
 UNISOUTH GENETICS USG 5601T  
 UNISOUTH GENETICS USG 73P93R  
 UNISOUTH GENETICS USG 74A33R  
 UNISOUTH GENETICS USG 74E88  
 UNISOUTH GENETICS USG ALLEN

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 UNIVERSITY OF ARKANSAS OSAGE  
 UNIVERSITY OF ARKANSAS OZARK  
 UNIVERSITY OF ARKANSAS R04-1250RR  
 UNIVERSITY OF ARKANSAS R04-1268RR  
 UNIVERSITY OF ARKANSAS UA5213C  
 UNIVERSITY OF ARKANSAS UA5612

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 tpfeiffer@uky.edu  
 ESSEX (long term check-released 1974)  
 PENNYRILE (long term check-released 1987)

**US Seeds**  
 Janie Boone ..... 870-336-0111  
 2528 Alexander Dr., Jonesboro AR 72401  
 janieboone@usseeds.net  
 HALO 4:40 HALO 4:65 HALO 4:94  
 HALO 4:95 HALO 5:01 HALO 5:01-5  
 HALO 5:26 HALO 5:45 HALO X466  
 HALO X477 HALO X496 HALO X530

**USDA-ARS**  
 Lisa Fritz ..... 731-425-4736  
 605 Airways Blvd, Jackson, TN 38301  
 lisa.fritz@ars.usda.gov  
 EXP USDA-ARS JTN-5110  
 USDA-ARS JTN-5203

**Warren Seed and Agronomy Service**  
 Lanny Warren ..... 731-234-2921  
 208 South Thompson City, Tennessee 38261  
 lanny.warren@charter.net  
 WARREN SEED DS 4010 R2Y  
 WARREN SEED DS 4330 R2Y  
 WARREN SEED DS 4340 R2Y  
 WARREN SEED DS 4633 R2Y  
 WARREN SEED DS 4850 R2Y/STS  
 WARREN SEED DS 5122 R2Y

**Table 3. Company Specifications for Entries in the 2013 Kentucky Soybean Variety Performance Tests<sup>A</sup>.**

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae <sup>B,C</sup>		Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance	Seed Treatment(s)
				Resistance Gene Rps	Field Tolerance					
ARMOR 39-R16	RR2Y/STS	3.9	3, 14	1c	MR	MR				1, 5, 12
ARMOR 44-R08	RR2Y	4.4	3, 14		MR	MR				1, 5, 12
ARMOR 45-R60	RR2Y/STS	4.5	3, 14	1c	MR	MR	R			1, 5, 12
ARMOR 47-R13	RR2Y/STS	4.8								1, 5, 12
ARMOR 48-R66	RR2Y/STS	4.8								1, 5, 12
ARMOR 49-C3	CONV	4.9								1, 5, 12
ARMOR 49-R56	RR2Y	4.9	3, 14	1a	MR	MR	R			1, 5, 12
ARMOR X1401	RR2Y	4.2								1, 5, 12
ARMOR X1406	RR2Y/STS	4.6								1, 5, 12
ARMOR X1409	RR2Y	4.9								1, 5, 12
ARMOR X1410	RR2Y	5.0								1, 5, 12
ARMOR X1413	RR2Y	5.1								1, 5, 12
ARMOR X47C	CONV/STS	4.8								1, 5, 12
ARMOR X48C	CONV/STS	4.8								1, 5, 12
ARMOR X49C	CONV/STS	4.9								1, 5, 12
ASGROW AG3832	RR2Y	3.8	3	1c	T	MR		R		2, 25
ASGROW AG3934	RR2Y	3.9	3	1c	T	MS		R		2, 25
ASGROW AG4033	RR2Y/STS	4.0	3	1c	MT	MR		R		2, 25
ASGROW AG4232	RR2Y/STS	4.2	3	1a	MT	MS		R		2, 25
ASGROW AG4433	RR2Y	4.4	3	1c	T	MR		R		2, 25
ASGROW AG4534	RR2Y/STS	4.5	3	1a	T	MS		MR		2, 25
ASGROW AG4632	RR2Y/STS	4.6	3	1a	T	MS		MR		2, 25
ASGROW AG4831	RR2Y/STS	4.8			MS	R		MR		2, 25
ASGROW AG4832	RR2Y/STS	4.8	3	1c	MT	MS		MR		2, 25
ASGROW AG4933	RR2Y	4.9	3	1c	T	MR		R		2, 25
ASGROW AG4934	RR2Y/STS	4.9	3	1c				R		2, 25
BECK 391R4 <sup>TM*</sup>		3.9								
BECK 418NR <sup>TM*</sup>	RR	4.1	3, 14	1k	T	MR	MR	MR		22
BECK 423NL	LL	4.2	3, 14	1a, 3	T	MR	MR	MR		22
BECK 444NR <sup>TM*</sup>	RR	4.4	3, 14	1k	T	MR	MR	MR		22
BECK 459L4 <sup>TM*</sup>		4.5								
BECK 477NR <sup>TM*</sup>	RR	4.7	3, 14	1k	T	MR	MR	MR		22
BECK 483NL	LL	4.8	3, 14	1k	T	MR	MR	MR		22
BECK 511R4 <sup>TM*</sup>	RR	5.1	3, 14	1k	T	MR	MR	MR		22
BECK 522L4		5.2								
BIOGENE BG 7421	RR2Y	4.2	3, 14	1c	MT	MR	MR	S	MR-FROGEYE LEAF SPOT	2, 15
BIOGENE BG 7441	RR2Y	4.4	3, 14	1c	MT	MR	MR	S	MR-FROGEYE LEAF SPOT	2, 25
CAVERNDALE CF 286 RR2Y/STS <sup>n</sup>	RR2Y/STS	2.8			T	MR				1, 12, 20, 24
CAVERNDALE CF 380 RR2Y <sup>n</sup>	RR2Y	3.8	3, 14		T	MR		MR		1, 12, 20, 24
CAVERNDALE CF EXP 416 RR2Y <sup>n</sup>	RR2Y - EXP	4.1			T	R				1, 12, 20, 24
CAVERNDALE CF 425 LL <sup>n</sup>	LL	4.2	3		T	R				1, 12, 20, 24
CAVERNDALE CF 456 RR2Y/STS <sup>n</sup>	RR2Y/STS	4.5	3, 14		T	MR		R	R-FROGEYE LEAF SPOT	1, 12, 20, 24
CAVERNDALE CF 466 RR2Y <sup>n</sup>	RR2Y	4.6	3, 14		T	MR		R		1, 12, 20, 24
CAVERNDALE CF 469 LL/STS <sup>n</sup>	LL/STS	4.6			T					1, 12, 20, 24
CAVERNDALE CF 485 LL <sup>n</sup>	LL	4.8		T	R					1, 12, 20, 24
CAVERNDALE CF 486 RR2Y/STS <sup>n</sup>	RR2Y/STS	4.8	3, 14		T	R		MR	MR-FROGEYE LEAF SPOT	1, 12, 20, 24
CAVERNDALE CF 496 RR2Y <sup>n</sup>	RR2Y	4.9			T	R		R	MR-FROGEYE LEAF SPOT	1, 12, 20, 24
DELTA GROW 4670 RR2	RR2Y	4.6	3, 14	1c	MR	MR		R		3, 5, 12
DELTA GROW 4755 RR2	RR2Y	4.7	3, 14		MR	MR		MR		3, 5, 12
DELTA GROW 4765 RR2/STS	RR2Y/STS	4.7	3, 14	1c	MR	MR		R		3, 5, 12
DELTA GROW 4825 RR2/STS	RR2Y/STS	4.8	3, 14		MR	MR		MR		3, 5, 12
DELTA GROW 4867 LL	LL	4.8	3, 14	1k	MR	MR		MR		3, 5, 12
DELTA GROW 4880 RR	RR	4.8	3, 9, 14	1k	MR	MR		R		3, 5, 12
DELTA GROW 4925 RR2	RR2Y	4.9	3, 14	1c	MR	MR		R		3, 5, 12
DELTA GROW 4940 RR	RR	4.9	1, 2, 3, 5, 14		MR	MR		MR	R-ROOTKNOT NEMATODE, R-RENIFORM NEMATODE	3, 5, 12
DELTA GROW 4967 LL	LL	4.9	3, 14	1c	MR	MR		MR		3, 5, 12
DELTA GROW 4981 LL/STS	LL/STS	4.9	3, 14		MR	MR		MR		3, 5, 12
DELTA GROW 4990 LL	LL	4.9	3, 9, 14	1k	MR	MR		R		3, 5, 12
DELTA GROW 5130 RR2	RR2Y	5.1	3, 14	1c	MR	MR		R		3, 5, 12
DELTA GROW 5361 LL	LL	5.3	3, 14	1k	MR	MR		MR		3, 5, 12
DELTA GROW 5461 LL	LL	5.4	3, 14	1k	MR	MR		R		3, 5, 12
DELTA GROW 5481 LL	LL	5.4	3, 14		MR	MR		MR		3, 5, 12
DELTA GROW 5625 RR2	RR2	5.6								3, 5, 12

continued

Table 3. (continued)

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae <sup>B,C</sup>		Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance	Seed Treatment(s)
				Resistance Gene Rps	Field Tolerance					
DYNA-GRO 38RY45	RR2Y	4.5	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	2, 27
DYNA-GRO 39RY43	RR2Y	4.3	3, 14	1c	MT	MS		MS		2, 27
DYNA-GRO 538RY84	RR2Y	3.8	3, 14		MT	MR		MR		2, 27
DYNA-GRO 539RY33	RR2Y	3.9	3, 14	1c	MT	MR			MR-FROGEYE LEAF SPOT	2, 27
DYNA-GRO 547RY13	RR2Y	4.7	3, 14		MT	MR		MR		2, 27
DYNA-GRO 548RS53	RR2Y/STS	4.8	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	2, 27
ESSEX (long term check-released 1974)	CONV-P	5.0								
EXP USDA-ARS JTN-5110	CONV-EXP	5.5	2, 3, 5					R	R-FROGEYE LEAF SPOT	4, 5
GREAT LAKES HYBRIDS GL4039R2	RR2Y	4.0	3, 14	1c	T	MR				25
GREAT LAKES HYBRIDS GL4209R2	RR2Y/STS	4.2	3, 14	1a	T	R			R-FROGEYE LEAF SPOT	25
GREAT LAKES HYBRIDS GL4729R2	RR2Y/STS	4.7	3, 14	1c	T	R		R	R-FROGEYE LEAF SPOT	25
HALO 4:40	LL	4.2								1, 5, 12
HALO 4:65	LL	4.6	3, 14	1c	MT	MR		R		1, 5, 12
HALO 4:94	LL	4.9								1, 5, 12
HALO 4:95	LL	4.9	3, 14	1k	MT	MR		R		1, 5, 12
HALO 4:97	LL/STS	4.7	3, 14	1k	MT	MR		R		1, 5, 12
HALO 5:01	LL	4.9	3	1c	MT	MR		R		1, 5, 12
HALO 5:01-5	LL	5.0	3	1c	MT	MR		R		1, 5, 12
HALO 5:26	LL	5.1	3, 14		MT	MR		R		1, 5, 12
HALO 5:45	LL	5.4	3, 14	1k	MT	MR		R		1, 5, 12
HALO X466	LL	4.6								1, 5, 12
HALO X496	LL	4.9								1, 5, 12
HALO X530	LL/STS	5.3								1, 5, 12
HORNBECK HBK L4850		4.8	3	1k						17, 25
HORNBECK HBK L4950		4.9	3	1c						17, 25
HORNBECK HBK L5350		5.3	3	1k						17, 25
HORNBECK HBK RY4620	RR2Y/STS	4.6		1c						17, 25
HORNBECK HBK RY4721	RR2Y	4.7	3, 14	1c						17, 25
HORNBECK HBK RY5221	RR2Y	5.2		1, 3, 15						17, 25
HORNBECK HBK RY5421	RR2Y	5.4								17, 25
L&M GLICK 403 R2Y	RR2Y	4.3								
L&M GLICK 412 R2Y	RR2Y	4.2	3, 14							4
L&M GLICK 853 R2Y	RR2Y	3.8	3, 14	1c						4
LG SEEDS C3989R2	RR2Y	3.9	3, 14	1k	MR	MR				1, 11, 25, 27
LG SEEDS C4340R2	RR2Y/STS	4.3	3, 14	1a	MR	R		R		1, 11, 25, 27
LG SEEDS C4411R2	RR2Y	4.4	3, 14	1c	R	R				1, 11, 25, 27
LG SEEDS C4544R2	RR2Y	4.5	3, 14	1c	R	MR		R		1, 11, 25, 27
LG SEEDS C4780R2	RR2Y/STS	4.7	3, 14	1c	R	R		R		1, 11, 25, 27
LG SEEDS C4867R2	RR2Y/STS	4.8	3, 14		MR	R		MR		1, 11, 25, 27
LG SEEDS C5122R2	RR2Y	5.1	3	1c	R	R		R		1, 11, 25, 27
MYCOGEN SEEDS 5N393R2	RR2Y	3.9	3	1c	MT	MR				6
MYCOGEN SEEDS 5N423R2	RR2Y/STS	4.2	3, 14		MT	MR				6
MYCOGEN SEEDS 5N431R2	RR2Y	4.3	3	1c	MT	MR		MR		6
MYCOGEN SEEDS 5N451R2	RR2Y	4.5	3	1c	MT	MR				6
MYCOGEN SEEDS 5N478R2	RR2Y/STS	4.7	3	1c	MT	MR				6
MYCOGEN SEEDS 5N479R2	RR2Y/STS	4.7	3, 14	1c	MT	MR		R		6
MYCOGEN SEEDS 5N510R2	RR2Y	5.1	3, 14	1c	MT	MR		R		6
MYCOGEN SEEDS 5N540R2	RR2Y	5.2	3, 14		MT	MR		R		6
MYCOGEN SEEDS X53413R2	RR2Y	4.1	3, 14		MT	MR		MR		6
NK39-U2 BRAND	RR2Y	3.9	3, 14		MT	MR				3, 5, 12
NK41-J6 BRAND	RR2Y	4.1	3, 14	1c	MT	MR		S		3, 5, 12
NK43-K1 BRAND	RR2Y	4.3	3, 14		MS	MR				
NK45-V8 BRAND	RR2Y	4.5	3, 14	1c	MT	MR				28
NK46-L2 BRAND	RR2Y	4.6	3, 14	1c	MT	MR				3, 5, 12
NK46-G9 BRAND	RRY2	4.6	3, 14	none	MS	MR				
NK49-F8 BRAND	RR	4.9	3, 14	1a	MT	MR		R		3, 5, 12
PENNYRILE (long term check-released 1987)	CONV-P	4.7								
PFISTER 43R29	RR2Y	4.3	1, 3, 14	1c	MT	MR	R	R		6
PFISTER 45R22	RR2Y	4.5		1k	MT	MR	R	R		6
PFISTER 47R22	RR2Y/STS	4.7	1, 3, 14		MT	MR	R	R		6
PIONEER 39T67R	RR	3.9	3, 14	1k	MS	MR				1, 10
PIONEER 93Y84	RR	3.8	3, 14	1k	MT	MR				1, 10
PIONEER 93Y92	RR	3.9	3, 14		MS	MR				1, 10
PIONEER 94Y23	RR	4.2	3, 14		MS	MR				1, 10
PIONEER 94Y50	RR	4.5	3, 14		MT	MR				1, 10
PIONEER 94Y70	RR	4.7	3, 14		MT	MR				1, 10
PIONEER 95Y10	RR	5.1	3, 14		MT	MR		R		1, 10
PIONEER P35T58R	RR	3.5	3, 14		MT	MR				1, 10
PIONEER P46T21R	RR	4.6	3, 14		MT	MR				1, 10
PIONEER P47T36R	RR	4.7	3, 14		MT	MR		R		1, 10
PIONEER P48T53R	RR	4.8	3, 14		MT	MR		R		1, 10
PIONEER P49T97R	RR	4.9	3, 14	1k	MT	MR		R		1, 10
PIONEER P50T40R	RR	5.0	3, 14	1k	MS	MR		R		1, 10
PROGENY 4211 RY	RR2Y	4.2	3, 14		T	MR				25, 28
PROGENY 4313 RY	RR2Y	4.3				MS		MR		25, 28
PROGENY 4510 RYS	RR2Y/STS	4.5			MT	R		MS	R-CERSOSPORA LEAF BLIGHT	25, 28
PROGENY 4560 LL	LL	4.5		1c		MR		MR		25, 28
PROGENY 4613 RYS	RR2Y/STS	4.6		1c		MR		R		25, 28
PROGENY 4710 RYS	RR2Y/STS	4.7				MR		MS		25, 28
PROGENY 4747 RY	RR2Y	4.7	3, 14		T	MR		MR		25, 28
PROGENY 4819 LL	LL	4.8		1k		MR				25, 28
PROGENY 4850 RYS	RR2Y/STS	4.8	3, 14	1c		MR		R		25, 28
PROGENY 4900 RY	RR2Y	4.9	3, 14	1a		MR		MR		25, 28
PROGENY 4928 LL	LL	4.9	3	1c				R		25, 28

continued



Table 3. (continued)

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae <sup>B,C</sup>		Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance	Seed Treatment(s)
				Resistance Gene Rps	Field Tolerance					
PROGENY 4930 LL	LL	4.9		1k						25,28
REV <sup>o</sup> 38R10 <sup>TM</sup>	RR	3.8		1k						6
REV <sup>o</sup> 44R22 <sup>TM</sup>	RR	4.4		1c						6
REV <sup>o</sup> 46R64 <sup>TM</sup>	RR	4.6								6
REV <sup>o</sup> 47R34 <sup>TM</sup>	RR	4.7								6
REV <sup>o</sup> 47R53 <sup>TM</sup>	RR	4.7		1k						6
REV <sup>o</sup> 48R22 <sup>TM</sup>	RR	4.8		1k						6
REV <sup>o</sup> 48R33 <sup>TM</sup>	RR	4.8								6
REV <sup>o</sup> 48R44 <sup>TM</sup>	RR	4.8								6
REV <sup>o</sup> 49R22 <sup>TM</sup>	RR	4.9		1a						6
REV <sup>o</sup> 49R94 <sup>TM</sup>	RR	4.9								6
REV <sup>o</sup> 51R53 <sup>TM</sup>	RR	5.1		1k						6
REV <sup>o</sup> 52R74 <sup>TM</sup>	RR	5.2								6
REV <sup>o</sup> 53R23 <sup>TM</sup>	RR	5.3		1k						6
REV <sup>o</sup> 54R84 <sup>TM</sup>	RR	5.4								6
REV <sup>o</sup> 55R53 <sup>TM</sup>	RR	5.5		1k						6
REV <sup>o</sup> 59R13 <sup>TM</sup>	RR	5.9		3c						6
SCHILLINGER SEED 458.RCS	RR/STS	4.6	3, 14		T	MS	S	R		6
SCHILLINGER SEED 4712R	RR2Y	4.7	3	1c	T					6
SCHILLINGER SEED 495.RC	RR	4.9	3, 14		T	MS	S	R		6
SCHILLINGER SEED 4990.RC	RR	4.9	3, 14		T	MS	S	R		6
SEED CONSULTANTS SCS 9354RR <sup>TM</sup>	RR	3.5	3, 14		MT	MR			R-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9363RR <sup>TM</sup>	RR	3.6	3, 14		MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9373RR <sup>TM</sup>	RR	3.7	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9392RR <sup>TM</sup>	RR	3.9	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9393RR <sup>TM</sup>	RR	3.9	3, 14	1k	MT	MR			R-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9412RR <sup>TM</sup>	RR	4.1	3, 14	1k	MT	MR			MS-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9421RR <sup>TM</sup>	RR/STS	4.2	3, 14	1k	MT	MR			T-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9434RR <sup>TM</sup>	RR	4.3	3, 14		MT	MR		R		1, 4, 10, 15
SEED CONSULTANTS SCS 9443RR <sup>TM</sup>	RR	4.4	3, 14	1k	MT	MR		S	MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9474RR <sup>TM</sup>	RR	4.7	3, 14	1k	MT	MR		R	MS-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 4, 10, 15
SEED CONSULTANTS SCS 9494RR <sup>TM</sup>	RR	4.9	3, 14	1k	MT	MR		R		1, 4, 10, 15
SEED CONSULTANTS SCS 9544RR <sup>TM</sup>	RR	5.4	3, 14	1k	MT	MR		R		1, 4, 10, 15
SEED CONSULTANTS SCS 9574RR <sup>TM</sup>	RR	5.7	3, 14	3c	MT	MR		S	MR-FROGEYE LEAF SPOT, MR-ROOT KNOT NEMATODE	1, 4, 10, 15
SOUTHERN STATES SS 4510N R2	RR2Y	4.5	3, 14		MT	MT				2, 28
SOUTHERN STATES LL 423N	LL	4.2	3, 14	3a	MT	MT				2, 28
SOUTHERN STATES LL 473N	LL	4.7	3, 14	1k	MT	MT				2, 28
SOUTHERN STATES LL 513N	LL	5.1	3, 14	1c	MT	MT				10, 28
SOUTHERN STATES SS 3801N R2	RR2Y	3.8	3, 14		MT	MS				2, 28
SOUTHERN STATES SS 3813N R2	RR2Y	3.8	3, 14	1c	MT	T				2, 28
SOUTHERN STATES SS 4312NR2	RR2Y	4.3	3, 14	1c	MT	MS		MS		2, 28
SOUTHERN STATES SS 4700 R2-STS	RR2Y/STS	4.7		1c	T	MS				2, 28
SOUTHERN STATES SS 4725NS R2	RR2Y/STS	4.7	3, 14	1c	MT	MT		R		2, 28
SOUTHERN STATES SS 4913N R2	RR2Y	4.9	3	1c	MT	MT		R		2, 28
SOUTHERN STATES SS 4917N R2	RR2Y	4.9	3, 14	1a	MT	MS				2, 28
SOUTHERN STATES SS 453N	CONV	4.5		1c	MT					18, 28
STEWART 4113R2	RR2Y	4.1	3	1c						2, 25
STEWART 4212R2	RR2Y	4.2	3	1a						2, 25
STEWART 4412R2	RR2Y	4.4	3, 14	1c						2, 25
STEWART 4512R2	RR2Y	4.5	3, 14	1c						2, 25
STEWART 4514R2	RR2Y/STS	4.5	3							2, 25
STEWART 4714R2	RR2Y	4.7	3	1c						2, 25
STEYER 4203R2	RR2Y	4.2	3, 14	1c	T	MR	MR	MS		7, 26
STEYER 4301R2	RR2Y	4.3	3, 14	1c	T	R	MR	R		7, 26
STEYER 4401R2	RR2Y/STS	4.4	3, 14	1c	T	MR	MR	R	R-FROGEYE LEAF SPOT, R-ROOTKNOT NEMATODE	7, 26
STEYER 4701R2	RR2Y	4.7	3, 14	1c	T	MR	MR	MR	R-FROGEYE LEAF SPOT	7, 26
STEYER 4702R2	RR2Y	4.7	3, 14		T	MR	MR	MR		7, 26
STEYER 4802R2	RR2Y/STS	4.8	3, 14		T	R	MR	MR	R-FROGEYE LEAF SPOT	7, 26
STEYER 5101R2	RR2Y	5.2	3, 14	1c	T	R	MR	R	R-FROGEYE LEAF SPOT	7, 26
STINE 38RD02	RR2Y	3.8		1k		MR				
STINE 42RD02	RR2Y/STS	4.2		1c		MR			MR-ROOTKNOT NEMATODE	
STINE 45RC32	RR2Y/STS	4.5		1k		MS			MR-ROOTKNOT NEMATODE	
STINE 48RD00	RR2Y/STS	4.8				MS		R		
UNISOUTH GENETICS USG 5002T	CONV	5.1				MR		R	R-FROGEYE LEAF SPOT, R-ROOTKNOT NEMATODE	6
UNISOUTH GENETICS USG 5601T	CONV	5.6								6
UNISOUTH GENETICS USG 73P93R	RR2Y	3.9	3, 14			MR			MR-FROGEYE LEAF SPOT	6
UNISOUTH GENETICS USG 74A33R	RR2Y	4.3	3			MR		MR	MR-FROGEYE LEAF SPOT	6
UNISOUTH GENETICS USG 74E88	RR	4.8	3, 14	1c		MR				6
UNISOUTH GENETICS USG ALLEN	RR	5.6				MR			MR-FROGEYE LEAF SPOT	6
UNIVERSITY OF ARKANSAS OSAGE	CONV	5.6								4
UNIVERSITY OF ARKANSAS OZARK	CONV	5.2								4
UNIVERSITY OF ARKANSAS R04-1250RR	RR	5.5								4
UNIVERSITY OF ARKANSAS R04-1268RR	RR	5.4								4
UNIVERSITY OF ARKANSAS UA5213C	CONV	5.2								4
UNIVERSITY OF ARKANSAS UA5612	CONV	5.6								4

continued



**Table 3. (continued)**

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae <sup>B,C</sup>		Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance	Seed Treatment(s)
				Resistance Gene Rps	Field Tolerance					
UNIVERSITY OF MISSOURI S09-9943	CONV	4.6			T	MR		R		10, 17
USDA-ARS JTN-5203	CONV-P	5.3	2, 3, 5, 14			R	S	R	R-FROGEYE LEAF SPOT, R-RENIFORM NEMATODE	4, 5
WARREN SEED DS 4010 R2Y	RR2Y	3.9	3, 14	1c	MT	MR				6
WARREN SEED DS 4330 R2Y	RR2Y	4.3	3, 14	1c	MT	MR				6
WARREN SEED DS 4340 R2Y	RR2Y	4.3	3, 14	1c	MT	MR				6
WARREN SEED DS 4633 R2Y	RR2Y	4.6	3, 14	1c	MT	MR				6
WARREN SEED DS 4850 R2Y/STS	RR2Y/STS	4.8	3, 14	1c	MT	MR				6
WARREN SEED DS 5122 R2Y	RR2Y	5.1	3, 14	1c	MT	MR				6

RR Roundup Ready Variety (RR1 first generation, original trait, released in 1996)  
 RR2Y Introduced in 2009, Roundup Ready 2 Yield soybean variety  
 LL Introduced 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  
 CONV Variety is a conventional entry, ie: not Roundup Ready or Liberty Link tolerant  
 EXP Variety that is soon to be released or still being evaluated  
 P Public variety

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 Phytophthora 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 = susceptible, MS = moderately susceptible, MR = moderately resistant, R = resistant, T = tolerant, MT = moderately tolerant

### Seed Treatments

Research over five seasons of testing various seed-applied insecticide treatments on soybeans in Kentucky have not

produced a single example of a statistically significant greater yield of treatments compared to the control. This is generally not related to the performance of the insecticide but rather to the fact that in Ken-

tucky insect pressure is most commonly too low to warrant a control action (Doug Johnson, Ph. D., UK Extension Entomologist).

**Table 4. Seed Treatments.**

Code	Name (treatment combination)	Treatment	Chemical Class/Use	LD50 Oral/Derm <sup>A</sup>	LC50 <sup>B</sup>
1	Allegiance & Meta Star ST	Metalaxyl	systemic fungicide	2,900/2,000	21.94 - 1 hr
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 - 4 hrs
4	Apron Maxx (3, 12)	Mefenoxam, Fludioxonil	systemic & non-systemic fungicide	5,000/5,050	5.42 - 4 hrs
5	Cruiser	Thiamethoxam	systemic insecticide	5,000/5,050	NA
6	Cruiser Maxx (3, 5, 12)	Mefenoxam, Thiamethoxam, Fludioxonil	systemic & non-systemic fungicide, systemic insecticide	5,000/5,000	2.5 - 4 hrs
7	Cruiser Extreme (6, 8)	Mefenoxam, Thiamethoxam, Fludioxonil, Aoxystrobin	systemic & non-systemic fungicide, systemic insecticide	5,000/5,050	NA
8	Dynasty	Azoxystrobin	systemic fungicide	2,000/2,000	5.98 - 4 hrs
9	FaStart <sup>®</sup>	Thiamethoxam	systemic insecticide	5,000/5,050	NA
10	Gaucho	Imidacloprid	systemic insecticide	643/2,000	8.1 to 10.0 - 1 hr
11	Headline	Pyraclostrobin	strobilurin fungicide	200-500/4,000	3.51 - 4 hrs
12	Maxim 4FS	Fludioxonil	non-systemic fungicide	5,050/2,020	3.77 - 4 hrs
13	Molybdenum	Molybdenum	stimulant (nitrogen fixing)	NA	NA
14	Soygard (1, 8)	Metalaxyl, Azoxystrobin	systemic fungicide	5,000/2,000	NA
15	Sure Gro <sup>™</sup> (4, 16)	Mefenoxam, Fludioxonil, Thiram	systemic & non-systemic fungicide	NA	NA
16	Thiram	Thiram	fungicide	3580/4000	2.6 - 4 hrs
17	Trilex <sup>®</sup>	Trifloxystrobin	systemic fungicide	5,000/5,000	2.6 - 4 hrs
18	Trilex <sup>®</sup> 6000 (1, 10, 17)	Metalaxyl, Imidacloprid, Trifloxystrobin	systemic fungicide & systemic insecticide	NA	NA
19	Warden (3, 12)	Mefenoxam, Fludioxonil	systemic & non-systemic fungicide,	5,000/200	2.65 - 4 hrs
20	Optimize 400	Lipo-chitoooligosaccharide	natural growth enhancer	5,000/2,000	NA
21	Rancona 3.8 FS	Ipconazole	systemic broad-spectrum fungicide	5,000/slight	2.59 - 4 hrs
22	Escalate (3, 12, 16, 10)	Mefenoxam, Fludioxonil, Thiram, Imidacloprid	systemic & non-systemic fungicide, systemic insecticide	640/2,000	NA
23	MetaStar <sup>™</sup> ST	Metalaxyl	systemic fungicide	2,900/2,000	NA
24	Agri Star <sup>®</sup> Macho <sup>®</sup> 600 ST (10)	Imidacloprid	systemic insecticide	4,500/2,000	5.0 - 4 hrs
25	Poncho <sup>®</sup> VOTIVO <sup>®</sup>	Clothianidin, <i>Bacillus firmus</i>	systemic insecticide and nematicide	2,000/5,000	2.62 - 4 hrs
26	Vibrance <sup>™</sup>	Sedaxane	fungicide	2,975/5,050	2.56 - 4 hrs
27	Xemium <sup>®</sup>	Fluxapyroxad	broad spectrum fungicide	2,000/2,000	5.10 - 4 hrs
28	Trilex <sup>®</sup> 2000	Trifloxystrobin, Metalaxyl, Glycerine	systemic fungicide	2,000/5,000	2.6 - 4 hrs

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 Safety Data Sheet).

# RECOMMENDED TABLE

**Table 5. 2013 Kentucky Soybean Variety Performance Tests, State Summary.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013	% OIL <sup>A,B</sup>		% PROTEIN <sup>A,B</sup>	
	2013	2012-13	2011-13		2013	2012-13	2013	2012-13
<b>MATURITY GROUP II (relative MG 2.0-2.9)<sup>C</sup></b>								
CAVERNDALE CF 286 RR2Y/STS <sub>n</sub>	57.6	NA	NA	1.5	19.01	NA	37.62	NA
<b>GROUP II AVERAGE</b>	<b>NA</b>			<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>LSD (0.10)</b>	NA			NA	NA	NA	NA	NA
<b>C.V.</b>	NA			NA	NA	NA	NA	NA
<b>MATURITY GROUP III (relative MG 3.0-3.9)<sup>C</sup></b>								
SOUTHERN STATES SS 3813N R2	<b>67.7</b>			1.3	19.8		36.6	
LG SEEDS C3989R2	67.1	<b>57.8</b>		1.7	20.1	20.9	36.5	35.5
PIONEER P35T58R	66.6			1.7	20.1	20.7	36.6	<b>36.3</b>
ASGROW AG3832	66.2	54.6	51.9	1.2	19.3	19.9	36.6	36.2
SEED CONSULTANTS SCS 9393RR	65.0			1.0	<b>20.8</b>		35.8	
ARMOR 39-R16	65.0	54.8		1.1	19.4	20.0	36.7	<b>36.3</b>
MYCOGEN SEEDS 5N393R2	64.7			1.5	19.0		37.4	
SEED CONSULTANTS SCS 9354RR	64.7			1.1	19.9		36.3	
PIONEER 39T67R	64.6			1.5	20.0	20.6	35.4	35.5
REV <sup>®</sup> 38R10 <sup>TM</sup>	63.7	55.6	<b>52.8</b>	1.3	20.3		36.0	
PIONEER 93Y84	63.7	56.1		1.0	20.7		35.1	
DYNA-GRO S38RY84	63.2			1.3	20.0		35.6	
SEED CONSULTANTS SCS 9363RR	63.1			1.5	19.9		35.9	
UNISOUTH GENETICS USG 73P93R	62.9			1.0	20.0		36.5	
BECK 391R4 <sup>TM*</sup>	62.7			1.2	19.5		36.5	
SEED CONSULTANTS SCS 9373RR	62.7			1.3	20.3		35.9	
S39-U2 BRAND	61.6	52.5	50.3	1.4	19.9	20.9	37.0	36.2
PIONEER 93Y92	61.4	52.1	50.1	1.5	20.2	20.9	36.5	35.8
DYNA-GRO S39RY33	61.0			2.0	19.4		36.9	
STINE 38RD02	60.7			2.0	20.0		<b>37.7</b>	
WARREN SEED DS 4010 R2Y	60.6			2.9	20.0		34.7	
CAVERNDALE CF 380 RR2Y <sub>n</sub>	59.6			1.6	19.7		36.4	
SEED CONSULTANTS SCS 9392RR	58.8	53.3	50.5	1.5	20.6	<b>21.4</b>	35.3	34.8
ASGROW AG3934	58.6			1.5	19.0		37.6	
L&M GLICK 853 R2Y	57.7			1.8	19.9		36.1	
SOUTHERN STATES SS 3801N R2	57.3			1.8	19.8		35.8	
<b>GROUP III AVERAGE</b>	<b>62.7</b>	<b>54.6</b>	<b>51.1</b>	<b>1.5</b>	<b>19.9</b>	<b>20.7</b>	<b>36.3</b>	<b>35.8</b>
<b>LSD (0.10)</b>	7.0	4.2	3.8		0.3	0.3	0.5	0.3
<b>C.V.</b>	8.3	7.5	7.9		1.2	1.3	1.0	0.8
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)<sup>D</sup></b>								
ARMOR 44-R08	<b>71.4</b>	58.5	<b>57.0</b>	1.4	19.6	20.0	36.5	36.4
BECK 423NL	68.5			1.5	19.4		36.3	
WARREN SEED DS 4340 R2Y	68.3	<b>60.0</b>		1.4	19.4	19.7	37.0	36.6
MYCOGEN SEEDS 5N451R2	67.9			1.5	19.9		35.2	
L&M GLICK 412 R2Y	66.6	56.5	55.4	1.4	19.5		36.2	
CAVERNDALE CF 456 RR2Y/STS <sub>n</sub>	66.6			1.3	19.8	20.2	36.6	36.2
SEED CONSULTANTS SCS 9434RR	66.6			2.0	19.9		36.2	
ASGROW AG4232	65.9	57.2	56.3	1.7	19.0	19.6	36.8	36.1
CAVERNDALE CF EXP 416 RR2Y <sub>n</sub>	65.5			1.1	19.4		37.1	
STEWART 4412R2	65.4	55.8	53.8	1.4	20.1	20.6	35.3	35.0
GREAT LAKES HYBRIDS GL4039R2	65.3			1.2	19.8		36.3	
PROGENY 4313 RY	65.2			1.6	19.3		37.3	
SOUTHERN STATES LL 423N	65.0			1.6	19.4		36.6	
ASGROW AG4433	65.0	55.8		1.3	19.6	19.7	35.9	35.9
MYCOGEN SEEDS X53413R2	64.9			2.7	19.9		36.0	
STEWART 4512R2	64.8	56.6	55.1	1.5	19.8	19.9	35.1	35.4
HALO 4:40	64.6			1.8	19.7		36.0	
BIOGENE BG 7441	64.4			1.2	20.0		35.8	
ASGROW AG4033	64.4	55.1		1.5	19.0	19.5	37.4	36.6
PIONEER 94Y50	64.3	56.2	55.5	1.6	19.8	20.3	36.4	36.2
PIONEER 94Y23	64.3	56.5		1.2	20.2	20.6	35.7	35.2
DYNA-GRO 39RY43	64.2	56.4	55.0	1.3	19.6	20.1	36.8	36.5
BECK 418NR <sup>TM*</sup>	64.2	56.2		1.4	<b>20.7</b>	<b>20.7</b>	35.4	35.4
BECK 444NR <sup>TM*</sup>	64.1	55.4		1.4	20.0	20.3	36.7	36.4
WARREN SEED DS 4330 R2Y	64.1			1.5	19.2		37.1	
STEWART 4113R2	64.0	54.5		1.4	19.2	19.3	35.8	35.5
LG SEEDS C4544R2	63.9			1.6	19.6		35.3	
PROGENY 4211 RY	63.8	55.0	53.1	1.3	19.6	19.9	36.4	36.2
SOUTHERN STATES SS 4312N R2	63.8	54.5	55.3	1.2	19.8	20.4	36.5	35.8
STINE 45RC32	63.6			2.1	19.6		36.2	
SEED CONSULTANTS SCS 9421RR	63.4	54.5	53.5	1.4	19.8	19.9	37.2	36.6
MYCOGEN SEEDS 5N431R2	63.3			1.3	19.6		36.5	
SEED CONSULTANTS SCS 9443RR	63.3			1.4	20.1		37.0	
PFISTER 45R22	63.2			1.2	19.3		37.5	
STEYER 4203R2	63.0	54.2	54.1	1.3	19.6	20.0	36.9	35.9
SOUTHERN STATES SS 4510N R2	62.9	56.3	53.5	1.3	19.2	19.7	<b>38.1</b>	37.2

continued

# RECOMMENDED TABLE

Table 5. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING	% OIL <sup>A,B</sup>		% PROTEIN <sup>A,B</sup>	
	2013	2012-13	2011-13		2013	2012-13	2013	2012-13
SEED CONSULTANTS SCS 9412RR	62.7			1.2	20.1		36.4	
MYCOGEN SEEDS 5N423R2	62.7			1.3	19.3		36.4	
DYNA-GRO 38RY45	62.5	55.5	54.1	1.3	19.8	20.1	36.1	36.2
ARMOR 45-R60	62.5	54.1		1.2	19.3	19.6	37.5	37.0
S43-K1 BRAND	62.5			1.9	20.1		36.2	
LG SEEDS C4411R2	62.3	56.1		1.1	19.7	19.8	36.1	35.6
S45-V8 BRAND	62.3			1.7	19.9		36.2	
STEWART 4514R2	62.2			1.3	19.0		37.5	
CAVERNDAL CF 425 LLn	62.1			1.8	20.0		37.0	
GREAT LAKES HYBRIDS GL4209R2	62.1			1.2	19.8		36.3	
STINE 42RD02	61.9			1.3	19.7		36.3	
PFISTER 43R29	61.8	54.7		1.4	19.7	20.1	36.4	35.7
STEYER 4401R2	61.7	55.1		1.2	19.6	20.1	36.2	36.1
BIOGENE BG 7421	61.4	52.2	51.7	1.2	19.5	19.9	36.8	36.3
L&M GLICK 403 R2Y	61.4			1.2	19.8		36.9	
LG SEEDS C4340R2	60.9	53.8		1.3	19.5	20.1	36.6	36.0
STEYER 4301R2	60.9	53.8		1.1	19.2	19.6	37.2	36.1
ARMOR X1401	60.8			1.0	19.7		36.2	
PROGENY 4560 LL	60.6			1.8	19.9		36.4	
PROGENY 4510 RY	60.5	53.4	53.2	1.4	19.2	19.5	37.7	37.3
STEWART 4212R2	60.3	52.5	51.7	1.3	19.9	20.3	35.9	35.1
S41-J6 BRAND	59.9	51.9		1.6	19.8	20.1	37.1	36.7
ASGROW AG4534	58.9			1.2	19.6		37.5	
REV <sup>®</sup> 44R22 <sup>TM</sup>	58.8	52.2	50.3	1.6	19.4	20.0	37.7	37.2
SOUTHERN STATES SS 453N	58.3			1.3	19.9		36.4	
BECK 459L4 <sup>TM*</sup>	57.8			1.6	19.9		35.7	
UNISOUTH GENETICS USG 74A33R	56.9			1.6	19.3		37.3	
<b>GROUP IV EARLY AVERAGE</b>	<b>63.3</b>	<b>55.2</b>	<b>54.0</b>	<b>1.4</b>	<b>19.7</b>	<b>20.0</b>	<b>36.5</b>	<b>36.1</b>
<b>LSD (0.10)</b>	6.3	4.0	3.5		0.4	0.3	0.7	0.8
<b>C.V.</b>	7.4	7.3	7.3		1.5	4.0	1.5	2.7
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)<sup>D</sup></b>								
HORNBECK HBK RY4620	72.6	61.0	58.8	1.4	19.5	19.7	35.2	35.6
ASGROW AG4933	72.0	60.4		1.4	19.2	19.6	35.8	35.9
ARMOR 47-R13	70.9	61.0		1.6	18.8	19.1	35.5	35.6
STEWART 4714R2	70.7			1.3	18.8		35.3	
CAVERNDAL CF 496 RR2Yn	70.0			1.6	19.3		35.0	
SEED CONSULTANTS SCS 9474RR	70.0			1.7	19.9		34.3	
SCHILLINGER SEED 4990.RC	69.9	58.7	56.4	1.7	18.9	19.3	35.7	36.2
SEED CONSULTANTS SCS 9494RR	69.8			1.8	19.6		35.5	
ARMOR X1409	69.7			1.5	19.1		36.3	
ASGROW AG4831	69.4	60.8		1.3	19.0	19.3	36.4	36.3
HORNBECK HBK RY4721	69.0	59.3		2.2	19.2	19.3	34.9	35.5
DELTA GROW 4670 RR2	68.8	60.3	57.9	1.7	19.3	19.7	35.3	34.9
ASGROW AG4832	68.6	57.7	56.5	1.9	19.7	19.9	34.0	34.9
DELTA GROW 4765 RR2/STS	68.6	60.1		1.4	19.1	19.1	35.0	35.8
REV <sup>®</sup> 48R44 <sup>TM</sup>	68.5			1.7	19.7	19.6	34.1	34.6
WARREN SEED DS 4633 R2Y	68.5	59.0		1.8	20.0		34.0	
DELTA GROW 4755 RR2	68.4	57.6		1.8	19.4	19.6	35.3	35.7
DYNA-GRO S47RY13	68.2	58.0		1.3	19.3	19.4	34.4	35.4
HALO 4:95	68.1	59.0		1.8	19.6	19.9	34.5	35.4
CAVERNDAL CF 486 RR2Y/STSn	68.0	59.1		2.0	19.3	19.4	35.2	36.0
UNISOUTH GENETICS USG 74E88	67.9			1.6	19.8		35.3	
STINE 48RD00	67.8			1.4	19.5		34.5	
SCHILLINGER SEED 458.RCS	67.6	58.1	55.1	1.4	19.0	19.4	35.4	35.7
GREAT LAKES HYBRIDS GL4729R2	67.5			1.4	19.7		34.2	
PIONEER P47T36R	67.1			1.3	19.6		34.4	
ARMOR 49-R56	66.9			1.7	19.0		35.9	
ASGROW AG4632	66.7	58.2	56.5	1.8	19.6	19.6	33.9	34.8
SOUTHERN STATES SS 4725NS R2	66.6			1.4	18.9		35.3	
WARREN SEED DS 4850 R2Y/STS	66.4	57.8		1.4	19.5	19.1	34.4	35.7
HORNBECK HBK L4850	66.4			1.8	19.8		35.0	
PROGENY 4613 RY	66.3			1.9	19.6		34.7	
ASGROW AG4934	66.3			1.7	19.4		35.2	
BECK 477NR <sup>TM*</sup>	66.3	56.1	52.7	2.1	19.1	19.8	35.7	35.9
PIONEER P48T53R	66.3			1.8	19.4		35.5	
DELTA GROW 4880 RR	66.2	55.5	53.6	2.3	18.8	19.2	36.8	37.2
PFISTER 47R22	66.0	59.1		1.3	19.2	19.3	33.6	34.8
PROGENY 4850 RY	65.6	57.4		1.4	18.8	19.0	35.4	35.9
BECK 483NL	65.6			1.8	20.1		33.5	
STEYER 4702R2	65.2	55.9		1.5	19.4	19.5	35.4	35.9
PROGENY 4710 RY	64.8	58.2	56.4	1.7	19.7	20.0	34.5	35.4
ARMOR 48-R66	64.8			1.7	19.2		35.5	
LG SEEDS C4867R2	64.7			2.0	19.5		34.7	
REV <sup>®</sup> 47R53 <sup>TM</sup>	64.6	54.8	53.6	1.9	19.6	20.5	35.7	35.7

continued

# RECOMMENDED TABLE

Table 5. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING	% OIL <sup>A,B</sup>		% PROTEIN <sup>A,B</sup>	
	2013	2012-13	2011-13		2013	2012-13	2013	2012-13
LG SEEDS C4780R2	64.6	56.6		1.4	18.9	19.0	36.1	36.1
MYCOGEN SEEDS 5N479R2	64.6			1.4	19.0		34.9	
DYNA-GRO S48RS53	64.5	57.8		1.4	18.8	18.9	35.1	35.9
SCHILLINGER SEED 4712R	64.3			2.1	19.3		35.8	
PIONEER P49T97R	64.3			1.4	19.8		34.8	
MYCOGEN SEEDS 5N478R2	64.3			2.1	19.4		34.4	
CAVERNDALE CF 485 LLn	64.2	53.9		1.8	19.5	19.9	35.6	36.0
DELTA GROW 4990 LL	64.1			1.6	19.6		32.9	
DELTA GROW 4825 RR2/STS	64.0	56.3		2.1	19.4	19.7	35.7	36.1
ARMOR X47C	63.7			2.0	19.5		34.4	
DELTA GROW 4867 LL	63.6			1.8	19.7		34.9	
SOUTHERN STATES SS 4917N R2	63.5			1.2	19.3		34.8	
PROGENY 4747 RY	63.4	55.0		1.5	19.0	19.1	35.4	36.1
HALO X466	63.3			1.3	19.5		34.6	
S49-F8 BRAND	63.1	56.2		1.7	19.5	19.6	34.6	35.5
STEYER 4701R2	63.1	55.2	54.1	2.0	19.6	19.5	34.6	35.7
REV <sup>®</sup> 49R22 <sup>TM</sup>	63.1	53.0	50.5	2.1	19.2	19.4	34.9	35.6
PROGENY 4819 LL	63.1	54.9		1.8	19.7	20.0	34.5	35.3
ARMOR X1406	63.0			1.3	19.6		34.8	
REV <sup>®</sup> 46R64 <sup>TM</sup>	62.9			1.8	20.0		33.8	
CAVERNDALE CF 466 RR2Yn	62.8			1.8	19.3		34.8	
PIONEER P46T21R	62.7			1.4	19.9		34.1	
DELTA GROW 4925 RR2	62.7	57.1		1.6	19.8	19.7	34.4	35.4
HALO X496	62.6			1.5	19.3		34.9	
SOUTHERN STATES SS 4700 R2-STS	62.5	55.7	54.6	1.6	19.6	19.8	34.8	35.4
SCHILLINGER SEED 495.RC	62.5	53.7	50.9	2.3	19.4	19.4	34.6	35.7
STEYER 4802R2	62.5			1.7	19.1		36.9	
HALO 4:65	62.4	53.8	51.8	2.3	20.5	20.4	32.9	34.5
ARMOR X49C	62.4			2.3	19.1		35.5	
REV <sup>®</sup> 47R34 <sup>TM</sup>	62.4			2.2	19.6		34.0	
REV <sup>®</sup> 49R94 <sup>TM</sup>	62.2			2.1	19.5		35.0	
SOUTHERN STATES LL 473N	62.1			1.7	19.6		33.9	
PIONEER 94Y70	62.1	53.0	52.2	1.9	19.6	20.0	34.7	35.2
SOUTHERN STATES SS 4913N R2	62.0			1.6	19.4		34.1	
DELTA GROW 4967 LL	61.7			2.1	19.4		34.4	
ARMOR X48C	61.6			2.2	19.4		33.4	
UNIVERSITY OF MISSOURI S09-9943	61.5			1.9	19.5		34.8	
PROGENY 4930 LL	61.4			1.5	19.1		34.2	
S46-L2 BRAND	61.1			2.1	19.8		33.7	
ARMOR 49-C3	61.0			3.7	19.0	19.4	36.3	36.2
REV <sup>®</sup> 48R33 <sup>TM</sup>	61.0	52.0	51.9	1.9	19.3		34.5	
CAVERNDALE CF 469 LL/STS <sup>n</sup>	60.8			1.9	19.6		34.2	
HORNBECK HBK L4950	60.7			1.7	19.7	19.6	35.2	36.0
PROGENY 4900 RY	60.7	54.9		1.6	19.4		33.7	
DELTA GROW 4981 LL/STS	60.5			2.2	19.6		33.5	
S46-G9 BRAND	60.4			2.3	20.0		33.7	
PROGENY 4928 LL	60.1	53.1	51.1	1.8	19.4	19.6	34.4	35.0
HALO 4:97	59.8			2.2	19.1		36.1	
HALO 5:01	59.0	53.6		1.8	19.2	19.7	35.1	35.1
HALO 4:94	58.9	53.9	50.8	1.7	19.7	19.9	34.4	34.8
REV <sup>®</sup> 48R22 <sup>TM</sup>	58.5	50.6	49.9	2.1	19.2	19.5	35.1	35.0
DELTA GROW 4940 RR	57.7			3.3	19.1		33.5	
PENNYRILE (long term check-released 1987)	55.4	47.1	43.9	1.8	18.9	19.4	36.0	36.4
<b>GROUP IV LATE AVERAGE</b>	<b>64.6</b>	<b>56.4</b>	<b>53.3</b>	<b>1.8</b>	<b>19.4</b>	<b>19.6</b>	<b>34.8</b>	<b>35.6</b>
<b>LSD (0.10)</b>	5.5	3.9	3.5		0.8	0.4	1.6	0.8
<b>C.V.</b>	7.4	6.9	7.2		2.9	2.4	3.4	2.5
<b>MATURITY GROUP V (relative MG 5.0-5.9)<sup>D</sup></b>								
ARMOR X1413	66.0			1.3	19.6		35.0	
WARREN SEED DS 5122 R2Y	65.6			1.4	19.4		35.3	
MYCOGEN SEEDS 5N510R2	64.4			1.3	19.5		36.0	
BECK 511R4 <sup>TM*</sup>	64.4			1.3	19.9		37.2	
LG SEEDS C5122R2	63.9			1.3	19.4		35.1	
STEYER 5101R2	63.8			1.3	19.3		35.9	
BECK 522L4	63.5			1.3	19.6		34.2	
ARMOR X1410	63.3			2.7	18.6		35.1	
UNIVERSITY OF ARKANSAS UA5612	62.9	54.9		3.1	18.5	18.4	36.8	36.7
SEED CONSULTANTS SCS 9574RR	62.8			2.6	19.5		34.5	
HALO 5:01-5	62.7	55.5		1.8	19.5	19.4	34.0	34.8
PIONEER 95Y10	62.7	55.4	55.3	1.4	19.3	19.1	37.2	37.5
HORNBECK HBK L5350	62.7			2.2	19.7		35.8	
SOUTHERN STATES LL 513N	62.4			1.4	19.5		34.7	
SEED CONSULTANTS SCS 9544RR	62.3			2.8	18.6		37.1	
USDA-ARS JTN-5203	61.9	54.3	54.3	2.7	19.2	19.4	36.5	36.3
DELTA GROW 5361 LL	61.6			2.5	19.5		35.2	

continued



# RECOMMENDED TABLE

Table 5. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING	% OIL <sup>A,B</sup>		% PROTEIN <sup>A,B</sup>	
	2013	2012-13	2011-13		2013	2012-13	2013	2012-13
REV <sup>®</sup> 51R53 <sup>™</sup>	61.6	52.7	54.4	1.5	19.8	<b>20.1</b>	37.1	36.9
UNIVERSITY OF ARKANSAS UA5213C	61.6			3.2	18.2		37.3	
PIONEER P50T40R	61.3			1.3	19.4		37.4	
REV <sup>®</sup> 59R13 <sup>™</sup>	60.9	53.3		2.2	18.4	18.6	36.5	35.9
UNISOUTH GENETICS USG ALLEN	60.7	53.6	<b>54.5</b>	2.1	18.5	18.5	36.5	36.5
DELTA GROW 5461 LL	60.6			1.6	19.4		34.4	
REV <sup>®</sup> 52R74 <sup>™</sup>	60.1	52.8		1.7	19.1	19.2	36.3	36.8
UNIVERSITY OF ARKANSAS R04-1250RR	59.8			2.6	18.4		37.2	
DELTA GROW 5130 RR2	59.7			1.2	19.0		36.2	
UNIVERSITY OF ARKANSAS OZARK	59.7	53.5	53.7	2.7	18.6	18.5	36.4	36.4
UNISOUTH GENETICS USG 5002T	59.6	54.3	53.5	2.4	19.4	19.4	35.7	35.9
UNISOUTH GENETICS USG 5601T	59.5	53.6	55.2	2.1	18.6	18.3	37.2	37.4
HALO 5:45	59.0	52.2		1.8	18.4	18.5	37.0	36.6
HORNBECK HBK RY5221	58.6	49.5		2.0	18.0	18.3	36.8	36.8
REV <sup>®</sup> 54R84 <sup>™</sup>	58.3	51.9		3.2	19.1	19.1	36.1	36.0
UNIVERSITY OF ARKANSAS OSAGE	58.2	52.9	54.5	2.5	18.5	18.5	<b>38.0</b>	<b>37.8</b>
REV <sup>®</sup> 53R23 <sup>™</sup>	58.1	48.3		1.8	18.7	18.8	37.3	37.2
HORNBECK HBK RY5421	57.9	51.0		2.8	18.6	18.7	36.1	36.0
MYCOGEN SEEDS 5N540R2	57.6			2.4	17.9		37.9	
HALO 5:26	57.4	53.3		2.2	19.5	19.2	35.9	36.9
DELTA GROW 5481 LL	57.2			1.8	18.5		36.2	
REV <sup>®</sup> 55R53 <sup>™</sup>	57.2	51.8		2.9	18.6	18.7	37.0	36.9
ESSEX (long term check-released 1974)	56.6	49.7	48.4	1.9	19.2	18.8	36.5	37.3
DELTA GROW 5625 RR2	56.3			2.6	18.7		34.2	
EXP USDA-ARS JTN-5110	55.3	50.6		2.9	19.4	19.2	36.3	36.6
HALO X530	55.1			1.7	19.4		34.5	
UNIVERSITY OF ARKANSAS R04-1268RR	53.8			2.9	17.9		36.7	
<b>GROUP V AVERAGE</b>	<b>60.4</b>	<b>52.6</b>	<b>53.8</b>	<b>2.1</b>	<b>19.0</b>	<b>18.9</b>	<b>36.1</b>	<b>36.6</b>
<b>LSD (0.10)</b>	4.9	3.4	3.4		0.3	0.2	0.5	0.3
<b>C.V.</b>	6.0	6.6	7.3		1.2	1.3	1.1	0.8

<sup>A</sup> Within a maturity group, shaded yields are not significantly different (0.10) from the highest-yielding cultivar (bold data) of that maturity group and year column.

<sup>B</sup> Data was collected at the following locations: 2013—Calloway, Fayette, and Hardin; 2012—Calloway, Daviess, and Fayette.

<sup>C</sup> Data was collected at the following locations: 2013—Caldwell, Calloway, Fayette, Hardin, and Simpson; 2012—Caldwell, Calloway, Daviess, Fayette, and Simpson; 2011—Caldwell, Calloway, Fayette, McLean, and Warren.

<sup>D</sup> Data was collected at the following locations: 2013—Caldwell, Calloway, Daviess, Fayette, Hardin, and Simpson; 2012—Caldwell, Calloway, Daviess, Fayette, and Simpson; 2011—Caldwell, Calloway, Fayette, McLean, and Warren.

**Table 6. 2013 Kentucky Soybean Variety Performance Tests, Caldwell County.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>				
CAVERNDALE CF 286 RR2Y/STS <sub>n</sub>	67.2	NA	NA	1.3
<b>GROUP II AVERAGE</b>				
<b>LSD (0.10)</b>	NA			<b>NA</b>
<b>C.V.</b>	NA			
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>				
PIONEER 39T67R	80.2			1.7
BECK 391R4 <sup>TM</sup> *	80.1			1.3
LG SEEDS C3989R2	79.9	65.1		2.7
SEED CONSULTANTS SCS 9354RR	79.3			0.7
UNISOUTH GENETICS USG 73P93R	78.7			1.0
MYCOGEN SEEDS 5N393R2	78.4			2.0
REV <sup>®</sup> 38R10 <sup>TM</sup>	77.2	68.5	64.0	1.7
PIONEER 93Y92	75.3	62.6	58.7	1.7
SOUTHERN STATES SS 3813N R2	74.7			1.7
DYNA-GRO S39RY33	74.4			2.3
SEED CONSULTANTS SCS 9393RR	74.2			1.0
SEED CONSULTANTS SCS 9363RR	73.8			1.7
PIONEER P35T58R	73.7			2.7
WARREN SEED DS 4010 R2Y	73.0			3.7
ASGROW AG3832	71.9	58.5	57.5	1.3
STINE 38RD02	71.5			1.3
SEED CONSULTANTS SCS 9373RR	70.8			1.3
ARMOR 39-R16	70.7	65.7		1.3
SEED CONSULTANTS SCS 9392RR	69.8	64.7	58.1	2.3
PIONEER 93Y84	69.5	59.1		1.0
NK39-U2 BRAND	68.9	59.3	55.8	2.3
DYNA-GRO S38RY84	68.1			2.0
ASGROW AG3934	64.9			2.0
SOUTHERN STATES SS 3801N R2	64.7			2.7
L&M GLICK 853 R2Y	64.7			2.3
CAVERNDALE CF 380 RR2Y <sub>n</sub>	62.2			2.0
<b>GROUP III AVERAGE</b>				
<b>LSD (0.10)</b>	72.7	62.9	58.8	1.8
<b>C.V.</b>	9.0	5.1	5.2	
	9.0	7.8	9.4	
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>				
MYCOGEN SEEDS 5N451R2	87.8			2.0
PROGENY 4313 RY	87.5			2.3
SEED CONSULTANTS SCS 9443RR	86.8			1.7
STEWART 4412R2	86.7	63.9	64.6	1.7
SOUTHERN STATES SS 4312N R2	86.3	63.5	67.8	1.0
WARREN SEED DS 4340 R2Y	85.8	61.6		1.7
SEED CONSULTANTS SCS 9434RR	85.8			2.3
CAVERNDALE CF EXP 416 RR2Y <sub>n</sub>	85.7			1.0
PROGENY 4211 RY	84.4	64.5	62.5	1.3
ARMOR 44-R08	84.2	61.3	63.4	1.7
CAVERNDALE CF 456 RR2Y/STS <sub>n</sub>	83.5			1.0
NK45-V8 BRAND	82.8			2.3
STINE 45RC32	82.1			3.3
LG SEEDS C4544R2	82.0			2.0
PIONEER 94Y50	82.0	65.6	67.6	1.7
BECK 459L4 <sup>TM</sup> *	81.8			1.7
STEYER 4203R2	81.3	61.6	65.0	1.3
PROGENY 4510 RYS	81.1	64.3	61.9	2.0
BECK 418NR <sup>TM</sup> *	81.0	63.0		1.3
BECK 423NL	80.9			2.3
DYNA-GRO 39RY43	80.3	63.8	64.6	1.3
SOUTHERN STATES SS 453N	79.8			1.3
ARMOR 45-R60	79.7	63.2		1.0
MYCOGEN SEEDS X53413R2	79.5			4.0
STEWART 4512R2	79.5	62.2	63.2	2.0
GREAT LAKES HYBRIDS GL4209R2	79.5			1.3
MYCOGEN SEEDS 5N431R2	79.1			1.0
STEWART 4212R2	78.9	63.6	64.4	1.3
SEED CONSULTANTS SCS 9421RR	78.9	57.0	62.2	1.3
STEYER 4401R2	78.6	62.2		1.0
LG SEEDS C4340R2	78.4	60.1		1.3
BIOGENE BG 7441	78.1			1.0
ASGROW AG4232	77.6	61.8	65.3	2.0
BECK 444NR <sup>TM</sup> *	77.0	60.3		2.3
STINE 42RD02	77.0			1.3
PFISTER 43R29	76.6	66.1		1.0
PROGENY 4560 LL	76.5			2.7
ASGROW AG4433	76.3	60.7		1.3
LG SEEDS C4411R2	75.6	60.0		1.0
HALO 4:40	75.4			2.7

continued

**Table 6. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
SOUTHERN STATES LL 423N	74.9			1.7
BIOGENE BG 7421	74.8	57.6	59.5	1.7
PFISTER 45R22	74.4			1.0
STEWART 4113R2	74.4	56.8		1.3
CAVERNDALE CF 425 LL <sub>n</sub>	73.9			2.3
NK43-K1 BRAND	73.8			3.0
WARREN SEED DS 4330 R2Y	73.7			1.7
DYNA-GRO 38RY45	73.7	61.5	64.4	1.3
GREAT LAKES HYBRIDS GL4039R2	73.7			2.0
ASGROW AG4033	73.5	57.6		2.0
PIONEER 94Y23	72.9	59.0		1.0
NK41-J6 BRAND	72.6	52.6		1.7
STEWART 4514R2	71.7			1.0
SOUTHERN STATES SS 4510N R2	71.6	57.4	56.9	1.3
REV <sup>®</sup> 44R22 <sup>TM</sup>	71.2	57.2	57.1	1.7
SEED CONSULTANTS SCS 9412RR	70.5			1.3
ARMOR X1401	70.2			1.0
L&M GLICK 412 R2Y	69.1	52.7	59.3	1.3
L&M GLICK 403 R2Y	68.7			1.0
MYCOGEN SEEDS 5N423R2	68.2			1.3
STEYER 4301R2	68.1	55.7		1.0
ASGROW AG4534	67.6			1.7
UNISOUTH GENETICS USG 74A33R	62.2			2.0
<b>AVERAGE GROUP IV EARLY</b>				
<b>LSD (0.10)</b>	77.6	60.6	62.9	1.6
<b>C.V.</b>	9.8	5.6	4.9	
	9.4	8.9	8.9	
<b>MATURITY GROUP IV LATE (relative MG 4.5-4.9)</b>				
SCHILLINGER SEED 4990.RC	89.9	70.2	70.2	2.7
SEED CONSULTANTS SCS 9494RR	86.1			3.0
ARMOR X1409	85.7			2.0
DELTA GROW 4755 RR2	85.3	64.5		2.3
STEWART 4714R2	85.0			2.0
BECK 483NL	83.6			3.0
HORNBECK HBK RY4721	83.5	64.9		3.0
HORNBECK HBK L4850	83.2			3.3
DYNA-GRO S47RY13	82.6	66.2		2.0
HALO 4:95	82.1	63.0		2.7
PIONEER P47T36R	81.3			1.3
HORNBECK HBK RY4620	81.0	63.9	65.5	2.3
SEED CONSULTANTS SCS 9474RR	80.8			2.0
STEYER 4701R2	80.7	63.9	66.6	2.3
SCHILLINGER SEED 458.RCS	80.4	63.9	64.8	2.0
ARMOR 47-R13	80.0	68.3		3.3
DELTA GROW 4765 RR2/STS	79.9	63.5		2.3
ASGROW AG4934	79.8			2.0
GREAT LAKES HYBRIDS GL4729R2	78.2			2.3
STEYER 4802R2	77.9			2.7
HALO 4:94	77.8	65.5	63.7	3.3
SOUTHERN STATES SS 4917N R2	77.7			1.7
SOUTHERN STATES SS 4725NS R2	77.5			2.0
ARMOR 48-R66	77.2			2.7
REV <sup>®</sup> 47R53 <sup>TM</sup>	77.0	60.7	62.1	3.0
ASGROW AG4933	76.9	57.6		2.0
CAVERNDALE CF 486 RR2Y/STS <sub>n</sub>	76.9	59.4		3.7
PIONEER 94Y70	76.6	58.3	60.9	2.3
REV <sup>®</sup> 48R44 <sup>TM</sup>	76.0			2.3
DELTA GROW 4880 RR	75.7	58.7	59.9	3.3
ARMOR 49-R56	75.5			3.0
PROGENY 4710 RYS	75.5	63.1	64.4	2.7
REV <sup>®</sup> 49R94 <sup>TM</sup>	74.8			2.7
HALO X466	74.5			1.7
PIONEER P49T97R	74.4			1.7
SOUTHERN STATES SS 4913N R2	74.3			2.0
ASGROW AG4632	73.8	61.7	64.8	2.0
BECK 477NR <sup>TM</sup> *	73.5	61.5	61.5	2.7
REV <sup>®</sup> 48R22 <sup>TM</sup>	73.4	51.6	57.2	2.3
HALO 4:97	73.4			3.0
NK49-F8 BRAND	73.3	58.6		3.0
UNISOUTH GENETICS USG 74E88	72.9			2.3
WARREN SEED DS 4850 R2Y/STS	72.8	61.7		2.0
REV <sup>®</sup> 48R33 <sup>TM</sup>	72.7	57.1	62.2	2.3
DELTA GROW 4867 LL	72.6			2.7
PROGENY 4819 LL	72.4	61.7		3.0
DELTA GROW 4670 RR2	72.1	63.2	65.3	2.3
MYCOGEN SEEDS 5N478R2	72.1			3.0
STINE 48RD00	72.0			2.3
SOUTHERN STATES SS 4700 R2-STS	71.9	59.7	64.2	2.7
NK46-L2 BRAND	71.9			2.7
HALO 4:65	71.8	61.5	61.5	3.3

continued

Table 6. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
DELTA GROW 4967 LL	71.7			3.7
REV <sup>®</sup> 47R34 <sup>TM</sup>	71.7			3.3
PROGENY 4613 RYS	71.6			3.0
WARREN SEED DS 4633 R2Y	71.4	57.3		2.3
CAVERNDALE CF 496 RR2Yn	71.4			2.0
PROGENY 4850 RYS	71.1	63.6		2.0
REV <sup>®</sup> 46R64 <sup>TM</sup>	70.8			3.0
CAVERNDALE CF 466 RR2Yn	70.8			2.7
HALO X496	70.6			2.7
NK46-G9 BRAND	70.2			3.3
PFISTER 47R22	69.8	60.2		2.0
PROGENY 4747 RY	69.5	54.7		2.0
PROGENY 4928 LL	69.5	58.1	58.9	3.0
ASGROW AG4832	69.5	54.6	59.2	2.0
SCHILLINGER SEED 495.RC	69.4	57.1	57.3	3.0
MYCOGEN SEEDS 5N479R2	69.3			2.0
DELTA GROW 4925 RR2	69.0	61.2		2.0
SCHILLINGER SEED 4712R	69.0			2.0
UNIVERSITY OF MISSOURI S09-9943	68.8			3.0
REV <sup>®</sup> 49R22 <sup>TM</sup>	68.6	55.5	58.5	3.7
DELTA GROW 4825 RR2/STS	68.2	56.0		3.0
DYNA-GRO 548R553	68.2	60.2		2.0
CAVERNDALE CF 469 LL/STS <sup>n</sup>	68.2			2.7
LG SEEDS C4780R2	67.9	57.7		2.3
DELTA GROW 4990 LL	67.4			3.0
ARMOR X1406	66.7			2.0
LG SEEDS C4867R2	66.5			3.3
DELTA GROW 4940 RR	66.4			4.3
PIONEER P46T21R	66.2			2.7
CAVERNDALE CF 485 LL <sup>n</sup>	66.0	55.4		2.7
STEYER 4702R2	65.6	53.3		2.0
PROGENY 4900 RY	65.5	55.6		3.0
ARMOR X47C	65.5			3.0
HORNBECK HBK L4950	64.6			3.0
ARMOR X49C	64.3			3.3
ASGROW AG4831	64.1	55.2		2.3
SOUTHERN STATES LL 473N	62.1			3.3
HALO 5:01	60.7	57.8		2.7
PROGENY 4930 LL	60.5			2.7
DELTA GROW 4981 LL/STS	60.3			3.3
ARMOR 49-C3	58.3			4.3
PENNYRILE (long term check-released 1987)	57.7	50.0	51.1	3.3
PIONEER P48T53R	57.6			3.0
ARMOR X48C	56.5			3.0
<b>AVERAGE GROUP IV LATE</b>	<b>72.6</b>	<b>59.9</b>	<b>61.9</b>	<b>2.6</b>
<b>LSD (0.10)</b>	6.2	4.1	3.7	
<b>C.V.</b>	6.3	6.7	6.8	
<b>MATURITY GROUP V (5.0-5.9)</b>				
SEED CONSULTANTS SCS 9574RR	89.0			2.7
MYCOGEN SEEDS 5N510R2	83.6			2.0
DELTA GROW 5461 LL	82.5			2.0
SEED CONSULTANTS SCS 9544RR	82.4			2.7
HALO 5:01-5	82.0	61.5		2.7
WARREN SEED DS 5122 R2Y	80.6			1.7
ARMOR X1413	80.4			2.0
PIONEER 95Y10	79.3	61.9	62.1	1.3
USDA-ARS JTN-5203	78.1	60.4	60.1	3.0
UNISOUTH GENETICS USG ALLEN	76.7	60.8	62.4	2.7
LG SEEDS C5122R2	76.5			2.0
BECK 511R4 <sup>TM</sup> *	76.2			1.3
HORNBECK HBK RY5221	75.7	54.2		2.7
STEYER 5101R2	75.6			1.7
DELTA GROW 5361 LL	74.9			3.3
ESSEX (long term check-released 1974)	74.8	58.0	56.6	1.7
HALO 5:26	73.0	56.0		2.3
BECK 522L4	73.0			2.0
PIONEER P50T40R	72.4			1.7
SOUTHERN STATES LL 513N	72.2			2.0
UNIVERSITY OF ARKANSAS UA5612	71.5	56.2		3.0
UNIVERSITY OF ARKANSAS R04-1250RR	71.5			3.0
HALO 5:45	71.4	59.9		2.0
UNIVERSITY OF ARKANSAS OZARK	70.4	57.4	58.5	3.7
DELTA GROW 5130 RR2	70.4			1.3
UNISOUTH GENETICS USG 5002T	69.9	56.7	58.2	3.0
MYCOGEN SEEDS 5N540R2	69.8			2.3
UNISOUTH GENETICS USG 5601T	69.0	57.8	61.5	2.0
REV <sup>®</sup> 55R53 <sup>TM</sup>	68.8	60.2		3.0
REV <sup>®</sup> 51R53 <sup>TM</sup>	68.1	52.2	56.2	2.0
HORNBECK HBK L5350	68.0			2.0
HALO X530	67.6			2.7

continued

Table 6. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
REV <sup>®</sup> 52R74 <sup>TM</sup>	67.4	57.0		2.3
ARMOR X1410	67.0			3.3
UNIVERSITY OF ARKANSAS UA5213C	66.7			3.3
DELTA GROW 5625 RR2	66.7			3.3
DELTA GROW 5481 LL	66.4			2.3
HORNBECK HBK RY5421	65.4	49.0		3.0
REV <sup>®</sup> 54R84 <sup>TM</sup>	62.9	53.1		3.7
REV <sup>®</sup> 53R23 <sup>TM</sup>	62.2	43.9		1.7
EXP USDA-ARS JTN-5110	60.0	47.7		3.0
REV <sup>®</sup> 59R13 <sup>TM</sup>	57.6	49.3		3.0
UNIVERSITY OF ARKANSAS OSAGE	57.0	51.7	57.3	3.0
UNIVERSITY OF ARKANSAS R04-1268RR	53.5			3.0
<b>AVERAGE GROUP V</b>	<b>71.5</b>	<b>55.5</b>	<b>59.2</b>	<b>2.5</b>
<b>LSD (0.10)</b>	6.5	4.3	3.7	
<b>C.V.</b>	6.7	7.2	7.2	

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.

### AGRONOMIC INFORMATION

Location	Caldwell County
Soil type	Crider silt loam
Previous crop	Tobacco (wheat as winter cover crop)
Soil test	NA
Fertilizer applied	None
Agricultural practice	No-till
Pre-planting treatments	Gramoxone (3 pt/ac), Dual II Magnum (1.3 pt/ac), and Spartan (5.33 oz/ac) June
Planting dates	MG II, III, and MG IV Early 5/15/2013 MG IV Late and V 5/16/2013
Harvest dates	MG II, III 11/09 MG IV 11/10 MG V 11/11
50% chance of killing frost	10/21

### Precipitation and temperature history (Caldwell County)

	Total Monthly Precipitation (in.)	Temperature (°F)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	4.29	41.1	72.4	18.0
April	5.72	56.0	84.6	28.5
May	4.26	65.7	86.6	37.2
June	7.55	73.8	91.2	52.8
July	4.43	74.0	91.3	51.3
August	5.59	74.8	92.2	53.7
September	5.36	70.2	90.2	46.5
October	4.19	58.3	83.9	25.1
November (11/1-11)	0.41	44.8	67.6	28.2

**Table 7. 2013 Kentucky Soybean Variety Performance Tests, Calloway County.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013
	2013	2012-13	2011-13	
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>				
CAVERNDALE CF 286 RR2Y/STSn	72.7	NA	NA	1.0
<b>GROUP II AVERAGE</b>				
	NA			NA
<b>LSD (0.10)</b>				
	NA			
<b>C.V.</b>				
	NA			
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>				
DYNA-GRO S38RY84	83.2			1.0
SEED CONSULTANTS SCS 9373RR	78.1			1.0
SOUTHERN STATES SS 3813N R2	76.7			1.0
ARMOR 39-R16	76.6	56.2		1.0
ASGROW AG3832	75.2	51.3	46.3	1.0
LG SEEDS C3989R2	74.6	56.0		2.0
PIONEER 39T67R	74.2			1.0
CAVERNDALE CF 380 RR2Yn	72.6			1.3
PIONEER P3T58R	71.9			1.3
MYCOGEN SEEDS 5N393R2	71.7			1.0
PIONEER 93Y84	71.3	55.0		1.0
SEED CONSULTANTS SCS 9393RR	69.8			1.0
SEED CONSULTANTS SCS 9363RR	69.2			1.0
STINE 38RD02	68.8			1.0
BECK 391R4TM*	66.4			1.0
UNISOUTH GENETICS USG 73P93R	66.3			1.0
SEED CONSULTANTS SCS 9354RR	65.3			1.0
NK39-U2 BRAND	64.4	47.8	45.7	1.0
SEED CONSULTANTS SCS 9392RR	61.6	47.3	46.7	1.0
L&M GLICK 853 R2Y	60.1			2.7
DYNA-GRO S39RY33	59.4			2.0
ASGROW AG3934	58.8			1.3
REV <sup>®</sup> 38R10TM	57.7	47.4	46.4	1.0
SOUTHERN STATES SS 3801N R2	56.8			1.0
PIONEER 93Y92	56.3	48.0	45.8	1.0
WARREN SEED DS 4010 R2Y	56.2			3.7
<b>GROUP III AVERAGE</b>				
	63.5	51.1	46.2	1.3
<b>LSD (0.10)</b>				
	7.7	4.0	3.5	
<b>C.V.</b>				
	8.2	7.0	7.1	
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>				
WARREN SEED DS 4340 R2Y	90.3			2.0
SEED CONSULTANTS SCS 9412RR	82.9			1.3
SOUTHERN STATES LL 423N	82.8			2.3
STEYER 4203R2	81.7	65.8	56.7	2.0
ARMOR 44-R08	81.5	64.9	55.4	1.7
ARMOR X1401	79.6			1.0
MYCOGEN SEEDS 5N451R2	78.7			2.0
HALO 4:40	78.1			2.7
PFISTER 45R22	77.5			1.7
BIOGENE BG 7441	77.2			1.3
BECK 418NRTM*	76.6			2.0
STEWART 4514R2	76.3			1.7
PIONEER 94Y23	76.3			1.7
L&M GLICK 412 R2Y	76.2	65.9	56.3	1.7
BECK 423NL	76.1			2.7
DYNA-GRO 39RY43	76.1	60.0	53.0	1.7
STEWART 4113R2	76.0			2.0
CAVERNDALE CF 456 RR2Y/STSn	75.8			2.0
NK43-K1 BRAND	74.6			3.3
ASGROW AG4033	74.3			2.0
UNISOUTH GENETICS USG 74A33R	73.5			2.3
GREAT LAKES HYBRIDS GL4039R2	73.1			1.0
ASGROW AG4433	72.6			1.7
LG SEEDS C4411R2	72.5			1.0
NK41-J6 BRAND	72.3			3.0
GREAT LAKES HYBRIDS GL4209R2	72.1			1.7
STINE 45RC32	72.1	57.5		2.7
CAVERNDALE CF EXP 416 RR2Yn	72.0			1.3
SOUTHERN STATES SS 4510N R2	71.7	56.0	50.6	1.7
STINE 42RD02	71.7			1.7
STEWART 4512R2	71.6	56.8	50.6	2.0
STEYER 4401R2	70.9			1.3
CAVERNDALE CF 425 LLn	70.7			2.7
WARREN SEED DS 4330 R2Y	70.7			2.0
BECK 444NRTM*	70.6			1.7
BIOGENE BG 7421	70.6	59.7	52.0	1.0
ASGROW AG4534	70.6			1.7
LG SEEDS C4340R2	70.2			2.0
MYCOGEN SEEDS 5N423R2	70.1			2.0
SEED CONSULTANTS SCS 9434RR	70.1			3.7

continued

**Table 7. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013
	2013	2012-13	2011-13	
MYCOGEN SEEDS X53413R2	70.0			4.0
ARMOR 45-R60	70.0			1.7
MYCOGEN SEEDS 5N431R2	69.9			2.0
STEWART 4412R2	69.8	55.5	48.6	2.0
PIONEER 94Y50	69.3	58.0	52.9	2.3
SEED CONSULTANTS SCS 9443RR	68.2			1.7
DYNA-GRO 38RY45	68.0	55.8	48.5	2.0
REV <sup>®</sup> 44R22TM	67.8	56.3	48.7	2.3
LG SEEDS C4544R2	66.8			2.3
PROGENY 4313 RY	66.7			2.7
PFISTER 43R29	66.6			2.3
STEYER 4301R2	66.5			1.0
PROGENY 4211 RY	66.4	56.4	48.8	2.0
SEED CONSULTANTS SCS 9421RR	66.2	57.0	50.9	2.3
SOUTHERN STATES SS 453N	66.0			1.7
NK45-V8 BRAND	65.4			2.7
STEWART 4212R2	64.3	54.9	48.3	1.3
SOUTHERN STATES SS 4312N R2	64.1	57.1	50.6	2.0
PROGENY 4560 LL	63.0			3.0
BECK 459L4TM*	61.4			3.0
L&M GLICK 403 R2Y	60.2			2.0
ASGROW AG4232	59.6	55.0	48.7	2.3
PROGENY 4510 RYS	59.3	52.0	47.0	1.3
<b>GROUP IV EARLY AVERAGE</b>				
	71.7	58.0	51.0	2.0
<b>LSD (0.10)</b>				
	8.7	5.8	3.7	
<b>C.V.</b>				
	9.0	8.2	7.2	
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>				
WARREN SEED DS 4633 R2Y	94.9	68.6		1.3
DELTA GROW 4755 RR2	92.4	63.9		1.3
DELTA GROW 4880 RR	91.9	64.3	61.3	3.0
CAVERNDALE CF 485 LLn	90.3	64.2		1.3
CAVERNDALE CF 496 RR2Yn	89.3			1.3
ASGROW AG4933	88.1	61.9		1.3
HORNBECK HBK RY4620	86.9	64.1	61.6	1.3
STINE 48RD00	86.7			1.3
ASGROW AG4832	86.2	60.4	59.9	2.0
REV <sup>®</sup> 49R22TM	84.5	60.1	53.9	2.0
BECK 483NL	84.5			2.0
SOUTHERN STATES LL 473N	84.4			1.7
UNISOUTH GENETICS USG 74E88	84.0			2.3
DELTA GROW 4990 LL	83.9			2.0
PFISTER 47R22	83.6	63.3		1.0
LG SEEDS C4867R2	83.3			1.3
DELTA GROW 4670 RR2	83.2	62.4	58.2	2.3
SEED CONSULTANTS SCS 9474RR	82.5			1.7
SCHILLINGER SEED 4990.RC	82.2	61.1	58.3	1.7
BECK 477NRTM*	82.2	58.2	51.6	2.0
PIONEER P49T97R	82.0			1.7
PROGENY 4747 RY	81.9	63.8		1.0
REV <sup>®</sup> 46R64TM	81.9			1.3
SEED CONSULTANTS SCS 9494RR	81.4			2.0
STEYER 4802R2	81.3			2.0
HALO 4:65	81.2	56.2	54.1	2.3
ASGROW AG4831	81.2	63.8		1.3
DYNA-GRO S47RY13	81.2	58.8		1.0
DELTA GROW 4765 RR2/STS	80.7	63.4		1.0
DELTA GROW 4925 RR2	80.5	62.6		1.7
REV <sup>®</sup> 49R94TM	80.5			1.7
PROGENY 4930 LL	80.4			1.3
HORNBECK HBK RY4721	80.4	60.7		2.3
PIONEER P48T53R	79.7			2.0
STEWART 4714R2	79.7			1.3
ARMOR X48C	79.2			2.3
ARMOR X1406	79.0			1.0
REV <sup>®</sup> 48R44TM	78.7			1.7
MYCOGEN SEEDS 5N478R2	78.2			2.0
SOUTHERN STATES SS 4725NS R2	78.1			1.7
ARMOR 49-R56	77.9			1.3
DELTA GROW 4981 LL/STS	77.8			2.7
CAVERNDALE CF 486 RR2Y/STSn	77.7	58.4		2.0
HALO 4:95	77.4	61.3		1.7
DYNA-GRO S48RS53	77.3	58.5		1.3
PIONEER P46T21R	77.2			1.0
ASGROW AG4632	77.0	58.8	55.7	2.0
SOUTHERN STATES SS 4700 R2-STS	76.9	57.8	54.9	1.3
NK46-L2 BRAND	76.9			1.7
GREAT LAKES HYBRIDS GL4729R2	76.8			1.0
NK49-F8 BRAND	76.4	59.7		2.0
PROGENY 4613 RYS	76.3			1.7

continued



**Table 7. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
PROGENY 4710 RYS	76.2	59.0	56.5	1.3
PIONEER P47T36R	76.2			1.3
ARMOR X1409	76.1			1.0
ARMOR 47-R13	76.0	58.5		1.0
STEYER 4701R2	75.2	57.2	55.9	2.0
PIONEER 94Y70	75.1	53.9	54.4	1.3
HALO X496	74.9			1.7
PROGENY 4928 LL	74.6	55.2	51.0	2.0
LG SEEDS C4780R2	74.5	58.2		1.0
PROGENY 4819 LL	73.9	55.1		2.0
SCHILLINGER SEED 495.RC	73.8	56.2	51.6	3.3
HORNBECK HBK L4850	73.8			2.0
ASGROW AG4934	73.6			1.7
PROGENY 4900 RY	73.5	56.6		1.3
CAVERNDAL CF 469 LL/STS <sub>n</sub>	73.4			3.0
MYCOGEN SEEDS 5N479R2	73.0			1.3
HORNBECK HBK L4950	72.7			2.0
DELTA GROW 4867 LL	71.6			2.0
SCHILLINGER SEED 4712R	71.5			1.0
PROGENY 4850 RYS	71.4	53.0		1.0
CAVERNDAL CF 466 RR2Y <sub>n</sub>	71.2			2.3
DELTA GROW 4825 RR2/STS	71.0	56.5		1.7
STEYER 4702R2	70.9	56.3		1.0
DELTA GROW 4940 RR	70.5			3.3
SOUTHERN STATES SS 4917N R2	70.3			1.3
ARMOR 48-R66	69.9			1.0
SCHILLINGER SEED 458.RCS	69.9	51.2	50.5	2.0
REV <sup>®</sup> 48R33 <sup>TM</sup>	69.9	51.7	51.5	2.3
REV <sup>®</sup> 48R22 <sup>TM</sup>	69.4	55.9	52.4	3.0
HALO X466	69.2			1.3
UNIVERSITY OF MISSOURI S09-9943	69.0			2.3
ARMOR X49C	69.0			2.7
HALO 4:97	68.9			2.7
ARMOR X47C	68.8			2.3
WARREN SEED DS 4850 R2Y/STS	68.6	55.2		1.7
HALO 5:01	68.5	53.5		2.3
ARMOR 49-C3	68.3			3.0
REV <sup>®</sup> 47R53 <sup>TM</sup>	68.1	51.5	50.7	2.0
NK46-G9 BRAND	67.6			2.0
REV <sup>®</sup> 47R34 <sup>TM</sup>	66.9			2.0
HALO 4:94	65.6	55.6	51.9	2.0
SOUTHERN STATES SS 4913N R2	65.3			2.0
DELTA GROW 4967 LL	64.5			2.3
PENNYRILE (long term check-released 1987)	55.5	40.3	41.2	2.0
<b>GROUP IV LATE AVERAGE</b>	<b>76.8</b>	<b>58.4</b>	<b>54.1</b>	<b>1.8</b>
<b>LSD (0.10)</b>	6.0	3.9	3.7	
<b>C.V.</b>	5.8	6.3	7.1	
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>				
STEYER 5101R2	<b>82.1</b>			1.7
MYCOGEN SEEDS 5N510R2	82.0			1.0
REV <sup>®</sup> 59R13 <sup>TM</sup>	78.3	59.3		2.0
SOUTHERN STATES LL 513N	78.2			2.0
REV <sup>®</sup> 52R74 <sup>TM</sup>	76.5	55.3		1.7
UNIVERSITY OF ARKANSAS UA5612	76.2	<b>60.8</b>		3.3
BECK 511R4 <sup>TM*</sup>	75.5			1.7
ARMOR X1413	75.1			1.0
USDA-ARS JTN-5203	74.5	54.8	55.4	2.3
UNISOUTH GENETICS USG ALLEN	72.8	56.6	56.9	2.0
HORNBECK HBK L5350	72.6			2.0
PIONEER 95Y10	72.1	54.8	53.3	2.0
UNIVERSITY OF ARKANSAS UA5213C	72.0			3.3
UNIVERSITY OF ARKANSAS OSAGE	71.9	57.1	56.8	2.7
MYCOGEN SEEDS 5N540R2	71.3			2.0
UNISOUTH GENETICS USG 5002T	69.0	55.7	52.5	2.3
WARREN SEED DS 5122 R2Y	68.3			1.7
LG SEEDS C5122R2	68.0			1.0
REV <sup>®</sup> 54R84 <sup>TM</sup>	67.5	55.5		3.3
ARMOR X1410	67.1			3.0
REV <sup>®</sup> 53R23 <sup>TM</sup>	66.8	46.7		2.0
PIONEER P50T40R	66.7			1.0
UNIVERSITY OF ARKANSAS OZARK	66.6	54.2	56.4	2.0
DELTA GROW 5130 RR2	66.6			1.3
BECK 522L4	66.5			1.3
HALO 5:45	66.0	53.2		1.7
DELTA GROW 5481 LL	64.8			2.0
HALO 5:26	64.2	53.1		2.0
UNIVERSITY OF ARKANSAS R04-1250RR	63.9			3.0
DELTA GROW 5461 LL	63.8			2.0
UNISOUTH GENETICS USG 5601T	62.8	50.7	<b>57.8</b>	2.0

continued

**Table 7. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
SEED CONSULTANTS SCS 9544RR	61.7			3.0
HORNBECK HBK RY5421	61.4	51.8		3.0
ESSEX (long term check-released 1974)	61.2	47.0	46.7	2.0
REV <sup>®</sup> 55R53 <sup>TM</sup>	61.1	47.8		2.7
DELTA GROW 5361 LL	60.5			3.0
HALO X530	60.3			1.7
UNIVERSITY OF ARKANSAS R04-1268RR	60.2			2.7
DELTA GROW 5625 RR2	59.7			2.7
SEED CONSULTANTS SCS 9574RR	58.9			2.3
REV <sup>®</sup> 51R53 <sup>TM</sup>	58.0	49.0	50.5	1.7
HALO 5:01-5	57.6	50.8		2.0
HORNBECK HBK RY5221	57.0	44.1		2.0
EXP USDA-ARS JTN-5110	56.4	47.0		3.0
<b>GROUP V AVERAGE</b>	<b>67.4</b>	<b>52.6</b>	<b>54.0</b>	<b>2.1</b>
<b>LSD (0.10)</b>	4.2	2.9	3.5	
<b>C.V.</b>	4.6	5.1	7.3	

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.

**AGRONOMIC INFORMATION**

<b>Location</b>	Calloway County
<b>Soil type</b>	Grenada silt loam A
<b>Previous crop</b>	Tobacco (winter wheat cover crop)
<b>Soil test</b>	pH 6.24 P 120 K 232
<b>Fertilizer applied</b>	None
<b>Agricultural practice</b>	Shallow tillage
<b>Pre-planting treatments</b>	Spartan Charge (8 oz/ac), Zidua (2.5 oz/ac), and Glyphosate (24 oz/ac) 05/13/2013
<b>Planting date</b>	5/24/2013
<b>Harvest dates</b>	MG II, III 9/27 MG IV Early 10/10 MG IV Late, V 11/02
<b>50% chance of killing frost</b>	10/30

**Precipitation and temperature history (Calloway County)**

	Total Monthly Precipitation (in.)	Temperature (°F)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	5.01	42.2	74.8	20.8
April	7.95	56.7	83.9	32.9
May	5.65	66.0	85.7	39.6
June	9.23	75.0	92.3	54.2
July	5.15	74.8	91.6	54.5
August	6.06	75.3	91.5	53.9
September	4.54	70.8	89.6	49.4
October	3.51	59.5	83.9	29.3
November (11/1-2)	0.00	52.5	68	36.1

**Table 8. 2013 Kentucky Soybean Variety Performance Tests, Daviess County.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013
	2013	2012-13	2011-13	
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>				
STEWART 4412R2	72.9	62.4	59.5	1.0
BECK 444NRTM*	71.8	61.1		1.0
BECK 423NL	71.7			1.0
PIONEER 94Y50	69.5	62.3	60.5	1.0
ASGROW AG4033	69.1	62.6		1.0
ASGROW AG4433	68.8	62.4		1.0
MYCOGEN SEEDS 5N451R2	67.2			1.0
MYCOGEN SEEDS X53413R2	66.7			1.3
MYCOGEN SEEDS 5N423R2	66.3			1.0
GREAT LAKES HYBRIDS GL4039R2	66.1			1.0
PROGENY 4510 RYS	65.5	61.2	62.3	1.0
PFISTER 45R22	64.8			1.0
WARREN SEED DS 4330 R2Y	64.0			1.0
PROGENY 4313 RY	63.9			1.0
SEED CONSULTANTS SCS 9434RR	62.3			1.0
ARMOR 44-R08	62.0	58.5	58.9	1.0
PFISTER 43R29	61.4	56.4		1.0
CAVERNDALE CF 456 RR2Y/STS <sub>n</sub>	61.3			1.0
MYCOGEN SEEDS 5N431R2	60.9			1.0
SEED CONSULTANTS SCS 9443RR	59.7			1.0
L&M GLICK 403 R2Y	59.2			1.0
ASGROW AG4232	58.8	58.5	58.7	1.3
SOUTHERN STATES SS 4312N R2	58.8	57.3	58.0	1.0
DYNA-GRO 38RY45	58.7	61.2	59.2	1.0
ARMOR X1401	58.3			1.0
L&M GLICK 412 R2Y	57.8	59.8	58.7	1.0
NK45-V8 BRAND	57.8			1.0
BIOGENE BG 7421	57.5	53.7	56.2	1.0
PROGENY 4211 RY	57.4	57.8	56.1	1.0
STINE 45RC32	57.3			1.3
CAVERNDALE CF EXP 416 RR2Y <sub>n</sub>	57.2			1.0
BIOGENE BG 7441	57.1			1.0
STEYER 4301R2	57.0	58.5		1.0
PIONEER 94Y23	56.7	59.0		1.0
SOUTHERN STATES SS 4510N R2	56.4	55.3	56.2	1.3
STEWART 4514R2	56.4			1.0
STEWART 4512R2	56.3	54.8	55.6	1.0
LG SEEDS C4411R2	56.2	53.9		1.0
PROGENY 4560 LL	55.8			1.0
SEED CONSULTANTS SCS 9421RR	55.8	54.6	54.6	1.0
ARMOR 45-R60	55.7	55.1		1.0
STINE 42RD02	55.4			1.0
REV <sup>®</sup> 44R22TM	55.0	54.1	52.7	1.0
SEED CONSULTANTS SCS 9412RR	54.9			1.0
UNISOUTH GENETICS USG 74A33R	54.7			1.0
CAVERNDALE CF 425 LL <sub>n</sub>	54.5			1.0
HALO 4:40	54.3			1.0
LG SEEDS C4544R2	53.9			1.0
STEYER 4203R2	53.7	53.7	54.7	1.0
SOUTHERN STATES LL 423N	53.6			1.0
SOUTHERN STATES SS 453N	53.4			1.0
DYNA-GRO 39RY43	53.3	55.1	56.5	1.0
STEWART 4113R2	53.0	56.0		1.0
STEYER 4401R2	52.6	54.6		1.0
STEWART 4212R2	52.6	54.6	53.5	1.0
WARREN SEED DS 4340 R2Y	52.6	53.9		1.0
BECK 418NRTM*	51.4	55.5		1.3
GREAT LAKES HYBRIDS GL4209R2	51.2			1.0
LG SEEDS C4340R2	50.4	56.2		1.0
NK41-J6 BRAND	49.8	52.7		1.0
NK43-K1 BRAND	46.4			1.0
BECK 459L4TM*	46.1			1.0
ASGROW AG4534	44.8			1.0
<b>GROUP IV EARLY AVERAGE</b>	<b>58.2</b>	<b>57.2</b>	<b>57.2</b>	<b>1.0</b>
<b>LSD (0.10)</b>	4.9	3.3	2.8	
<b>C.V.</b>	6.2	6.1	5.9	
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>				
ARMOR 49-C3	77.2			4.0
SEED CONSULTANTS SCS 9494RR	75.4			1.0
ASGROW AG4831	74.4	67.5		1.0
GREAT LAKES HYBRIDS GL4729R2	74.2			1.3
DELTA GROW 4765 RR2/STS	72.8	63.4		1.0
PIONEER P48T53R	72.2			0.8
ASGROW AG4832	71.5	62.3	59.3	1.6
ARMOR 47-R13	71.2	64.2		1.0
HALO 4:95	70.4	64.9		1.3

continued

**Table 8. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013
	2013	2012-13	2011-13	
SEED CONSULTANTS SCS 9474RR	69.9			2.3
SOUTHERN STATES SS 4917N R2	69.3			1.0
DELTA GROW 4670 RR2	68.8	61.8	59.1	1.0
HALO X466	68.3			1.0
ARMOR X48C	68.3			1.1
CAVERNDALE CF 486 RR2Y/STS <sub>n</sub>	68.2	63.1		2.0
ASGROW AG4933	68.1	60.9		1.0
DELTA GROW 4825 RR2/STS	67.8	61.1		2.0
DELTA GROW 4880 RR	66.7	59.0	56.0	2.3
STEYER 4701R2	65.9	57.8	56.7	2.0
CAVERNDALE CF 496 RR2Y <sub>n</sub>	65.9			1.0
REV <sup>®</sup> 47R34TM	65.9			2.0
DYNA-GRO S47RY13	65.3	59.0		1.3
HORNBECK HBK RY4620	65.3	61.2	59.1	1.0
PIONEER P47T36R	65.2			1.0
MYCOGEN SEEDS 5N479R2	64.7			1.3
SOUTHERN STATES SS 4725N5 R2	64.6			1.0
PROGENY 4819 LL	64.2	58.8		1.0
UNISOUTH GENETICS USG 74E88	64.0			1.0
WARREN SEED DS 4850 R2Y/STS	63.9	56.9		1.0
DELTA GROW 4867 LL	63.4			1.0
LG SEEDS C4780R2	62.8	55.6		1.0
HORNBECK HBK RY4721	62.7	57.2		1.7
SCHILLINGER SEED 4990.RC	62.7	55.6	55.4	1.7
REV <sup>®</sup> 49R94TM	62.6			2.7
ARMOR 48-R66	62.6			1.0
PROGENY 4900 RY	61.5	57.7		1.7
STEWART 4714R2	61.3			1.0
PFISTER 47R22	61.1	55.2		1.0
MYCOGEN SEEDS 5N478R2	61.1			1.7
ARMOR X47C	61.0			1.0
ARMOR X1409	61.0			1.0
HORNBECK HBK L4950	60.6			1.0
DELTA GROW 4990 LL	60.0			1.0
PENNYRILLE (long term check-released 1987)	59.9	52.8	46.9	1.3
STINE 48RD00	59.9			1.0
DELTA GROW 4925 RR2	59.4	57.3		2.0
REV <sup>®</sup> 48R33TM	59.0	54.2	53.9	1.3
ASGROW AG4934	59.0			2.0
PROGENY 4747 RY	58.9	55.3		1.7
SCHILLINGER SEED 458.RCS	58.5	59.2	57.0	1.3
HALO X496	58.5			1.0
DELTA GROW 4967 LL	58.2			1.0
REV <sup>®</sup> 48R44TM	58.1			1.3
PROGENY 4928 LL	58.1	53.5	51.9	1.0
REV <sup>®</sup> 49R22TM	58.0	51.7	51.7	1.7
UNIVERSITY OF MISSOURI S09-9943	58.0			1.0
ARMOR 49-R56	58.0			1.3
NK46-G9 BRAND	57.8			2.3
SCHILLINGER SEED 4712R	57.6			2.3
CAVERNDALE CF 466 RR2Y <sub>n</sub>	57.6			1.0
REV <sup>®</sup> 46R64TM	57.4			1.7
PIONEER 94Y70	57.2	53.3	52.9	2.0
PROGENY 4850 RYS	57.2	54.8		1.3
WARREN SEED DS 4633 R2Y	57.1	56.5		1.3
REV <sup>®</sup> 47R53TM	57.0	53.8	54.7	1.1
HORNBECK HBK L4850	56.9			1.0
SOUTHERN STATES SS 4913N R2	56.9			1.3
DELTA GROW 4755 RR2	56.7	54.8		2.0
HALO 4:65	56.6	52.7	50.4	1.3
SOUTHERN STATES LL 473N	56.6			1.0
BECK 477NRTM*	56.3	57.6	56.4	1.7
PROGENY 4613 RYS	56.3			1.3
HALO 5:01	56.2	53.4		1.3
CAVERNDALE CF 485 LL <sub>n</sub>	55.8	52.6		2.3
STEYER 4702R2	55.7	55.6		1.3
ARMOR X1406	55.4			1.3
PIONEER P49T97R	55.0			1.0
DYNA-GRO S48RS53	54.8	57.2		1.1
PIONEER P46T21R	54.8			1.0
ARMOR X49C	54.6			1.3
CAVERNDALE CF 469 LL/STS <sub>n</sub>	54.1			1.1
STEYER 4802R2	53.9			1.0
SOUTHERN STATES SS 4700 R2-STS	53.8	52.3	54.3	1.7
PROGENY 4930 LL	53.6			1.0
NK46-L2 BRAND	53.6			1.7
REV <sup>®</sup> 48R22TM	53.5	50.3	53.2	1.0
SCHILLINGER SEED 495.RC	53.2	49.8	49.6	1.7
DELTA GROW 4981 LL/STS	53.0			1.3
LG SEEDS C4867R2	52.4			1.7

continued

**Table 8. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013
	2013	2012-13	2011-13	
ASGROW AG4632	52.1	53.3	53.8	1.0
HALO 4:94	51.5	51.3	50.5	1.3
BECK 483NL	50.5			1.3
PROGENY 4710 RYS	50.3	51.9	53.6	2.0
NK49-F8 BRAND	49.2	51.5		1.0
DELTA GROW 4940 RR	48.1			4.0
HALO 4:97	45.6			2.7
<b>GROUP IV LATE AVERAGE</b>	<b>60.4</b>	<b>56.7</b>	<b>54.1</b>	<b>1.4</b>
<b>LSD (0.10)</b>	6.6	4.4	3.6	
<b>C.V.</b>	8.1	7.9	7.4	
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>				
WARREN SEED DS 5122 R2Y	<b>65.8</b>			1.3
BECK 522L4	64.4			1.0
HORNBECK HBK L5350	63.3			2.3
UNIVERSITY OF ARKANSAS OSAGE	63.2	54.0	<b>57.1</b>	1.7
REV <sup>®</sup> 53R23 <sup>TM</sup>	62.7	52.1		1.0
HORNBECK HBK RY5421	62.1	55.9		2.7
UNIVERSITY OF ARKANSAS R04-1268RR	61.1			2.3
BECK 511R4 <sup>TM*</sup>	61.0			1.0
HALO 5:01-5	60.9	57.2		1.0
REV <sup>®</sup> 55R53 <sup>TM</sup>	60.9	55.5		2.3
REV <sup>®</sup> 59R13 <sup>TM</sup>	60.1	54.8		2.0
UNIVERSITY OF ARKANSAS R04-1250RR	59.9			2.3
REV <sup>®</sup> 51R53 <sup>TM</sup>	59.5	52.8	55.6	1.3
SEED CONSULTANTS SCS 9544RR	59.5			2.3
MYCOGEN SEEDS 5N540R2	59.3			2.0
SOUTHERN STATES LL 513N	59.0			1.0
MYCOGEN SEEDS 5N510R2	58.0			1.3
ARMOR X1413	57.9			1.0
LG SEEDS C5122R2	57.7			1.3
UNISOUTH GENETICS USG 5002T	57.6	<b>59.5</b>	55.8	2.3
PIONEER P50T40R	57.3			1.0
STEYER 5101R2	56.1			1.0
SEED CONSULTANTS SCS 9574RR	56.0			2.3
UNIVERSITY OF ARKANSAS OZARK	55.5	52.8	53.0	2.0
DELTA GROW 5361 LL	54.8			1.9
UNIVERSITY OF ARKANSAS UA5213C	54.7			3.0
ARMOR X1410	54.3			2.3
DELTA GROW 5461 LL	53.6			1.0
REV <sup>®</sup> 54R84 <sup>TM</sup>	52.8	52.3		2.7
USDA-ARS JTN-5203	52.5	51.6	51.4	2.3
EXP USDA-ARS JTN-5110	52.3	52.7		2.0
UNIVERSITY OF ARKANSAS UA5612	51.9	51.9		1.7
PIONEER 95Y10	51.8	53.0	53.3	1.3
HALO 5:45	51.0	49.3		1.7
UNISOUTH GENETICS USG 5601T	50.7	52.6	51.5	2.1
REV <sup>®</sup> 52R74 <sup>TM</sup>	50.4	48.7		1.3
HALO X530	50.4			1.0
DELTA GROW 5625 RR2	50.3			2.0
DELTA GROW 5130 RR2	50.2			1.0
DELTA GROW 5481 LL	47.8			1.0
ESSEX (long term check-released 1974)	47.7	46.6	47.1	1.3
HALO 5:26	47.3	46.8		2.0
UNISOUTH GENETICS USG ALLEN	45.9	49.6	51.0	2.0
HORNBECK HBK RY5221	45.4	47.2		2.0
<b>GROUP V AVERAGE</b>	<b>55.7</b>	<b>52.2</b>	<b>52.9</b>	<b>1.7</b>
<b>LSD (0.10)</b>	6.9	4.4	4.0	
<b>C.V.</b>	9.0	8.5	8.8	

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.

**AGRONOMIC INFORMATION**

Location	Daviess County
Soil type	Loring silt loam
Previous crop	Corn
Soil test	NA
Fertilizer applied	DAP 9-23-30 (corn, 500 lbs/ac.)
Agricultural practice	Shallow tillage
Pre-planting treatments	NA
Planting date	6/14/2013
Harvest dates	MG II, III NA MG IV Early and Late 10/25 MG V 10/26

50% chance of killing frost 10/25

**Precipitation and temperature history (Daviess County)**

	Total Monthly Precipitation (in.)	Temperature (°F)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	3.62	41.6	70	23
April	4.08	57.8	85	31
May	3.64	68.6	89	44
June	6.43	76.6	95	45
July	2.40	76.0	93	52
August	0.44	76.4	97	56
September	3.02	71.3	93	49
October	0.73	58.2	87	24

**Table 9. 2013 Kentucky Soybean Variety Performance Tests, Fayette County.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013	PLANT HEIGHT (IN.) 2013	MATURITY DATE 2013 <sup>B</sup>
	2013	2012-13	2011-13			
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>						
CAVERNDALE CF 286 RR2Y/ST5n	64.1	NA	NA	1.0	33	23
<b>GROUP II AVERAGE</b>	<b>NA</b>			<b>NA</b>	<b>33</b>	<b>23 (Sept. 23)</b>
<b>LSD (0.10)</b>	NA					
<b>C.V.</b>	NA					
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>						
REV <sup>®</sup> 38R10 <sup>TM</sup>	73.7	57.1	59.1	1.0	37	33
PIONEER 93Y92	68.4	44.7	51.2	1.3	38	28
SOUTHERN STATES SS 3813N R2	65.6			1.0	32	34
DYNA-GRO S39RY33	64.9			1.3	36	30
UNISOUTH GENETICS USG 73P93R	64.7			1.0	36	34
SEED CONSULTANTS SCS 9393RR	64.6			1.0	36	35
ARMOR 39-R16	64.1	43.3		1.0	38	31
LG SEEDS C3989R2	64.1	53.9		1.0	35	29
PIONEER P35T58R	63.8			1.0	38	28
STINE 38RD02	63.2			4.3	34	33
L&M GLICK 853 R2Y	62.9			1.0	33	32
BECK 391R4 <sup>TM</sup> *	62.7			1.0	33	30
PIONEER 39T67R	62.3			1.0	34	31
PIONEER 93Y84	61.8	52.6		1.0	33	33
SEED CONSULTANTS SCS 9354RR	60.7			1.0	33	27
NK39-U2 BRAND	60.1	48.6	54.6	1.0	34	31
WARREN SEED DS 4010 R2Y	60.1			2.0	37	33
CAVERNDALE CF 380 RR2Yn	60.0			1.0	35	31
DYNA-GRO S38RY84	59.8			1.0	32	32
SEED CONSULTANTS SCS 9392RR	59.0	50.5	53.7	1.0	36	33
SEED CONSULTANTS SCS 9363RR	58.7			1.0	37	28
SEED CONSULTANTS SCS 9373RR	58.2			1.0	35	29
SOUTHERN STATES SS 3801N R2	57.3			1.0	32	33
MYCOGEN SEEDS 5N393R2	57.0			1.0	37	33
ASGROW AG3832	56.8	46.4	53.7	1.0	33	35
ASGROW AG3934	55.0			1.0	33	27
<b>GROUP III AVERAGE</b>	<b>61.9</b>	<b>49.6</b>	<b>54.5</b>	<b>1.2</b>	<b>35</b>	<b>31 (Oct. 1)</b>
<b>LSD (0.10)</b>	4.8	3.1	2.9			
<b>C.V.</b>	5.7	5.8	6.1			
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>						
ASGROW AG4232	80.4	57.0	61.7	1.7	42	39
ARMOR 44-R08	76.6	55.5	62.2	1.0	36	39
BECK 423NL	71.9			1.0	36	31
L&M GLICK 412 R2Y	69.5	50.8	57.3	1.0	38	36
HALO 4:40	68.1			1.0	35	33
SOUTHERN STATES LL 423N	67.7			1.0	36	36
CAVERNDALE CF 456 RR2Y/ST5n	67.7			1.0	33	38
BIOGENE BG 7441	65.4			1.0	35	39
STINE 42RD02	65.2			1.0	34	35
L&M GLICK 403 R2Y	64.7			1.0	41	38
LG SEEDS C4544R2	64.6			1.0	41	37
CAVERNDALE CF EXP 416 RR2Yn	63.6			1.0	40	37
STEWART 4512R2	63.2	50.8	59.5	1.0	38	37
NK43-K1 BRAND	62.9			1.0	39	36
PROGENY 4560 LL	62.1			1.0	41	34
SEED CONSULTANTS SCS 9421RR	61.7	48.0	55.4	1.0	35	39
STEWART 4514R2	61.5			1.0	39	37
BECK 418NR <sup>TM</sup> *	61.3	47.9		1.0	35	35
MYCOGEN SEEDS 5N451R2	60.7			1.0	39	40
STEWART 4113R2	60.0	45.1		1.0	35	36
DYNA-GRO 38RY45	60.0	46.1	55.3	1.0	36	40
PIONEER 94Y23	59.8	47.9		1.0	38	36
ASGROW AG4033	59.8	47.1		1.0	34	31
STEWART 4412R2	59.5	49.7	56.9	1.0	43	35
STEYER 4301R2	59.2	47.2		1.0	35	38
GREAT LAKES HYBRIDS GL4039R2	59.2			1.0	39	38
SEED CONSULTANTS SCS 9434RR	58.9			1.7	42	37
NK41-J6 BRAND	58.7	44.6		1.0	40	34
ARMOR 45-R60	58.4	45.1		1.0	34	41
NK45-V8 BRAND	57.9			1.0	37	35
PROGENY 4211 RY	57.9	44.9	53.5	1.0	34	36
STINE 45RC32	57.6			1.3	37	37
CAVERNDALE CF 425 LLn	57.5			1.0	37	32
PIONEER 94Y50	57.5	44.9	53.9	1.0	41	39
ASGROW AG4534	57.4			1.0	42	38
BECK 459L4 <sup>TM</sup> *	57.2			1.0	44	36
PROGENY 4510 RYS	57.2	45.2	56.0	1.0	36	41
UNISOUTH GENETICS USG 74A33R	57.1			1.0	36	39
WARREN SEED DS 4330 R2Y	56.9			1.0	36	40
SOUTHERN STATES SS 4510N R2	56.8	53.4	57.6	1.0	42	39

continued



Table 9. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013	PLANT HEIGHT (IN.) 2013	MATURITY DATE 2013 <sup>B</sup>
	2013	2012-13	2011-13			
PROGENY 4313 RY	56.8			1.0	41	38
WARREN SEED DS 4340 R2Y	56.8	55.8		1.0	36	36
MYCOGEN SEEDS 5N431R2	56.4			1.0	34	38
STEYER 4401R2	56.2	44.9		1.0	32	33
DYNA-GRO 39RY43	56.2	44.9	54.5	1.0	35	36
PFISTER 45R22	56.1			1.0	37	38
PFISTER 43R29	56.1	43.3		1.0	36	36
MYCOGEN SEEDS X53413R2	55.9			2.0	37	30
LG SEEDS C4340R2	55.8	43.0		1.0	36	36
LG SEEDS C4411R2	55.8	56.1		1.0	44	38
SEED CONSULTANTS SCS 9412RR	55.4			1.0	35	36
ASGROW AG4433	55.3	44.4		1.0	41	32
SOUTHERN STATES SS 453N	55.2			1.0	38	35
GREAT LAKES HYBRIDS GL4209R2	55.1			1.0	34	38
STEYER 4203R2	54.1	41.7	52.1	1.0	33	38
SEED CONSULTANTS SCS 9443RR	54.0			1.0	38	38
BIOGENE BG 7421	53.7	40.8	50.6	1.0	40	36
SOUTHERN STATES SS 4312N R2	53.4	42.3	56.6	1.0	35	38
MYCOGEN SEEDS 5N423R2	53.1			1.0	36	35
REV® 44R22 <sup>TM</sup>	53.0	43.0	49.9	1.0	38	42
STEWART 4212R2	52.4	39.4	49.0	1.3	39	35
BECK 444NR <sup>TM*</sup>	52.4	41.6		1.0	38	43
ARMOR X1401	50.3			1.0	39	42
<b>GROUP IV EARLY AVERAGE</b>	<b>59.4</b>	<b>46.8</b>	<b>55.4</b>	<b>1.1</b>	<b>38</b>	<b>37 (Oct. 7)</b>
<b>LSD (0.10)</b>	4.2	2.9	2.9			
<b>C.V.</b>	5.3	5.9	6.4			
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>						
ASGROW AG4934	70.0			1.0	47	43
ARMOR X1409	69.8			1.3	44	44
WARREN SEED DS 4633 R2Y	69.8	51.3		1.0	38	43
STINE 48RD00	68.3			1.0	38	48
SEED CONSULTANTS SCS 9474RR	68.3			1.0	45	48
WARREN SEED DS 4850 R2Y/STS	67.7	50.5		1.0	45	44
ASGROW AG4831	67.7	51.6		1.0	38	46
STEYER 4802R2	67.3			1.0	40	43
ASGROW AG4832	66.6	50.7	55.1	1.0	44	44
HALO 4:95	66.4	50.0		1.0	34	46
DELTA GROW 4670 RR2	65.6	50.2	55.4	1.0	40	44
DELTA GROW 4825 RR2/STS	65.4	48.5		1.0	41	53
CAVERNDALE CF 496 RR2Yn	65.4			1.3	41	46
PIONEER P46T21R	65.3			1.0	38	42
BECK 483NL	65.2			1.0	39	44
PROGENY 4710 RYS	65.0	51.1	54.5	1.3	41	42
DELTA GROW 4990 LL	64.8			1.0	43	57
DYNA-GRO S48R553	64.8	48.2		1.0	42	42
ASGROW AG4933	64.6	52.3		1.0	44	42
HORNBECK HBK L4850	64.4			1.0	37	46
PIONEER P48T53R	64.3			1.7	38	43
REV® 47R34 <sup>TM</sup>	64.0			1.7	45	43
DELTA GROW 4755 RR2	63.9	48.2		1.3	43	43
SOUTHERN STATES SS 4913N R2	63.8			1.0	42	43
REV® 48R44 <sup>TM</sup>	63.2			1.0	43	45
ARMOR 48-R66	63.1			1.0	39	43
CAVERNDALE CF 466 RR2Yn	62.8			1.7	36	42
CAVERNDALE CF 486 RR2Y/STSn	62.8	48.6		1.0	35	51
ARMOR X47C	62.3			1.3	37	43
ARMOR X1406	62.1			1.0	39	43
REV® 47R53 <sup>TM</sup>	62.0	47.8	50.9	1.3	39	43
NK46-L2 BRAND	61.9			2.3	44	43
HORNBECK HBK RY4620	61.9	45.0	47.8	1.0	40	43
STEWART 4714R2	61.7			1.0	45	43
PROGENY 4900 RY	61.3	47.3		1.0	35	45
DELTA GROW 4925 RR2	61.0	49.5		1.0	43	44
SOUTHERN STATES SS 4725NS R2	60.9			1.0	46	42
SCHILLINGER SEED 495.RC	60.8	45.5	47.3	2.0	49	51
SOUTHERN STATES SS 4700 R2-STS	60.6	48.9	52.4	1.0	37	46
BECK 477NR <sup>TM*</sup>	60.6	44.3	46.7	1.7	47	45
CAVERNDALE CF 469 LL/STSn	60.6			1.3	48	53
NK49-F8 BRAND	60.5	48.9		1.0	39	43
SOUTHERN STATES SS 4917N R2	60.4			1.0	35	42
SCHILLINGER SEED 4990.RC	60.1	45.9	50.3	1.0	43	42
HALO 5:01	60.0	46.6		1.3	45	60
ARMOR 47-R13	59.9	47.1		1.0	43	42
SCHILLINGER SEED 4712R	59.7			2.0	47	45
STEYER 4702R2	59.7	45.8		1.0	41	42
UNIVERSITY OF MISSOURI S09-9943	59.6			1.0	40	46
DELTA GROW 4967 LL	59.3			1.7	49	60
DELTA GROW 4765 RR2/STS	59.2	50.3		1.0	47	43
ASGROW AG4632	59.1	46.1	51.8	1.3	42	43

continued

Table 9. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013	PLANT HEIGHT (IN.) 2013	MATURITY DATE 2013 <sup>B</sup>
	2013	2012-13	2011-13			
REV <sup>®</sup> 49R94 <sup>TM</sup>	59.1			1.3	41	43
CAVERNDALE CF 485 LLn	59.0	45.0		1.0	36	46
ARMOR X49C	58.9			2.0	46	51
DELTA GROW 4981 LL/STS	58.9			2.0	54	60
SOUTHERN STATES LL 473N	58.9			1.0	37	46
ARMOR 49-R56	58.8			1.0	32	46
PROGENY 4613 RYS	58.7			1.0	44	43
MYCOGEN SEEDS 5N478R2	58.6			1.7	46	43
SEED CONSULTANTS SCS 9494RR	58.6			1.0	41	46
PFISTER 47R22	58.4	47.9		1.0	42	46
HALO 4:94	57.9	43.1	45.2	1.0	44	52
LG SEEDS C4780R2	57.8	46.9		1.0	45	43
HORNBECK HBK RY4721	57.7	47.3		1.3	42	45
STEYER 4701R2	57.6	47.4	51.3	1.0	41	42
PIONEER P49T97R	57.4			1.0	39	44
SCHILLINGER SEED 458.RCS	57.4	44.9	49.0	1.0	40	41
NK46-G9 BRAND	57.3			1.7	37	41
HALO X466	57.2			1.0	35	42
ARMOR X48C	57.2			2.0	42	42
GREAT LAKES HYBRIDS GL4729R2	57.0			1.0	45	42
PROGENY 4928 LL	56.7	44.6	46.0	1.3	46	53
PIONEER P47T36R	56.7			1.0	36	44
HALO 4:97	56.5			1.3	46	56
UNISOUTH GENETICS USG 74E88	56.3			1.0	37	42
LG SEEDS C4867R2	56.3			1.0	39	48
REV <sup>®</sup> 49R22 <sup>TM</sup>	56.0	43.1	43.2	1.3	47	42
PROGENY 4930 LL	55.8			1.0	39	57
PROGENY 4850 RYS	55.7	46.4		1.0	44	45
PENNYRILE (long term check-released 1987)	55.6	41.1	39.7	1.3	46	43
HALO X496	55.2			1.0	45	48
PROGENY 4747 RY	55.1	42.8		1.0	42	42
MYCOGEN SEEDS 5N479R2	54.3			1.0	45	42
PROGENY 4819 LL	54.0	43.0		1.3	36	46
DELTA GROW 4940 RR	53.9			3.0	53	60
PIONEER 94Y70	53.8	44.0	47.5	1.7	47	42
REV <sup>®</sup> 46R64 <sup>TM</sup>	53.8			1.7	39	44
ARMOR 49-C3	53.4			3.7	48	60
DELTA GROW 4880 RR	53.4	41.1	43.3	1.7	41	45
DELTA GROW 4867 LL	53.0			1.0	37	47
HORNBECK HBK L4950	52.8			1.3	49	56
DYNA-GRO 547RY13	52.6	43.6		1.0	40	45
REV <sup>®</sup> 48R33 <sup>TM</sup>	51.3	40.2	47.1	1.3	46	45
REV <sup>®</sup> 48R22 <sup>TM</sup>	51.3	41.2	44.8	1.7	42	44
HALO 4:65	50.0	41.1	45.2	2.3	39	42
<b>GROUP IV LATE AVERAGE</b>	<b>60.0</b>	<b>46.6</b>	<b>48.3</b>	<b>1.3</b>	<b>42</b>	<b>46 (Oct. 16)</b>
<b>LSD (0.10)</b>	4.4	2.9	2.9			
<b>C.V.</b>	5.4	5.9	6.7			
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>						
LG SEEDS C5122R2	72.9			1.3	42	53
HORNBECK HBK L5350	70.5			3.0	38	76
ARMOR X1410	70.3			2.0	54	71
WARREN SEED DS 5122 R2Y	70.1			1.0	42	59
STEYER 5101R2	67.9			1.0	45	55
UNISOUTH GENETICS USG 5601T	66.9	51.3	52.9	2.3	49	71
REV <sup>®</sup> 51R53 <sup>TM</sup>	65.6	50.1	52.0	1.3	38	61
SEED CONSULTANTS SCS 9574RR	64.7			2.7	53	79
UNISOUTH GENETICS USG ALLEN	64.6	44.6	49.3	2.0	49	74
REV <sup>®</sup> 52R74 <sup>TM</sup>	64.5	49.2		1.7	42	64
BECK 522L4	64.4			1.0	38	81
UNIVERSITY OF ARKANSAS UA5213C	63.6			2.7	42	71
DELTA GROW 5481 LL	63.5			2.0	45	78
HALO 5:45	63.4	44.9		2.3	42	76
DELTA GROW 5130 RR2	63.1			1.0	42	56
HORNBECK HBK RY5221	63.0	48.4		1.7	45	64
DELTA GROW 5461 LL	62.9			1.7	44	76
SOUTHERN STATES LL 513N	62.4			1.0	41	76
PIONEER P50T40R	62.3			1.0	37	48
EXP USDA-ARS JTN-5110	62.0	49.0		2.7	40	71
MYCOGEN SEEDS 5N510R2	61.6			1.3	40	59
ESSEX (long term check-released 1974)	61.0	48.1	47.0	2.0	38	59
UNISOUTH GENETICS USG 5002T	60.9	49.1	51.2	2.3	39	64
UNIVERSITY OF ARKANSAS OSAGE	60.6	47.9	50.4	2.3	38	78
PIONEER 95Y10	60.2	50.2	50.7	1.0	39	58
BECK 511R4 <sup>TM*</sup>	59.9			1.0	44	59
UNIVERSITY OF ARKANSAS OZARK	59.8	45.5	46.1	2.7	47	74

continued

**Table 9.** (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LODGING 2013	PLANT HEIGHT (IN.) 2013	MATURITY DATE 2013 <sup>B</sup>
	2013	2012-13	2011-13			
HALO 5:01-5	59.7	45.4		1.7	45	76
HALO X530	59.6			2.0	57	78
SEED CONSULTANTS SCS 9544RR	59.0			3.0	44	66
REV <sup>®</sup> 55R53 <sup>TM</sup>	58.6	44.9		2.7	45	78
USDA-ARS JTN-5203	57.8	46.9	48.9	2.7	43	71
REV <sup>®</sup> 54R84 <sup>TM</sup>	57.1	42.4		2.7	42	74
ARMOR X1413	56.2			1.0	45	48
DELTA GROW 5625 RR2	56.2			2.7	43	74
REV <sup>®</sup> 59R13 <sup>TM</sup>	56.2	46.1		2.3	44	81
DELTA GROW 5361 LL	55.9			2.0	48	74
UNIVERSITY OF ARKANSAS UA5612	55.6	42.9		3.3	41	76
HALO 5:26	54.4	47.0		2.3	46	76
UNIVERSITY OF ARKANSAS R04-1250RR	51.6			2.3	45	78
REV <sup>®</sup> 53R23 <sup>TM</sup>	48.5	37.0		2.0	37	71
MYCOGEN SEEDS 5N540R2	48.1			3.0	44	76
UNIVERSITY OF ARKANSAS R04-1268RR	47.9			2.3	43	76
HORNBECK HBK RY5421	44.1	35.5		2.7	39	79
<b>GROUP V AVERAGE</b>	<b>60.4</b>	<b>46.0</b>	<b>49.8</b>	<b>2.0</b>	<b>43</b>	<b>70 (Nov. 9)</b>
<b>LSD (0.10)</b>	4.5	2.7	2.8			
<b>C.V.</b>	5.4	5.5	6.3			

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 31.

**AGRONOMIC INFORMATION**

**Location** Fayette County  
**Soil type** Lanton silty clay loam  
**Previous crop** Corn  
**Soil test** pH 6.15  
P 367  
K 465  
**Fertilizer applied** None  
**Agricultural practice** No-till  
**Pre-planting treatments** Glyphosate (40 oz/ac) And Authority XL (6.5 oz/ac) 5/2/2013  
Gramoxone SL (2.5 qt/ac) and First Rate 84WDG (0.3 oz/ac)  
6/8/2013  
**Planting date** 6/12/2013  
**Harvest dates** MG II, III 11/04  
MG IV Early 11/05  
MG IV Late 11/15  
MG V 11/20  
**50% chance of killing frost** 10/26

**Precipitation and temperature history (Fayette County)**

	Total Monthly Precipitation (in.)	Temperature (°F)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	5.57	38.5	70.4	18.6
April	5.16	55.0	81.4	28.1
May	5.64	64.6	84.4	39.2
June	6.53	72.3	89.4	55.1
July	9.17	73.2	90.3	54.3
August	7.13	73.6	88.8	52.6
September	1.42	68.5	87.7	48.8
October	4.03	56.8	82.3	27.1
November (11/1-20)	1.69	46.0	68.5	20.8

**Table 10. 2013 Kentucky Soybean Variety Performance Tests, Hardin County.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup> 2013	LOGGING 2013
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>		
CAVERNDALE CF 286 RR2Y/STSn	41.8	1.0
<b>GROUP II AVERAGE</b>		
	NA	NA
<b>LSD (0.10)</b>		
	NA	
<b>C.V.</b>		
	NA	
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>		
LG SEEDS C3989R2	66.6	1.3
PIONEER P35T58R	65.5	1.7
UNISOUTH GENETICS USG 73P93R	64.4	1.0
PIONEER 93Y84	64.0	1.0
WARREN SEED DS 4010 R2Y	62.4	2.0
SEED CONSULTANTS SCS 9354RR	61.9	1.0
SOUTHERN STATES SS 3813N R2	61.1	1.0
SEED CONSULTANTS SCS 9373RR	60.7	1.0
REV <sup>®</sup> 38R10 <sup>TM</sup>	59.8	1.3
PIONEER 39T67R	58.1	1.0
SEED CONSULTANTS SCS 9363RR	57.9	1.7
ASGROW AG3832	57.0	1.0
CAVERNDALE CF 380 RR2Yn	56.7	2.0
ARMOR 39-R16	56.7	1.0
MYCOGEN SEEDS 5N393R2	56.5	1.3
PIONEER 93Y92	55.8	1.3
STINE 38RD02	55.8	1.7
SEED CONSULTANTS SCS 9393RR	55.8	1.0
ASGROW AG3934	55.6	1.7
BECK 391R4 <sup>TM</sup> *	54.8	1.0
DYNA-GRO S39RY33	54.4	2.0
SOUTHERN STATES SS 3801N R2	53.9	2.3
NK39-U2 BRAND	53.3	1.0
DYNA-GRO S38RY84	51.6	1.3
SEED CONSULTANTS SCS 9392RR	51.2	1.0
L&M GLICK 853 R2Y	46.6	1.0
<b>GROUP III AVERAGE</b>		
	57.6	1.3
<b>LSD (0.10)</b>		
	8.4	
<b>C.V.</b>		
	10.8	
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>		
L&M GLICK 412 R2Y	66.1	1.0
ASGROW AG4232	65.9	1.3
WARREN SEED DS 4340 R2Y	64.7	1.0
SEED CONSULTANTS SCS 9434RR	63.7	1.3
SOUTHERN STATES SS 4312N R2	63.4	1.0
STEYER 4401R2	62.0	1.0
SOUTHERN STATES SS 4510N R2	60.9	1.0
WARREN SEED DS 4330 R2Y	60.0	1.0
NK43-K1 BRAND	59.8	1.0
PROGENY 4313 RY	59.7	1.0
ARMOR 45-R60	58.9	1.0
UNISOUTH GENETICS USG 74A33R	58.6	1.0
MYCOGEN SEEDS X53413R2	57.8	1.3
SEED CONSULTANTS SCS 9443RR	57.7	1.0
MYCOGEN SEEDS 5N451R2	57.3	1.0
BECK 418NR <sup>TM</sup> *	57.3	1.0
STEWART 4113R2	57.2	1.0
LG SEEDS C4411R2	57.1	1.0
MYCOGEN SEEDS 5N423R2	57.0	1.0
PROGENY 4211 RY	56.5	1.0
STEYER 4301R2	56.4	1.0
ARMOR 44-R08	56.3	1.0
GREAT LAKES HYBRIDS GL4039R2	56.2	1.0
STINE 45RC32	56.2	1.0
CAVERNDALE CF EXP 416 RR2Yn	55.9	1.0
PFISTER 43R29	55.8	1.0
GREAT LAKES HYBRIDS GL4209R2	55.8	1.0
BIOGENE BG 7441	55.8	1.0
ASGROW AG4433	55.6	1.0
SEED CONSULTANTS SCS 9421RR	55.6	1.0
STEWART 4512R2	55.4	1.0
MYCOGEN SEEDS 5N431R2	55.4	1.0
BECK 444NR <sup>TM</sup> *	55.4	1.0
SOUTHERN STATES LL 423N	55.3	1.0
LG SEEDS C4544R2	55.0	1.0
ASGROW AG4534	54.9	1.0
SEED CONSULTANTS SCS 9412RR	54.9	1.0
BIOGENE BG 7421	54.8	1.0
STEWART 4212R2	54.2	1.0

continued

**Table 10. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup> 2013	LOGGING 2013
CAVERNDALE CF 456 RR2Y/STSn	54.2	1.0
NK45-V8 BRAND	54.2	1.0
PROGENY 4560 LL	54.1	1.0
PROGENY 4510 RYS	53.5	1.0
BECK 423NL	53.4	1.0
HALO 4:40	53.4	1.0
DYNA-GRO 39RY43	53.4	1.0
CAVERNDALE CF 425 LLn	53.2	1.0
STEYER 4203R2	52.7	1.0
PIONEER 94Y50	52.2	1.7
STEWART 4514R2	52.1	1.0
ASGROW AG4033	52.0	1.0
PFISTER 45R22	52.0	1.0
LG SEEDS C4340R2	51.6	1.0
STINE 42RD02	50.7	1.0
L&M GLICK 403 R2Y	50.1	1.0
DYNA-GRO 38RY45	49.5	1.0
ARMOR X1401	49.4	1.0
NK41-J6 BRAND	48.9	1.0
PIONEER 94Y23	47.4	1.0
REV <sup>®</sup> 44R22 <sup>TM</sup>	47.3	1.0
BECK 459L4 <sup>TM</sup> *	46.9	1.0
STEWART 4412R2	45.3	1.0
SOUTHERN STATES SS 453N	44.3	1.0
<b>GROUP IV EARLY AVERAGE</b>		<b>55.2</b>
<b>LSD (0.10)</b>		4.8
<b>C.V.</b>		6.4
<b>MATURITY GROUP IV LATE (relative MG 4.5-4.9)</b>		
ASGROW AG4632	81.0	1.3
ARMOR 47-R13	76.9	1.0
STEWART 4714R2	74.3	1.0
STEYER 4702R2	72.5	1.0
SCHILLINGER SEED 458.RCS	72.3	1.0
REV <sup>®</sup> 48R44 <sup>TM</sup>	70.8	1.3
PROGENY 4850 RYS	70.2	1.0
HORNBECK HBK RY4721	70.1	2.0
ASGROW AG4831	68.6	1.0
DELTA GROW 4755 RR2	67.6	1.0
GREAT LAKES HYBRIDS GL4729R2	67.4	1.0
ASGROW AG4933	67.1	1.3
ARMOR X49C	66.6	1.7
ARMOR 48-R66	66.1	1.3
HALO X496	66.0	1.0
WARREN SEED DS 4850 R2Y/STS	65.9	1.3
PROGENY 4710 RYS	65.8	1.0
PROGENY 4930 LL	65.8	1.0
WARREN SEED DS 4633 R2Y	65.7	1.3
HORNBECK HBK L4850	65.5	1.0
UNISOUTH GENETICS USG 74E88	65.3	1.0
PIONEER P47T36R	65.2	1.0
CAVERNDALE CF 486 RR2Y/STSn	65.0	1.0
DELTA GROW 4670 RR2	64.4	1.0
PROGENY 4747 RY	63.9	1.0
HORNBECK HBK RY4620	63.8	1.0
ARMOR X48C	63.8	1.3
HORNBECK HBK L4950	63.8	1.0
ARMOR X47C	63.7	1.3
LG SEEDS C4780R2	63.3	1.0
MYCOGEN SEEDS 5N478R2	63.2	1.0
CAVERNDALE CF 496 RR2Yn	62.9	1.0
SOUTHERN STATES SS 4913N R2	62.9	1.0
DYNA-GRO S47RY13	62.9	1.0
NK46-G9 BRAND	62.8	1.0
BECK 477NR <sup>TM</sup> *	62.3	2.0
PROGENY 4613 RYS	62.2	1.3
SCHILLINGER SEED 495.RC	61.9	1.3
ASGROW AG4832	61.8	1.3
MYCOGEN SEEDS 5N479R2	61.8	1.0
BECK 483NL	61.8	1.3
ASGROW AG4934	61.7	1.0
SOUTHERN STATES LL 473N	61.3	1.0
PIONEER P48T53R	61.2	1.3
PIONEER 94Y70	60.4	1.7
PROGENY 4819 LL	60.4	1.0
REV <sup>®</sup> 49R22 <sup>TM</sup>	60.3	1.3
HALO 4:95	60.3	1.0
HALO 4:97	60.3	1.0
ARMOR X1409	60.1	1.0
PIONEER P49T97R	59.9	1.0

continued



**Table 10. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup> 2013	LODGING 2013
DELTA GROW 4940 RR	59.9	2.3
NK46-L2 BRAND	59.8	1.0
ARMOR 49-R56	59.8	1.3
PFISTER 47R22	59.4	1.0
CAVERNDALE CF 485 LLn	59.0	1.0
SOUTHERN STATES SS 4700 R2-ST5	58.9	1.0
DELTA GROW 4765 RR2/STS	58.9	1.3
STEYER 4701R2	58.8	1.0
UNIVERSITY OF MISSOURI S09-9943	58.7	1.0
REV <sup>®</sup> 49R94 <sup>TM</sup>	58.7	1.3
HALO 4:65	58.7	1.7
DELTA GROW 4867 LL	58.4	1.0
CAVERNDALE CF 466 RR2Yn	58.3	1.0
DYNA-GRO S48RS53	58.1	1.0
DELTA GROW 4925 RR2	58.0	1.0
SOUTHERN STATES SS 4725NS R2	57.7	1.3
DELTA GROW 4825 RR2/STS	57.5	1.0
SEED CONSULTANTS SCS 9494RR	57.3	1.0
SEED CONSULTANTS SCS 9474RR	57.0	1.0
DELTA GROW 4990 LL	56.8	1.0
DELTA GROW 4880 RR	56.7	1.0
DELTA GROW 4981 LL/STS	56.7	1.3
HALO 5:01	56.7	1.0
ARMOR X1406	56.4	1.0
ARMOR 49-C3	56.3	3.3
REV <sup>®</sup> 48R33 <sup>TM</sup>	55.6	1.7
REV <sup>®</sup> 48R22 <sup>TM</sup>	55.4	1.0
SCHILLINGER SEED 4990.RC	55.2	1.0
REV <sup>®</sup> 47R53 <sup>TM</sup>	55.0	1.3
STINE 48RD00	54.9	1.0
CAVERNDALE CF 469 LL/STSn	54.5	1.0
PROGENY 4928 LL	54.4	1.0
PIONEER P46T21R	54.1	1.0
LG SEEDS C4867R2	53.2	1.0
SCHILLINGER SEED 4712R	53.1	1.7
HALO X466	52.6	1.0
REV <sup>®</sup> 46R64 <sup>TM</sup>	52.5	1.0
NK49-F8 BRAND	51.9	1.0
STEYER 4802R2	50.8	1.3
HALO 4:94	49.4	1.0
DELTA GROW 4967 LL	47.9	1.0
PENNYRILE (long term check-released 1987)	45.4	1.0
PROGENY 4900 RY	44.1	1.0
REV <sup>®</sup> 47R34 <sup>TM</sup>	43.2	1.3
SOUTHERN STATES SS 4917N R2	41.5	1.0
<b>GROUP IV LATE AVERAGE</b>	<b>60.4</b>	<b>1.2</b>
<b>LSD (0.10)</b>	6.6	
<b>CV</b>	8.1	
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>		
HORNBECK HBK RY5221	66.8	1.7
HALO 5:01-5	65.9	1.0
UNIVERSITY OF ARKANSAS UA5612	62.4	3.3
REV <sup>®</sup> 51R53 <sup>TM</sup>	61.9	1.3
USDA-ARS JTN-5203	61.9	2.3
UNIVERSITY OF ARKANSAS UA5213C	61.6	3.0
ARMOR X1410	60.8	2.7
UNIVERSITY OF ARKANSAS R04-1250RR	60.3	2.0
ARMOR X1413	60.3	1.7
DELTA GROW 5361 LL	60.2	2.0
BECK 522L4	58.5	1.0
REV <sup>®</sup> 53R23 <sup>TM</sup>	58.4	1.7
HORNBECK HBK RY5421	57.6	2.0
SEED CONSULTANTS SCS 9544RR	56.9	3.0
BECK 511R4 <sup>TM*</sup>	56.7	1.3
SOUTHERN STATES LL 513N	56.1	1.0
REV <sup>®</sup> 54R84 <sup>TM</sup>	56.0	3.0
REV <sup>®</sup> 59R13 <sup>TM</sup>	56.0	1.3
LG SEEDS C5122R2	54.2	1.0
UNIVERSITY OF ARKANSAS OZARK	53.7	2.7
PIONEER P50T40R	53.6	1.0
UNIVERSITY OF ARKANSAS R04-1268RR	52.4	3.3
HORNBECK HBK L5350	52.4	1.7
DELTA GROW 5481 LL	51.9	1.0
REV <sup>®</sup> 52R74 <sup>TM</sup>	51.9	1.3
DELTA GROW 5461 LL	51.3	1.0
UNIVERSITY OF ARKANSAS OSAGE	51.3	2.7
EXP USDA-ARS JTN-5110	50.7	3.0
SEED CONSULTANTS SCS 9574RR	50.5	3.0
REV <sup>®</sup> 55R53 <sup>TM</sup>	50.1	3.3

continued

**Table 10. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup> 2013	LODGING 2013
MYCOGEN SEEDS 5N510R2	49.6	1.0
UNISOUTH GENETICS USG ALLEN	48.9	1.7
WARREN SEED DS 5122 R2Y	48.7	1.3
DELTA GROW 5625 RR2	47.7	2.0
PIONEER 95Y10	47.6	1.0
UNISOUTH GENETICS USG 5002T	47.2	2.0
HALO 5:26	46.7	2.0
UNISOUTH GENETICS USG 5601T	46.3	1.7
DELTA GROW 5130 RR2	46.1	1.0
HALO X530	45.5	1.3
MYCOGEN SEEDS 5N540R2	45.1	2.7
ESSEX (long term check-released 1974)	43.7	1.7
HALO 5:45	43.3	1.7
STEYER 5101R2	42.6	1.3
<b>GROUP V AVERAGE</b>	<b>53.4</b>	<b>1.9</b>
<b>LSD (0.10)</b>	3.7	
<b>C.V.</b>	5.1	

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.

**AGRONOMIC INFORMATION**

<b>Location</b>	Hardin County
<b>Soil type</b>	Crider silt loam
<b>Previous crop</b>	Soybean
<b>Soil test</b>	pH 6.2 P NA K NA
<b>Fertilizer applied</b>	0-80-90
<b>Agricultural practice</b>	No-till
<b>Pre-planting treatments</b>	2,4D (2 pt/ac) in March Authority First Early June Glyphosate Early June
<b>Planting date</b>	6/3/2013
<b>Harvest dates</b>	MG II, III 10/11 MG IV Early 10/28 MG IV Late 11/13 MG V 11/14
<b>50% chance of killing frost</b>	10/16

**Precipitations and temperature history (Hardin County)**

	Total Monthly Precipitation (in.)	Temperature (°F)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	4.43	39.0	70.2	18.0
April	4.19	55.0	82.3	24.7
May	4.28	65.4	87.4	35.7
June	3.96	73.2	92.3	51.4
July	5.24	73.3	91.7	49.6
August	1.78	73.7	93.3	51.5
September	3.25	68.8	90.9	45.5
October	5.37	56.7	84.1	23.8
November (11/1-14)	0.35	45.6	69.1	20.0

**Table 11. 2013 Kentucky Soybean Variety Performance Tests, Simpson County.**

BRAND VARIETY	DISEASES							
	YIELD (BU/AC) <sup>A</sup>			LODGING 2013	SUDDEN DEATH SYNDROME <sup>B</sup> INDEX	FROGEYE LEAFSPOT <sup>C</sup>		SOYBEAN DEVELOPMENT STAGE <sup>D</sup>
	2013	2012-13	2011-13			INCIDENCE	RATING	
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>								
CAVERNDALE CF 286 RR2Y/STS <sub>n</sub>	42.2	NA	NA	3.3	0.0	0.0	0.0	R8
<b>GROUP II AVERAGE</b>	<b>NA</b>			<b>NA</b>				
<b>LSD (0.10)</b>	NA							
<b>C.V.</b>	NA							
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>								
ASGROW AG3832	69.9	62.6	47.0	1.7	0.9	0.0	1.0	R6
NK39-U2 BRAND	61.2	56.3	43.4	1.7	0.0	6.7	1.3	R6
SEED CONSULTANTS SCS 9393RR	60.7			1.0	0.2	16.7	1.3	R6
SOUTHERN STATES SS 3813N R2	60.6			2.0	0.0	0.0	1.0	R6
MYCOGEN SEEDS 5N393R2	60.1			2.0	0.4	16.7	1.7	R6
ASGROW AG3934	58.6			1.7	1.5	26.7	1.7	R6
PIONEER P35T58R	58.2			2.0	0.7	0.0	1.0	R6
ARMOR 39-R16	56.6	53.6		1.0	0.4	0.0	1.0	R6
SEED CONSULTANTS SCS 9354RR	56.1			1.7	0.0	0.0	1.0	R6
SEED CONSULTANTS SCS 9363RR	56.0			2.0	0.0	0.0	1.0	R6
L&M GLICK 853 R2Y	54.0			2.0	0.2	43.3	2.0	R6
SOUTHERN STATES SS 3801N R2	53.7			2.0	0.4	26.7	1.7	R6
DYNA-GRO S38RY84	53.5			1.3	0.4	0.0	1.0	R6
SEED CONSULTANTS SCS 9392RR	52.1	52.9	42.0	2.3	2.2	0.0	1.0	R6
PIONEER 93Y84	51.9	55.2		1.0	0.2	6.7	1.3	R6
DYNA-GRO S39RY33	51.7			2.3	0.4	13.3	1.3	R6
WARREN SEED DS 4010 R2Y	51.4			3.3	0.0	0.0	1.0	R6
PIONEER 93Y92	51.1	51.0	40.6	2.0	0.2	6.7	1.7	R6
LG SEEDS C3989R2	50.3	51.8		1.3	0.0	0.0	1.0	R7
REV <sup>®</sup> 38R10 <sup>TM</sup>	50.2	50.5	40.6	1.7	3.3	0.0	1.7	R6
BECK 391R4 <sup>TM*</sup>	49.7			1.7	0.2	0.0	1.0	R6
PIONEER 39T67R	48.2			2.7	1.1	0.0	1.0	R6
CAVERNDALE CF 380 RR2Y <sub>n</sub>	46.6			1.7	0.4	30.0	1.3	R6
SEED CONSULTANTS SCS 9373RR	45.8			2.0	1.1	6.7	1.3	R7
STINE 38RD02	44.3			1.7	0.4	0.0	1.0	R6
UNISOUTH GENETICS USG 73P93R	40.2			1.0	0.0	16.7	1.7	R6
<b>GROUP III AVERAGE</b>	<b>53.6</b>	<b>54.2</b>	<b>42.7</b>	<b>1.8</b>				
<b>LSD (0.10)</b>	7.1	4.7	3.8					
<b>C.V.</b>	9.7	9.3	9.2					
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.9)</b>								
PIONEER 94Y23	72.5	62.7		1.7	0.4	0.0	1.0	R6
ARMOR 44-R08	68.1	59.4	45.4	2.0	2.2	0.0	1.0	R6
DYNA-GRO 39RY43	65.9	62.0	46.8	2.0	4.6	0.0	1.0	R6
L&M GLICK 403 R2Y	65.3			1.0	0.0	1.7	1.3	R6
DYNA-GRO 38RY45	65.1	60.6	44.8	1.7	11.1	0.0	1.0	R7
GREAT LAKES HYBRIDS GL4039R2	63.6			1.0	0.4	0.0	1.0	R6
STEWART 4113R2	63.2	58.3		2.0	2.2	0.0	1.0	R6
STEWART 4512R2	62.9	60.6	46.5	2.0	0.7	0.0	1.0	R6
CAVERNDALE CF 425 LL <sub>n</sub>	62.7			2.7	17.8	0.0	1.0	R6
SEED CONSULTANTS SCS 9421RR	62.3	59.8	43.5	1.7	11.3	0.0	1.0	R7
ASGROW AG4433	61.4	54.9		1.7	1.5	66.7	2.0	R6
LG SEEDS C4544R2	61.3			2.3	0.4	0.0	1.0	R6
MYCOGEN SEEDS 5N423R2	61.2			1.3	0.5	33.3	1.3	R6
L&M GLICK 412 R2Y	61.0	57.5	42.0	2.3	1.5	1.7	1.3	R6
PROGENY 4211 RY	60.0	57.2	43.6	1.7	0.2	0.0	1.0	R6
SOUTHERN STATES SS 4510N R2	59.6	57.4	43.7	1.7	6.1	0.0	1.0	R6
WARREN SEED DS 4340 R2Y	59.4	62.5		1.7	0.2	0.0	1.0	R6
MYCOGEN SEEDS X53413R2	59.4			3.3	0.2	6.7	1.3	R6
STEWART 4212R2	59.3	54.4	42.3	2.0	0.6	10.0	1.3	R6
WARREN SEED DS 4330 R2Y	59.3			2.3	1.1	0.0	1.0	R6
LG SEEDS C4340R2	59.1	58.2		1.7	0.2	0.0	1.0	R6
GREAT LAKES HYBRIDS GL4209R2	58.8			1.3	0.2	0.0	1.0	R6
SEED CONSULTANTS SCS 9434RR	58.8			2.0	0.0	0.0	1.0	R6
CAVERNDALE CF EXP 416 RR2Y <sub>n</sub>	58.6			1.0	2.2	0.0	1.0	R7
HALO 4:40	58.4			2.3	0.0	3.3	1.3	R6
REV <sup>®</sup> 44R22 <sup>TM</sup>	58.3	58.5	44.3	2.3	0.2	0.0	1.0	R6
MYCOGEN SEEDS 5N431R2	58.3			1.7	0.2	0.0	1.0	R5
STEWART 4412R2	58.2	56.0	42.1	2.0	0.2	60.0	2.0	R5
STEYER 4301R2	58.1	55.1		1.3	0.0	0.0	1.0	R6
ASGROW AG4534	57.9			1.0	0.2	33.3	1.3	R6
ASGROW AG4033	57.8	56.3		2.0	0.7	1.7	1.3	R7
SEED CONSULTANTS SCS 9412RR	57.7			1.3	0.6	6.7	1.3	R6
BECK 418NR <sup>TM*</sup>	57.6	58.1		1.7	4.6	0.0	1.0	R6
BECK 444NR <sup>TM*</sup>	57.5	57.8		1.7	0.0	0.0	1.0	R6
NK43-K1 BRAND	57.4			2.0	0.0	1.7	1.3	R7
CAVERNDALE CF 456 RR2Y/STS <sub>n</sub>	57.3			2.0	0.4	1.7	1.3	R6
ARMOR X1401	57.3			1.0	0.6	1.7	1.3	R6
BECK 423NL	57.1			1.0	0.0	0.0	1.0	R6
NK41-J6 BRAND	57.1	58.1		2.0	0.2	0.0	1.0	R6
BIOGENE BG 7421	56.9	53.8	38.9	1.3	0.4	26.7	1.3	R6
LG SEEDS C4411R2	56.8	55.8		1.7	13.3	0.0	1.0	R6

continued

Table 11. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013	SUDDEN DEATH SYNDROME <sup>B</sup> INDEX	DISEASES		SOYBEAN DEVELOPMENT STAGE <sup>D</sup>
	2013	2012-13	2011-13			INCIDENCE	RATING	
STINE 45RC32	56.6			2.7	0.2	26.7	1.3	R6
SOUTHERN STATES SS 4312N R2	56.5	54.5	40.8	1.3	0.0	0.0	1.0	R6
PROGENY 4313 RY	56.3			1.7	0.0	0.0	1.0	R6
SOUTHERN STATES LL 423N	55.8			2.3	15.6	0.0	1.0	R6
NK45-V8 BRAND	55.8			2.0	1.5	0.0	1.0	R7
MYCOGEN SEEDS 5N451R2	55.5			2.0	0.6	0.0	1.0	R7
UNISOUTH GENETICS USG 74A33R	55.4			2.3	5.9	0.0	1.0	R6
STEWART 4514R2	55.3			2.3	0.4	33.3	1.3	R6
PIONEER 94Y50	55.3	54.5	43.8	2.0	2.4	3.3	1.3	R7
PFISTER 45R22	54.4			1.7	0.4	1.7	1.3	R6
STEYER 4203R2	54.3	54.6	42.4	1.7	1.5	0.0	1.0	R6
PFISTER 43R29	54.3	55.1		2.0	1.7	0.0	1.0	R6
BECK 459L4TM*	53.6			1.7	0.2	0.0	1.0	R6
ASGROW AG4232	53.3	56.6	43.6	1.7	1.9	33.3	1.3	R7
SEED CONSULTANTS SCS 9443RR	53.2			2.3	0.0	0.0	1.3	R6
BIOGENE BG 7441	53.0			1.7	1.7	0.0	1.0	R6
ARMOR 45-R60	52.1	51.7		1.3	0.9	0.0	1.0	R7
PROGENY 4560 LL	51.8			2.3	1.9	3.3	1.3	R6
STINE 42RD02	51.5			2.0	8.9	0.0	1.0	R7
SOUTHERN STATES SS 453N	51.0			1.7	0.0	0.0	1.0	R6
STEYER 4401R2	49.6	55.0		1.7	3.0	0.0	1.0	R6
PROGENY 4510 RYS	46.6	48.0	38.9	2.0	4.4	66.7	1.7	R6
<b>GROUP IV EARLY AVERAGE</b>	<b>57.9</b>	<b>56.9</b>	<b>43.1</b>	<b>1.8</b>				
<b>LSD (0.10)</b>	5.2	4.1	3.3					
<b>C.V.</b>	6.7	7.6	7.6					
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>								
HORNBECK HBK RY4620	76.7	69.4	58.1	1.7	0.4	0.0	1.0	R6
LG SEEDS C4867R2	76.5			3.7	17.9	0.0	1.0	R6
SCHILLINGER SEED 4712R	75.2			3.3	7.4	0.0	1.0	R6
PROGENY 4613 RYS	73.0			3.0	11.1	0.0	1.0	R6
ARMOR 49-R56	71.1			2.0	11.9	33.3	1.3	R6
SCHILLINGER SEED 4990.RC	69.3	62.5	48.0	2.0	0.4	0.0	1.0	R6
DELTA GROW 4967 LL	68.6			2.7	26.7	0.0	1.0	R6
REV® 47R53TM	68.6	59.8	49.3	2.3	2.2	0.0	1.0	R6
PROGENY 4850 RYS	67.9	62.6		2.0	4.4	0.0	1.0	R6
NK49-F8 BRAND	67.5	64.6		2.0	0.0	0.0	1.0	R6
ASGROW AG4933	67.4	65.8		2.0	0.4	0.0	1.0	R6
SCHILLINGER SEED 458.RCS	67.0	64.2	48.2	1.3	0.0	0.0	1.0	R6
STEYER 4702R2	66.6	60.2		2.7	0.0	0.0	1.0	R6
CAVERNDALÉ CF 496 RR2Yn	65.4			2.7	3.3	0.0	1.0	R6
ARMOR X1409	65.3			2.7	3.7	0.0	1.0	R6
STINE 48RD00	65.1			1.7	0.7	0.0	1.0	R6
DYNA-GRO S47RY13	64.6	60.1		1.7	2.2	0.0	1.0	R6
UNISOUTH GENETICS USG 74E88	64.6			1.7	0.4	0.0	1.0	R6
REV® 48R44TM	64.3			2.3	0.9	0.0	1.0	R6
MYCOGEN SEEDS 5N479R2	64.2			1.7	3.7	0.0	1.0	R6
DYNA-GRO S48RS53	64.1	64.4		1.7	12.6	0.0	1.0	R6
PFISTER 47R22	63.8	68.9		1.7	0.0	0.0	1.0	R6
BECK 477NR™*	62.9	55.6	44.4	2.7	3.0	0.0	1.0	R6
DELTA GROW 4867 LL	62.9			3.3	15.9	0.0	1.0	R6
PIONEER P48T53R	62.6			2.0	5.9	0.0	1.0	R6
REV® 47R34TM	62.5			3.0	1.5	0.0	1.0	R6
STEWART 4714R2	61.9			1.3	33.3	0.0	1.0	R6
SOUTHERN STATES SS 4917N R2	61.7			1.3	4.1	0.0	1.0	R6
SEED CONSULTANTS SCS 9474RR	61.5			2.3	3.3	0.0	1.0	R6
ARMOR 47-R13	61.3	58.9		2.0	9.3	0.0	1.0	R6
LG SEEDS C4780R2	61.2	61.4		2.0	5.6	0.0	1.0	R6
ARMOR X47C	61.1			3.0	0.0	0.0	1.0	R6
SOUTHERN STATES SS 4725NS R2	61.1			1.7	2.2	0.0	1.0	R6
REV® 46R64TM	60.9			2.0	0.1	0.0	1.0	R6
ARMOR X49C	60.8			2.7	0.4	0.0	1.0	R6
ASGROW AG4831	60.4	61.9		1.3	0.0	0.0	1.0	R6
DELTA GROW 4765 RR2/STS	60.0	60.2		2.0	11.9	0.0	1.0	R6
SEED CONSULTANTS SCS 9494RR	59.9			2.7	9.6	0.0	1.0	R6
HORNBECK HBK RY4721	59.8	60.7		2.7	0.0	0.0	1.0	R6
WARREN SEED DS 4850 R2Y/STS	59.6	60.9		1.7	0.0	0.0	1.0	R6
DELTA GROW 4670 RR2	58.9	61.6	49.3	2.7	11.9	0.0	1.0	R6
PIONEER P46T21R	58.7			2.0	0.4	0.0	1.0	R6
ARMOR X1406	58.5			1.7	0.0	0.0	1.0	R6
PENNYRILE (long term check-released 1987)	58.5	52.3	40.1	2.0	2.2	0.0	1.0	R6
PROGENY 4900 RY	58.3	62.5		1.7	14.1	0.0	1.0	R6
HALO X466	58.0			2.0	0.4	0.0	1.0	R6
PIONEER P47T36R	57.9			2.0	0.7	0.0	1.0	R6
ASGROW AG4632	57.5	59.9	48.1	3.0	4.4	0.0	1.0	R6
CAVERNDALÉ CF 486 RR2Y/STS	57.5	63.1		2.3	0.0	0.0	1.0	R6
REV® 48R33TM	57.3	54.8	43.9	2.7	2.2	0.0	1.0	R6
PIONEER P49T97R	57.2			2.3	3.7	0.0	1.0	R6
DELTA GROW 4981 LL/STS	56.5			2.3	7.4	0.0	1.0	R6
CAVERNDALÉ CF 466 RR2Yn	56.1			2.0	0.4	0.0	1.0	R6

continued

Table 11. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			LOGGING 2013	SUDDEN DEATH SYNDROME <sup>B</sup> INDEX	DISEASES		SOYBEAN DEVELOPMENT STAGE <sup>D</sup>
	2013	2012-13	2011-13			INCIDENCE	RATING	
PROGENY 4710 RYS	56.1	62.1	49.9	1.7	8.9	0.0	1.0	R6
ASGROW AG4832	56.1	58.5	47.4	3.3	4.6	0.0	1.0	R6
HALO 4:65	56.0	55.2	45.6	3.0	25.2	0.0	1.0	R6
SCHILLINGER SEED 495.RC	55.7	55.8	45.1	2.3	1.5	0.0	1.0	R6
CAVERNDALE CF 485 LLn	55.2	49.6		2.7	13.3	0.0	1.0	R6
UNIVERSITY OF MISSOURI S09-9943	55.0			3.3	15.6	0.0	1.0	R6
HORNBECK HBK L4850	54.6			2.3	3.7	6.7	1.7	R6
DELTA GROW 4825 RR2/STS	54.1	58.7		3.7	13.3	6.7	1.3	R6
HALO 4:97	53.9			2.7	26.7	0.0	1.0	R6
CAVERNDALE CF 469 LL/STS <sup>n</sup>	53.8			2.0	16.7	0.0	1.0	R6
ASGROW AG4934	53.8			2.7	1.3	0.0	1.0	R6
PROGENY 4819 LL	53.5	52.9		2.7	11.1	0.0	1.0	R6
DELTA GROW 4880 RR	53.0	53.7	46.7	2.3	0.4	0.0	1.0	R6
SOUTHERN STATES SS 4700 R2-STS	52.8	58.3	45.9	1.7	5.9	0.0	1.0	R6
MYCOGEN SEEDS 5N478R2	52.5			3.3	8.9	0.0	1.0	R6
ARMOR 49-C3	52.4			3.7	1.6	0.0	1.0	R6
PROGENY 4930 LL	52.4			2.0	7.0	0.0	1.0	R6
WARREN SEED DS 4633 R2Y	52.1	58.0		3.3	4.4	0.0	1.0	R6
HALO 5:01	52.0	54.9		2.3	10.7	0.0	1.0	R6
HALO 4:95	51.8	55.4		3.0	3.0	0.0	1.0	R6
DELTA GROW 4990 LL	51.8			1.7	2.2	0.0	1.0	R6
GREAT LAKES HYBRIDS GL4729R2	51.6			2.0	1.9	0.0	1.0	R6
REV <sup>®</sup> 49R22 <sup>TM</sup>	51.3	51.1	41.8	2.7	0.7	0.0	1.0	R6
PROGENY 4747 RY	51.3	53.8		2.3	4.4	0.0	1.0	R6
HALO 4:94	51.0	56.1	43.3	1.7	14.8	0.0	1.0	R6
HALO X496	50.6			1.7	17.0	0.0	1.0	R6
HORNBECK HBK L4950	49.7			2.0	17.8	0.0	1.0	R6
ARMOR 48-R66	49.7			3.3	0.1	0.0	1.0	R6
SOUTHERN STATES LL 473N	49.3			2.3	24.4	0.0	1.0	R6
PIONEER 94Y70	49.3	51.6	42.8	2.3	2.2	0.0	1.0	R6
SOUTHERN STATES SS 4913N R2	48.6			2.0	17.8	0.0	1.0	R6
DELTA GROW 4925 RR2	48.2	54.4		2.0	5.9	0.0	1.0	R6
REV <sup>®</sup> 48R22 <sup>TM</sup>	48.0	51.8	40.2	3.3	0.0	0.0	1.0	R6
BECK 483NL	47.9			2.3	0.7	0.0	1.0	R6
DELTA GROW 4940 RR	47.5			2.7	3.0	0.0	1.0	R6
PROGENY 4928 LL	47.3	53.6	46.9	2.3	0.7	0.0	1.0	R6
NK46-G9 BRAND	46.7			3.3	10.4	0.0	1.0	R6
ARMOR X48C	44.9			3.3	11.1	0.0	1.0	R6
DELTA GROW 4755 RR2	44.5	51.4		2.7	3.0	0.0	1.0	R6
STEYER 4802R2	43.7			2.0	0.0	0.0	1.0	R6
NK46-L2 BRAND	42.2			3.0	0.2	0.0	1.0	R6
STEYER 4701R2	40.5	48.0	38.5	3.7	5.9	0.0	1.0	R6
REV <sup>®</sup> 49R94 <sup>TM</sup>	37.6			2.7	14.1	0.0	1.0	R6
<b>GROUP IV LATE AVERAGE</b>	<b>57.5</b>	<b>58.3</b>	<b>45.9</b>	<b>2.4</b>				
<b>LSD (0.10)</b>	7.5	5.3	4.3					
<b>C.V.</b>	9.6	9.5	9.6					
<b>MATURITY GROUP V (Relative MG 5.0-5.9)</b>								
ARMOR X1413	65.9			1.0	0.0	0.0	1.0	R5
PIONEER 95Y10	65.2	61.2	58.8	2.0	0.0	0.0	1.0	R5
DELTA GROW 5361 LL	63.6			2.7	0.0	0.0	1.0	R5
DELTA GROW 5130 RR2	61.9			1.3	0.2	0.0	1.0	R5
UNISOUTH GENETICS USG 5601T	61.0	59.1	55.8	2.3	11.9	0.0	1.0	R5
ARMOR X1410	60.1			3.0	0.0	0.0	1.0	R5
WARREN SEED DS 5122 R2Y	59.9			1.3	0.7	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5612	59.7	58.7		3.7	0.0	0.0	1.0	R5
HALO 5:26	59.0	67.0		2.3	13.3	0.0	1.0	R5
STEYER 5101R2	58.7			1.3	0.0	0.0	1.0	R5
HALO 5:45	58.6	58.0		1.7	17.8	0.0	1.0	R6
SEED CONSULTANTS SCS 9574RR	57.5			2.3	1.1	0.0	1.0	R5
DELTA GROW 5625 RR2	57.1			2.7	0.0	0.0	1.0	R5
BECK 511R4 <sup>TM</sup> *	57.0			1.7	4.4	0.0	1.0	R5
REV <sup>®</sup> 59R13 <sup>TM</sup>	57.0	56.0		2.3	3.0	0.0	1.0	R5
HORNBECK HBK RY5421	57.0	59.3		3.3	0.0	0.0	1.0	R5
REV <sup>®</sup> 51R53 <sup>TM</sup>	56.4	55.0	57.0	1.3	0.0	0.0	1.0	R5
UNISOUTH GENETICS USG ALLEN	55.4	59.0	57.2	2.3	5.2	0.0	1.0	R6
PIONEER P50T40R	55.3			2.0	13.3	0.0	1.0	R5
SEED CONSULTANTS SCS 9544RR	54.5			3.0	0.0	0.0	1.0	R5
LG SEEDS C5122R2	54.2			1.3	0.0	0.0	1.0	R5
BECK 522L4	54.0			1.3	5.2	0.0	1.0	R5
REV <sup>®</sup> 54R84 <sup>TM</sup>	53.6	54.0		3.7	5.4	0.0	1.0	R6
UNISOUTH GENETICS USG 5002T	53.2	54.2	52.3	2.3	4.4	0.0	1.0	R5
UNIVERSITY OF ARKANSAS OZARK	52.2	57.4	56.1	3.0	4.4	0.0	1.0	R5
MYCOGEN SEEDS 5N510R2	51.8			1.0	0.0	0.0	1.0	R5
MYCOGEN SEEDS 5N540R2	51.7			2.7	3.0	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R04-1250RR	51.4			2.7	0.4	0.0	1.0	R5
ESSEX (long term check-released 1974)	51.1	52.0	50.7	2.7	4.4	0.0	1.0	R5
UNIVERSITY OF ARKANSAS UA5213C	50.9			3.7	11.9	0.0	1.0	R5
EXP USDA-ARS JTN-5110	50.5	56.7		3.7	7.4	0.0	1.0	R5
HALO 5:01-5	50.4	57.7		2.3	14.1	0.0	1.0	R6

continued



**Table 11. (continued)**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>				LOGGING 2013	DISEASES		
	2013	2012-13	2011-13	SUDDEN DEATH SYNDROME <sup>B</sup> INDEX		FROGEYE LEAFSPOT <sup>C</sup>		SOYBEAN DEVELOPMENT STAGE <sup>D</sup>
						INCIDENCE	RATING	
REV <sup>®</sup> 53R23 <sup>TM</sup>	50.1	56.7		2.3	1.5	0.0	1.0	R5
REV <sup>®</sup> 52R74 <sup>TM</sup>	50.1	54.1		1.7	0.4	0.0	1.0	R5
DELTA GROW 5461 LL	49.5			2.0	10.0	0.0	1.0	R5
HORNBECK HBK L5350	49.2			2.3	0.7	0.0	1.0	R5
DELTA GROW 5481 LL	48.8			2.7	1.5	0.0	1.0	R5
UNIVERSITY OF ARKANSAS R04-1268RR	47.7			4.0	0.0	0.0	1.0	R6
HALO X530	47.1			1.3	15.9	0.0	1.0	R5
USDA-ARS JTN-5203	46.6	54.2	53.1	3.3	4.4	0.0	1.0	R5
SOUTHERN STATES LL 513N	46.4			1.7	12.6	0.0	1.0	R5
UNIVERSITY OF ARKANSAS OSAGE	45.5	54.7	57.6	2.7	6.7	0.0	1.0	R6
HORNBECK HBK RY5221	43.9	45.1		2.0	0.0	0.0	1.0	R5
REV <sup>®</sup> 55R53 <sup>TM</sup>	43.6	51.4		3.2	4.4	33.3	1.3	R6
<b>GROUP V AVERAGE</b>	<b>54.0</b>	<b>56.3</b>	<b>55.4</b>	<b>2.3</b>				
<b>LSD (0.10)</b>	5.2	4.0	3.7					
<b>C.V.</b>	7.1	7.5	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 For each plot, 1) the Disease Incidence (DI) was recorded as percentage of plants showing visible leaf symptoms; 2) the Disease Severity (DS) was recorded using a 1 - 9 scale (1 = 0 - 10% total leaf area is necrotic, 2 = 10 - 20% chlorotic or up to 10% necrotic, 3 = 20 - 40% chlorotic or 10 - 20 necrotic, 4 = 40 - 60% chlorotic, 5 = more than 60% chlorotic or more than 40% necrotic, 6 = premature leaf drop up to 1/3 defoliation, 7 = premature leaf drop from 1/3 to 2/3 defoliation, 8 = premature leaf drop greater than 2/3 defoliation, 9 = premature death; and 3) the Disease Index (DX) was calculated using the following formula:  $DX = DI \times DS / 9$ . The data in the table are reported as the mean index: for each variety, the mean index was calculated using the DIs of all three plot replicates.
- C For each plot, 1) the Disease Incidence (DI) was reported as percentage of plants showing visible leaf symptoms; 2) the Disease Rating (DR) was recorded using a 1 - 9 scale (1 = resistant or no visible lesion, 2 = moderately resistant or 1 - 25% of the leaf surface has lesion, 3 = moderately resistant or 25 - 50% of the leaf surface has lesion, 4 = susceptible or 50% of the leaf surface has lesion, 5 = very susceptible or more than 50% of the leaf has lesion or the leaf is dead). The data in the table are reported as means: for each variety, the DI mean and DR mean were calculated using the DIs and DRs of all three plot replicates.
- D Stage of development/reproduction of soybean varieties when diseases were first observed (disease incidence and rating notes were taken).

**AGRONOMIC INFORMATION**

**Location** Simpson County  
**Soil type** Pembroke silt loam  
**Previous crop** Soybean (rye winter cover crop)  
**Soil test** pH 6.02  
P 26  
K 327  
**Fertilizer applied** MAP 10-50-0 (195 lbs/ac.)  
**Pre-planting treatments** Glyphosate (40 oz/ac) and Authority XL (6.5 ai/ac) 4/17/2013  
**Agricultural practice** No-till  
**Planting dates** MG II, III, and MG IV Early 5/25/2013  
MG IV Late and MG V 5/26/2013  
**Harvest dates** MG II, III 10/11  
MG IV Early 10/20  
MG IV Late and V 10/21  
**50% chance of killing frost** 10/24

**Precipitation and temperature history (Simpson County)**

	Total Monthly Precipitation (in.)	Temperature (°F)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	5.07	41.4	71.9	19.1
April	8.07	56.5	85.8	31.7
May	4.29	65.9	86.9	39.1
June	2.72	75.1	93.4	54.7
July	8.43	74.6	91.9	55.2
August	4.10	74.6	90.9	54.3
September	3.08	70.3	89.7	48.3
October	2.52	59.2	88.0	24.6



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