

# 2014 Kentucky Soybean Variety Performance Tests

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The Kentucky Soybean Variety Performance Tests are conducted to provide an unbiased, 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 2014 in Kentucky at the six test locations shown below. Planting dates and other information are shown in Table 1. Data for the maturity groups IV Early, IV Late and V at the Caldwell County location are not provided to avoid penalizing any variety (plots were damaged by a storm soon after planting).

## 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 hosts the following features:

- 2014 Kentucky Soybean Variety Performance Tests (this publication) and previous reports archived in PDF 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

## Methods

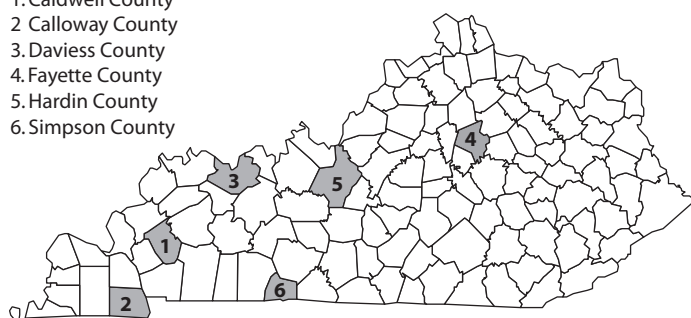
All tests were planted in a randomized complete block design by maturity group with a specially built no-till planter. The tests (tables 6-10) had three replications (plots) of each variety. The individual plots were 20 feet long and six rows wide with 15 inches between rows. The seeding rate was four to five viable seeds per foot of row, at a planting depth of 1.5 inch. Herbicides were applied for weed control at all sites before planting. Fertilizers were also applied if needed. The plots were maintained as weed-free and disease-free as possible during the growing season following the University of Kentucky IPM recommendations. All plots were chemically end-trimmed to 16 feet approximately one month after planting.

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

- **Harvesting** was done with a small plot combine (Hege 160, HEGE Equipment Inc. –Wintersteiger, USA) according to maturity. Sixteen feet of the four center rows were harvested from the plots.
- **Yield** is reported in bushels (60 pounds) per acre adjusted to 13% moisture. An electronic weight and moisture monitor (HarvestMaster HM1000 GrainGage system, Juniper Systems, Inc., USA) located on the combine was used to record weight and moisture readings for each plot. Data were collected with a field computer (Allegro Mx, Juniper Systems, Inc., USA) connected to the monitor, and analyzed with the Agrobase GEN II statistical software (Agronomix Software Inc., Canada).

Location of the 2014 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 2014 Kentucky Soybean Variety Performance Tests.

TEST	SITE	COLLABORATOR	PLANTING DATES	HARVEST DATES
Caldwell County	Princeton Exp. Station University of Kentucky	Joe Williams, UK Farm superintendent	05/21	MG III and III: 10/17 MG V: 11/20 MG IV Early, Late: 11/20
Calloway County	Murray State University	David Ferguson, Agronomy faculty	MG II, III, and IV Early: 05/22 MG IV Late and V: 05/23	MG II: 9/26, MG III: 10/04, (MG IV Early: 10/18 MG IV Late and V: 11/08)
Daviess County	McCormick Farms	Clint Hardy, UK Extension county agent	05/28	MG II: 9/26, MG III: 9/27, MG IV Early: 10/25 MG IV Late and V: 11/12
Fayette County	Lexington Exp. Station University of Kentucky	David Smith, UK Farm superintendent	MG IV and V: 05/19 MG II and III: 05/20	MG II: 9/27, MG III: 10/01, MG IV Early: 10/23 MG IV Late and V: 11/10
Hardin County	Wooden Farms	Matthews Adams, UK Extension county agent	06/06	MG II, III, IV Early: 10/22 MG IV Late: 11/15 MG V: 11/14
Simpson County	S&B Farms	Jason Phillips, UK Extension county agent	06/04	MG II and III: 10/05 MG IV Early, Late: 10/19 MG V: 11/09

- **Test weight** is expressed as pounds per bushel. Test weight, also called bulk density, specifies the weight of a "volume" bushel (1.2445 ft<sup>3</sup> of grain). Weather and production practices may cause variations in grain density and quality. Test weight is a general indicator of grain quality. Higher test weight usually means higher grain quality. Test weights decrease as grain deteriorates. Good quality grain at low moisture content (13%-15%) is expected to have a good test weight. The electronic weight and moisture monitor described in the section above also recorded the test weight for the grain harvested from each plot. The test weights were adjusted to 13% moisture and were analyzed with the Agrobases GEN II statistical software.
- **Lodging** was recorded at harvest. Lodging was rated on a scale of 1 to 5, where 1 = almost all plants erect; 2 = all plants over slightly or a few down; 3 = all plants over moderately or 25% down; 4 = all plants over considerably or 50% to 80% down; 5 = all plants down.
- **Maturity date.** A variety was considered mature when 99% of the pods have turned their normal mature color. One to two weeks of good drying weather may be needed beyond the date given before the beans were ready to combine. Maturity dates were recorded at the Fayette County location.
- **Plant height** was measured in inches from the soil surface to the tip of the main stem. Plant height was recorded at the Fayette County location.
- **Protein and oil.** Variety protein and oil concentrations are reported on the basis of 13% moisture. Samples were collected at the Caldwell Co., Fayette Co., and Simpson Co. locations, and analyzed with a NIR spectrophotometer (DA 720, Perten Instruments, Sweden). The data were analyzed with the Agrobases GEN II statistical software.

## Interpretation

An important step in profitable soybean production is selecting good quality seed of the best varieties for each management system. The Kentucky Soybean 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 Performance Tests are conducted at several locations in the major soybean-producing areas of the state. The yields as reported in this publication should be used for relative comparisons; actual yields on a grower's farm may be different.

Performance of soybean varieties will vary from year to year and from location to location depending on adaptability, weather conditions, and management. Performance of a variety across a period of years and at several locations in the state is the best indicator of its production potential (see the University of Kentucky publication *Agronomy Notes*, Volume 21, No. 3, "Using Performance Test Results in Soybean Variety Selection in Kentucky").

The data presented in the Table 5, State Summary—Recommended Table, have been averaged across years and locations, and are recommended as to evaluate variety relative performances.

Small differences in yield are usually of little importance. The yield of two varieties at a single location can differ because of chance factors (difference in soil characteristics, fertility, or availability of moisture), although the inherent yielding ability is the same. To decide if an observed yield difference is real, the least significant difference (LSD) values cited at the bottom of each maturity group should be used. The significance level in tables 5-11 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 a production system. Maturity, lodging resistance, disease resistance, and availability of time and equipment need to be considered, as well as economic management and weed control costs.

Varieties with oil and protein levels that are eligible for premium prices are available in some markets. Oil and protein levels are influenced by variety and weather (primarily temperature) during seed filling (see UK's

**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

*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 ones 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 to 11, are average dates over a long term. Actual dates will vary from year to year. For the date of a one-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*). The importance of resistant varieties has increased as the number of acres affected by SCN has increased. SCN occurs in 51 Western Kentucky counties. Low levels of SCN show few visible symptoms but can cause yield losses of up to 25 percent. Fields should be tested for SCN. Contact the University of Kentucky County Extension offices for more information on collecting and submitting samples.

Diseases may cause yield loss if soybean plants are infected prior to flowering. Planting disease-resistant or disease-tolerant varieties will help eliminate this possible yield loss. Growers should review Table 3, "Company Specifications," for disease resistance/tolerance ratings.

Table 5, consisting of a summary of the 2012-2013-2014 full-season tests for each maturity group, is recommended for selecting varieties for maximum yield in double-crop systems and in full-season systems in Kentucky. Better yielding full-season varieties are also the better-yielding double-crop varieties (Pfeiffer, Todd 1987. *Applied Agricultural Research*, 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 three full-season tests, analyzed across years and locations, predict performance of a variety more accurately than a single, full-season, or double-crop test.

### **Growing Conditions and Special Circumstances**

After a very cool and snowy winter, March started with an arctic cold front which produced freezing rain, sleet, snow, and extremely low temperatures. By mid-March, temperatures rose into the 60s and 70s but cooler air moved back into the area, bringing another round of sleet and snow. Conditions then dried out before another snow event accompanied by gusty winds

at the end of March. Temperatures and precipitation for March were below normal. Temperatures averaged 42 degrees across the state which was 4 degrees cooler than normal. Precipitation for the period totaled 3.70 inches statewide which was 0.75 inches below normal.

The Commonwealth finally got some relief in April. High temperatures got into the low to mid 80s. Soil temperatures increased into the upper-50s to mid-60s. By mid-month, a strong cold front pushed through the area pushing temperatures down and a late season snow event. April was also an extremely wet month. Most of the precipitation fell over the opening and close of April. Temperatures for the period averaged 58 degrees across the state. Precipitation for the period totaled 6.60 inches statewide which was 2.26 inches above normal.

May started off with warmer temperatures. By mid-month, multiple disturbances caused several rounds of showers and storms. Unseasonably cooler temperatures led to late-season night patchy frost events on the 16th and 17th. Another event on May 22 produced some damaging winds. A summer-like trend then ensued over the last 2 weeks of the month. Temperatures for the period averaged 66 degrees across the state which was 2 degrees warmer than normal. Precipitation for the period totaled 3.32 inches statewide which was 1.44 inches below normal.

Dry and warm conditions continued in June. Most of Central and Eastern Kentucky region was abnormally dry. Temperatures were peaking in the 80s at the start of the month, and in the 90s the second half. Accompanying the heat was high humidity. Temperatures for the period averaged 74 degrees across the state which was 2 degrees warmer than normal. Precipitation for the period totaled 3.58 inches statewide which was 0.84 inches below normal.

July was cooler than normal. The month started around normal. High pressures on the 12th and 13th pushed the temperatures into the low to mid 90s, which, in combination with high humidity, put the heat index around 100 degrees. A strong cold front then followed. Temperatures cooled into the 70s and were accompanied by low dew-points. Drought stress and severe weather were also a concern in July. By the end of July, Western Kentucky had gone 7 straight weeks of seeing below normal rainfall and was in moderate drought. Damaging winds and large hail were reported on the 26th and 27th. Temperatures for the period averaged 73 degrees across the state which was 4

degrees cooler than normal. Precipitation for the period totaled 3.46 inches statewide which was 0.89 inches below normal.

In August, temperatures ranged from the upper 80s to middle 90s, with dew-points well into the 70s. Accompanying the warmer conditions was a wet pattern. Much of the state saw drought conditions diminish throughout August. Temperatures for the period averaged 76 degrees across the state which was near normal. Precipitation for the period totaled 5.81 inches statewide which was 2.02 inches above normal.

The first half of September saw several cold and wet fronts. Behind the fronts came cooler conditions. Highs were below normal with temperatures in the mid to upper 60s. The second half of the month followed this cool trend with temperatures remaining below normal with highs in the 70s. This was accompanied by mostly dry conditions. While the dry conditions allowed for good progress on corn harvest, the USDA Kentucky Crop Progress and Condition Report stated that the lack of rain had some late planted soybeans showing signs of stress. Temperatures for the period averaged 68 degrees across the state which was 1 degree cooler than normal. Precipitation for the period totaled 1.83 inches statewide which was 1.69 inches below normal.

October turned out to be a pretty wet month. Over the course of the month, the state averaged 5.75 inches of precipitation, 2 inches above normal. Most of the rainfall fell over the second and third week. The most significant event came on the 7th as thunderstorms produced large hail, damaging winds, and multiple tornadoes. Some of the hail storms damaged the corn and tobacco crop. A cold front, along with rainfall, came across the state over the 13th and 14th. Conditions remained dry for much of the remainder of the month. Temperatures for the period averaged 58 degrees (near normal).

A warm front pushed north of Kentucky late in October, with temperatures in to the low to mid 80s. Conditions then took a turn early November. A cold front accompanied with showers pushed through. A second cold front pushed through the Ohio Valley, with gusty winds from the northwest dropping temperatures to around freezing. High pressure of Canadian origin brought the first killing freeze as the mercury dipped into the low to mid 20s, effectively bringing an end to the growing season. Then, the state transitioned to the Fall season, with temperatures rising and diving on numerous occasions. Over the third week, Arctic

air brought cold temperatures averaging 38 degrees statewide. A couple of disturbances brought the first snow showers in Western and Central Kentucky. A winter-like weather then established with more snow showers and high temperature dipping into the 20s. Then temperatures rose again into the mid-30s. Temperatures for the month averaged 41 degrees across the state which was 7 degrees cooler than normal. Precipitation for the period totaled 2.39 inches statewide which was 1.51 inches below normal.

More detailed precipitation and temperature information for each test location is provided next Tables 6-11, in the sections Agronomic Information. Sources: [www.kymesonet.gov](http://www.kymesonet.gov), [www.nws.noaa.gov](http://www.nws.noaa.gov), and [www.gwx.ca.uky.edu/annual.shtml](http://www.gwx.ca.uky.edu/annual.shtml).

### Soybean Production Information

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

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

Table 2 is a seeding rate planting guide for full-season and double-crop soybeans. For additional research on seeding rates, see the *Corn & Soybean News*, 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 adequate for maximum yields in full-season soybeans. Seeding rates should be based on standard germination rate as well as expected stand losses. Stand losses are typically more severe in damp, cool conditions with heavy residue or with soil crusting. Stand losses are typically less with warm conditions and adequate soil moisture.

As of November 10, acreage for harvest as soybean in Kentucky was estimated at 1.75 million acres, up 90,000 acres from the previous year. Soybean production for

Kentucky is forecast at 84.0 million bushels, up 1 percent from 2013. Yield was estimated at 48 bushels per acre, down 2 bushels from a year ago. Soybean price reached \$12.60 per bushel in August in Kentucky. (Source: 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 a) kind and variety for each agricultural seed component present in excess of 5% of the whole, and b) the percentage by weight of each component. All soybean seed blends should be labeled as to the percentage of each variety that makes up the mixture. All soybean seed must be labeled by variety name; the term "variety unknown" may no longer be used in place of a variety designation for soybeans.

### Acknowledgments

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- The farm crew at Murray State University for their help with agronomic management and harvest at the Caldwell Co. location.
- Author C. Venard dedicates this publication to Michael, Samantha, and Adelyne.

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

### Sources of Seeds

The seeds planted in the 2014 Soybean Variety Performance Tests were acquired from the following sources:

#### Armor Seed, LLC

Chris Ouzts.....870-579-2286  
 183 Pennsylvania Ave., Waldenburg, AR 72396  
[chrisoutzts@armorseed.com](mailto:chrisoutzts@armorseed.com)

ARMOR 39-R16	ARMOR 50-R44	ARMOR AX4480
ARMOR 43-R43	ARMOR AX4310	ARMOR AX4490
ARMOR 44-R08	ARMOR AX4390	ARMOR AX4500
ARMOR 46-R65	ARMOR AX4391	ARMOR AX4520
ARMOR 47-R13	ARMOR AX4410	ARMOR X447C
ARMOR 48-R66	ARMOR AX4430	ARMOR X47C
ARMOR 49-C3	ARMOR AX4440	ARMOR X48C
ARMOR 49-R56	ARMOR AX4450	ARMOR X49C
	ARMOR AX4471	

#### Bayer CropScience

Lucas Owen .....731-793-3530  
[lucas.owen@bayer.com](mailto:lucas.owen@bayer.com)

CZ 3841 LL	HBK RY4620	HBK LL4950
CZ 4181 RY	HBK LL4650	HBK LL4953
CZ 4959 RY	HBK LL4653	HBK RY4721
CZ 5150 LL	HBK LL4850	

#### Beck's Hybrids

Craig Hurley.....317-984-3508  
 6767 East 276th Street, Atlanta, IN 46031  
[craig.hurley@beckshybrids.com](mailto:craig.hurley@beckshybrids.com)

BECK 423NL	BECK XL® 485R2™™*
BECK 483NL	BECK XL® EX 6326™™*
BECK 522L4	BECK XL® EX 6453™™*
BECK EX 6424	

*XL® Brand seed is distributed by Beck's Superior Hybrids, Inc. XL® is a registered trademark of Dupont Pioneer Hi-Bred.*

#### Caverndale Farms Brand Seeds

Barry Welty.....859-236-2150  
 1921 Bluegrass Pike, Danville, KY 40422  
[bwelty@kywimax.com](mailto:bwelty@kywimax.com)

CAVERNDALE CF 286 RR2Y/STSn  
 CAVERNDALE CF 380 RR2Yn  
 CAVERNDALE CF 425 LLn  
 CAVERNDALE CF 426 RR2Y/STSn  
 CAVERNDALE CF 456 RR2Y/STSn  
 CAVERNDALE CF 469 LL/STSn  
 CAVERNDALE CF 472 RR2Y/STSn  
 CAVERNDALE CF 479 LLn  
 CAVERNDALE CF 485 LLn  
 CAVERNDALE CF 486 RR2Y/STSn  
 CAVERNDALE CF 496 RR2Yn

#### Channel

David Haines .....574-870-9207  
 800 N. Lindbergh Avenue, St. Louis, MO 63167  
[david.haines@monsanto.com](mailto:david.haines@monsanto.com)

CHANNEL 3707R2/STS	CHANNEL 4407R2/STS
CHANNEL 4107R2	CHANNEL 4508R2/SR

#### DuPont Pioneer

George Stabler .....803-308-1003  
 59 Grief Parkway, Suite 200, Delaware, OH 43015  
[George.Stabler@pioneer.com](mailto:George.Stabler@pioneer.com)

PIONEER 92Y83	PIONEER P45T11
PIONEER 93Y05	PIONEER P46T21R
PIONEER 93Y84	PIONEER P47T36R
PIONEER 93Y92	PIONEER P48T53R
PIONEER 94Y23	PIONEER P49T97R
PIONEER P28T33R	PIONEER P50T64R
PIONEER P35T58R	

#### Dyna-Gro Seed

Michael Schonauer .....614-761-4110  
 6221 Riverside Drive, Suite 1 North, Dublin, OH 43017  
[michael.schonauer@cpsagu.com](mailto:michael.schonauer@cpsagu.com)

DYNA-GRO 32RY39	DYNA-GRO S46RY85
DYNA-GRO 39RY43	DYNA-GRO S47RY13
DYNA-GRO S39RY65	DYNA-GRO S48R553
DYNA-GRO S40RY25	DYNA-GRO S49RY25
DYNA-GRO S42RS03	DYNA-GRO S51RY45
DYNA-GRO S43RY95	DYNA-GRO SX14247R

**Great Lakes Hybrids**

Phil Brunner ..... 1-800-257-7333  
 9915 W M-21, Ovid, MI 48866  
 Phil.brunner@cpsagu.com  
 GREAT LAKES HYBRIDS GL3729R2  
 GREAT LAKES HYBRIDS GL3929R2  
 GREAT LAKES HYBRIDS GL4209R2  
 GREAT LAKES HYBRIDS GL4729R2

**Growmark**

Ken Martin ..... 309-660-5576  
 1701 Towanda Avenue, Bloomington, IL 61702  
 kmartin@growmark.com  
 HS 47A42      HS 48A22      HS 49A42

**L&M Glick Seed**

Trevor Glick ..... 812-343-8119  
 15120 E Base Rd, Columbus, IN 47203  
 trevor@glickseed.com  
 L&M GLICK 399 RY2      L&M GLICK 412 RY2

**LG Seeds**

Jesse E. Grogan ..... 765-426-2763  
 22827 Shissler Road, Elmwood, IL 61529  
 jesse.grogan@lgseeds.com  
 LG SEEDS C2835R2      LG SEEDS C4696R2  
 LG SEEDS C3989R2      LG SEEDS C4780R2  
 LG SEEDS C4010R2      LG SEEDS C4919R2  
 LG SEEDS C4322R2

**Monsanto-DEKALB/Asgrow Company**

Glenn Murphy ..... 502-377-5053  
 264 Persimmon Ridge Drive, Louisville, KY 40245  
 glen.p.murphy@monsanto.com  
 ASGROW AG3735      ASGROW AG4533  
 ASGROW AG3832      ASGROW AG4534  
 ASGROW AG3934      ASGROW AG4632  
 ASGROW AG4033      ASGROW AG4831  
 ASGROW AG4034      ASGROW AG4832  
 ASGROW AG4135      ASGROW AG4835  
 ASGROW AG4232      ASGROW AG4933  
 ASGROW AG4433      ASGROW AG4934  
 ASGROW AG4531

**Mycogen Seeds**

Chris Wiley ..... 270-438-6534  
 CJWiley@dow.com  
 MYCOGEN SEEDS 5N393R2  
 MYCOGEN SEEDS 5N423R2  
 MYCOGEN SEEDS 5N431R2  
 MYCOGEN SEEDS 5N451R2  
 MYCOGEN SEEDS 5N478R1  
 MYCOGEN SEEDS 5N479R2  
 MYCOGEN SEEDS 5N540R2  
 MYCOGEN SEEDS X54522NR2

**Pfister Seeds**

Brad Johnson ..... 515-681-9092  
 201 Knollwood Drive Suite A, Champaign, IL 61820  
 bjohnson@pfisterseeds.com  
 PFISTER 33R28      PFISTER 39R29      PFISTER 49R22  
 PFISTER 35R25      PFISTER 43R29      PFISTER 52R26  
 PFISTER 46R25

**Progeny Ag. Products**

Brian Murray ..... 870-238-2079  
 1529 Hwy 193, Wynne, AR 72396  
 bmurray@progenyag.com  
 PROGENY 4211 RY      PROGENY 4788 RY  
 PROGENY 4440 RY      PROGENY 4819 LL  
 PROGENY 4510 RYS      PROGENY 4850 RYS  
 PROGENY 4560 LL      PROGENY 4900 RY  
 PROGENY 4613 RYS      PROGENY 4928 LL  
 PROGENY 4620 LLS      PROGENY 4930 LL  
 PROGENY 4747 RY

**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 9363RR™  
 SEED CONSULTANTS SCS 9385RR™  
 SEED CONSULTANTS SCS 9392RR™  
 SEED CONSULTANTS SCS 9393RR™  
 SEED CONSULTANTS SCS 9434RR™  
 SEED CONSULTANTS SCS 9435R2™  
 SEED CONSULTANTS SCS 9443RR™  
 SEED CONSULTANTS SCS 9474RR™  
 SEED CONSULTANTS SCS 9494RR™

**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 SS 3813N R2  
 SOUTHERN STATES SS 3914NS R2  
 SOUTHERN STATES SS 4114N R2  
 SOUTHERN STATES SS 4312N R2  
 SOUTHERN STATES SS 4514N R2  
 SOUTHERN STATES SS 4700 R2-ST5  
 SOUTHERN STATES SS 4714NS R2  
 SOUTHERN STATES SS 4725NS R2  
 SOUTHERN STATES SS 4913N R2  
 SOUTHERN STATES SS 4917N R2

**Stewart Seeds**

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

**Steyer Seeds**

Joe Steyer ..... 800-231-4274  
 P.O. Box 209, Old Fort, OH 44861  
 joesteyer@yahoo.com  
 STEYER 2702R2      STEYER 4303R2      STEYER 4802R2  
 STEYER 2805R2      STEYER 4401 R2      STEYER 5101R2  
 STEYER 3103R2      STEYER 4501R2      STEYER 5301R2  
 STEYER 3403R2      STEYER 4602R2  
 STEYER 4002R2      STEYER 4702R2

**Stine Seed Company**

Kyle Ross ..... 270-993-4590  
 2133 West Fairview Drive, Rockport, IN 47635  
 kwross@stineseed.com  
 STINE 37RC82      STINE 42LD02      STINE 46LD02  
 STINE 38RE02      STINE 42RD02      STINE 48RD00  
 STINE 43RE02

**Syngenta Seeds**

Sarah Gehant ..... 270-307-4440  
 4320 Upton Talley Road, Upton, KY 42784  
 sarah.gehant@syngenta.com  
 SYNGENTA S27-J7      SYNGENTA S43-K1  
 SYNGENTA S28-A2      SYNGENTA S45-V8  
 SYNGENTA S29-G4      SYNGENTA S46-L2  
 SYNGENTA S39-T3      SYNGENTA S47-K5  
 SYNGENTA S40-N2      SYNGENTA S48-P4  
 SYNGENTA S41-J6      SYNGENTA S49-F8

**Terral Seed, Inc.**

Phil Michener ..... 662-822-8242  
 pmichener@terraalseed.com  
 Marty Hale ..... 318-231-8800  
 mhale@terraalseed.com  
 111 Elington Drive, Rayville, LA 71269  
 REV® 39A35™      REV® 48R22™      REV® 52A94™  
 REV® 41A05™      REV® 48R44™      REV® 52R74™  
 REV® 42A65™      REV® 49A14™      REV® 53R23™  
 REV® 44A15™      REV® 49A55™      REV® 54R84™  
 REV® 46R64™      REV® 49A75™      REV® 55R53™  
 REV® 47R34™      REV® 49R94™      REV® 56A54™  
 REV® 47R53™      REV® 51R53™

**Unisouth Genetics, Inc.**

Stacy Burwick ..... 800-505-3133  
 3205-C HWY 46S, Dickson, TN 37055  
 sburwick@usgseed.com  
 UNISOUTH GENETICS USG 73P93R  
 UNISOUTH GENETICS USG 74A33R  
 UNISOUTH GENETICS USG 74F24RS  
 UNISOUTH GENETICS USG 74F53R

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 UNIVERSITY OF ARKANSAS OZARK  
 UNIVERSITY OF ARKANSAS R04-1250RR  
 UNIVERSITY OF ARKANSAS R04-1268RR  
 UNIVERSITY OF ARKANSAS R05-3239  
 UNIVERSITY OF ARKANSAS R05-374  
 UNIVERSITY OF ARKANSAS R08-2797  
 UNIVERSITY OF ARKANSAS R09-4571  
 UNIVERSITY OF ARKANSAS R10-130RY  
 UNIVERSITY OF ARKANSAS UA 5213C  
 UNIVERSITY OF ARKANSAS UA 5612

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 UNIVERSITY OF TENNESSEE ELLIS

**US Seeds, LLC**

Janie Boone ..... 870-336-2290  
 2532 Alexander Dr., Jonesboro, AR 72401  
 janieboone@usseeds.net  
 HALO 4:40      HALO 5:01      HALO X448  
 HALO 4:76      HALO 5:25      HALO X449  
 HALO 4:94      HALO 5:26      HALO X451  
 HALO 4:95      HALO 5:45      HALO X452  
 HALO 4:97      HALO X440

**USDA-ARS**

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

**Warren Seed and Agronomy Service, LLC**

Lanny Warren ..... 731-234-2921  
 208 South Thompsom St, Union City, TN 38261  
 lanny.warren@charter.net  
 WARREN SEED DS 3838 R2Y  
 WARREN SEED DS 4330 R2Y  
 WARREN SEED DS 4340 R2Y  
 WARREN SEED DS 4633 R2Y  
 WARREN SEED DS 4850 R2Y/STS  
 WARREN SEED DST 40-001 R2Y

**Table 3. Company Specifications for Entries in the 2014 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	3.9	3, 14	1c	MR	MR		MR	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR 43-R43	RR2Y	4.3	3, 14	1a	MR	MR		MR	MR-FROGEYE LEAF SPOT MR-ROOT KNOT NEMATODE	3,12,5
ARMOR 44-R08	RR2Y	4.4	3, 14	seg c	MR	MR		M	MS-FROGEYE LEAF SPOT	3,12,5
ARMOR 46-R65	RR2Y	4.6	3, 14	1c	MR	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR 47-R13	RR2Y	4.7	3, 14	1c	MR	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR 48-R66	RR2Y	4.8	3, 14		MR	MR		MR	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR 49-C3	CON	4.9	1, 2, 5, 3, 14	1a	MR	MR	R	MR	R-FROGEYE LEAF SPOT	3,12,5
ARMOR 49-R56	RR2Y	4.9	3, 14	1a	M	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR 50-R44	RR2Y	5.0	3	1c	MR	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4310	RR2Y	3.1	3, 14	1c	M	MR				3,12,5
ARMOR AX4390	RR2Y	3.9	3, 14	1c	MR	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4391	RR2Y	3.9	3		M	M		MR	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4410	RR2Y	4.1	3		MR	R		NA	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4430	RR2Y	4.3	3, 14	1a	MR	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4440	RR2Y	4.4	3, 14	1a	M	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4450	RR2Y	4.5	3, 14	1k	MR	MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4471	RR2Y	4.7	3, 14	1a	M	M		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4480	RR2Y	4.8	3, 14	1c	M	MR		R	S-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4490	RR2Y	4.9	3, 14	1c	MR	M		R	MS-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4500	RR2Y	5.0	3, 14	1c	MR	R		MR	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR AX4520	RR2Y	5.2	3, 14		M	MR		R	R-FROGEYE LEAF SPOT	3,12,5
ARMOR X447C	CONV	4.7				MR		R	S-FROGEYE LEAF SPOT	3,12,5
ARMOR X47C	CONV	4.7				MR		R	MS-FROGEYE LEAF SPOT	3,12,5
ARMOR X48C	CONV	4.8				MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ARMOR X49C	CONV	4.9				MR		R	MR-FROGEYE LEAF SPOT	3,12,5
ASGROW AG3735	RR2Y	3.7	3	1k	T	MR		R		2, 25
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/SR	4.0	3	1c	MT	MR		R		2, 25
ASGROW AG4034	RR2Y	4.0	3	1c	T	MR		R		2, 25
ASGROW AG4135	RR2Y/SR	4.1	3	1c	T	MR		R		2, 25
ASGROW AG4232	RR2Y/SR	4.2	3	1a	MT	MS		R		2, 25
ASGROW AG4433	RR2Y	4.4	3	1c	T	MR		R		2, 25
ASGROW AG4531	RR2Y/STS	4.5	3	1c	MS	MR		MR		2, 25
ASGROW AG4533	RR2Y/STS	4.5	3	1c	T	MR		R		2, 25
ASGROW AG4534	RR2Y/STS	4.5	3	1c	T	MR		R		2, 25
ASGROW AG4632	RR2Y/STS	4.6	3	1a	T	MS		MR		2, 25
ASGROW AG4831	RR2Y/STS	4.8			S	R		MR		2, 25
ASGROW AG4832	RR2Y/STS	4.8	3	1c	MT	MS		MR		2, 25
ASGROW AG4835	RR2Y/STS	4.8	3	1c	MS	MR		R		2, 25
ASGROW AG4933	RR2Y	4.9	3	1c	T	MR		R		2, 25
ASGROW AG4934	RR2Y/STS	4.9	3	1c	T	MR		R		2, 25
BECK 423NL	LL	4.2	3, 14	1a,3a	T	T				22
BECK 483NL	LL	4.8	3, 14	1k	T	T				22
BECK 505L4	LL-EXP	5.0	3, 14	1k	T	MT		R		22
BECK 522L4	LL	5.2	3, 14	1c	T	T		R		22
BECK XL® 465R4™*	RR/STS-EXP	4.6	3, 14		T	MT		R		22
BECK XL® 485R2™*	RR2Y/STS	4.8	3, 14	1c	MT	T		R		22
BECK XL® 493R4™*	RR-EXP	4.9	3, 14		T	MT		R		22
CZ 3841 LL	LL	3.8	3			R		MR		25, 28
CZ 4181 RY	RR2Y	4.1	3			R		R		25, 28
CZ 4959 RY	RR2Y	4.9								
CZ 5150 LL	LL	5.1								
CAVERNDALE CF 286 RR2Y/STSn	RR2Y/STS	2.8			T	MR				1, 12, 20, 24
CAVERNDALE CF 380 RR2Yn	RR2Y	3.8	3, 14		T	MR		MR		1, 12, 20, 24
CAVERNDALE CF 425 LLn	LL	4.2	3		T	MR				1, 12, 20, 24
CAVERNDALE CF 426 RR2Y/STSn	RR2Y/STS	4.2	3, 14	1c	T	MR		MR		1, 12, 20, 24
CAVERNDALE CF 456 RR2Y/STSn	RR2Y/STS	4.5	3, 14	1c	T	MR		R	R-ROOT KNOT NEMATODE	1, 12, 20, 24
CAVERNDALE CF 469 LL/STSn	LL/STS	4.9			T	MR				1, 12, 20, 24
CAVERNDALE CF 472 RR2Y/STSn	RR2Y/STS	4.7	3, 14	1c	T	MR		R	MR-ROOT KNOT NEMATODE	1, 12, 20, 24
CAVERNDALE CF 479 LLn	LL	4.7	3, 14		T	MR		R	R-FROGEYE LEAF SPOT	1, 12, 20, 24
CAVERNDALE CF 485 LLn	LL	4.8			R	MR				1, 12, 20, 24
CAVERNDALE CF 486 RR2Y/STSn	RR2Y/STS	4.8	3, 14		T	MR		MR		1, 12, 20, 24
CAVERNDALE CF 496 RR2Yn	RR2Y	4.9	3	1c	T	MR		R		1, 12, 20, 24
CHANNEL 3707R2/STS	RR2Y/SR	3.7	3		T	T		T		1, 10, 11
CHANNEL 4107R2	RR2Y	4.1	3		MT	MT		MR		1, 10, 11
CHANNEL 4407R2/STS	RR2Y/SR	4.4	3		T	MT		R		1, 10, 11
CHANNEL 4508R2/SR	RR2Y/SR	4.5	3		T	T		T		1, 10, 11
DYNA-GRO 32RY39	RR2Y/STS	3.9	3, 14	1c	T	MR	MR		MR-FROGEYE LEAF SPOT	6, 26
DYNA-GRO 39RY43	RR2Y	4.3	3, 14	1c	MT	MR	MS	MS		6, 26
DYNA-GRO S39RY65	RR2Y	3.9	3, 14		MT	MS	MR			6, 26
DYNA-GRO S40RY25	RR2Y	4.0	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	6, 26
DYNA-GRO S42RS03	RR2Y/STS	4.2	3, 14	1a	T	S	MR	MR	MR-CHARCOAL ROT	6, 26
DYNA-GRO S43RY95	RR2Y	4.3	3, 14	1k	T	MS		MR	MR-FROGEYE LEAF SPOT	6, 26
DYNA-GRO S46RY85	RR2Y	4.6	3, 14	1k	MT	MR		R	MR-CERCOSPORA	6, 26
DYNA-GRO S47RY13	RR2Y/STS	4.7	3, 14		MT	MS	MR	MR	MR-FROGEYE LEAF SPOT	6, 26
DYNA-GRO S48RS53	RR2Y	4.8	3, 14	1c	T	MS	MR	R	R-FROGEYE LEAF SPOT	6, 26
DYNA-GRO S49RY25	RR2Y	4.9	3, 14	1c	T	R		MR	R-FROGEYE LEAF SPOT	6, 26
DYNA-GRO S51RY45	RR2Y	5.1	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	6, 26
DYNA-GRO SX14247R	RR2Y	4.7	3, 14		MS	MS		MR	R-FROGEYE LEAF SPOT	6, 26
ESSEX (long term check-release 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 GL3729R2	RR2Y	3.7	3, 14	1k	T	MR		MR		25

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					
GREAT LAKES HYBRIDS GL3929R2	RR2Y	3.9	3, 14	1c	T	R		R	R-FROGEYE LEAF SPOT	25
GREAT LAKES HYBRIDS GL4209R2	RR2Y/STS	4.2	3, 14	1a	T	R		MR	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	4.4	3, 14	3a	MT	MR		MR	MR - FROGEYE LEAF SPOT	3,12,5
HALO 4:76	LL	4.7	3, 14	1k	MT	MR		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 4:94	LL	4.9	3, 14	1k	M	M		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 4:95	LL	4.9	3, 14	1k	MT	MR		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 4:97	LL/STS	4.9	3, 14	1k	MT	MR		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 5:01	LL	5.0	3	1c	MT	MR		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 5:25	LL	5.2	3, 14		MT	MR		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 5:26	LL	5.2	3, 14	1k	MT	MR		R	MR - FROGEYE LEAF SPOT	3,12,5
HALO 5:45	LL	5.4	3, 14	1k	MT	MR		R	R-FROGEYE LEAF SPOT	3,12,5
HALO X440	LL	4.0	3,14	3a	MT	MR		MR	MR - FROGEYE LEAF SPOT	3,12,5
HALO X448	LL	4.8	3	seg c	MT	MR		MR	MR - FROGEYE LEAF SPOT	3,12,5
HALO X449	LL/STS	4.9	3,14	seg k	MT	MR		MR	R-FROGEYE LEAF SPOT	3,12,5
HALO X451	LL	5.1	3,14	seg c		MR		MR	MR - FROGEYE LEAF SPOT	3,12,5
HALO X452	LL	5.2	3,14			MR		MR		3,12,5
HBK RY4620	RR2Y	4.6	3			MR		MS		25, 28
HBK LL4650	LL	4.6	3			R		R		25, 28
HBK LL4653	LL	4.6	3							25, 28
HBK LL4850	LL	4.8	3				R	R		25, 28
HBK LL4950	LL	4.9	3					R		25, 28
HBK LL4953	LL	4.9	3							25, 28
HBK RY4721	RR2Y	4.7	3			R		R		25, 28
HS 47A42	RR2Y/STS	4.7	3, 14	1c	T	MR		R	MR-ROOTKNOT NEMATODE	6
HS 48A22	RR2Y/STS	4.8	3, 14	S	MT	MR		MR		6
HS 49A42	RR2Y/STS	4.9	3, 14	1c	MT	MR	MR	R	R-ROOTKNOT NEMATODE	6
L&M GLICK 399 RY2	RR2Y	3.9	3, 14	1c	MT	MT		R		4, 20, 26
L&M GLICK 412 RY2	RR2Y	4.2	3, 14	1c	MT	MT				4, 20, 26
LG SEEDS C2835R2	RR2Y	2.8	3, 14	1c	T	R				3, 25, 27
LG SEEDS C3989R2	RR2Y	3.9	3, 14	1k	T	MR		R		3, 25, 27
LG SEEDS C4010R2	RR2Y	3.9	3, 14	1c	T	MR		R	R-ROOTKNOT NEMATODE	3, 25, 27
LG SEEDS C4322R2	RR2Y	4.3	3, 14	1a	T	R		R		3, 25, 27
LG SEEDS C4696R2	RR2Y/STS	4.6	3, 14	1c	T	MR		R		3, 25, 27
LG SEEDS C4780R2	RR2Y/STS	4.7	3, 14	1c	T	MR		R		3, 25, 27
LG SEEDS C4919R2	RR2Y/STS	4.9	3, 14	1c	T	MR		R	R-ROOTKNOT NEMATODE	3, 25, 27
MYCOGEN SEEDS 5N393R2	RR2Y	3.9	3	1c	T	MS		R		3, 5, 12, 26
MYCOGEN SEEDS 5N423R2	RR2Y	4.2	3, 14	1a	MT	MS		MR		3, 5, 12, 26
MYCOGEN SEEDS 5N431R2	RR2Y	4.3	3, 14	1c	MT	MS		MR		3, 5, 12, 26
MYCOGEN SEEDS 5N451R2	RR2Y	4.5	3, 14	1c	T	MS		R		3, 5, 12, 26
MYCOGEN SEEDS 5N478R1	RR2Y/STS	4.7	3, 14	1c	MT	MR		R		3, 5, 12, 26
MYCOGEN SEEDS 5N479R2	RR2Y/STS	4.7	3, 14	1c	T	MR		R		3, 5, 12, 26
MYCOGEN SEEDS 5N540R2	RR2Y	5.4	3, 14	1c	T	MR		R		3, 5, 12, 26
MYCOGEN SEEDS X54522NR2	RR2Y-EXP	5.2	3, 14	1c	T	MR		R		3, 5, 12, 26
PENNYRILE (long term check-release 1987)	CONV-P	4.7								
PFISTER 33R28	RR2Y	3.3	1, 3, 14	1c	T	MR	MR	MR		6, 29
PFISTER 35R25	RR2Y	3.5	1, 3, 14	1c	T	MR	MR	MR		6, 29
PFISTER 39R29	RR2Y	3.9	1, 3, 14	1c	T	MR	MR	MR		6, 29
PFISTER 43R29	RR2Y	4.3	1, 3, 14	1c	MR	MR	MR	MR		6, 29
PFISTER 46R25	RR2Y	4.6	1, 3, 14	1c	MR	MR	MR	MR		6, 29
PFISTER 49R22	RR2Y	4.9	1, 3, 14	1c	T	MR	MR	MR		6, 29
PFISTER 52R26	RR2Y	5.2	1, 3, 14		MR	MR	MR	MR		6, 29
PIONEER 92Y83	RR	2.8	3, 14	1k		MR				3, 10
PIONEER 93Y05	RR	3.0	3, 14	1k		MR				3, 10
PIONEER 93Y84	RR	3.8	3, 14			MR				3, 10
PIONEER 93Y92	RR	3.9	3, 14			MR				3, 10
PIONEER 94Y23	RR	4.2	3, 14			MR				3, 10
PIONEER P28T33R	RR	2.8	3, 14	1k		MR				3, 10
PIONEER P35T58R	RR	3.5	3, 14			MR				3, 10
PIONEER P45T11	RR	4.5	3, 14	1k		MR	R			3, 10
PIONEER P46T21R	RR	4.6	3, 14			MR	R			3, 10
PIONEER P47T36R	RR	4.7	3, 14			MR	R			3, 10
PIONEER P48T53R	RR	4.8	3, 14			MR	R			3, 10
PIONEER P49T97R	RR	4.9	3, 14	1k		MR	R			3, 10
PIONEER P50T64R	RR	5.0	3, 14	1k		MR	R			3, 10
PROGENY 4211 RY	RR2Y	4.2	3, 14		T	MR			S-ROOTKNOT NEMATODE	25, 28
PROGENY 4440 RY	RR2Y	4.4	3, 14	1a		MR		R	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4510 RYS	RR2Y/STS	4.5			MR	R		MS	MS-ROOTKNOT NEMATODE	25, 28
PROGENY 4560 LL	LL	4.5		1c		MR		MR	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4613 RYS	RR2Y/STS	4.6		1c		MR		R	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4620 LLS	LL/STS	4.6			T	MR		MR	MR-ROOTKNOT NEMATODE	25, 28
PROGENY 4747 RY	RR2Y	4.7	3, 14		T	MR		MR	MR-ROOTKNOT NEMATODE	25, 28
PROGENY 4788 RY	RR2Y	4.7	3, 14	1c		MS		MR	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4819 LL	LL	4.8	3	1c		MR			MS-ROOTKNOT NEMATODE	25, 28
PROGENY 4850 RYS	RR2Y/STS	4.8	3, 14	1c		MR		R	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4900 RY	RR2Y	4.9	3, 14	1a		MR		MR	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4928 LL	LL	4.9	3	1k				R	S-ROOTKNOT NEMATODE	25, 28
PROGENY 4930 LL	LL	4.9	3	1c		MR		MR	MS-ROOTKNOT NEMATODE	25, 28
REV® 39A35™	RR	3.9				MR				5
REV® 41A05™	RR	4.1								5
REV® 42A65™	RR	4.2	3, 14	1k	MT	T				5
REV® 44A15™	RR2Y	4.4	1, 3	1c	MR	MR				5
REV® 46R64™	RR	4.6	3, 14		MT	T		R		5
REV® 47R34™	RR	4.7	3, 14		MR	MR		R		5

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					
REV <sup>®</sup> 47R53™	RR	4.7	3, 14	1k	MT	T		MR		5
REV <sup>®</sup> 48R22™	RR	4.8	3, 14	1k	MR	MR		MR		5
REV <sup>®</sup> 48R44™	RR	4.8	3, 14	1k	T	MR		R		5
REV <sup>®</sup> 49A14™	RR2Y/STS	4.9	3	1c	T	MR				5
REV <sup>®</sup> 49A55™	RR	4.9	3, 14		T	MT		MR		5
REV <sup>®</sup> 49A75™	RR	4.9		1k	T	T		R		5
REV <sup>®</sup> 49R94™	RR	4.9	3, 14	1k	MT	MR				5
REV <sup>®</sup> 51R53™	RR	5.1	3, 14	1k	T	MR		MR		5
REV <sup>®</sup> 52A94™	RR2Y/STS	5.2	3, 14		MR			R		5
REV <sup>®</sup> 52R74™	RR	5.2	3, 14		MR	MR		MR		5
REV <sup>®</sup> 53R23™	RR	5.3	3, 14	1k	MR	R		MR		5
REV <sup>®</sup> 54R84™	RR	5.4	3, 14	1k	MR	MR		MR		5
REV <sup>®</sup> 55R53™	RR	5.5	3, 14	1k	R	MR		MR		5
REV <sup>®</sup> 56A54™	RR2Y	5.6	1, 3		T	T				5
SEED CONSULTANTS SCS 9363RR™	RR	3.6	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SEED CONSULTANTS SCS 9385RR™	RR	3.8	3, 14		MT	MR			MR-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SEED CONSULTANTS SCS 9392RR™	RR	3.9	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SEED CONSULTANTS SCS 9393RR™	RR	3.9	3, 14	1k	MT	MR			R-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SEED CONSULTANTS SCS 9434RR™	RR	4.3	3, 14		MT	MR		R	R-FROGEYE LEAF SPOT	1, 4, 10
SEED CONSULTANTS SCS 9435R2™	RR	4.3	3, 14	1c	MT	MR		R	MS-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SEED CONSULTANTS SCS 9443RR™	RR	4.4	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SEED CONSULTANTS SCS 9474RR™	RR	4.7	3, 14	1k	MT	MR		R		1, 4, 10
SEED CONSULTANTS SCS 9494RR™	RR	4.9	3, 14	1k	MT	MR			MS-FROGEYE LEAF SPOT MT-CHARCOAL ROT	1, 4, 10
SOUTHERN STATES LL 423N	LL	4.2	3, 14	3a	MR	MR				2, 25
SOUTHERN STATES LL 473N	LL	4.7	3, 14	1k	MT	MS		MR		2, 25
SOUTHERN STATES SS 3813N R2	RR2Y	3.8	3, 14	1c	MT	T				2, 25
SOUTHERN STATES SS 3914NS R2	RR2Y/STS	3.9	3		MT	MS		MR		2, 25
SOUTHERN STATES SS 4114N R2	RR2Y	4.1	3, 14	1c	MT	MT		R		2, 25
SOUTHERN STATES SS 4312N R2	RR2Y	4.3	3, 14	1c	MT	MS		MS		2, 25
SOUTHERN STATES SS 4514N R2	RR2Y	4.5	3, 14	1k	MR	MR		R	R-FROGEYE LEAF SPOT	2, 25
SOUTHERN STATES SS 4700 R2-ST5	RR2Y/STS	4.7		1c		MS				2, 25
SOUTHERN STATES SS 4714NS R2	RR2Y/STS	4.7	3, 14	1c	MR	MR		R		2, 25
SOUTHERN STATES SS 4725NS R2	RR2Y/STS	4.7	3, 14	1c		MR		R		2, 25
SOUTHERN STATES SS 4913N R2	RR2Y	4.9	3	1c	MR	MR		R		2, 25
SOUTHERN STATES SS 4917N R2	RR2Y	4.9	3, 14	1a		MS		R		2, 25
STEWART 4113R2	RR2Y	4.1	3	1c	MT	MR	MR	R		1, 10, 11
STEWART 4412R2	RR2Y	4.4	3	1c	MS	R	MR	R		1, 10, 11
STEWART 4514R2	RR2Y/SR	4.5	3	S	MT	R	MR	MS		1, 10, 11
STEYER 2702R2	RR2Y	2.7	3, 14	1c	MT	MR	MR	MR		6, 26
STEYER 2805R2	RR2Y	2.8	3, 14	1a	MT	MR	MR	MR		6, 26
STEYER 3103R2	RR2Y	3.1	3, 14	1c	MT	MR	MR	MR		6, 26
STEYER 3403R2	RR2Y	3.4	3, 14	1c	MT	MR	MR	MR		6, 26
STEYER 4002R2	RR2Y	4.0	3, 14	1c	MT	MR	MR	R		6, 26
STEYER 4303R2	RR2Y/STS	4.3	3, 14	1c	MT	MR	MR	R		6, 26
STEYER 4401 R2	RR2Y	4.4	3, 14	1c	T	MR	MR	R	R-FROGEYE LEAF SPOT R-ROOTKNOT NEMATODE	6, 26
STEYER 4501R2	RR2Y	4.5								
STEYER 4602R2	RR2Y	4.6	3, 14	1k	MT	MR	MR	R		6, 26
STEYER 4702R2	RR2Y	4.7	3, 14		MT	MR	MR	MR		6, 26
STEYER 4802R2	RR2Y/STS	4.8	3, 14		MT	MR	MR	MR		6, 26
STEYER 5101R2	RR2Y	5.1	3, 14	1c	MT	MR	MR	MR		6, 26
STEYER 5301R2	RR2Y	5.3	3, 14		MT	MR	MR	MR		6, 26
STINE 37RC82	RR2Y/STS	3.7		1c				MR		
STINE 38RE02	RR2Y	3.8		1c				MR		
STINE 42LD02	LL	4.2		3a				R		
STINE 42RD02	RR2Y/STS	4.2		1c		MS		R		
STINE 43RE02	RR2Y	4.3			MT	MS		MR		
STINE 46LD02	LL	4.6			MT			R		
STINE 48RD00	RR2Y/STS	4.8			MT	MS		R		
SYNGENTA S27-J7	RR2Y	2.7	3, 14	1k	MT	MR				3, 5, 12, 26, 29
SYNGENTA S28-A2	RR2Y	2.8	3, 14	1c	MT	MR				3, 5, 12, 26, 29
SYNGENTA S29-G4	RR2Y	2.9	3, 14	1c	MT	MR				3, 5, 12, 26, 29
SYNGENTA S39-T3	RR2Y/STS	3.9	3, 14		MT	MR			MR-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S40-N2	RR2Y	4.0	3, 14	1a	MT	MR			R-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S41-J6	RR2Y	4.1	3, 14	1c	MT	MR			MR-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S43-K1	RR2Y	4.3	3, 14		MR	MR		MR	R-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S45-V8	RR2Y	4.5	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S46-L2	RR2Y	4.6	3, 14	1c	MR	MR		R	MR-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S47-K5	RR2Y	4.7	3, 14	1a	MT	MR			R-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
SYNGENTA S48-P4	RR2Y/STS	4.8	3, 14	1k	MT	MS		R	MR-FROGEYE LEAF SPOT	3, 5, 12, 26, 29



**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					
SYNGENTA S49-F8	RR	4.9	3, 14	1a	MT	MR		R	R-FROGEYE LEAF SPOT	3, 5, 12, 26, 29
UNISOUTH GENETICS USG 73P93R	RR2Y	3.9	3, 14			MR			MR-SUDDEN DEATH SYNDROME	7
UNISOUTH GENETICS USG 74A33R	RR2Y	4.3	3			MR		MR	MR-FROGEYE LEAF SPOT	7
UNISOUTH GENETICS USG 74F24RS	RR2Y/STS	4.2		1c		MR		R		7
UNISOUTH GENETICS USG 74F53R	RR2Y/STS	4.5		1c		R		R		7
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 R05-3239	CONV	4.9								4
UNIVERSITY OF ARKANSAS R05-374	CONV	5.1								4
UNIVERSITY OF ARKANSAS R08-2797	CONV	4.7								4
UNIVERSITY OF ARKANSAS R09-4571	CONV	4.9								4
UNIVERSITY OF ARKANSAS R10-130RY	RR2Y	5.2								4
UNIVERSITY OF ARKANSAS UA 5213C	CONV	5.2								4
UNIVERSITY OF ARKANSAS UA 5612	CONV	5.6								4
UNIVERSITY OF MISSOURI S10-11227	CONV	4.1	2, 3, 5, 14		T			R		10, 17
UNIVERSITY OF TENNESSEE ELLIS	CONV	4.9								
WARREN SEED DS 3838 R2Y	RR2Y	3.8	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 DST 40-001 R2Y	RR2Y	4.0	3, 14	1c	MT	MR				6

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, MT = moderately tolerant, T = tolerant, MR = moderately resistant, R = resistant

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 sulfonyleurea herbicide tolerant soybean variety

SR Sulfonyleurea Resistant Variety

CONV Variety is a conventional entry

EXP Variety that is soon to be released or still being evaluated

P Public variety

**Table 4. Seed Treatments.**

Code	Name (treatment combination)	Treatment	Chemical Class/Use	LD50 Oral/Derm <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, Axoxystrobin	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	Gaicho	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	5,000/5,000	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
29	Clariva <sup>™</sup> Complete Beans	Pasteuria nishizawae, Mefenoxam, Thiamethoxam, Fludioxonil, Sedaxane	nematicide, systemic & non-systemic fungicide, systemic insecticide	see 6 & 26	see 6 & 26

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. 2014 Kentucky Soybean Variety Performance Tests, State Summary, Recommended Table.

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	% OIL <sup>A,B</sup>			% PROTEIN <sup>A,B</sup>		
	2014	2013-14	2012-14			2014	2013-14	2012-14	2014	2013-14	2012-14
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>											
PIONEER P28T33R	54.8		N/A	49.6	1.0	19.9		N/A	38.5		N/A
LG SEEDS C2835R2	53.2			49.9	1.1	18.5			40.3		
CAVERNDALE CF 286 RR2Y/STSn	51.9	54.5		49.8	1.1	18.4	18.7		40.0	38.8	
STEYER 2805R2	51.4			49.2	1.0	19.5			39.8		
STEYER 2702R2	51.1			49.4	1.1	19.4			39.2		
SYNGENTA S28-A2	50.7			48.8	1.1	20.2			38.7		
PIONEER 92Y83	50.6			49.4	1.0	20.5			40.1		
SYNGENTA S27-J7	50.1			48.7	1.2	20.5			39.0		
SYNGENTA S29-G4	44.7			48.4	1.0	20.8			38.2		
<b>GROUP II AVERAGE</b>	<b>51.0</b>	<b>54.5</b>		<b>49.2</b>	<b>1.1</b>	<b>19.7</b>	<b>18.7</b>		<b>39.3</b>	<b>38.8</b>	
<b>LSD (0.10)</b>	3.6			0.8		0.4			0.5		
<b>C.V.</b>	5.2			2.8		1.3			0.8		
<b>MATURITY GROUP III (relative MG 3.0-3.9)<sup>C</sup></b>											
SYNGENTA S39-T3	66.0			50.7	1.1	18.7			37.9		
SEED CONSULTANTS SCS 9385RR™	64.8			50.9	1.1	20.0			36.7		
REV® 39A35™	64.0			50.3	1.1	20.1			36.7		
SEED CONSULTANTS SCS 9393RR™	63.9	64.4		51.1	1.0	19.9	20.3		37.5	36.6	
WARREN SEED DS 3838 R2Y	63.2			50.5	1.1	19.2	19.6	20.2	38.4	37.5	37.0
PIONEER 93Y92	63.2	62.4	56.3	50.1	1.3	20.0			36.9		
ARMOR AX4391	62.5			50.7	1.0	18.7			38.6		
SOUTHERN STATES SS 3914NS R2	62.5			50.9	1.0	18.7			38.5		
SOUTHERN STATES SS 3813N R2	62.2	64.7		51.0	1.0	19.4	19.6		37.2	36.9	
DYNA-GRO S39RY65	62.2			50.0	1.0	19.0			38.0		
LG SEEDS C3989R2	61.9	64.3	59.3	50.5	1.1	19.7	19.9	20.5	37.7	37.1	36.3
CHANNEL 3707R2/STS	61.7			50.5	1.0	18.7			38.3		
SEED CONSULTANTS SCS 9392RR™	61.7	60.3	56.4	51.1	1.2	20.0	20.3	21.0	37.7	36.5	35.8
PFISTER 39R29	61.5			51.4	1.1	18.4			38.9		
SEED CONSULTANTS SCS 9363RR™	61.1	62.0		51.2	1.0	19.3	19.6		38.0	37.0	
CZ 3841 LL	61.0			50.6	1.0	19.0			38.7		
MYCOGEN SEEDS 5N393R2	60.6	62.5		51.0	1.1	18.0	18.5		40.6	39.0	
UNISOUTH GENETICS USG 73P93R	60.6	61.6		50.7	1.0	19.1	19.6		38.4	37.5	
PIONEER P35T58R	60.3	63.2		50.3	1.1	19.9	20.1		37.2	36.6	
GREAT LAKES HYBRIDS GL3729R2	60.0			51.7	1.1	19.6			37.9		
PIONEER 93Y84	59.8	61.6	57.5	49.4	1.0	19.8	20.0	20.6	38.2	37.3	36.6
ARMOR AX4310	59.6			50.0	1.2	19.7			38.2		
LG SEEDS C4010R2	59.4			49.9	1.1	18.2			39.1		
DYNA-GRO 32RY39	59.3			50.6	1.0	18.8			37.8		
ASGROW AG3934	59.1	58.9		50.6	1.0	18.6	18.8		39.1	38.4	
ARMOR AX4390	59.1			50.2	1.0	18.2			39.0		
GREAT LAKES HYBRIDS GL3929R2	58.9			51.0	1.0	18.3			38.6		
STINE 37RC82	58.8			50.9	1.0	18.9			38.2		
STINE 38RE02	58.7			51.3	1.1	19.0			38.0		
ASGROW AG3735	58.5			50.6	1.0	18.4			38.7		
PFISTER 33R28	58.4			51.2	1.0	18.9			38.3		
ASGROW AG3832	58.4	61.9	56.0	50.8	1.0	18.3	18.8	19.4	38.9	37.7	37.1
L&M GLICK 399 RY2	57.9			51.1	1.0	18.0			39.3		
STEYER 3403R2	57.5			50.9	1.1	18.3			39.8		
CAVERNDALE CF 380 RR2Yn	57.4	58.4		50.0	1.1	19.3	19.5		37.8	37.1	
PFISTER 35R25	57.0			50.6	1.0	19.3			37.9		
ARMOR 39-R16	57.0	60.6	55.6	50.0	1.1	18.7	19.0	19.5	38.8	37.8	37.1
STEYER 3103R2	55.6			50.9	1.0	18.7			38.7		
PIONEER 93Y05	53.2			49.2	1.0	19.8			37.9		
<b>GROUP III AVERAGE</b>	<b>60.2</b>	<b>61.9</b>	<b>56.9</b>	<b>50.6</b>	<b>1.1</b>	<b>19.0</b>	<b>19.5</b>	<b>20.2</b>	<b>38.3</b>	<b>37.4</b>	<b>36.6</b>
<b>LSD (0.10)</b>	5.4	4.4	3.3	0.9		0.3	0.2	0.2	0.4	0.3	0.2
<b>C.V.</b>	6.7	7.6	7.2	3.3		1.3	1.3	1.3	0.8	0.9	0.8
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)<sup>D</sup></b>											
SOUTHERN STATES LL 423N	67.9	66.3		50.0	1.3	18.9	19.2		37.8	37.2	
STEYER 4303R2	67.2			50.0	1.3	19.8			37.0		
CAVERNDALE CF 426 RR2Y/STSn	67.1			49.9	1.3	19.4			37.3		
ASGROW AG4533	67.1			51.1	1.3	18.6			37.9		
SOUTHERN STATES SS 4514N R2	66.6			51.4	1.1	19.2			37.1		
UNISOUTH GENETICS USG 74F24RS	66.6			50.1	1.3	18.6			35.8		
UNISOUTH GENETICS USG 74A33R	66.4	61.2		50.7	1.1	18.8	19.1		37.9	37.6	
PROGENY 4211 RY	66.1	64.8	58.5	50.2	1.0	19.1	19.3	19.7	37.6	37.0	36.7
STINE 43RE02	66.1			50.3	1.1	19.1			36.5		
MYCOGEN SEEDS 5N451R2	66.0	67.0		50.5	1.2	18.9	19.4		36.9	36.1	
UNISOUTH GENETICS USG 74F53R	65.6			51.4	1.6	18.9			37.8		
WARREN SEED DS 4330 R2Y	65.2	64.6		51.9	1.1	18.5	18.9		38.7	37.9	
LG SEEDS C4322R2	65.1			49.8	1.1	19.7			37.2		
REV® 44A15™	65.0			50.1	1.1	18.4			38.2		

continued

# RECOMMENDED TABLE

Table 5. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT	LODGING	% OIL <sup>A,B</sup>			% PROTEIN <sup>A,B</sup>		
	2014	2013-14	2012-14	2014 <sup>A</sup>	2014	2014	2013-14	2012-14	2014	2013-14	2012-14
SEED CONSULTANTS SCS 9434RR™	64.9	65.8		50.3	1.1	19.5	19.7		37.7	36.9	
ARMOR AX4450	64.8			51.0	1.4	18.3			36.4		
STEWART 4113R2	64.4	64.2	57.6	51.5	1.1	18.6	18.9	19.1	36.7	36.2	35.9
DYNA-GRO S43RY95	64.4			49.7	1.3	19.3			37.4		
ARMOR 44-R08	64.4	68.2	60.4	50.2	1.1	19.1	19.3	19.7	37.5	37.0	36.7
DYNA-GRO 39RY43	64.2	64.2	58.8	50.4	1.1	19.2	19.4	19.8	37.5	37.2	36.8
STINE 42LD02	64.2			49.6	1.2	19.0			37.8		
ARMOR 43-R43	64.1	62.3		50.6	1.2	19.1	19.4		37.2	36.7	
PIONEER P45T11	64.1			50.9	1.0	18.9			37.4		
BECK 423NL	64.1	66.5		49.7	1.2	19.0	19.2		37.3	36.8	
ASGROW AG4135	64.0			49.7	1.3	19.4			37.4		
GREAT LAKES HYBRIDS GL4209R2	63.9	62.9		50.2	1.0	19.3	19.6		36.7	36.5	
ASGROW AG4534	63.6	61.0		49.9	1.2	19.1	19.4		38.0	37.7	
ASGROW AG4433	63.5	64.3	58.2	50.8	1.1	19.2	19.4	19.5	35.8	35.8	35.9
CAVERNDALE CF 456 RR2Y/STSn	63.5	65.2		50.0	1.0	18.8	19.1		37.9	37.5	
CAVERNDALE CF 425 LLn	63.4	62.7		50.0	1.3	18.8	19.1		38.0	37.1	
WARREN SEED DS 4340 R2Y	63.2	66.0	61.0	50.7	1.0	19.2	19.3	19.6	37.6	37.3	36.9
HALO 440	63.0	63.9		50.1	1.1	18.8	19.3		37.8	36.9	
ASGROW AG4232	62.9	64.6	59.0	50.3	1.5	19.2	19.1	19.5	36.5	36.6	36.2
STEWART 4412R2	62.7	64.2	58.0	50.3	1.1	19.1	19.6	20.1	37.2	36.2	35.7
CHANNEL 4107R2	62.7			50.8	1.3	19.5			37.3		
MYCOGEN SEEDS 5N431R2	62.6	63.0		50.1	1.0	19.3	19.4		37.2	36.9	
SYNGENTA S45-V8	62.5	62.4		51.6	1.1	19.0	19.5		37.3	36.7	
PIONEER 94Y23	62.5	63.4	58.4	49.8	1.0	19.7	19.9	20.3	36.7	36.2	35.7
SYNGENTA S43-K1	62.4	62.4		49.9	1.5	19.3	19.7		37.9	37.1	
MYCOGEN SEEDS 5N423R2	62.4	62.5		50.4	1.1	19.5	19.4		36.6	36.5	
SEED CONSULTANTS SCS 9435R2™	62.3			50.8	1.1	18.7			37.7		
ASGROW AG4034	62.2			50.5	1.0	18.6			38.7		
SEED CONSULTANTS SCS 9443RR™	62.2	62.8		49.3	1.1	19.4	19.7		38.2	37.6	
PROGENY 4510 RYS	62.1	61.2	56.1	50.9	1.1	18.5	18.9	19.2	37.6	37.7	37.4
SOUTHERN STATES SS 4114N R2	62.1			49.8	1.1	18.6			38.7		
DYNA-GRO S42RS03	61.9			50.2	1.1	19.3			36.7		
PFISTER 43R29	61.8	61.8	56.9	50.4	1.1	19.2	19.5	19.8	37.5	36.9	36.3
UNIVERSITY OF MISSOURI S10-11227	61.8			50.8	1.1	19.4	19.6		37.1	36.7	
PROGENY 4560 LL	61.8	61.1		50.2	1.4	20.1			36.5		
ASGROW AG4531	61.7			50.7	1.1	19.0			38.3		
ARMOR AX4410	61.7			50.6	1.1	19.0			38.0		
PROGENY 4440 RY	61.7			49.7	1.1	19.8			37.6		
DYNA-GRO S40RY25	61.5			50.1	1.0	18.5			38.7		
REV® 42A65™	61.4			49.1	1.1	20.0			37.4		
ARMOR AX4440	61.4			51.0	1.3	18.8			37.6		
ARMOR AX4430	61.3			49.5	1.0	20.2			36.8		
REV® 41A05™	61.2			51.6	1.1	19.9			36.8		
STEYER 4501R2	61.0			50.5	1.0	18.8			37.6		
STEYER 4401R2	60.9	61.3	56.9	50.2	1.0	18.9	19.2	19.7	37.3	36.8	36.5
CZ 4181 RY	60.9			49.8	1.3	18.3			38.3		
L&M GLICK 412 R2Y	60.8	64.0	57.8	50.3	1.1	18.9	19.4	19.8	37.6	37.1	36.7
STINE 42RD02	60.6	61.3		50.0	1.0	18.9	19.3		37.6	37.0	
SYNGENTA S40-N2	60.3			49.5	1.1	20.6			36.4		
STEWART 4514R2	60.2	61.3		52.1	1.1	19.0	19.0		38.0	37.8	
ASGROW AG4033	60.0	62.4	56.6	50.3	1.1	18.5	18.7	19.2	39.0	38.2	37.4
WARREN SEED DST 40-001 R2Y	59.9			49.9	1.1	18.7			38.4		
HALO X440	59.7			50.0	1.3	20.1			37.5		
CHANNEL 4508R2/SR	59.7			51.7	1.1	19.1			36.5		
STEYER 4002R2	59.4			49.9	1.0	18.7			38.6		
CHANNEL 4407R2/STS	59.4			50.4	1.1	18.7			38.5		
SYNGENTA S41-J6	58.7	59.3	54.0	49.6	1.1	18.9	19.3	19.7	38.6	37.8	37.3
SOUTHERN STATES SS 4312N R2	57.0	60.7	55.3	50.3	1.1	19.3	19.5	20.0	36.9	36.7	36.1
<b>GROUP IV EARLY AVERAGE</b>	<b>62.9</b>	<b>63.4</b>	<b>57.7</b>	<b>50.4</b>	<b>1.1</b>	<b>19.1</b>	<b>19.3</b>	<b>19.7</b>	<b>37.5</b>	<b>37.0</b>	<b>36.5</b>
LSD (0.10)	5.7	4.3	3.3	1.0		0.4	0.3	0.3	0.5	0.4	0.3
C.V.	6.8	7.1	6.9	3.2		1.4	1.5	2.8	1.0	1.3	1.8
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)<sup>D</sup></b>											
WARREN SEED DS 4633 R2Y	71.1	69.7	62.8	50.1	1.5	18.6	19.1	19.3	36.9	35.5	35.4
GREAT LAKES HYBRIDS GL4729R2	69.2	68.3		50.2	1.3	18.3	19.0		37.4	35.8	
LG SEEDS C4780R2	68.9	66.6	60.5	50.8	1.2	18.3	18.6	18.8	37.3	36.7	36.5
SOUTHERN STATES SS 4725NS R2	68.8	67.6		50.9	1.2	18.4	18.7		37.3	36.3	
WARREN SEED DS 4850 R2Y/STS	68.3	67.3	61.1	50.5	1.2	18.4	18.9	18.9	36.9	35.6	36.1
BECK XL® 465R4™*	68.0			50.1	1.1	18.9			37.7		
DYNA-GRO S48RS53	67.8	66.0	60.9	50.6	1.1	18.5	18.6	18.8	37.4	36.3	36.4
CAVERNDALE CF 472 RR2Y/STSn	67.6			50.5	1.0	18.1			38.0		
ARMOR 47-R13	67.3	69.3	63.0	50.2	1.2	18.2	18.5	18.8	37.4	36.4	36.2
ASGROW AG4934	67.1	66.7		50.5	1.1	18.8	19.1		36.7	36.0	
SOUTHERN STATES SS 4714NS R2	67.1			50.5	1.1	18.5			36.9		

continued

# RECOMMENDED TABLE

Table 5. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT	LODGING	% OIL <sup>A,B</sup>			% PROTEIN <sup>A,B</sup>		
	2014	2013-14	2012-14	2014 <sup>A</sup>	2014	2014	2013-14	2012-14	2014	2013-14	2012-14
HS 47A42	66.6			50.4	1.1	18.4			37.4		
PIONEER P49T97R	66.3	65.2		50.0	1.0	19.0	19.4		37.7	36.2	
ASGROW AG4835	66.1			51.3	1.2	18.5			37.2		
PROGENY 4850 RYS	66.1	65.8	60.1	50.7	1.1	18.3	18.5	18.7	37.5	36.4	36.5
LG SEEDS C4919R2	65.9			49.7	1.2	18.8			36.0		
CAVERNDALE CF 479 LLn	65.9			49.5	1.1	18.8			36.4		
BECK XL® 493R4™*	65.9			50.1	1.2	19.2			37.5		
STEYER 4802R2	65.7	64.0		50.3	1.1	18.5	18.8		37.3	37.1	
ARMOR 46-R65	65.7			50.3	1.3	18.1			38.5		
PIONEER P46T21R	65.7	64.1		50.5	1.0	19.2	19.5		37.0	35.5	
STEYER 4702R2	65.7	65.4	58.9	49.6	1.0	19.0	19.2	19.3	37.3	36.4	36.4
REV 49R94™	65.5	62.8		50.1	1.3	19.1	19.3		37.6	36.3	
PIONEER P47T36R	65.3	66.3		50.2	1.1	19.5	19.5		37.0	35.7	
HALO 4-95	65.2	66.8	61.0	50.0	1.3	19.3	19.4	19.7	37.0	35.8	36.0
HS 49A42	65.1			50.4	1.3	19.0			36.6		
ASGROW AG4831	64.8	67.3	62.0	50.1	1.2	19.0	19.0	19.2	37.1	36.7	36.6
HALO X448	64.7			49.5	1.3	18.9			36.6		
DYNA-GRO S47RY13	64.7	66.6	60.1	49.8	1.1	19.2	19.2	19.4	37.4	35.9	36.1
STEYER 4602R2	64.7			50.0	1.2	18.3			36.3		
PIONEER P48T53R	64.6	65.5		48.7	1.3	19.3	19.4		37.2	36.3	
ASGROW AG4632	64.5	65.7	60.2	49.3	1.3	18.7	19.1	19.3	36.8	35.4	35.4
DYNA-GRO S46RY85	64.4			49.6	1.3	18.4			36.3		
PROGENY 4930 LL	64.3	62.7		50.4	1.1	19.2	19.5		36.9	35.6	
SEED CONSULTANTS SCS 9474RR™	64.3	67.4		50.3	1.1	19.1	19.1		35.5	34.9	
SOUTHERN STATES SS 4700 R2-ST5	64.2	63.3	58.4	49.9	1.1	18.7	19.2	19.4	38.0	36.4	36.3
PFISTER 49R22	64.2			50.3	1.1	18.4			37.4		
BECK XL® 485R2™*	63.9			50.1	1.7	19.5			36.9		
PROGENY 4613 RYS	63.8	65.2		50.1	1.7	18.6	19.1		37.9	36.3	
SYNGENTA S47-K5	63.8			49.4	1.1	19.7			36.1		
MYCOGEN SEEDS 5N478R2	63.8	64.1		50.3	1.5	18.7	19.1		37.3	35.8	
HBK RY4721	63.8	66.6	60.7	50.7	1.3	18.8	19.0	19.1	37.1	36.0	36.1
ARMOR 49-R56	63.7	65.4		49.5	1.1	18.3	18.7		38.3	37.1	
PROGENY 4900 RY	63.7	62.1	57.6	49.4	1.0	18.4	19.0	19.2	37.9	36.5	36.6
LG SEEDS C4696R2	63.5			50.2	1.6	18.4			37.9		
ASGROW AG4933	63.5	68.2	61.4	50.4	1.2	18.5	18.8	19.2	37.7	36.8	36.5
REV® 48R44™	63.5			50.4	1.2	19.3	19.7		36.9	35.5	
HS 48A22	63.5			50.4	1.3	18.7			37.8		
DYNA-GRO S49RY25	63.5			50.2	1.1	18.6			37.2		
PROGENY 4788 RY	63.4			49.4	1.2	18.2			37.8		
REV® 49A14™	63.3			49.9	1.5	19.8			36.2		
HALO 4-94	63.3	60.9	56.8	51.4	1.4	19.2	19.4	19.7	36.0	35.2	35.2
ARMOR X48C	63.3	62.4		50.3	1.6	18.3	18.8		37.9	35.7	
PROGENY 4819 LL	63.3	63.2	57.5	50.3	1.2	19.0	19.3	19.7	37.7	36.1	36.1
SOUTHERN STATES LL 473N	63.2	62.6		50.2	1.3	19.3	19.4		37.4	35.7	
REV® 49A55™	63.2			49.7	1.2	19.3			37.3		
CAVERNDALE CF 486 RR2Y/ST5n	63.1	65.8	60.4	50.1	1.4	18.4	18.9	19.1	38.0	36.6	36.6
DYNA-GRO SX14247R	63.1			49.7	1.1	19.2			36.2		
ARMOR 48-R66	63.0	64.0		49.8	1.3	18.5	18.9		37.7	36.6	
ARMOR AX4490	63.0			50.2	1.2	19.1			36.1		
CZ 4959 RY	63.0			51.7	1.1	18.1			38.5		
PROGENY 4747 RY	63.0	63.2	57.5	50.0	1.1	19.4	19.2	19.2	36.8	36.1	36.3
SOUTHERN STATES SS 4917N R2	62.8	63.2		50.7	1.2	17.9	18.6		38.8	36.8	
REV® 46R64™	62.7	62.1		49.7	1.5	18.8	19.4		37.1	35.4	
SYNGENTA S46-L2	62.6	61.8		49.8	1.2	18.1	19.0		38.0	35.9	
ARMOR AX4471	62.4			50.3	1.1	19.8			35.7		
SYNGENTA S49-F8	62.3	62.8	58.1	50.1	1.1	18.4	19.0	19.1	37.6	36.1	36.3
MYCOGEN SEEDS 5N479R2	62.3	63.5		50.7	1.3	18.4	18.7		37.1	36.0	
ARMOR X447C	62.1			49.8	1.7	19.4	19.5	19.7	37.2	36.4	36.4
CAVERNDALE CF 485 LLn	62.1	63.3	56.4	50.2	1.1	18.7			37.2		
ARMOR X49C	62.0	62.2		50.3	1.8	17.8	18.5		37.7	36.6	
STINE 48RD00	62.0	65.2		49.9	1.1	19.2	19.4		36.2	35.3	
REV® 47R53™	61.9	59.5	57.0	49.7	1.5	20.2	19.9	20.4	38.4	37.0	36.6
REV® 47R34™	61.9	63.4		50.0	1.3	18.9	19.3		37.6	35.8	
ASGROW AG4832	61.8	65.5	59.0	48.2	1.5	18.9			38.3		
CAVERNDALE CF 496 RR2Yn	61.8	66.3		50.9	1.1	18.9	19.1		37.1	36.1	
REV® 49A75™	61.8	63.7		50.4	1.4	19.1	19.4	19.7	36.9	35.4	35.5
BECK 483NL	61.5	63.7		49.5	1.3	19.3	19.7		37.2	35.3	
UNIVERSITY OF TENNESSEE ELLIS	61.5			50.1	1.7	18.3			36.1		
SOUTHERN STATES SS 4913N R2	61.3	61.7		50.5	1.1	18.5	19.0		37.4	35.8	
PFISTER 46R25	61.0			50.4	1.3	19.1			35.9		
HBK RY4620	60.9	67.3	61.0	49.5	1.1	19.1	19.3	19.5	36.1	35.7	35.7
ARMOR X47C	60.9	62.5		51.4	1.1	18.3	18.9		37.6	36.0	
HBK LL4653	60.7			50.0	1.1	18.8			38.1		
REV® 48R22™	60.7	66.3	53.8	50.2	1.3	18.4	18.8	19.1	37.0	36.0	35.7
HBK LL4953	60.6			50.4	1.1	18.9			35.4		

continued

# RECOMMENDED TABLE

Table 5. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT	LODGING	% OIL <sup>A,B</sup>			% PROTEIN <sup>A,B</sup>		
	2014	2013-14	2012-14	2014 <sup>A</sup>	2014	2014	2013-14	2012-14	2014	2013-14	2012-14
HBK LL4650	60.2			48.4	1.5	19.1			37.2		
SEED CONSULTANTS SCS 9494RR™	60.1	65.4		50.3	1.3	19.4	19.5		38.2	36.9	
STINE 46LD02	59.9			49.6	1.0	18.7			37.7		
HALO 4:76	59.8			49.8	1.2	19.0			37.0		
ARMOR AX4480	59.4			50.0	1.1	19.4			36.6		
R05-3239	59.3			52.0	1.7	18.4			37.0		
HBK LL4850	59.2	63.1		50.2	1.2	19.8	19.8		36.6	35.8	
SYNGENTA S48-P4	59.2			50.1	1.4	19.4			37.2		
HALO 4:97	59.1	59.5		51.4	1.9	19.0	19.0		37.5	36.8	
PROGENY 4928 LL	58.8	59.5	54.9	<b>52.3</b>	1.6	19.1	19.2	19.4	36.2	35.3	35.4
HBK LL4950	58.7	59.8		50.8	1.4	18.8	19.1		35.8	34.8	
UNIVERSITY OF ARKANSAS R09-4571	57.8			49.5	1.3	18.4			37.8		
PROGENY 4620 LLS	57.8			51.7	1.7	19.4			36.7		
UNIVERSITY OF ARKANSAS R08-2797	56.9			50.2	1.1	19.1			36.4		
CAVERNDALE CF 469 LL/STSn	55.6	58.4		<b>52.3</b>	1.8	19.3	19.5		36.9	35.5	
HALO X449	54.6			52.0	1.9	18.8			37.0		
ARMOR 49-C3	52.8	57.3		51.2	4.0	18.4	18.8		37.0	35.7	
PENNYRILE (long term check-released 1987)	51.0	53.4	48.3	49.5	1.2	18.7	18.8	19.2	<b>39.3</b>	<b>37.7</b>	<b>37.4</b>
<b>GROUP IV LATE AVERAGE</b>	<b>63.0</b>	<b>64.1</b>	<b>58.9</b>	<b>50.2</b>	<b>1.3</b>	<b>18.8</b>	<b>19.1</b>	<b>19.3</b>	<b>37.2</b>	<b>36.1</b>	<b>36.2</b>
LSD (0.10)	5.5	3.9	3.2	0.7		0.3	0.2	0.3	0.4	0.3	0.2
C.V.	6.5	6.4	6.7	2.5		1.3	4.0	3.2	0.8	2.2	1.5
<b>MATURITY GROUP V (relative MG 5.0-5.9)<sup>D</sup></b>											
HALO X451	<b>64.3</b>			50.9	1.2	18.2			36.7		
ARMOR AX4500	61.8			50.4	1.5	18.2			37.9		
BECK 522L4	61.2	62.5		50.6	1.1	18.4	19.0		36.3	35.2	
STEYER 5101R2	60.1	62.1		50.8	1.3	18.5	18.9		37.6	36.7	
PIONEER P50T64R	59.7			50.2	1.0	18.3			39.2		
CZ 5150 LL	59.5			50.5	1.1	18.3			36.4		
ARMOR 50-R44	58.7	<b>62.7</b>		50.9	1.2	18.7	19.2		36.7	35.9	
DYNA-GRO S51RY45	58.6			50.9	1.1	18.4			36.9		
HALO 5:01-5	58.3	60.7	<b>56.4</b>	51.4	1.4	18.1	18.8	19.0	37.0	35.5	35.5
HALO X452	57.6			51.6	1.6	18.2			37.8		
STEYER 5301R2	56.6			50.3	1.2	18.5			37.9		
HALO 5:25	56.5			51.2	1.9	19.1			37.7		
REV <sup>®</sup> 51R53™	56.3	59.2	53.9	51.3	1.0	<b>19.2</b>	<b>19.5</b>	<b>19.8</b>	38.3	37.7	37.4
HALO 5:45	56.0	57.6	53.4	51.7	1.6	17.8	18.1	18.3	38.2	37.6	37.1
REV <sup>®</sup> 53R23™	55.2	56.8	50.5	49.9	1.5	18.4	18.5	18.6	37.9	37.6	37.5
HALO 5:26	55.1	56.4	53.9	50.4	2.5	18.3	18.9	18.9	39.3	37.6	37.7
MYCOGEN SEEDS 5N540R2	55.0	56.4		51.0	2.7	17.2	17.5		39.2	38.6	
REV <sup>®</sup> 52R74™	54.9	57.8	53.4	50.1	1.3	17.9	18.5	18.8	38.9	37.6	37.5
UNIVERSITY OF ARKANSAS OSAGE	54.9	56.7	53.5	51.1	2.1	17.3	17.9	18.1	39.7	<b>38.9</b>	<b>38.5</b>
REV <sup>®</sup> 55R53™	54.2	55.8	52.5	50.5	3.0	18.0	18.3	18.5	38.1	37.6	37.3
REV <sup>®</sup> 52A94™	54.1			50.8	3.5	17.8			37.5		
UNIVERSITY OF ARKANSAS UA5612	54.1	58.9	54.6	52.1	4.1	17.9	18.2	18.3	38.1	37.4	37.2
MYCOGEN SEEDS X54522NR2	53.9			50.9	3.2	17.8			37.5		
ESSEX (long term check-released 1974)	53.7	55.3	51.0	51.0	2.0	18.1	18.6	18.5	<b>39.8</b>	38.2	38.1
ARMOR AX4520	53.6			50.8	3.2	17.9			37.2		
UNIVERSITY OF ARKANSAS R05-374	53.3			50.4	3.3	17.9			36.2		
UNIVERSITY OF ARKANSAS R10-130RY	53.3			51.1	3.2	17.9			38.2		
EXP USDA-ARS JTN-5110	53.2	54.4	51.4	52.0	3.7	18.4	18.9	19.0	38.1	37.2	37.1
REV <sup>®</sup> 54R84™	53.1	56.0	52.3	<b>52.9</b>	4.5	18.7	18.9	19.0	37.4	36.7	36.5
UNIVERSITY OF ARKANSAS OZARK	52.7	56.5	53.2	52.2	3.1	17.9	18.3	18.3	37.9	37.1	36.9
UNIVERSITY OF ARKANSAS UA5213C	52.5	57.5		51.8	4.2	17.7	17.9		39.0	38.2	
BECK 505L4	52.4			52.9	2.0	18.2			38.0		
UNIVERSITY OF ARKANSAS R04-1250RR	51.6	56.0		51.3	2.9	17.3	17.8		39.3	38.3	
UNIVERSITY OF ARKANSAS R04-1268RR	51.6	52.8		51.6	3.6	17.9	17.9		37.3	37.0	
PFISTER 52R26	49.7			51.3	2.3	17.5			38.9		
REV <sup>®</sup> 56A54™	48.4			51.0	3.7	16.5			37.4		
<b>GROUP V AVERAGE</b>	<b>55.4</b>	<b>57.6</b>	<b>53.1</b>	<b>51.1</b>	<b>2.3</b>	<b>18.1</b>	<b>18.5</b>	<b>18.7</b>	<b>37.9</b>	<b>37.3</b>	<b>37.3</b>
LSD (0.10)	5.0	3.5	2.8	0.6		0.3	0.2	0.2	0.4	0.3	0.2
C.V.	6.6	6.4	6.7	1.8		1.2	1.2	1.3	0.8	0.9	0.8

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

B Variety protein and oil contents were determined at the Calloway Co., Daviess Co., and Fayette Co. locations in 2012; at the Calloway Co., Fayette Co., and Hardin Co. locations in 2013, and at the Caldwell Co., Fayette Co., and Simpson Co. locations in 2014.

C 2013 yield data collected at the Caldwell Co., Calloway Co., Fayette Co., Hardin Co., and Simpson Co. locations; 2012 yield data collected at the Caldwell Co., Calloway Co., Daviess Co., Fayette Co., and Simpson Co. locations.

D 2014 yield data collected at the Caldwell Co., Daviess Co., Fayette Co., Hardin Co., and Simpson Co. locations; 2012 yield data collected at the Caldwell Co., Calloway Co., Daviess Co., Fayette Co., and Simpson Co. locations.



Table 6. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14	2012-14		
HS 48A22	70.8			48.1	1.3
DYNA-GRO S46RY85	70.8			47.6	1.3
DYNA-GRO S48R553	70.8	69.5	63.8	48.1	1.7
ASGROW AG4934	70.8	75.3		48.0	1.3
SOUTHERN STATES LL 473N	70.6	66.4		47.0	1.0
DYNA-GRO SX14247R	70.6			47.4	1.0
ASGROW AG4632	70.5	72.1	64.6	47.3	1.3
ASGROW AG4831	70.3	67.2	60.2	47.8	1.7
MYCOGEN SEEDS 5N478R2	70.3	71.2		47.4	1.3
PROGENY 4613 RYS	70.2	70.9		47.9	2.7
SEED CONSULTANTS SCS 9474RR™	70.2	75.5		47.8	1.3
SOUTHERN STATES SS 4725NS R2	70.0	73.8		48.9	1.3
ARMOR 46-R65	69.7			47.3	1.3
REV® 49A55™	69.7			46.1	1.0
STEYER 4802R2	69.6	73.8		48.1	1.0
ARMOR AX4490	69.5			47.9	1.3
BECK XL® 485R2™	69.5			47.6	1.3
PROGENY 4788 RY	69.5			46.8	1.3
ARMOR 48-R66	69.3	73.2		47.7	1.0
HALO X448	69.2			47.5	1.7
BECK XL® 465R4™	69.1			48.3	1.0
REV® 46R64™	69.1	70.0		46.4	1.3
SOUTHERN STATES SS 4714NS R2	69.0			47.8	1.0
STEYER 4602R2	68.9			48.0	1.7
BECK 483NL	68.8	76.2		47.1	1.3
SOUTHERN STATES SS 4913N R2	68.8	71.5		47.0	1.0
PROGENY 4850 RYS	68.7	69.9	65.3	47.1	1.7
REV® 49A75™	68.7			46.0	2.0
BECK XL® 493R4™	68.6			47.0	1.3
PROGENY 4747 RY	68.5	69.0	59.3	47.8	1.0
REV® 48R22™	68.5	71.0	57.2	47.1	1.3
UNIVERSITY OF TENNESSEE ELLIS	68.4			48.3	3.0
SOUTHERN STATES SS 4917N R2	68.3	73.0		48.3	2.0
CAVERNDAL CF 496 RR2Yn	67.8	69.6		48.3	1.3
SYNGENTA S46-L2	67.8	69.8		47.1	1.3
ARMOR X48C	67.5	62.0		47.5	2.7
DYNA-GRO S47RY13	67.3	75.0	66.6	47.3	1.0
STINE 46LD02	67.3			46.3	1.0
STEYER 4702R2	67.2	66.4	57.9	46.5	1.0
ARMOR AX4471	67.2			46.9	1.0
HALO 4:95	67.0	74.5	64.3	47.6	1.0
HS 49A42	66.8			47.9	1.3
CAVERNDAL CF 486 RR2Y/STS <sub>n</sub>	66.8	71.8	61.9	47.2	1.3
ASGROW AG4832	66.7	68.1	58.6	47.3	2.0
PROGENY 4620 LLS	65.9			50.0	1.7
PROGENY 4928 LL	65.9	67.7	60.7	50.0	1.7
HBK LL4850	65.9	74.6		47.6	1.0
CAVERNDAL CF 485 LL <sub>n</sub>	65.6	65.8	58.8	47.0	1.0
HALO 4:94	65.3	71.6	65.4	49.6	2.0
R05-3239	65.0			48.1	1.3
HBK LL4653	65.0			47.9	1.0
HBK LL4650	64.9			46.8	2.0
ARMOR 49-R56	64.9	70.2		46.1	1.3
HBK RY4721	64.3	73.9	64.7	47.6	1.3
REV® 47R34™	64.3	68.0		46.6	1.7
ARMOR X47C	64.2	64.9		48.6	1.0
HBK LL4953	63.9			47.9	1.3
ASGROW AG4933	63.8	70.4	59.7	46.9	1.3
HALO 4:97	63.2	68.3		49.6	2.3
UNIVERSITY OF ARKANSAS R09-4571	63.2			46.1	2.0
STINE 48RD00	62.8	67.4		47.0	1.0
DYNA-GRO S49RY25	62.7			46.7	1.0
ARMOR X49C	62.7	63.5		46.6	2.3
SEED CONSULTANTS SCS 9494RR™	62.6	74.4		47.6	2.0
CAVERNDAL CF 469 LL/STS <sub>n</sub>	62.5	65.4		49.8	1.7
SYNGENTA S47-K5	62.3			45.9	1.0
PFISTER 46R25	61.1			48.4	1.3
ARMOR AX4480	60.6			46.2	1.3
HBK LL4950	60.4	62.5		47.2	1.7
UNIVERSITY OF ARKANSAS R08-2797	60.1			47.7	1.0
SYNGENTA S48-P4	60.0			47.7	1.0
HBK RY4620	59.8	70.4	62.5	47.1	1.0
PROGENY 4900 RY	59.3	62.4	56.8	46.7	1.0
HALO 4:76	57.4			47.1	1.7
HALO X449	57.2			49.9	3.0
PENNYRILE (long term check-released 1987)	52.5	55.1	50.8	47.1	1.3
ARMOR 49-C3	49.4	53.8		48.6	3.0
<b>AVERAGE GROUP LATE IV</b>	<b>67.9</b>	<b>70.2</b>	<b>62.2</b>	<b>47.6</b>	<b>1.4</b>
LSD (0.10)	6.0	4.3	3.4	1.0	
C.V.	6.6	6.5	6.6	1.6	

continued

Table 6. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14	2012-14		
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>					
HALO X451	<b>69.5</b>			48.1	2.0
BECK 522L4	67.8	70.4		48.2	1.7
ARMOR 50-R44	66.9	<b>73.6</b>		48.7	2.0
STEYER S101R2	65.4	70.5		48.2	1.7
REV® 51R53™	64.8	66.5	56.4	48.0	1.0
PIONEER P50T64R	64.3			46.4	1.0
HALO 5:25	63.5			48.4	2.0
UNIVERSITY OF ARKANSAS OSAGE	63.3	60.2	55.6	48.2	3.3
MYCOGEN SEEDS 5N540R2	63.3	66.6		49.1	4.0
ARMOR AX4500	63.0			47.5	1.3
ESSEX (long term check-released 1974)	61.5	68.1	59.1	48.3	2.7
HALO 5:01-5	60.7	71.4	<b>61.2</b>	48.3	2.0
REV® 53R23™	59.6	60.9	49.1	46.0	2.3
UNIVERSITY OF ARKANSAS OZARK	59.4	64.9	<b>58.0</b>	49.3	4.0
UNIVERSITY OF ARKANSAS R10-130RY	59.3			48.4	4.0
REV® 52A94™	58.9			48.3	5.0
HALO X452	58.1			48.2	2.3
REV® 52R74™	57.7	62.5	57.2	47.4	1.7
UNIVERSITY OF ARKANSAS UA5612	57.5	64.5	56.7	<b>49.8</b>	5.0
MYCOGEN SEEDS X5452NR2	57.0			48.1	4.0
STEYER S301R2	56.4			47.3	2.0
UNIVERSITY OF ARKANSAS R04-1250RR	56.3	63.9		48.5	3.0
HALO 5:45	56.3	63.9	<b>58.7</b>	48.4	2.7
DYNA-GRO S51RY45	54.9			49.1	1.3
UNIVERSITY OF ARKANSAS R05-374	54.8			48.6	4.3
CZ 5150 LL	54.6			47.8	1.0
UNIVERSITY OF ARKANSAS R04-1268RR	54.6	54.0		48.6	4.7
HALO 5:26	54.2	63.6	55.4	48.1	3.3
REV® 55R53™	53.7	61.3	<b>58.1</b>	47.6	4.0
REV® 54R84™	53.6	58.2	53.3	49.9	4.7
UNIVERSITY OF ARKANSAS UA5213C	53.1	59.9		49.3	4.7
BECK 505L4	53.0			<b>51.0</b>	2.3
EXP USDA-ARS JTN-5110	51.3	55.6	48.9	47.7	4.7
ARMOR AX4520	50.2			48.0	4.7
PFISTER 52R26	47.3			49.3	3.0
REV® 56A54™	44.8			49.6	3.7
<b>GROUP V AVERAGE</b>	<b>58.1</b>	<b>64.0</b>	<b>56.0</b>	<b>48.4</b>	<b>3.0</b>
LSD (0.10)	5.8	4.4	3.4	1.2	
C.V.	7.4	7.3	7.6	1.9	

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

### AGRONOMIC INFORMATION

Location	Caldwell County
Soil type	Crider silt loam 0 to 6% slopes
Previous crop	Tobacco (winter crop: rye)
Soil test	pH: 6.9 P: 91 K: 426
Fertilizer/lime applied	None
Agricultural practice	No-till
Pre-planting treatments	Mid-April: Spartan 5.3 oz/acre, Duel 2 Magnum 1.33 pts/acre, Verdict 5 oz/acre
Planting dates	05/21: MG II, III, IV Early 05/22: MG IV Late, V
Post-planting treatments	06/23: First Rate 0.3 oz/acre, Select Max 16 oz/acre, Reflex 24 oz/acre
Harvest dates	MG II, III: 10/17
50% chance of killing frost	10/21

### Precipitation and Temperature History.

	Total Monthly Precipitation (in.)	Temperature (F°)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	4.42	42.2	75.5	9.0
April	8.50	57.8	78.7	29.3
May	1.97	67.9	86.7	39.9
June	4.04	75.1	88.9	51.1
July	1.57	72.1	92.2	50.8
August	9.32	77.0	92.1	54.2
September	0.97	68.3	89.7	43.2
October	4.38	58.7	87.5	33.4
November (11/01-21)	0.98	38.6	68.0	11.1

**Table 7. 2014 Kentucky Soybean Variety Performance Tests, Calloway County.A**

BRAND VARIETY	SEED YIELD (BU/AC) <sup>B</sup>			TEST WEIGHT 2014A	LODGING 2014
	2014	2013-14	2012-14		
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>					
PIONEER P28T33R	37.9		N/A	49.9	1.0
STEYER 2702R2	34.8			51.2	1.0
SYNGENTA S28-A2	34.7			50.5	1.0
PIONEER 92Y83	34.1			50.2	1.0
SYNGENTA S27-J7	33.2			51.4	1.0
CAVERNDAL CF 286 RR2Y/STS <sub>n</sub>	31.6	52.1		50.6	1.0
SYNGENTA S29-G4	31.4			51.6	1.0
LG SEEDS C2835R2	30.8			51.7	1.0
STEYER 2805R2	30.2			<b>52.2</b>	1.0
<b>GROUP II AVERAGE</b>	<b>33.2</b>			<b>51.0</b>	1.0
<b>LSD (0.10)</b>	2.4			1.3	
<b>C.V.</b>	5.0			1.9	
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>					
PIONEER 93Y92	51.0	53.7	49.0	48.5	1.0
SEED CONSULTANTS SCS 9393RR™	49.9	59.8		50.0	1.0
ARMOR AX4390	49.8			49.9	1.0
PFISTER 39R29	49.4			50.3	1.0
SEED CONSULTANTS SCS 9385RR™	49.1			49.5	1.0
ARMOR AX4310	48.0			47.6	1.0
REV® 39A35™	47.8			49.0	1.0
STINE 38RE02	47.1			51.5	1.0
SYNGENTA S39-T3	47.0			50.1	1.0
SOUTHERN STATES SS 3914NS R2	46.5			50.7	1.0
STINE 37RC82	46.1			51.9	1.0
GREAT LAKES HYBRIDS GL3729R2	45.9			<b>52.7</b>	1.0
LG SEEDS C3989R2	45.4	60.0	52.4	49.3	1.0
SEED CONSULTANTS SCS 9392RR™	44.3	53.0	46.3	48.8	1.0
PIONEER 93Y84	43.9	57.6	51.3	47.7	1.0
ARMOR 39-R16	43.7	<b>60.1</b>	52.0	49.7	1.0
LG SEEDS C4010R2	43.6			49.1	1.0
SOUTHERN STATES SS 3813N R2	43.6	<b>60.1</b>		50.1	1.0
CZ 3841 LL	43.4			50.5	1.0
CAVERNDAL CF 380 RR2Y <sub>n</sub>	43.4	58.0		49.8	1.0
CHANNEL 3707R2/STS	43.3			49.3	1.0
L&M GLICK 399 RY2	42.7			51.1	1.0
GREAT LAKES HYBRIDS GL3929R2	42.4			49.7	1.0
ASGROW AG3832	41.8	58.5	48.2	50.6	1.0
ASGROW AG3735	41.7			50.1	1.0
DYNA-GRO 32RY39	41.6			48.4	1.0
ARMOR AX4391	41.4			50.8	1.0
STEYER 3403R2	41.3			50.8	1.0
WARREN SEED DS 3838 R2Y	41.1			50.1	1.0
DYNA-GRO S39RY65	40.1			46.9	1.0
UNISOUTH GENETICS USG 73P93R	39.8	53.0		48.9	1.0
SEED CONSULTANTS SCS 9363RR™	39.3	54.3		49.3	1.0
MYCOGEN SEEDS 5N393R2	38.8	55.3		50.0	1.0
PFISTER 33R28	38.4			51.0	1.0
ASGROW AG3934	38.2	48.5		50.6	1.0
PIONEER P35T58R	38.1	55.0		47.3	1.0
PFISTER 35R25	36.1			48.5	1.0
STEYER 3103R2	35.3			50.9	1.0
PIONEER 93Y05	34.2			49.5	1.0
<b>GROUP III AVERAGE</b>	<b>43.2</b>	<b>56.2</b>	<b>49.9</b>	<b>49.8</b>	<b>1.0</b>
<b>LSD (0.10)</b>	4.5	4.4	3.1	2.7	
<b>C.V.</b>	7.6	9.1	8.1	4.0	

A Data for the maturity groups IV Early, Late, and V are not provided to avoid penalizing any variety (plots were damaged by a storm soon after planting).

B 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	Calloway County
Soil type	Grenada silt loam, 0 to 2% slopes
Previous crop	Tobacco (with crop does not survive rigorous winter)
Soil test	pH: 6.19 P: 7.09 K: 85
Fertilizer/lime applied	05/20: Lime, 5 tons/acre (70% RNV)
Agricultural practice	Till (tilled several time to level the surface)
Pre-planting treatments	05/21: Spartan Charge 8 oz/acre, Zidua 2.5 oz/acre
Post-planting treatments	None
Planting dates	05/22: MG II, III, IV Early 05/23: MG IV Late, V
Harvest dates	MG II: 09/26, MG III: 10/04, MG IV (Early and Late) and V: 11/08
50% chance of killing frost	10/30

**Precipitation and Temperature History.**

	Total Monthly Precipitation (in.)	Temperature (F°)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	5.54	43.6	74.5	11.4
April	8.25	58.5	80.2	31.8
May	7.80	68.5	86.2	42.5
June	7.20	75.4	89.1	53.5
July	0.90	72.6	91.3	53.6
August	2.84	78.3	95.9	54.6
September	2.26	69.5	90.6	46.1
October	6.52	59.7	86.9	35.7
November (11/01-08)	0.58	43.0	68.4	25.4



**Table 8. 2014 Kentucky Soybean Variety Performance Tests, Daviess County.**

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LOGGING 2014	SUDDEN DEATH SYNDROME INDEX <sup>C</sup>	FROGEYE LEAF INCIDENCE	SPOT <sup>D</sup> RATING	SOYBEAN DEVELOPMENT STAGE AT RATING
	2014	2013-14	2012-14						
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>									
STEYER 2702R2	64.3	N/A <sup>B</sup>	N/A <sup>B</sup>	47.9	1.0	N/A <sup>E</sup>	N/A <sup>E</sup>	N/A <sup>E</sup>	N/A <sup>E</sup>
LG SEEDS C2835R2	64.3			48.6	1.0				
STEYER 2805R2	63.2			47.6	1.0				
CAVERNDALE CF 286 RR2Y/STS <sup>n</sup>	63.1			46.9	1.0				
PIONEER P28T33R	61.7			47.2	1.0				
SYNGENTA S29-G4	61.4			46.9	1.0				
SYNGENTA S28-A2	59.2			46.1	1.0				
SYNGENTA S27-J7	55.7			46.1	1.0				
PIONEER 92Y83	53.2			45.9	1.0				
<b>GROUP II AVERAGE</b>	<b>60.7</b>			<b>47.0</b>	<b>1.0</b>				
<b>LSD (0.10)</b>	3.9			1.8					
<b>C.V.</b>	4.5			2.7					
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>									
UNISOUTH GENETICS USG 73P93R	80.9	N/A <sup>B</sup>	N/A <sup>B</sup>	51.3	1.0	5.6			R6
CHANNEL 3707R2/STS	76.5			51.7	1.0	0.7			R6
REV <sup>®</sup> 39A35	76.5			51.0	1.3				R6
SEED CONSULTANTS SCS 9392RR <sup>™</sup>	75.7			51.8	1.7				R6
SYNGENTA S39-T3	75.4			51.7	1.7	0.7			R6
SEED CONSULTANTS SCS 9393RR <sup>™</sup>	74.8			51.8	1.0				R6
PIONEER 93Y84	74.3			50.2	1.0		100.0	2.0	R6
LG SEEDS C3989R2	74.2			51.1	1.0				R6
SEED CONSULTANTS SCS 9363RR <sup>™</sup>	73.0			51.6	1.0		100.0	2.0	R6
GREAT LAKES HYBRIDS GL3729R2	72.8			51.1	1.3				R6
CAVERNDALE CF 380 RR2Y <sup>n</sup>	72.6			50.8	1.3	1.1	100.0	2.0	R6
PIONEER 93Y92	72.6			50.6	2.0	1.5			R6
LG SEEDS C4010R2	72.5			50.5	1.0		10.0	2.0	R6
SOUTHERN STATES SS 3813N R2	72.4			51.7	1.0		10.0	2.0	R6
ASGROW AG3934	72.0			50.1	1.0				R6
ARMOR 39-R16	71.8			50.1	1.0	0.7			R6
DYNA-GRO 32RY39	71.6			50.6	1.0				R6
STINE 37RC82	71.0			51.1	1.0	0.7	100.0	2.0	R6
ASGROW AG3832	71.0			50.8	1.0		30.0	2.0	R6
MYCOGEN SEEDS 5N393R2	70.9			50.7	1.0	0.7	10.0	2.0	R6
PFISTER 39R29	70.9			51.1	1.3				R6
DYNA-GRO S39RY65	70.8			51.0	1.0	2.0			R6
WARREN SEED DS 3838 R2Y	70.8			50.7	1.0	4.8			R6
PIONEER 93Y05	70.7			49.2	1.0				R7
STINE 38RE02	70.2			51.2	1.0	0.7			R6
ARMOR AX4390	69.9			51.6	1.0				R6
STEYER 3103R2	69.1			50.5	1.0				R7
SOUTHERN STATES SS 3914NS R2	68.9			51.7	1.0	0.7			R6
ASGROW AG3735	68.4			51.0	1.0				R6
SEED CONSULTANTS SCS 9385RR <sup>™</sup>	68.4			51.0	1.0		10.0	2.0	R6
ARMOR AX4391	68.1			51.7	1.0	0.7			R6
STEYER 3403R2	67.8			50.5	1.0				R6
CZ 3841 LL	67.4			51.0	1.0	2.2			R6
ARMOR AX4310	67.3			51.3	1.3				R6
PIONEER P35T58R	67.1			50.8	1.0		10.0	2.0	R6
PFISTER 35R25	66.7			51.3	1.0	5.2			R6
L&M GLICK 399 RY2	66.1			51.0	1.0				R6
GREAT LAKES HYBRIDS GL3929R2	65.4			50.7	1.0	1.5			R6
PFISTER 33R28	64.5			50.2	1.0				R6
<b>GROUP III AVERAGE</b>	<b>71.1</b>			<b>51.0</b>	<b>1.1</b>				
<b>LSD (0.10)</b>	5.4			1.1					
<b>C.V.</b>	5.5			1.5					
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>									
DYNA-GRO S40RY25	74.0			49.9	1.0		100.0	2.0	R6
STEWART 4113R2	73.3	63.2	61.8	51.3	1.7		83.3	2.0	R6
SYNGENTA S43-K1	73.2	59.8		49.3	2.0	7.8	100.0	2.0	R6
STINE 43RE02	72.9			50.3	1.3	2.2	100.0	2.0	R6
LG SEEDS C4322R2	72.6			49.8	1.0	1.5			R6
UNIVERSITY OF MISSOURI S10-11227	72.0			51.5	1.0		90.0	2.0	R6
ARMOR AX4440	71.8			50.7	1.7	8.9	100.0	3.0	R6
UNISOUTH GENETICS USG 74F53R	71.7			49.7	2.3				R6
SYNGENTA S45-V8	71.1	64.5		48.5	1.3		100.0	2.0	R6
SOUTHERN STATES SS 4514N R2	70.8			51.3	1.7		100.0	2.0	R6
ARMOR 43-R43	70.6	64.4		50.2	1.0	7.4	100.0	2.0	R6
WARREN SEED DST 40-001 R2Y	70.1			49.9	1.0	1.5			R6
ARMOR 44-R08	70.1	66.0	62.3	50.4	1.3		75.0	2.0	R6
ASGROW AG4433	69.5	69.2	64.8	50.6	1.3		100.0	2.0	R6
SOUTHERN STATES SS 4114N R2	69.5			49.1	1.3	1.1	100.0	2.0	R6
REV <sup>®</sup> 42A65 <sup>™</sup>	69.5			49.6	1.7		100.0	2.0	R6
PFISTER 43R29	69.1	65.3	60.6	51.1	1.3		10.0	2.0	R6
STEWART 4514R2	68.6	62.5		50.7	1.7		100.0	2.0	R6
SOUTHERN STATES LL 423N	68.2	60.9		49.2	2.3	2.2	100.0	2.0	R6
PROGENY 4510 RYS	68.1	66.8	63.5	49.4	1.0		100.0	2.3	R6
CZ 4181 RY	67.7			49.2	1.7		90.0	2.0	R6
ASGROW AG4034	66.9			51.3	1.0		100.0	2.0	R6

continued

Table 8. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	SUDDEN DEATH SYNDROME INDEX <sup>C</sup>	FROGEYE LEAF SPOT <sup>D</sup> INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE AT RATING
	2014	2013-14	2012-14						
STEYER 4303R2	66.9			50.1	2.0		60.0	2.0	R6
DYNA-GRO 39RY43	66.8	60.1	59.0	49.3	1.3		40.0	2.0	R6
SEED CONSULTANTS SCS 9434RR™	66.7	64.5		49.1	1.0	0.4	100.0	2.0	R6
STEYER 4501R2	66.6			48.8	1.0				R6
PROGENY 4211 RY	66.4	61.9	60.7	50.6	1.0				R6
WARREN SEED DS 4330 R2Y	66.4	65.2		50.5	1.0		100.0	2.0	R6
BECK 423NL	66.3	69.0		50.3	2.0		100.0	2.0	R6
STINE 42RD02	66.3	60.8		50.3	1.0	3.7	10.0	2.0	R6
REV® 44A15™	66.0			50.0	1.0		100.0	2.0	R6
STINE 42LD02	65.9			48.8	2.0		80.0	2.0	R6
CHANNEL 4508R2/SR	65.7			50.0	1.3	0.7			R6
HALO 4:40	65.7	60.0		47.4	1.3	0.7			R6
MYCOGEN SEEDS 5N423R2	65.3	65.8		49.7	1.3		100.0	2.0	R6
CAVERNDALE CF 426 RR2Y/STS <sub>n</sub>	65.1			49.9	2.0	0.4			R6
ARMOR AX4450	64.9			50.0	2.0	2.2	100.0	2.0	R6
SEED CONSULTANTS SCS 9443RR™	64.9	62.3		48.2	1.3	0.7			R6
STEWART 4412R2	64.7	68.8	63.2	50.7	1.0		100.0	2.0	R6
CAVERNDALE CF 425 LL <sub>n</sub>	64.6	59.6		50.7	2.0				R6
ARMOR AX4410	64.5			48.0	1.7	3.3	100.0	2.0	R6
PROGENY 4440 RY	64.4			50.9	1.3		100.0	2.0	R6
PROGENY 4560 LL	64.2	60.0		50.0	3.0	3.3			R6
CHANNEL 4407R2/STS	63.9			51.1	1.3		100.0	2.0	R6
MYCOGEN SEEDS 5N451R2	63.9	65.5		48.7	1.3	0.4	100.0	2.0	R6
SEED CONSULTANTS SCS 9435R2™	63.8			51.1	1.3	2.6			R6
ARMOR AX4430	63.1			48.6	1.0		100.0	2.0	R6
DYNA-GRO S43RY95	63.1			48.5	1.0	2.2			R6
WARREN SEED DS 4340 R2Y	63.0	57.8	56.9	49.1	1.0		30.0	2.0	R6
ASGROW AG4534	63.0	53.9		49.7	1.7		100.0	2.0	R6
GREAT LAKES HYBRIDS GL4209R2	62.9	57.1		50.3	1.0	4.4	55.0	2.0	R6
REV® 41A05™	62.9			49.2	1.7		100.0	2.0	R6
HALO X440	62.7			48.5	2.3	3.7			R6
ASGROW AG4232	62.6	60.7	59.9	49.8	2.0		50.0	2.0	R6
UNISOUTH GENETICS USG 74F24RS	62.6			49.7	1.7	8.5	100.0	2.0	R6
MYCOGEN SEEDS 5N431R2	62.5	61.7		48.6	1.0		100.0	2.0	R6
CHANNEL 4107R2	62.4			49.2	2.0		100.0	2.0	R6
L&M GLICK 412 R2Y	62.3	60.1	60.6	50.0	1.0				R6
ASGROW AG4533	62.2			51.1	2.0	0.4	20.0	2.0	R6
ASGROW AG4135	61.2			50.0	2.3	5.4			R6
STEYER 4002R2	60.8			50.3	1.0	0.4			R6
SYNGENTA S40-N2	60.8			49.4	1.0	6.1			R6
PIONEER P45T11	60.6			51.0	1.0		100.0	2.0	R6
UNISOUTH GENETICS USG 74A33R	60.6	57.6		50.5	1.0		76.7	2.0	R6
ASGROW AG4033	60.6	64.8	61.9	49.5	1.3	1.1			R6
DYNA-GRO S42RS03	60.3			49.6	1.0	0.4	20.0	2.0	R6
STEYER 4401R2	60.2	56.4	56.4	50.4	1.0		100.0	2.0	R6
CAVERNDALE CF 456 RR2Y/STS <sub>n</sub>	60.2	60.7		49.1	1.0	1.5			R6
ASGROW AG4531	59.9			49.9	1.7		100.0	2.0	R6
SYNGENTA S41-J6	58.9	54.4	54.7	47.7	1.3	1.9	100.0	2.0	R6
PIONEER 94Y23	58.1	57.4	58.7	50.3	1.0		7.5	2.5	R6
SOUTHERN STATES SS 4312N R2	46.1	52.5	53.6	49.4	1.3		100.0	3.0	R6
<b>GROUP IV EARLY AVERAGE</b>	<b>65.3</b>	<b>61.7</b>	<b>59.9</b>	<b>49.8</b>	<b>1.4</b>				
<b>LSD (0.10)</b>	8.3	4.8	3.5	1.8					
<b>C.V.</b>	9.4	7.9	7.3	2.7					
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>									
WARREN SEED DS 4633 R2Y	78.7	67.9	63.9	49.2	2.0	1.7			R6
DYNA-GRO S47RY13	77.9	71.6	65.3	50.1	1.3	4.4			R6
DYNA-GRO S48RS53	77.3	66.1	63.9	50.5	1.0				R6
PROGENY 4850 RYS	76.9	67.0	62.2	50.6	1.0	0.1	100.0	2.0	R6
HBK RY4721	76.7	69.7	63.7	50.4	1.3		75.0	2.5	R6
ASGROW AG4934	76.4	67.7		50.3	1.0	0.2	75.0	2.0	R6
CAVERNDALE CF 472 RR2Y/STS <sub>n</sub>	75.5			50.1	1.0				R6
BECK XL 465R4	75.1			50.8	1.3	8.6			R6
WARREN SEED DS 4850 R2Y/STS	75.1	69.5	63.0	51.2	1.0	4.8			R6
GREAT LAKES HYBRIDS GL4729R2	74.3	74.2		50.4	1.3		100.0	2.0	R6
SYNGENTA S47-K5	73.4			49.1	1.7	7.4			R6
DYNA-GRO S46RY85	72.7			48.5	1.3		100.0	2.0	R6
MYCOGEN SEEDS 5N479R2	72.6	68.7		50.5	1.0		80.0	2.0	R6
ARMOR 47-R13	72.4	71.8	66.9	51.4	1.0	3.7	100.0	2.0	R6
CAVERNDALE CF 486 RR2Y/STS <sub>n</sub>	72.2	70.2	66.1	50.4	2.0		100.0	2.0	R6
PROGENY 4900 RY	72.2	66.9	62.5	49.5	1.0		10.0	2.0	R6
LG SEEDS C4780R2	71.6	67.2	60.9	49.9	1.3	1.1	100.0	2.0	R6
ASGROW AG4835	71.5			51.0	1.0		40.0	2.0	R6
HBK LL4650	71.4			49.1	2.3	7.4			R6
SOUTHERN STATES SS 4725NS R2	71.0	67.8		49.9	1.0	0.1	100.0	2.0	R6
HS 48A22	70.7			50.5	2.0	3.3	83.3	2.0	R6
ARMOR 49-R56	70.4	64.2		49.8	1.0		83.3	2.0	R6
ARMOR 46-R65	70.3			49.8	1.7	0.7	45.0	2.0	R6
DYNA-GRO S49RY25	70.1			50.9	1.0				R6
ASGROW AG4933	69.8	69.0	63.8	51.3	1.3	1.1	40.0	2.0	R6
PROGENY 4788 RY	69.5			48.4	1.3	1.5			R6
ARMOR AX4471	69.4			50.2	1.3	5.0			R6

continued

**Table 8. (continued)**

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	SUDDEN DEATH SYNDROME INDEX <sup>C</sup>	FROGEYE LEAF SPOT <sup>D</sup> INCIDENCE	RATING	SOYBEAN DEVELOPMENT STAGE AT RATING
	2014	2013-14	2012-14						
ASGROW AG4831	69.4	71.9	68.1	49.1	1.3	1.1			R6
HS 47A42	69.1			49.2	1.3	0.4	100.0	2.0	R6
SOUTHERN STATES SS 4714NS R2	69.1			49.6	1.3	8.1	100.0	2.0	R6
SOUTHERN STATES SS 4917N R2	68.5	68.9		50.9	1.0	8.9	100.0	2.0	R6
MYCOGEN SEEDS 5N478R2	68.4	64.8		49.4	2.0	7.4	75.0	2.5	R6
SEED CONSULTANTS SCS 9474RR™	68.2	69.1		50.5	1.0	2.6			R6
BECK XL 493R4	68.2			49.8	1.3	0.6	100.0	2.0	R6
REV® 49R94™	68.1	65.4		49.4	1.3	13.9			R6
HS 49A42	68.0			50.7	1.7	2.8	100.0	2.0	R6
STINE 48RD00	68.0	63.9		48.8	1.3	0.4	100.0	2.0	R6
PIONEER P49T97R	67.6	61.3		50.1	1.0	0.4	100.0	2.0	R6
SYNGENTA S46-L2	67.3	60.5		49.2	1.0	0.2	100.0	2.0	R6
UNIVERSITY OF TENNESSEE ELLIS	67.3			50.5	1.3				R6
HALO 4:76	67.3			49.8	1.3	1.1	100.0	2.0	R6
PROGENY 4613 RYS	67.3	61.8		49.7	2.0	0.7	100.0	2.0	R6
STEYER 4802R2	66.7	60.3		51.2	1.7		55.0	2.0	R6
PIONEER P47T36R	66.6	65.9		49.8	1.0	0.6			R6
CAVERNDAL CF 485 LLn	66.3	61.1	57.2	50.7	1.7	12.2	30.0	2.0	R6
BECK XL 485R2	66.1			49.9	3.3		60.0	2.0	R6
STEYER 4702R2	66.0	60.8	59.0	49.6	1.0		80.0	2.0	R6
HALO X448	65.8			50.0	1.7	1.1			R6
CAVERNDAL CF 496 RR2Yn	65.7	65.8		51.2	1.0	4.4	100.0	2.0	R6
UNIVERSITY OF ARKANSAS R08-2797	65.7			49.1	1.3	3.7	100.0	2.0	R6
REV® 48R44™	65.4	61.8		49.8	1.3	5.9			R6
PIONEER P46T21R	65.4	60.1		49.5	1.0	0.7			R6
STINE 46LD02	65.3			48.6	1.0	4.4	100.0	2.0	R6
REV® 46R64™	65.2	61.3		49.0	2.0		100.0	2.0	R6
PIONEER P48T53R	64.9	68.6		48.2	1.3	0.6	100.0	2.0	R6
CAVERNDAL CF 479 LLn	64.8			48.8	1.0	0.6			R6
BECK 483NL	64.8	57.6		50.0	2.0		100.0	2.0	R6
SEED CONSULTANTS SCS 9494RR™	64.8	70.1		49.8	1.3		100.0	2.0	R6
REV® 49A55™	64.6			49.5	1.3	1.0			R6
STEYER 4602R2	64.6			49.5	1.0		100.0	2.0	R6
ARMOR 48-R66	64.6	63.6		50.0	2.3		100.0	2.0	R6
ARMOR X49C	64.4	59.5		50.4	2.7		100.0	2.0	R6
ARMOR X48C	64.2	66.3		49.6	1.3				R6
HALO 4:95	64.1	67.3	64.6	49.1	2.3	10.7	80.0	2.0	R6
SYNGENTA S48-P4	64.1			49.5	2.7		86.7	2.0	R6
HALO 4:94	63.9	57.7	55.5	51.5	1.7	9.8	4.0	2.0	R6
PFISTER 49R22	63.9			49.8	1.0				R6
PROGENY 4930 LL	63.9	58.8		49.9	1.0	3.7			R6
DYNA-GRO SX14247R	63.8			48.7	1.3	1.0	100.0	2.0	R6
SOUTHERN STATES LL 473N	63.6	60.1		50.0	2.3	17.3	100.0	2.0	R6
PROGENY 4747 RY	63.5	61.2	58.0	49.8	1.0	5.2			R6
CZ 4959 RY	63.5			51.1	1.7	0.7	60.0	2.0	R6
SOUTHERN STATES SS 4700 R2-ST5	63.4	58.6	56.0	49.9	1.3	0.4	100.0	2.0	R6
ARMOR X447C	63.2			48.8	3.0		100.0	2.0	R6
ASGROW AG4632	63.0	57.5	56.5	47.6	1.3	3.0			R6
HBK LL4653	62.8			50.3	1.0	3.3			R6
REV® 47R34™	62.7	64.3		49.6	1.3	5.6	100.0	2.0	R6
ARMOR X47C	62.6	61.8		50.9	1.7		100.0	2.0	R6
REV® 48R22™	62.6	58.1	54.4	49.7	1.7	10.0			R6
LG SEEDS C4696R2	61.5			50.0	2.0	4.4	40.0	2.0	R6
PROGENY 4928 LL	61.4	59.7	56.1	52.6	2.3	3.0			R6
ASGROW AG4832	61.4	66.5	62.0	49.0	2.3	3.0	100.0	2.0	R6
REV® 49A75™	61.2			50.9	1.7	13.3	100.0	2.0	R6
UNIVERSITY OF ARKANSAS R09-4571	61.1			48.3	1.0	0.6	100.0	2.0	R6
REV® 49A14™	60.7			49.8	2.0		100.0	2.0	R6
R05-3239	60.6			52.0	1.7	0.6	100.0	2.0	R6
HBK LL4953	60.4			51.1	1.0	5.7			R6
SOUTHERN STATES SS 4913N R2	59.7	58.3		50.5	1.3	10.4	100.0	2.0	R6
ARMOR AX4480	59.7			50.2	1.3	0.6	100.0	2.5	R6
PROGENY 4819 LL	59.7	61.9	59.1	50.0	2.0	10.4	100.0	2.0	R6
HBK RY4620	59.5	62.4	60.7	49.0	1.7	1.5	70.0	2.0	R6
LG SEEDS C4919R2	58.9			50.2	1.0	1.1	100.0	2.0	R6
ARMOR AX4490	58.5			49.7	1.3	7.4	100.0	2.0	R6
ARMOR 49-C3	58.2	67.7		52.3	4.7	5.9	45.0	2.0	R6
PFISTER 46R25	58.1			50.0	1.7	10.0	100.0	2.0	R6
REV® 47R53™	58.1	57.5	55.2	49.0	2.7	3.7	100.0	2.0	R6
PENNYRILE (long term check-released 1987)	56.7	58.3	54.1	49.7	1.7	0.7			R6
SYNGENTA S49-F8	55.4	52.3	52.8	49.3	1.3		100.0	2.0	R6
HBK LL4850	54.3	55.6		49.9	1.7	8.9	100.0	2.0	R6
HALO X449	52.9			52.4	3.0	0.6			R6
PROGENY 4620 LLS	50.3			51.1	3.0	7.0			R6
HBK LL4950	50.2	55.4		52.1	1.7	10.4			R6
HALO 4:97	47.7	46.6		50.8	3.0	10.7			R6
CAVERNDAL CF 469 LL/STSn	46.1	50.1		53.0	3.3	17.8			R6
<b>GROUP IV LATE AVERAGE</b>	<b>65.5</b>	<b>63.3</b>	<b>60.4</b>	<b>50.0</b>	<b>1.6</b>				
<b>LSD (0.10)</b>	6.7	4.7	3.6	1.3					
<b>C.V.</b>	7.5	7.7	7.5	1.8					

continued

Table 8. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	SUDDEN DEATH SYNDROME INDEX <sup>C</sup>	FROGEYE LEAF SPOT <sup>D</sup>		SOYBEAN DEVELOPMENT STAGE AT RATING
	2014	2013-14	2012-14				INCIDENCE	RATING	
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>									
PIONEER P50T64R	57.7			48.7	1.0				R5/R6
ARMOR AX4500	55.5			47.6	1.7				R5/R6
STEYER 5101R2	52.9	54.5		47.8	1.7				R5/R6
PFISTER 52R26	51.2			50.1	2.3				R5/R6
REV <sup>®</sup> 55R53 <sup>™</sup>	50.2	55.6	53.7	49.2	2.7		100.0	2.0	R5/R6
HALO X451	50.0			49.6	1.0	1.2	60.0	2.0	R5/R6
UNIVERSITY OF ARKANSAS UA5612	49.1	50.5	51.0	50.9	2.3				R5/R6
ARMOR AX4520	49.0			49.3	1.7		52.5	2.0	R5/R6
HALO 5:01-5	48.8	54.9	54.4	51.0	1.3	3.0	30.0	2.0	R5/R6
UNIVERSITY OF ARKANSAS R05-374	48.2			48.2	2.0				R5/R6
MYCOGEN SEEDS X54522NR2	47.8			49.5	2.3	0.4			R5/R6
CZ 5150 LL	47.6			48.8	1.0	2.2			R5/R6
UNIVERSITY OF ARKANSAS UA5213C	47.4	51.1		49.6	2.7	3.0			R5/R6
DYNA-GRO S51RY45	47.2			48.7	1.3				R5/R6
BECK 522L4	46.9	55.7		48.6	1.0		50.0	2.0	R5/R6
REV <sup>®</sup> 54R84 <sup>™</sup>	46.6	49.7	50.4	52.4	4.0	0.7			R5/R6
HALO X452	46.3			50.4	1.7				R5/R6
REV <sup>®</sup> 52R74 <sup>™</sup>	46.2	48.3	47.9	48.2	1.0	0.1			R5/R6
MYCOGEN SEEDS 5N540R2	45.9	52.6		49.0	1.7		50.0	2.0	R5/R6
UNIVERSITY OF ARKANSAS R04-1250RR	45.8	52.9		50.3	2.7		60.0	2.0	R5/R6
HALO 5:26	45.8	46.5	46.5	48.6	1.7	0.4			R5/R6
REV <sup>®</sup> 52A94 <sup>™</sup>	45.5			48.4	1.7		100.0	2.0	R5/R6
EXP USDA-ARS JTN-5110	45.4	48.8	50.2	51.1	2.3	0.7			R5/R6
ARMOR 50-R44	45.0	51.4		49.1	1.0	3.0			R5/R6
REV <sup>®</sup> 53R23 <sup>™</sup>	44.3	53.5	49.5	48.1	1.0				R5/R6
STEYER 5301R2	44.2			49.0	1.0				R5/R6
UNIVERSITY OF ARKANSAS R04-1268RR	44.2	52.7		49.1	2.3		100.0	2.0	R5/R6
UNIVERSITY OF ARKANSAS OSAGE	44.2	53.7	50.7	50.7	1.3	1.5	40.0	2.0	R5/R6
HALO 5:45	44.1	47.6	47.6	51.1	1.0	0.1			R5/R6
BECK 505L4	44.1			50.4	3.3	0.6			R5/R6
ESSEX (long term check-released 1974)	43.8	45.8	45.7	49.7	1.7				R5/R6
UNIVERSITY OF ARKANSAS R10-130RY	42.6			50.4	2.0	2.2			R5/R6
HALO 5:25	41.3			50.3	1.7				R5/R6
REV <sup>®</sup> 56A54 <sup>™</sup>	40.5			49.3	2.3	0.2			R5/R6
UNIVERSITY OF ARKANSAS OZARK	39.1	47.3	48.2	50.2	1.7				R5/R6
REV <sup>®</sup> 51R53 <sup>™</sup>	35.0	47.3	46.9	50.1	1.0		100.0	2.0	R5/R6
<b>GROUP V AVERAGE</b>	<b>46.4</b>	<b>51.0</b>	<b>49.4</b>	<b>49.5</b>	<b>1.8</b>				
<b>LSD (0.10)</b>	5.0	4.2	3.3	1.6					
<b>C.V.</b>	7.9	8.8	8.6	2.3					

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 No data were collected in 2013- see Publication PR-672.

C For each plot, 1) Disease Incidence (DI) was recorded as percentage of plant 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 = 11-20% chlorotic or up to 10% necrotic, 3 = 21-40% chlorotic or 11-20% necrotic, 4 = 40 - 60% chlorotic or 21 - 40% necrotic, 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 DXs of all three replicates.

D For each plot, 1) Disease Incidence (DI) was recorded as percentage of plant showing visible leaf symptoms; 2) the Disease Severity (DS) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = 1 moderately resistant or 1-25% of the leaf surface has lesions, 3 = moderately resistant or 25-50% of the leaf surface has lesions, 4 = susceptible or 50% of the leaf surface has lesions, 5 = very susceptible or more than 50% of the leaf surface has lesions or the leaf is dead). The data in the table are reported as the mean index: for each variety, the DI and DR means were calculated using the DIs and DRs of all three replicates.

E No disease ratings were collected for the maturity group II since the varieties were already at the R7 stage.

**AGRONOMIC INFORMATION**

Location	Daviess County
Soil type	Belknap silt loam
Previous crop	Corn
Soil test	N/A
Fertilizer/lime applied	None
Agricultural practice	No-till
Pre-planting treatments	Mid April: 2.4-D 1 pt/acre, LeadOff 1.5 oz/acre
Planting date	05/28
Post-planting treatments	06/25 Select Max 16 oz/acre, Reflex 24 oz/acre
Harvest dates	MG II: 09/26, MG III: 09/27, MG IV Early: 10/25, MG IV Late and V: 11/12
50% chance of killing frost	10/26

**Precipitation and Temperature History.**

	Total Monthly Precipitation (in.)	Temperature (F°)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	2.33	41.9	76.0	13.0
April	9.41	58.2	83.0	30.0
May	4.01	68.6	89.0	43.0
June	2.53	76.6	93.0	57.0
July	2.44	73.8	96.0	52.0
August	3.90	77.5	94.0	56.0
September	1.20	69.7	92.0	45.0
October	3.21	59.4	91.0	36.0
November (11/01-12)	0.24	46.7	69	25

**Table 9. 2014 Kentucky Soybean Variety Performance Tests, Fayette County.**

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	PLANT HEIGHT (IN.) 2014	MATURITY DATE 2014 <sup>B</sup>
	2014	2013-14	2012-14				
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>							
LG SEEDS C2835R2	61.7		N/A	49.0	1.0	30	23
STEYER 2702R2	61.3			49.0	1.0	30	25
SYNGENTA S27-J7	60.0			48.2	1.0	31	27
PIONEER P28T33R	59.9			<b>49.4</b>	1.0	28	24
PIONEER 92Y83	59.6			48.7	1.0	28	26
STEYER 2805R2	56.9			48.2	1.0	29	27
SYNGENTA S28-A2	56.2			49.2	1.0	31	25
CAVERNDALE CF 286 RR2Y/STS <sub>n</sub>	51.3	57.7		48.5	1.0	26	26
SYNGENTA S29-G4	47.1			48.1	1.0	30	27
<b>GROUP II AVERAGE</b>	<b>57.1</b>	<b>N/A</b>		<b>48.7</b>	<b>1.0</b>	<b>29</b>	<b>Sept. 26th</b>
<b>LSD (0.10)</b>	4.2			1.5			
<b>C.V.</b>	5.1			2.2			
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>							
SYNGENTA S39-T3	<b>68.5</b>			50.9	1.0	27	31
REV <sup>®</sup> 39A35	65.4			50.1	1.0	30	28
SEED CONSULTANTS SCS 9363RR <sup>™</sup>	64.3	61.5		<b>52.1</b>	1.0	31	28
PFISTER 33R28	63.8			50.8	1.0	30	27
SEED CONSULTANTS SCS 9385RR <sup>™</sup>	63.3			51.0	1.0	29	27
MYCOGEN SEEDS 5N393R2	62.1	59.6		49.7	1.0	29	32
ARMOR AX4391	61.9			49.8	1.0	24	31
STINE 37RC82	60.8			50.8	1.0	29	28
WARREN SEED DS 3838 R2Y	60.4			50.2	1.0	30	29
PIONEER 93Y92	59.9	<b>64.2</b>	49.8	49.3	1.0	30	29
PFISTER 35R25	59.8			50.6	1.0	28	27
SEED CONSULTANTS SCS 9392RR <sup>™</sup>	59.5	59.3	53.5	51.8	1.0	32	28
L&M GLICK 399 RY2	59.2			49.3	1.0	28	30
LG SEEDS C3989R2	59.2	61.6	<b>55.7</b>	49.9	1.0	26	29
DYNA-GRO 32RY39	59.0			49.7	1.0	29	32
CHANNEL 3707R2/STS	58.9			50.3	1.0	33	30
STINE 38RE02	58.8			51.6	1.0	27	28
DYNA-GRO S39RY65	58.3			49.2	1.0	28	29
GREAT LAKES HYBRIDS GL3729R2	58.2			50.1	1.0	28	30
UNISOUTH GENETICS USG 73P93R	57.9	61.3		49.8	1.0	29	29
PIONEER 93Y84	57.7	59.8	54.3	49.7	1.0	35	29
SEED CONSULTANTS SCS 9393RR <sup>™</sup>	57.7	61.2		51.0	1.0	29	30
ASGROW AG3832	57.6	57.2	50.1	50.1	1.0	26	33
SOUTHERN STATES SS 3813N R2	57.5	61.6		50.5	1.0	25	31
PFISTER 39R29	57.2			50.5	1.0	27	31
ASGROW AG3735	57.0			49.9	1.0	24	28
SOUTHERN STATES SS 3914NS R2	56.9			49.9	1.0	25	31
STEYER 3403R2	56.9			51.3	1.0	30	31
ARMOR 39-R16	56.5	60.3	47.7	50.0	1.0	28	30
PIONEER P35T58R	56.1	59.9		48.9	1.0	29	25
ARMOR AX4390	55.7			50.4	1.0	28	30
CZ 3841 LL	55.7			50.2	1.0	28	30
CAVERNDALE CF 380 RR2Y <sub>n</sub>	54.6	57.3		49.5	1.0	27	31
ARMOR AX4310	54.6			50.1	1.0	29	31
GREAT LAKES HYBRIDS GL3929R2	53.1			49.8	1.0	25	31
LG SEEDS C4010R2	52.9			44.5	1.0	26	31
STEYER 3103R2	52.4			50.3	1.0	27	25
ASGROW AG3934	49.2	52.1		49.9	1.0	23	29
PIONEER 93Y05	45.5			50.5	1.0	26	27
<b>GROUP III AVERAGE</b>	<b>58.1</b>	<b>59.8</b>	<b>51.9</b>	<b>50.1</b>	<b>1.0</b>	<b>28</b>	<b>Sept. 30th</b>
<b>LSD (0.10)</b>	5.6	3.7	2.8	2.7			
<b>C.V.</b>	7.2	6.5	6.3	4.0			
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>							
UNISOUTH GENETICS USG 74A33R	<b>71.6</b>	64.3		51.5	1.0	32	39
ASGROW AG4232	69.8	<b>75.1</b>	<b>61.2</b>	51.0	1.0	33	41
STEYER 4303R2	68.4			50.7	1.0	37	36
UNISOUTH GENETICS USG 74F53R	67.7			54.9	1.0	32	39
DYNA-GRO S43RY95	67.5			50.3	1.0	36	39
CAVERNDALE CF 426 RR2Y/STS <sub>n</sub>	66.7			50.5	1.0	36	41
SOUTHERN STATES LL 423N	65.9	66.8		50.7	1.0	27	39
WARREN SEED DS 4330 R2Y	65.7	61.3		55.7	1.0	34	30
UNISOUTH GENETICS USG 74F24RS	65.5			50.1	1.0	35	36
ASGROW AG4531	65.4			51.5	1.0	32	36
PIONEER P45T11	65.4			51.9	1.0	37	39
SEED CONSULTANTS SCS 9443RR <sup>™</sup>	65.2	59.6		50.4	1.0	34	39
ARMOR AX4450	65.1			51.5	1.0	33	40
WARREN SEED DS 4340 R2Y	64.7	60.7	58.7	51.3	1.0	33	37
REV <sup>®</sup> 44A15	64.5			51.3	1.0	31	37
ASGROW AG4034	64.4			50.3	1.0	27	35
GREAT LAKES HYBRIDS GL4209R2	64.4	59.7		50.2	1.0	29	38
STINE 42LD02	64.3			50.3	1.0	29	40
DYNA-GRO 39RY43	63.8	60.0	51.2	50.9	1.0	32	36
PROGENY 4211 RY	63.8	60.9	51.2	50.9	1.0	30	41
ASGROW AG4533	63.8			51.0	1.0	33	38
SEED CONSULTANTS SCS 9434RR <sup>™</sup>	63.7	61.3		51.5	1.0	34	36
SOUTHERN STATES SS 4514N R2	63.6			51.3	1.0	32	36

continued

Table 9. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	PLANT HEIGHT (IN.) 2014	MATURITY DATE 2014 <sup>B</sup>
	2014	2013-14	2012-14				
STEYER 4401R2	63.5	59.9	51.1	50.5	1.0	28	38
CAVERNDALE CF 425 LLn	63.3	60.4		50.2	1.0	31	35
PIONEER 94Y23	63.0	61.4	52.9	50.8	1.0	29	37
BECK 423NL	62.8	67.4		51.0	1.0	28	41
MYCOGEN SEEDS 5N451R2	62.5	61.6		50.8	1.0	32	38
ASGROW AG4135	62.3			50.0	1.0	32	38
PFISTER 43R29	62.0	59.0	49.5	50.2	1.0	31	36
ARMOR 44-R08	61.9	69.3	57.7	50.1	1.0	28	28
MYCOGEN SEEDS 5N423R2	61.9	57.5		50.2	1.0	29	36
ARMOR AX4410	61.9			54.3	1.0	31	36
STEWART 4412R2	61.7	60.6	53.7	51.2	1.0	34	38
SEED CONSULTANTS SCS 9435R2™	61.6			52.3	1.0	31	38
STINE 43RE02	61.5			50.2	1.0	31	37
SYNGENTA S40-N2	61.1			49.8	1.0	29	39
STEWART 4113R2	61.1	60.6	50.4	55.1	1.0	28	38
CHANNEL 4107R2	61.1			53.7	1.0	33	39
STEYER 4501R2	61.0			54.6	1.0	30	36
CAVERNDALE CF 456 RR2Y/STSn	60.9	64.3		49.9	1.0	30	36
PROGENY 4440 RY	60.8			49.0	1.0	33	41
STINE 42RD02	60.8	63.0		51.2	1.0	31	35
ASGROW AG4534	60.7	59.1		51.2	1.0	33	39
ARMOR AX4440	60.5			51.3	1.0	31	42
ARMOR AX4430	60.5			49.5	1.0	33	39
LG SEEDS C4322R2	60.1			50.2	1.0	32	36
SYNGENTA S43-K1	60.1	61.5		50.2	1.0	31	38
SOUTHERN STATES SS 4312N R2	59.9	56.7	48.2	50.4	1.0	29	39
SYNGENTA S45-V8	59.6	58.8		58.4	1.0	30	41
ASGROW AG4433	58.9	57.1	49.2	51.2	1.0	35	38
PROGENY 4560 LL	58.9	60.5		51.4	1.0	37	39
HALO 4:40	58.2	63.2		53.9	1.0	32	38
PROGENY 4510 RYS	58.2	57.7	49.6	52.1	1.0	34	40
CZ 4181 RY	58.2			50.7	1.0	33	37
ARMOR 43-R43	58.0	54.1		51.1	1.0	33	40
L&M GLICK 412 R2Y	57.9	63.7	53.1	49.9	1.0	30	35
DYNA-GRO S42RS03	57.5			50.3	1.0	30	39
SYNGENTA S41-J6	57.0	57.9	48.7	51.2	1.0	33	37
REV® 42A65™	56.6			49.3	1.0	31	35
SOUTHERN STATES SS 4114N R2	56.3			50.3	1.0	28	37
CHANNEL 4508R2/SR	55.4			56.3	1.0	33	39
REV® 41A05™	55.4			55.8	1.0	30	39
HALO X440	54.9			54.4	1.0	29	38
UNIVERSITY OF MISSOURI S10-11227	54.9			51.5	1.0	28	34
DYNA-GRO S40RY25	54.3			50.3	1.0	27	38
STEWART 4514R2	54.1	57.8		60.8	1.0	30	37
MYCOGEN SEEDS 5N431R2	53.7	55.0		50.7	1.0	30	38
CHANNEL 4407R2/STS	53.3			51.4	1.0	31	37
ASGROW AG4033	53.1	56.4	49.1	51.2	1.0	27	38
WARREN SEED DST 40-001 R2Y	52.9			50.2	1.0	27	34
STEYER 4002R2	49.7			50.1	1.0	28	35
<b>GROUP IV EARLY AVERAGE</b>	<b>61.1</b>	<b>60.9</b>	<b>52.2</b>	<b>51.5</b>	<b>1.0</b>	<b>31</b>	<b>Oct. 8th</b>
<b>LSD (0.10)</b>	4.8	3.2	2.5	3.9			
<b>C.V.</b>	5.9	5.5	5.6	5.6			
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>							
STEYER 4602R2	74.0			52.8	1.0	30	40
SOUTHERN STATES SS 4714NS R2	72.7			53.0	1.0	37	43
WARREN SEED DS 4850 R2Y/STS	69.7	68.7	56.9	53.0	1.0	34	43
HALO 4:95	69.4	67.9	56.5	53.7	1.0	35	43
PROGENY 4613 RYS	68.9	63.8		52.4	1.3	39	43
SYNGENTA S49-F8	68.8	64.7	55.5	52.1	1.0	33	42
REV® 46R64™	68.6	61.2		53.3	1.0	36	42
PFISTER 46R25	68.6			52.4	1.0	37	40
HS 49A42	68.1			52.8	1.0	35	41
GREAT LAKES HYBRIDS GL4729R2	68.1	62.6		52.4	1.0	36	43
ARMOR X49C	67.9	63.4		53.1	1.0	34	42
DYNA-GRO SX14247R	67.7			51.7	1.0	30	44
STEYER 4702R2	67.6	63.7	53.1	51.8	1.0	38	44
SOUTHERN STATES SS 4913N R2	67.2	65.5		53.2	1.0	39	44
WARREN SEED DS 4633 R2Y	67.1	68.5	56.6	53.7	1.0	37	41
PIONEER P48T53R	67.1	65.7		49.6	1.3	32	46
DYNA-GRO S48RS53	67.1	65.9	54.5	53.5	1.0	33	40
PIONEER P47T36R	67.0	61.8		52.3	1.0	35	43
SEED CONSULTANTS SCS 9474RR™	67.0	67.6		52.7	1.0	34	42
REV® 48R44™	66.9	65.1		53.0	1.0	35	43
ASGROW AG4933	66.7	65.7	57.1	52.0	1.0	33	42
ASGROW AG4632	66.7	62.9	52.9	51.8	1.0	33	42
LG SEEDS C4780R2	66.7	62.2	53.5	53.7	1.0	32	41
REV® 47R34™	66.6	65.3		53.2	1.0	36	41
REV® 49A55™	66.5			52.2	1.0	37	42
PROGENY 4850 RYS	66.5	61.1	53.1	52.7	1.0	34	41
ASGROW AG4934	66.4	68.2		53.2	1.0	35	44
ASGROW AG4835	66.4			52.9	1.0	35	42
PFISTER 49R22	66.3			53.0	1.0	37	42

continued

Table 9. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014	PLANT HEIGHT (IN.) 2014	MATURITY DATE 2014 <sup>B</sup>
	2014	2013-14	2012-14				
LG SEEDS C4919R2	66.3			52.7	1.0	38	44
CAVERNDALE CF 472 RR2Y/STS <sub>n</sub>	66.1			53.2	1.0	35	43
DYNA-GRO S49RY25	66.1			52.3	1.0	36	41
ARMOR X48C	66.0	61.6		52.9	1.0	30	41
BECK XL <sup>®</sup> 493R4 <sup>TM*</sup>	65.8			53.2	1.0	36	31
PROGENY 4930 LL	65.7	60.7		52.5	1.0	41	41
ARMOR AX4490	65.7			52.9	1.0	34	41
PROGENY 4819 LL	65.6	59.8	50.5	53.4	1.0	34	45
STEYER 4802R2	65.5	66.4		52.6	1.0	34	44
SOUTHERN STATES LL 473N	65.5	62.2		53.4	1.0	36	43
HBK RY4721	65.4	61.6	53.3	53.1	1.0	36	45
HALO 4:97	65.4	61.0		53.3	1.0	40	44
SYNGENTA S48-P4	65.4			52.6	1.0	39	43
MYCOGEN SEEDS 5N478R2	65.4	62.0		53.0	1.0	34	42
CZ 4959 RY	65.3			55.2	1.0	36	44
BECK XL <sup>®</sup> 465R4 <sup>TM*</sup>	65.3			52.2	1.0	32	43
PROGENY 4900 RY	65.3	63.3	53.3	51.2	1.0	30	40
HS 47A42	65.2			53.5	1.0	37	42
CAVERNDALE CF 485 LL <sub>n</sub>	65.2	62.1	51.7	53.0	1.0	37	42
LG SEEDS C4696R2	65.2			53.5	1.0	33	41
PROGENY 4747 RY	65.1	60.1	50.2	52.4	1.0	32	44
ARMOR 46-R65	64.8			52.2	1.0	33	41
PIONEER P46T21R	64.7	65.0		54.3	1.0	34	41
PROGENY 4788 RY	64.7			51.8	1.0	35	43
PIONEER P49T97R	64.6	61.0		53.2	1.0	33	45
REV <sup>®</sup> 47R53 <sup>TM</sup>	64.5	63.3	53.4	52.8	1.0	36	44
BECK XL <sup>®</sup> 485R2 <sup>TM*</sup>	64.4			52.8	1.0	32	42
SOUTHERN STATES SS 4725NS R2	64.3	62.6		53.3	1.0	34	41
SOUTHERN STATES SS 4700 R2-STS	64.1	62.4	54.0	51.7	1.0	31	45
CAVERNDALE CF 479 LL <sub>n</sub>	63.6			52.3	1.0	32	42
ARMOR 49-R56	63.5	61.2		52.2	1.0	29	43
SEED CONSULTANTS SCS 9494RR <sup>TM</sup>	63.5	61.0		51.1	1.0	34	41
REV <sup>®</sup> 49A75 <sup>TM</sup>	63.5			52.7	1.0	38	44
ASGROW AG4831	63.4	65.5	55.5	52.4	1.0	36	42
HBK RY4620	63.1	62.5	51.1	52.0	1.0	30	43
SYNGENTA S47-K5	63.0			51.5	1.0	29	42
BECK 483NL	63.0	64.1		52.4	1.0	33	45
SYNGENTA S46-L2	62.6	62.3		52.9	1.0	32	42
HBK LL4850	62.4	63.4		52.8	1.0	34	44
SOUTHERN STATES SS 4917N R2	62.3	61.4		52.3	1.0	36	41
UNIVERSITY OF TENNESSEE ELLIS	62.2			53.2	1.0	36	44
ARMOR X447C	62.2			52.8	1.0	32	42
RO5-3239	62.2			55.3	1.7	39	46
REV <sup>®</sup> 49R94 <sup>TM</sup>	62.0	60.6		53.3	1.0	34	45
HBK LL4950	61.7	57.3		52.2	1.3	42	43
PROGENY 4620 LLS	61.6			54.3	1.3	42	43
HBK LL4650	61.6			51.6	1.0	35	43
ASGROW AG4832	61.5	64.1	54.3	51.3	1.0	36	43
HALO X448	61.2			51.8	1.0	34	41
CAVERNDALE CF 486 RR2Y/STS <sub>n</sub>	61.0	61.9	52.7	52.1	1.3	33	44
MYCOGEN SEEDS 5N479R2	60.9	57.6		53.1	1.0	35	42
REV <sup>®</sup> 48R22 <sup>TM</sup>	60.9	56.1	47.8	53.7	1.0	31	40
CAVERNDALE CF 469 LL/STS <sub>n</sub>	60.8	60.7		53.7	1.0	43	43
ARMOR X47C	60.8	61.5		54.3	1.0	29	42
STINE 46LD02	60.7			53.3	1.0	29	41
ARMOR 48-R66	60.7	61.9		51.4	1.0	36	43
HALO 4:94	60.5	59.2	48.9	53.8	1.0	39	45
HALO 4:76	60.2			53.2	1.0	34	43
PROGENY 4928 LL	60.1	58.4	49.7	53.6	1.3	43	43
ARMOR AX4480	60.0			52.5	1.0	32	42
ARMOR AX4471	60.0			53.3	1.0	31	40
DYNA-GRO S47RY13	59.7	56.2	49.0	51.9	1.0	34	41
CAVERNDALE CF 496 RR2Y <sub>n</sub>	59.7	62.6		52.7	1.0	34	41
HALO X449	59.4			53.6	1.3	45	42
HBK LL4653	59.3			52.5	1.0	30	42
HBK LL4953	59.2			51.4	1.0	40	41
ARMOR 47-R13	59.0	59.5	51.1	52.9	1.0	33	43
HS 48A22	58.0			52.2	1.0	35	43
UNIVERSITY OF ARKANSAS R09-4571	57.3			52.1	1.0	37	43
REV <sup>®</sup> 49A14 <sup>TM</sup>	57.2			52.4	1.0	32	42
STINE 48RD00	56.5	62.4		53.2	1.0	31	43
UNIVERSITY OF ARKANSAS R08-2797	55.3			53.7	1.0	37	43
DYNA-GRO S46RY85	54.4			52.2	1.0	30	42
ARMOR 49-C3	54.2	53.8		54.1	4.3	44	44
PENNYRILE (long term check-released 1987)	51.9	53.7	44.7	52.4	1.0	38	43
<b>GROUP IV LATE AVERAGE</b>	<b>63.8</b>	<b>62.3</b>	<b>52.6</b>	<b>52.8</b>	<b>1.1</b>	<b>35.0</b>	<b>Oct. 12th</b>
<b>LSD (0.10)</b>	6.0	3.7	2.8	1.5			
<b>C.V.</b>	6.9	6.2	6.1	2.1			

continued

Table 9. (continued)

BRAND VARIETY	YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT	LODGING 2014	PLANT HEIGHT (IN.) 2014	MATURITY DATE 2014 <sup>B</sup>
	2014	2013-14	2012-14	2014 <sup>A</sup>			
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>							
BECK 522L4	61.1	62.8		50.4	1.0	42	46
ARMOR AX4500	60.8			50.6	1.0	40	44
HALO X451	60.6			50.3	1.0	41	46
STEYER 5101R2	59.8	63.9		51.0	1.0	40	48
HALO 5:25	59.3			50.6	2.3	34	45
HALO 5:01-5	58.7	59.2	49.8	50.2	1.7	45	50
REV <sup>®</sup> 52A94™	58.4			50.0	2.3	41	44
HALO 5:26	58.2	56.3	50.7	49.5	2.7	42	45
STEYER 5301R2	58.2			48.7	1.0	43	44
REV <sup>®</sup> 51R53™	58.2	61.9	52.8	50.1	1.0	34	48
ARMOR AX4520	58.2			50.7	3.7	43	44
DYNA-GRO S51RY45	58.0			50.1	1.0	39	45
CZ 5150 LL	58.0			49.7	1.3	43	48
ARMOR 50-R44	57.7	57.0		50.2	1.0	43	46
REV <sup>®</sup> 53R23™	57.5	53.0	43.9	50.0	1.3	37	46
ESSEX (long term check-released 1974)	56.9	58.9	51.0	51.2	2.0	36	47
REV 52R74	56.7	60.6	51.7	49.1	1.0	38	45
HALO X452	56.5			51.7	1.3	42	46
UNIVERSITY OF ARKANSAS UA5213C	56.5	60.0		50.6	3.7	36	44
REV 55R53	56.0	57.3	48.6	49.6	2.7	41	45
HALO 5:45	55.8	59.6	48.5	51.3	1.7	42	47
EXP USDA-ARS JTN-5110	55.7	58.9	51.2	52.0	3.3	39	47
UNIVERSITY OF ARKANSAS R05-374	55.3			49.5	2.7	40	52
UNIVERSITY OF ARKANSAS OZARK	54.5	57.1	48.5	52.1	3.7	42	45
UNIVERSITY OF ARKANSAS R04-1268RR	54.2	51.1		51.6	3.3	38	46
REV <sup>®</sup> 54R84™	54.2	55.6	46.3	52.0	4.3	39	45
PIONEER P50T64R	54.0			49.7	1.0	35	45
UNIVERSITY OF ARKANSAS R10-130RY	53.7			50.3	3.0	39	45
MYCOGEN SEEDS 5N540R2	53.4	50.8		50.4	3.0	43	47
UNIVERSITY OF ARKANSAS R04-1250RR	51.2	51.4		50.9	3.3	44	45
MYCOGEN SEEDS X54522NR2	51.2			50.5	2.7	43	45
REV <sup>®</sup> 56A54™	50.9			50.1	4.0	48	47
PFISTER 52R26	50.0			50.0	2.0	44	48
UNIVERSITY OF ARKANSAS UA5612	49.6	52.6	45.2	52.0	3.7	41	47
BECK 505L4	49.4			52.3	1.0	42	47
UNIVERSITY OF ARKANSAS OSAGE	45.1	52.9	47.0	49.4	2.7	39	53
<b>GROUP V AVERAGE</b>	<b>55.7</b>	<b>57.0</b>	<b>48.9</b>	<b>50.5</b>	<b>2.2</b>	<b>41</b>	<b>Oct. 16th</b>
LSD (0.10)	4.4	3.1	2.3	1.3			
C.V.	5.8	5.7	5.7	2.0			

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

B The maturity date is expressed as days after August 31.

**AGRONOMIC INFORMATION**

<b>Location</b>	Fayette County
<b>Soil type</b>	Lanton silty clay loam
<b>Previous crop</b>	Corn
<b>Soil test</b>	pH: 6.38 P: 6.87 K: 241
<b>Fertilizer/lime applied</b>	None
<b>Agricultural practice</b>	No-till
<b>Pre-planting treatments</b>	04/17: Salvo 1 pt/acre 05/07: Glyphosate 40 oz/acre, Authority XL 6.5 oz/acre
<b>Planting dates</b>	05/19: MG IV and V 05/20: MG II and III
<b>Post-planting treatments</b>	06/09: First Rate 0.3 oz/acre, Select Max 16 oz/acre
<b>Harvest dates</b>	MG II: 09/27, MG III: 10/01, MG IV Early 10/23, MG IV Late and V: 11/10
<b>50% chance of killing frost</b>	10/26

**Precipitation and Temperature History.**

	Total Monthly Precipitation (in.)	Temperature (F°)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	3.04	40.4	71.8	9.1
April	5.98	57.1	79.9	27.4
May	4.25	65.1	85.1	39.3
June	4.57	73.2	89.1	54.9
July	2.66	72.1	90.3	51.8
August	6.46	74.0	87.8	56.9
September	3.49	67.8	86.8	47.0
October	4.57	56.0	83.9	33.5
November (11/01-10)	0.61	44.5	64.4	25.2



**Table 10. 2014 Kentucky Soybean Variety Performance Tests, Hardin County.**

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>		TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14		
<b>MATURITY GROUP II (relative MG 2.0-2.9)</b>				
SYNGENTA S28-A2	65.0		49.5	1.3
STEYER 2805R2	60.6		48.7	1.0
PIONEER 92Y83	57.5		50.3	1.0
CAVERNDALE CF 286 RR2Y/STSn	56.8	49.3	50.9	1.7
PIONEER P28T33R	56.0		49.2	1.0
STEYER 2702R2	55.5		50.2	1.0
SYNGENTA S27-J7	55.2		49.9	1.7
LG SEEDS C2835R2	53.2		50.4	1.7
SYNGENTA S29-G4	45.9		49.5	1.0
<b>GROUP II AVERAGE</b>	<b>56.2</b>	<b>49.3</b>	<b>49.8</b>	<b>1.3</b>
LSD (0.10)	2.3		0.8	
C.V.	2.8		1.2	
<b>MATURITY GROUP III (relative MG 3.0-3.9)</b>				
PIONEER P35T58R	66.7	66.1	50.1	1.3
SOUTHERN STATES SS 3813N R2	66.6	63.9	51.5	1.0
SYNGENTA S39-T3	66.4		50.6	1.0
ARMOR AX4391	65.7		49.9	1.0
SEED CONSULTANTS SCS 9392RR <sup>TM</sup>	65.6	58.4	52.6	1.0
CZ 3841 LL	65.5		49.5	1.0
ASGROW AG3934	65.5	60.6	51.6	1.0
LG SEEDS C4010R2	65.1		51.8	1.3
WARREN SEED DS 3838 R2Y	64.7		50.9	1.3
SEED CONSULTANTS SCS 9385RR <sup>TM</sup>	64.7		51.2	1.3
CAVERNDALE CF 380 RR2Yn	64.4	60.6	50.7	1.0
SEED CONSULTANTS SCS 9393RR <sup>TM</sup>	64.1	60.0	51.6	1.0
GREAT LAKES HYBRIDS GL3729R2	63.6		51.9	1.3
GREAT LAKES HYBRIDS GL3929R2	63.5		51.3	1.0
PFISTER 35R25	63.1		51.0	1.0
ARMOR AX4310	62.7		51.1	2.0
PIONEER 93Y92	62.4	59.1	49.7	2.0
REV <sup>®</sup> 39A35 <sup>TM</sup>	62.3		51.0	1.3
L&M GLICK 399 RY2	62.3		51.1	1.0
MYCOGEN SEEDS 5N393R2	61.8	59.2	50.8	1.3
LG SEEDS C3989R2	61.8	64.2	50.8	1.3
DYNA-GRO 32RY39	61.7		50.8	1.0
ASGROW AG3832	61.6	59.3	50.0	1.0
SEED CONSULTANTS SCS 9363RR <sup>TM</sup>	61.4	59.7	51.6	1.0
ASGROW AG3735	60.8		51.0	1.0
PFISTER 33R28	60.6		51.6	1.0
STINE 37RC82	60.5		52.2	1.0
DYNA-GRO S39RY65	60.0		50.5	1.0
UNISOUTH GENETICS USG 73P93R	60.0	62.2	51.0	1.0
PIONEER 93Y05	59.8		49.8	1.0
CHANNEL 3707R2/STS	58.8		51.4	1.0
PFISTER 39R29	58.5		51.4	1.0
STEYER 3403R2	58.5		50.8	1.7
PIONEER 93Y84	58.3	61.1	49.7	1.0
STINE 38RE02	57.8		51.5	1.3
STEYER 3103R2	56.9		51.6	1.0
ARMOR AX4390	56.1		51.9	1.0
SOUTHERN STATES SS 3914NS R2	55.2		50.7	1.0
ARMOR 39-R16	54.8	55.8	50.7	1.3
<b>GROUP III AVERAGE</b>	<b>61.8</b>	<b>60.7</b>	<b>51.0</b>	<b>1.2</b>
LSD (0.10)	5.1	4.9	1.0	
C.V.	6.1	8.4	1.5	
<b>MATURITY GROUP IV EARLY (relative MG 4.0-4.5)</b>				
MYCOGEN SEEDS 5N451R2	69.8	63.6	51.5	1.7
REV <sup>®</sup> 41A05 <sup>TM</sup>	69.3		52.9	1.0
ASGROW AG4533	69.0		51.8	1.3
PROGENY 4211 RY	67.7	62.1	50.7	1.0
STINE 43RE02	67.4		50.1	1.0
DYNA-GRO 39RY43	67.2	60.3	51.1	1.0
ASGROW AG4033	67.1	59.6	50.1	1.3
CAVERNDALE CF 426 RR2Y/STSn	67.0		50.3	1.3
STEWART 4113R2	66.9	62.1	51.6	1.0
DYNA-GRO S42RS03	66.9		50.5	1.3
ARMOR 44-R08	66.7	61.5	50.8	1.0
CHANNEL 4107R2	66.6		51.5	1.7
LG SEEDS C4322R2	66.4		50.9	1.0
ARMOR AX4450	65.9		51.6	1.7
STEYER 4303R2	65.4		50.5	1.3
PIONEER 94Y23	65.4	56.4	49.8	1.0
ASGROW AG4135	65.3		49.6	1.0
CAVERNDALE CF 456 RR2Y/STSn	65.1	59.7	51.0	1.0
MYCOGEN SEEDS 5N423R2	65.1	61.0	51.2	1.0
SYNGENTA S40-N2	64.8		50.0	1.0
DYNA-GRO S40RY25	64.5		50.7	1.0

continued

**Table 10. (continued)**

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>		TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14		
REV <sup>®</sup> 44A15 <sup>TM</sup>	64.5		51.3	1.3
SEED CONSULTANTS SCS 9443RR <sup>TM</sup>	64.4	61.1	49.8	1.0
UNISOUTH GENETICS USG 74A33R	64.4	61.5	50.7	1.0
HALO 4:40	64.3	58.9	49.8	1.0
WARREN SEED DS 4340 R2Y	64.0	64.4	51.5	1.0
MYCOGEN SEEDS 5N431R2	64.0	59.7	51.1	1.0
L&M GLICK 412 R2Y	63.7	64.9	51.5	1.3
PIONEER P45T11	63.7		51.0	1.0
STEYER 4002R2	63.6		49.3	1.0
ASGROW AG4531	63.4		52.2	1.0
SEED CONSULTANTS SCS 9434RR <sup>TM</sup>	63.1	63.4	50.7	1.0
UNISOUTH GENETICS USG 74F24RS	63.1		50.5	1.7
ASGROW AG4034	63.0		51.0	1.0
SOUTHERN STATES LL 423N	62.9	59.1	49.1	1.0
PROGENY 4440 RY	62.7		49.8	1.3
SOUTHERN STATES SS 4514N R2	62.7		51.5	1.0
CHANNEL 4407R2/STS	62.6		50.7	1.3
REV <sup>®</sup> 42A65 <sup>TM</sup>	62.6		49.6	1.0
PROGENY 4510 RYS	62.4	58.0	52.2	1.0
GREAT LAKES HYBRIDS GL4209R2	62.1	59.0	50.5	1.0
SEED CONSULTANTS SCS 9435R2 <sup>TM</sup>	62.1		51.4	1.3
UNISOUTH GENETICS USG 74F53R	61.9		52.3	2.0
CAVERNDALE CF 425 LLn	61.8	57.5	50.2	1.0
SOUTHERN STATES SS 4312N R2	61.2	62.3	51.1	1.0
STINE 42RD02	61.1	55.9	49.4	1.0
STINE 42LD02	61.0		48.7	1.0
BECK 423NL	60.9	57.1	48.9	1.0
WARREN SEED DS 4330 R2Y	60.5	60.3	51.0	1.3
SOUTHERN STATES SS 4114N R2	60.5		50.1	1.0
WARREN SEED DST 40-001 R2Y	60.4		50.7	1.3
ASGROW AG4433	60.2	57.9	51.0	1.0
STEYER 4401R2	60.2	61.1	49.6	1.0
ASGROW AG4534	60.0	57.4	50.6	1.3
ASGROW AG4232	59.8	62.9	52.2	2.0
UNIVERSITY OF MISSOURI S10-11227	59.8		50.5	1.3
CHANNEL 4508R2/SR	59.8		50.9	1.3
SYNGENTA S45-V8	59.8	57.0	50.3	1.3
PROGENY 4560 LL	59.7	56.9	50.3	1.0
STEYER 4501R2	59.1		50.7	1.0
HALO X440	59.0		49.1	1.0
ARMOR 43-R43	58.4	53.9	50.9	2.0
ARMOR AX4430	58.4		50.8	1.0
DYNA-GRO S43RY95	58.1		51.1	1.7
STEWART 4412R2	58.0	51.7	49.7	1.0
ARMOR AX4440	57.6		52.0	2.0
ARMOR AX4410	57.4		50.7	1.0
SYNGENTA S43-K1	56.9	58.3	51.1	2.7
CZ 4181 RY	56.8		50.3	1.7
STEWART 4514R2	56.6	54.3	49.4	1.0
SYNGENTA S41-J6	55.7	52.3	49.5	1.3
PFISTER 43R29	54.4	55.1	50.5	1.0
<b>GROUP IV EARLY AVERAGE</b>	<b>62.6</b>	<b>59.1</b>	<b>50.7</b>	<b>1.2</b>
LSD (0.10)	4.1	3.1	1.3	
C.V.	4.8	5.4	1.9	
<b>MATURITY GROUP IV LATE (relative MG 4.6-4.9)</b>				
PIONEER P46T21R	67.0	60.6	51.4	1.0
PIONEER P47T36R	65.3	65.3	51.6	1.0
STEYER 4802R2	64.6	57.7	50.1	1.0
HS 47A42	64.5		50.5	1.0
STINE 48RD00	64.0	59.4	49.1	1.0
BECK XL <sup>®</sup> 493R4 <sup>TM</sup>	63.8		50.7	1.3
HKB RY4620	63.8	63.8	50.0	1.0
ASGROW AG4933	63.7	65.4	50.9	1.3
BECK XL <sup>®</sup> 485R2 <sup>TM</sup>	63.6		50.0	1.7
REV <sup>®</sup> 49A55 <sup>TM</sup>	63.6		50.6	1.7
HALO X448	63.6		50.0	1.0
CAVERNDALE CF 479 LLn	63.6		49.9	1.0
LG SEEDS C4919R2	63.6		50.1	1.3
STEYER 4702R2	62.9	67.7	49.9	1.0
PIONEER P49T97R	62.7	61.3	50.4	1.0
SOUTHERN STATES SS 4714NS R2	62.7		50.2	1.0
BECK XL <sup>®</sup> 465R4 <sup>TM</sup>	62.5		50.0	1.0
WARREN SEED DS 4633 R2Y	62.2	64.0	50.3	2.0
HS 48A22	62.2		50.0	1.3
ARMOR 46-R65	61.8		50.2	1.3
LG SEEDS C4780R2	61.8	62.5	50.4	1.3
SYNGENTA S47-K5	61.7		49.8	1.0
ARMOR AX4480	61.6		50.6	1.0
ARMOR AX4471	61.4		50.6	1.3
SOUTHERN STATES SS 4725NS R2	61.3	59.5	50.4	1.7
DYNA-GRO S47RY13	61.2	62.0	50.4	1.0

continued

Table 10. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>		TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14		
ASGROW AG4934	61.1	61.4	50.4	1.0
REV <sup>®</sup> 47R34 <sup>™</sup>	61.0	52.1	50.5	1.7
REV <sup>®</sup> 49R94 <sup>™</sup>	61.0	59.9	50.3	1.0
STEYER 4602R2	60.9		49.3	1.3
ASGROW AG4835	60.5		50.8	2.0
ASGROW AG4632	60.4	<b>70.7</b>	50.3	1.7
PFISTER 46R25	60.3		49.9	1.3
MYCOGEN SEEDS 5N478R2	60.3	61.7	50.1	2.3
CAVERNDALE CF 472 RR2Y/STS <sub>n</sub>	60.2		50.8	1.0
HALO 4:94	60.1	54.7	51.5	1.3
SYNGENTA 546-L2	59.9	59.9	49.9	1.7
SEED CONSULTANTS SCS 9474RR <sup>™</sup>	59.7	58.4	50.4	1.0
ASGROW AG4831	59.7	64.2	50.1	1.0
PROGENY 4819 LL	59.6	60.0	49.8	1.0
HBK RY4721	59.6	64.9	50.7	2.0
SYNGENTA 549-F8	59.5	55.7	51.3	1.0
DYNA-GRO 548R553	59.4	58.8	49.8	1.0
DYNA-GRO 546RY85	59.4		49.8	1.7
LG SEEDS C4696R2	59.2		50.2	2.0
REV <sup>®</sup> 49A14 <sup>™</sup>	59.1		50.2	1.7
ARMOR 48-R66	59.0	62.6	49.5	1.3
REV <sup>®</sup> 48R44 <sup>™</sup>	58.7	64.8	50.3	1.0
ARMOR 49-R56	58.7	59.3	50.0	1.3
ARMOR AX4490	58.7		50.2	1.3
PROGENY 4747 RY	58.7	61.3	50.0	1.0
PIONEER P48T53R	58.6	59.9	50.4	1.0
PROGENY 4788 RY	58.6		50.1	1.3
GREAT LAKES HYBRIDS GL4729R2	58.6	63.0	50.1	1.7
SOUTHERN STATES LL 473N	58.5	59.9	49.6	1.0
PROGENY 4850 RYS	58.5	64.4	50.6	1.0
REV <sup>®</sup> 46R64 <sup>™</sup>	58.4	55.5	49.5	2.0
HS 49A42	58.3		50.2	1.3
DYNA-GRO 549RY25	58.1		50.6	1.3
HBK LL4653	58.1		50.4	1.3
PROGENY 4613 RYS	58.0	60.1	50.1	1.7
CAVERNDALE CF 485 LL <sub>n</sub>	58.0	58.5	49.5	1.0
DYNA-GRO SX14247R	58.0		50.3	1.3
BECK 483NL	57.9	59.8	49.3	1.0
REV <sup>®</sup> 47R53 <sup>™</sup>	57.5	56.3	50.3	1.0
PROGENY 4900 RY	57.5	50.8	49.9	1.0
HBK LL4950	57.4	60.6	50.6	1.3
ARMOR X48C	57.2	60.5	50.4	2.0
WARREN SEED DS 4850 R2Y/STS	57.1	61.5	49.9	1.7
SOUTHERN STATES SS 4917N R2	57.0	49.3	49.6	1.0
SOUTHERN STATES SS 4913N R2	56.8	59.9	50.3	1.3
REV <sup>®</sup> 49A75 <sup>™</sup>	56.4		50.7	1.3
ARMOR X49C	56.4	61.5	50.6	2.0
PROGENY 4930 LL	56.2	61.0	50.0	1.0
CAVERNDALE CF 486 RR2Y/STS <sub>n</sub>	56.1	60.6	49.6	1.3
SEED CONSULTANTS SCS 9494RR <sup>™</sup>	56.1	56.7	51.2	1.0
SOUTHERN STATES SS 4700 R2-STS	55.8	57.3	49.5	1.0
CZ 4959 RY	55.7		50.9	1.0
HALO 4:76	55.7		49.2	1.0
PROGENY 4620 LLS	55.3		51.9	1.3
HALO 4:95	55.3	57.8	50.1	1.0
PFISTER 49R22	55.0		50.0	1.7
ARMOR X47C	55.0	59.4	51.5	1.0
ASGROW AG4832	54.8	58.3	50.1	1.0
STINE 46LD02	54.6		49.6	1.0
ARMOR X447C	54.4		49.7	1.0
ARMOR 47-R13	54.2	65.5	50.5	1.3
REV <sup>®</sup> 48R22 <sup>™</sup>	53.3	54.4	50.2	1.3
PROGENY 4928 LL	53.2	53.8	<b>52.5</b>	1.7
CAVERNDALE CF 496 RR2Y <sub>n</sub>	53.1	58.0	50.5	1.0
UNIVERSITY OF ARKANSAS R09-4571	52.2		50.5	1.3
HBK LL4650	51.7		50.0	1.0
HBK LL4953	51.6		49.9	1.0
HBK LL4850	51.6	58.5	49.9	1.3
CAVERNDALE CF 469 LL/STS <sub>n</sub>	51.6	53.0	51.7	2.0
HALO 4:97	51.6	56.0	51.2	2.0
UNIVERSITY OF TENNESSEE ELLIS	50.6		50.3	2.3
UNIVERSITY OF ARKANSAS R08-2797	50.1		49.5	1.0
MYCOGEN SEEDS 5N479R2	49.6	55.7	49.7	1.3
R05-3239	48.9		51.9	2.3
SYNGENTA 548-P4	48.3		50.5	1.3
HALO X449	46.6		<b>51.8</b>	1.3
PENNYRILE (long term check-released 1987)	42.9	44.2	49.0	1.0
ARMOR 49-C3	42.0	49.2	<b>52.5</b>	4.0
<b>GROUP IV LATE AVERAGE</b>	<b>58.0</b>	<b>59.4</b>	<b>50.3</b>	<b>1.3</b>
LSD (0.10)	4.5	4.0	0.8	
C.V.	5.7	7.1	1.1	

Table 10. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>		TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14		
<b>MATURITY GROUP V (relative MG 5.0-5.9)</b>				
HALO X451	<b>71.4</b>		55.4	1.0
DYNA-GRO S51RY45	66.8		56.1	1.0
CZ 5150 LL	64.6		55.1	1.0
ARMOR AX4500	64.5		55.0	1.7
PIONEER P50T64R	62.3		56.1	1.0
REV <sup>®</sup> 51R53 <sup>™</sup>	60.9	61.4	56.1	1.0
ARMOR 50-R44	60.6	60.4	55.4	1.0
STEYER 5101R2	60.2	51.4	55.8	1.3
HALO 5:01-5	58.6	<b>62.2</b>	56.1	1.0
BECK 522L4	57.5	58.0	54.5	1.0
UNIVERSITY OF ARKANSAS OSAGE	56.9	54.1	55.9	1.7
HALO 5:45	56.7	50.0	56.4	1.7
HALO X452	56.4		56.5	1.7
REV <sup>®</sup> 52R74 <sup>™</sup>	55.8	53.8	54.5	1.3
STEYER 5301R2	55.7		55.2	1.0
HALO 5:25	55.7		55.2	2.0
HALO 5:26	53.6	50.1	55.2	2.3
REV <sup>®</sup> 53R23 <sup>™</sup>	52.6	55.5	54.8	1.7
ARMOR AX4520	52.6		55.0	3.3
ESSEX (long term check-released 1974)	51.6	47.7	54.8	2.3
REV <sup>®</sup> 54R84 <sup>™</sup>	51.3	53.7	56.5	4.3
REV <sup>®</sup> 55R53 <sup>™</sup>	51.0	50.6	55.3	2.3
BECK 505L4	50.2		<b>57.4</b>	2.0
UNIVERSITY OF ARKANSAS OZARK	50.1	51.9	56.9	3.7
UNIVERSITY OF ARKANSAS UA5612	48.0	55.2	55.7	5.0
UNIVERSITY OF ARKANSAS UA5213C	48.0	54.8	56.5	5.0
EXP USDA-ARS JTN-5110	46.7	48.7	56.8	4.7
MYCOGEN SEEDS X54522NR2	46.7		55.3	4.0
UNIVERSITY OF ARKANSAS R05-374	45.9		54.8	3.7
MYCOGEN SEEDS 5N540R2	45.9	45.5	54.9	2.3
REV <sup>®</sup> 56A54 <sup>™</sup>	45.8		55.5	4.0
REV <sup>®</sup> 52A94 <sup>™</sup>	45.4		55.9	4.0
UNIVERSITY OF ARKANSAS R10-130RY	44.4		55.5	4.0
UNIVERSITY OF ARKANSAS R04-1268RR	42.0	47.2	56.3	4.0
PFISTER 52R26	41.8		55.7	2.0
UNIVERSITY OF ARKANSAS R04-1250RR	41.3	50.8	55.9	2.7
<b>GROUP V AVERAGE</b>	<b>53.3</b>	<b>53.2</b>	<b>55.7</b>	<b>2.4</b>
LSD (0.10)	4.5	2.9	1.1	
C.V.	6.2	5.6	1.5	

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	Hardin County
Soil type	Crider silt loam, 2 to 6% slopes
Previous crop	Soybean (wheat cover crop)
Soil test	N/A
Fertilizer/lime applied	04/25: 36-92-80
Agricultural practice	No-till
Pre-planting treatments	05/20: Authority XL 5 oz/acre, Metribuser 25 3 oz/acre, Salvo 12 oz/acre, Roundup WeatherMax 28 oz/acre
Planting date	06/06
Post-planting treatments	06/26: First Rate 0.3 oz/acre, Select Max 16 oz/acre, Reflex 24 oz/acre
Harvest dates	07/28: Glyphosate 40 oz/acre on roundup-ready varieties only
50% chance of killing frost	MG II, III, and IV Early: 10/22, MG IV Late: 11/15, MG V: 11/14
	10/16

**Precipitation and Temperature History.**

	Total Monthly Precipitation (in.)	Temperature (F°)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	2.97	41.6	74.7	11.7
April	7.18	57.4	82.7	27.4
May	4.51	66.1	86.3	39.2
June	2.34	74.6	92.2	53.1
July	4.52	71.9	92.3	50.8
August	5.59	74.5	89.6	54.5
September	0.18	67.7	89.4	40.9
October	3.77	56.9	87.5	29.9
November (11/01-15)	0.45	41.1	66.0	17.8

continued



Table 11. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14	2012-14		
REV <sup>®</sup> 49A14 <sup>™</sup>	62.0			49.5	1.0
ARMOR X47C	61.9	61.5		51.9	1.0
SOUTHERN STATES SS 4714NS R2	61.8			51.9	1.0
ASGROW AG4632	61.8	59.7	60.6	49.7	1.0
HBK LL4850	61.7	58.1		50.6	1.0
ARMOR 48-R66	61.6	55.7		50.6	1.0
ARMOR X48C	61.5	53.2		51.3	1.0
ASGROW AG4831	61.2	60.8	61.6	51.1	1.0
ASGROW AG4835	61.0			53.2	1.0
ASGROW AG4934	60.9	57.4		50.6	1.0
ARMOR 49-R56	60.9	66.0		49.4	1.0
LG SEEDS C4696R2	60.3			49.7	1.0
DYNA-GRO S49RY25	60.3			50.7	1.0
HS 47A42	60.2			50.4	1.0
ARMOR 49-C3	60.1	56.2		48.3	4.0
R05-3239	60.0			52.5	1.3
PROGENY 4850 RYS	59.7	63.8	61.6	52.7	1.0
CAVERNDAL CF 486 RR2Y/STS <sub>n</sub>	59.4	58.5	61.9	51.1	1.0
CAVERNDAL CF 472 RR2Y/STS <sub>n</sub>	59.4			50.7	1.0
REV <sup>®</sup> 49A75 <sup>™</sup>	59.3			51.4	1.0
PIONEER P46T21R	59.2	59.0		50.6	1.0
PROGENY 4747 RY	58.9	55.1	55.5	50.0	1.3
PROGENY 4819 LL	58.9	56.2	54.9	51.5	1.0
PIONEER P48T53R	58.9	60.7		49.2	1.0
UNIVERSITY OF TENNESSEE ELLIS	58.7			48.2	1.0
SYNGENTA S47-K5	58.7			50.8	1.0
STINE 48RD00	58.5	61.8		51.3	1.0
REV <sup>®</sup> 47R53 <sup>™</sup>	58.5	63.5	59.3	49.7	1.0
HBK RY4620	58.4	67.6	65.7	49.5	1.0
ARMOR X49C	58.4	59.6		51.0	1.0
BX 4959 RY	58.3			52.3	1.0
ARMOR X447C	58.2			50.5	1.0
HALO 476	58.2			49.5	1.0
HBK LL4653	58.2			49.1	1.0
SYNGENTA S48-P4	58.1			50.3	1.0
REV <sup>®</sup> 48R22 <sup>™</sup>	58.0	53.0	53.9	50.5	1.0
SOUTHERN STATES SS 4917N R2	57.8	59.8		52.5	1.0
SOUTHERN STATES LL 473N	57.7	53.5		50.7	1.0
DYNA-GRO S47RY13	57.4	61.0	59.2	49.4	1.0
CAVERNDAL CF 469 LL/STS <sub>n</sub>	57.1	55.5		53.5	1.0
PFISTER 46R25	56.7			51.4	1.0
HALO X449	56.6			52.2	1.0
SYNGENTA S49-F8	56.4	62.0	61.9	50.5	1.0
SEED CONSULTANTS SCS 9474RR <sup>™</sup>	56.3	58.9		50.3	1.0
MYCOGEN SEEDS 5N479R2	56.1	60.2		52.5	1.0
PROGENY 4620 LLS	56.0			51.5	1.0
PIONEER P47T36R	55.8	56.9		50.4	1.0
HS 48A22	55.7			51.3	1.0
BECK XL <sup>®</sup> 485R2 <sup>™</sup> **	55.6			50.2	1.0
SYNGENTA S46-L2	55.5	48.9		50.1	1.0
UNIVERSITY OF ARKANSAS R09-4571	55.3			50.8	1.0
DYNA-GRO SX14247R	55.3			50.7	1.0
CAVERNDAL CF 485 LL <sub>n</sub>	55.2	55.2	51.5	50.9	1.0
REV <sup>®</sup> 48R44 <sup>™</sup>	55.1	59.7		50.7	1.0
ARMOR AX4480	55.1			50.5	1.0
STEYER 4602R2	55.0			50.2	1.0
PROGENY 4613 RYS	54.7	63.9		50.3	1.0
PROGENY 4788 RY	54.7			49.9	1.0
REV <sup>®</sup> 47R34 <sup>™</sup>	54.7	58.6		50.3	1.0
MYCOGEN SEEDS 5N478R2	54.7	53.6		51.6	1.0
SOUTHERN STATES SS 4913N R2	54.2	51.4		51.6	1.0
ARMOR AX4471	54.2			50.6	1.0
ASGROW AG4933	53.6	60.5	61.8	51.1	1.0
PROGENY 4928 LL	53.5	50.4	53.6	53.0	1.0
SEED CONSULTANTS SCS 9494RR <sup>™</sup>	53.5	56.7		51.9	1.0
BECK 483NL	53.3	50.6		48.7	1.0
UNIVERSITY OF ARKANSAS R08-2797	53.2			50.9	1.0
HBK RY4721	52.8	56.3	58.1	51.6	1.0
REV <sup>®</sup> 46R64 <sup>™</sup>	52.3	56.6		50.1	1.0
STINE 46LD02	51.5			50.3	1.0
HBK LL4650	51.5			44.6	1.0
REV <sup>®</sup> 49A55 <sup>™</sup>	51.3			50.1	1.0
PENNYRILE (long term check-released 1987)	50.8	54.7	51.8	49.1	1.0
<b>GROUP IV LATE AVERAGE</b>	<b>59.9</b>	<b>58.9</b>	<b>59.9</b>	<b>50.5</b>	<b>1.0</b>
<b>LSD (0.10)</b>	4.6	4.4	3.8	3.0	
<b>C.V.</b>	5.8	7.8	8.4	4.3	

**MATURITY GROUP V (relative MG 5.0-5.9)**

BECK 522L4	72.9	63.4		51.2	1.0
CZ 5150 LL	72.7			51.3	1.0
HALO X452	70.4			51.2	1.0
HALO X451	70.0			51.2	1.0
STEYER 5301R2	68.3			51.4	1.0

continued

Table 11. (continued)

BRAND VARIETY	SEED YIELD (BU/AC) <sup>A</sup>			TEST WEIGHT 2014 <sup>A</sup>	LODGING 2014
	2014	2013-14	2012-14		
EXP USDA-ARS JTN-5110	67.2	58.9	60.2	52.3	3.7
HALO 5:45	67.0	62.8	61.0	51.3	1.0
MYCOGEN SEEDS X54522NR2	66.5			51.4	3.0
UNIVERSITY OF ARKANSAS R10-130RY	66.3			51.0	3.0
MYCOGEN SEEDS 5N540R2	66.2	59.0		51.6	2.7
DYNA-GRO S51RY45	66.2			50.5	1.0
UNIVERSITY OF ARKANSAS UA5612	66.2	62.9	61.2	52.3	4.3
BECK 505L4	65.2			53.3	1.3
UNIVERSITY OF ARKANSAS OSAGE	64.9	55.2	58.1	51.1	1.7
ARMOR AX4500	64.9			51.2	2.0
HALO 5:01-5	64.9	57.6	60.1	51.2	1.0
HALO 5:26	63.6	61.3	65.9	50.9	2.7
ARMOR 50-R44	63.4	64.7		51.2	1.0
UNIVERSITY OF ARKANSAS R04-1250RR	63.2	57.3		51.0	3.0
UNIVERSITY OF ARKANSAS R04-1268RR	62.7	55.2		52.2	3.7
REV <sup>®</sup> 51R53 <sup>™</sup>	62.7	59.6	57.5	52.1	1.0
HALO 5:25	62.5			51.3	1.7
REV <sup>®</sup> 52A94 <sup>™</sup>	62.5			51.6	4.3
UNIVERSITY OF ARKANSAS R05-374	62.4			50.8	3.7
STEYER 5101R2	62.2	60.4		51.4	1.0
REV <sup>®</sup> 53R23 <sup>™</sup>	62.2	56.2	58.5	50.7	1.3
UNIVERSITY OF ARKANSAS OZARK	60.6	56.4	58.4	52.3	2.3
PIONEER P50T64R	60.2			50.2	1.0
REV <sup>®</sup> 55R53 <sup>™</sup>	60.0	51.8	54.3	51.0	3.3
REV <sup>®</sup> 54R84 <sup>™</sup>	59.8	56.7	56.0	53.7	5.0
REV <sup>®</sup> 56A54 <sup>™</sup>	59.8			50.6	4.3
PFISTER 52R26	58.4			51.2	2.3
REV <sup>®</sup> 52R74 <sup>™</sup>	58.2	54.1	55.5	51.5	1.3
ARMOR AX4520	58.2			51.2	2.7
UNIVERSITY OF ARKANSAS UA5213C	57.5	54.2		52.7	5.0
ESSEX (long term check-released 1974)	54.8	52.9	52.9	50.8	1.3
<b>AVERAGE GROUP V</b>	<b>63.7</b>	<b>58.0</b>	<b>58.4</b>	<b>51.4</b>	<b>2.3</b>
<b>LSD (0.10)</b>	5.4	3.7	3.2	0.9	
<b>C.V.</b>	6.2	6.5	6.8	1.3	

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**

Location	Simpson County
Soil type	Mountview silt loam, 2 to 6% slopes
Previous crop	Corn
Soil test	N/A
Fertilizer/lime applied	None
Agricultural practice	No-till
Pre-planting treatments	N/A
Planting date	06/04
Post-planting treatments	06/25: Select Max 16 oz/acre, Reflex 24 oz/acre
Harvest dates	MG II and III: 10/05, MG IV Early and Late: 10/19, MG V: 11/09
50% chance of killing frost	10/24

**Precipitation and Temperature History.**

	Total Monthly Precipitation (in.)	Temperature (F°)		
		Average Monthly	Highest Recorded	Lowest Recorded
March	4.14	43.3	75.7	13.0
April	7.34	58.4	80.9	29.0
May	2.41	68.7	87.7	43.8
June	2.43	75.8	92.1	53.7
July	1.50	73.5	94.7	51.7
August	7.72	77.1	95.0	54.1
September	0.76	69.8	90.4	45.5
October	6.96	59.4	88.3	33.9
November (11/01-09)	1.56	47.0	69.2	24.6



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