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

PR-689

# 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

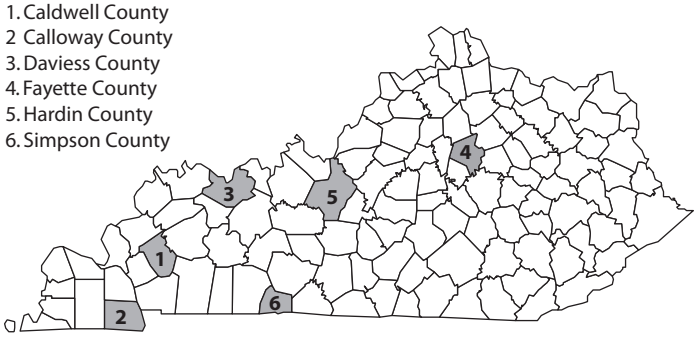


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**Table 1. Locations, Planting Dates and Harvest Dates for the 2014 Kentucky Soybean Variety Performance Tests.**

| 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 Philips, 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 $ft^3$ of grain). Weather and production practices may cause variations in grain density and quality. Test weight is a general indicator of grain quality. Higher test weight usually means higher grain quality. Test weights decrease as grain deteriorates. Good quality grain at low moisture content (13%-15%) is expected to have a good test weight. The electronic weight and moisture monitor described in the section above also recorded the test weight for the grain harvested from each plot. The test weights were adjusted to 13% moisture and were analyzed with the Agrobase 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 Agrobase GEN II statistical software.

## Interpretation

An important step in profitable soybean production is selecting good quality seed of the best varieties for each management system. The Kentucky Soybean 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.

**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 |

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 *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 dewpoints. 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 dewpoints 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, www.nws.noaa.gov, and wwwagwx.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

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

- Royce McCormick in Daviess Co., Steve and Drew Snider in Simpson Co. (S&B Farms), and Steve Wooden in Hardin Co. (Wooden Farms) for hosting the 2014 tests.
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- The farm crew at the UK Experiment Station in Princeton, KY, for their help with agronomic management and harvest at the Calloway Co. location.
- 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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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

| | | |
|---|---|---|
| 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

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bwelty@kywimax.com

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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**
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800 N. Lindbergh Avenue, St. Louis, MO 63167
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

| | |
|---|---|
| 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 | |

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michael.schonauer@cpsagu.com

| | |
|---|---|
| DYNA-GRO 32RY39 | DYNA-GRO S46RY85 |
| DYNA-GRO 39RY43 | DYNA-GRO S47RY13 |
| DYNA-GRO S39RY65 | DYNA-GRO S48RS53 |
| DYNA-GRO S40RY25 | DYNA-GRO S49RY25 |
| DYNA-GRO S42RS03 | DYNA-GRO S51RY45 |
| DYNA-GRO S43RY95 | DYNA-GRO SX14247R |

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9915 W M-21, Ovid, MI 48866
Phil.brunner@cpsagu.com

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GREAT LAKES HYBRIDS GL4209R2
GREAT LAKES HYBRIDS GL4729R2

**Growmark**
Ken Martin .....309-660-5576
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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

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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-STS
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@terralseed.com
Marty Hale.....318-231-8800
mhale@teraalseed.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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tlhart@uark.edu

UNIVERSITY OF ARKANSAS OSAGE
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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tpfeiffer@uky.edu

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

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clubbm@missouri.edu; shannong@missouri.edu

UNIVERSITY OF MISSOURI S10-11227

**University of Tennessee**
Vince Pantalone .....865-974-8801
Department of Plant Sciences, 24 31 Joe Johnson Drive, Knoxville, TN 37996-4561
vpantalo@utk.edu

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[A].**

| Variety/ Brand Name | Type | Relative Maturity Group | Soybean Cyst Nematode Resistance | *Phytophtora sojae*[B,C] Resistance Gene Rps | *Phytophtora sojae*[B,C] Field Tolerance | Sudden Death Syndrome | Soybean Mosaic Virus | Stem Canker | Other Reported Resistance | Seed Treatment(s) |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | *Phytophtora sojae*[B,C] Resistance Gene Rps | *Phytophtora sojae*[B,C] Field Tolerance | Sudden Death Syndrome | Soybean Mosaic Virus | Stem Canker | Other Reported Resistance | Seed Treatment(s) |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | 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 | *Phytophtora sojae*[B,C] Resistance Gene Rps | *Phytophtora sojae*[B,C] Field Tolerance | Sudden Death Syndrome | Soybean Mosaic Virus | Stem Canker | Other Reported Resistance | Seed Treatment(s) |
|---|---|---|---|---|---|---|---|---|---|---|
| REV® 47R53™ | RR | 4.7 | 3, 14 | 1k | MT | T | | MR | | 5 |
| REV® 48R22™ | RR | 4.8 | 3, 14 | 1k | MR | MR | | MR | | 5 |
| REV® 48R44™ | RR | 4.8 | 3, 14 | 1k | T | MR | | R | | 5 |
| REV® 49A14™ | RR2Y/STS | 4.9 | 3 | 1c | T | MR | | | | 5 |
| REV® 49A55™ | RR | 4.9 | 3, 14 | | T | MT | | MR | | 5 |
| REV® 49A75™ | RR | 4.9 | | 1k | T | T | | R | | 5 |
| REV® 49R94™ | RR | 4.9 | 3, 14 | 1k | MT | MR | | | | 5 |
| REV® 51R53™ | RR | 5.1 | 3, 14 | 1k | T | MR | | MR | | 5 |
| REV® 52A94™ | RR2Y/STS | 5.2 | 3, 14 | | MR | | | R | | 5 |
| REV® 52R74™ | RR | 5.2 | 3, 14 | | MR | MR | | MR | | 5 |
| REV® 53R23™ | RR | 5.3 | 3, 14 | 1k | MR | R | | MR | | 5 |
| REV® 54R84™ | RR | 5.4 | 3, 14 | 1k | MR | MR | | MR | | 5 |
| REV® 55R53™ | RR | 5.5 | 3, 14 | 1k | R | MR | | MR | | 5 |
| REV® 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-STS | 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 |

*continued*

**Table 3.** *(continued)*

| Variety/ Brand Name | Type | Relative Maturity Group | Soybean Cyst Nematode Resistance | *Phytophtora sojae*[B,C] Resistance Gene Rps | *Phytophtora sojae*[B,C] Field Tolerance | Sudden Death Syndrome | Soybean Mosaic Virus | Stem Canker | Other Reported Resistance | Seed Treatment(s) |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 Phytophtora sojae so far identified in Kentucky can be controlled with varieties with Rps 1c or 1k. Race-specific resistant is highly effective, but a proper match between pathogen race and variety is essential. Field tolerance is a lower level of protection to the fungus that will provide good (not excellent) control against all races. Seed and young seedlings of tolerant varieties must be protected with an appropriate fungicide since field tolerance develops after early seedling growth stages.*

*C Blank spaces = no data provided by seed company or data unknown.*

*S = suscepible, MS = moderately susceptible, MT = moderately tolerant, T = tolerant, MR = moderately resistant, R = resistant*

*RR Roundup Ready Variety (RR1 first generation, original trait, released in 1996)*

*RR2Y Introduced in 2009, Roundup Ready 2 Yield soybean variety*

*LL Introdced in 2009, Liberty Link is an ignite (glufosate ammonium) herbicide tolerant soybean variety*

*STS Introduced in 1994, STS is a sulfonylurea herbicide tolerant soybean variety*

*SR Sulfonylurea Resistant Variety*

*CONV Variety is a conventional entry*

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

*P Public variety*

**Table 4. Seed Treatments.**

| Code | Name (treatment combination) | Treatment | Chemical Class/Use | LD50 Oral/ Derm[A] | LC50[B] |
|---|---|---|---|---|---|
| 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, Fluodioxinil | 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® | Thiamethoxam | systemic insecticide | 5,000/5,050 | NA |
| 10 | Gaucho | Imidacloprid | systemic insecticide | 643/2,000 | 8.1 to 10.0 - 1 hr |
| 11 | Headline | Pyraclostrobin | strobilurin fungicide | 200-500/4,000 | 3.51 - 4 hrs |
| 12 | Maxim 4FS | Fludioxonil | non-systemic fungicide | 5,050/2,020 | 3.77 - 4 hrs |
| 13 | Molybdenum | Molybdenum | stimulant (nitrogen fixing) | NA | NA |
| 14 | Soygard (1, 8) | Metalaxyl, Azoxystrobin | systemic fungicide | 5,000/2,000 | NA |
| 15 | Sure Gro™ (4, 16) | Mefenoxam, Fludioxonil, Thiram | systemic & non-systemic fungicide | NA | NA |
| 16 | Thiram | Thiram | fungicide | 3580/4000 | 2.6 - 4 hrs |
| 17 | Trilex® | Trifloxystrobin | systemic fungicide | 5,000/5,000 | 2.6 - 4 hrs |
| 18 | Trilex® 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-chitooligosaccharide | natural growth enhancer | 5,000/2,000 | NA |
| 21 | Rancona 3.8 FS | Ipconazole | systemic broad-spectrum fungicide | 5,000/slight | 2.59 - 4 hrs |
| 22 | Escalate (3, 12, 16, 10) | Mefenoxam, Fludioxonil, Thiram, Imidacloprid | systemic & non-systemic fungicide, systemic insecticide | 640/2,000 | NA |
| 23 | MetaStar™ ST | Metalaxyl | systemic fungicide | 2,900/2,000 | NA |
| 24 | Agri Star® Macho® 600 ST (10) | Imidacloprid | systemic insecticide | 4,500/2,000 | 5.0 - 4 hrs |
| 25 | Poncho® VOTiVO® | Clothiandin, *Bacillus firmus* | systemic insecticide and nematicide | 2,000/5,000 | 2.62 - 4 hrs |
| 26 | Vibrance™ | Sedaxane | fungicide | 2,975/5,050 | 2.56 - 4 hrs |
| 27 | Xemium® | Fluxapyroxad | broad spectrum fungicide | 2,000/2,000 | 5.10 - 4 hrs |
| 28 | Trilex® 2000 | Trifloxystrobin, Metalaxyl, Glycerine | systemic fungicide | 2,000/5,000 | 2.6 - 4 hrs |
| 29 | Clariva™ Complete Beans | Pasteuria nishizawae, Mefenoxam, Thiamethoxam, Fluodioxinil, 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 Saftey Data Sheet).*

**Table 5. 2014 Kentucky Soybean Variety Performance Tests, State Summary. Recommended Table.**

| BRAND VARIETY | YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | % OIL[A,B] 2014 | 2013-14 | 2012-14 | % PROTEIN[A,B] 2014 | 2013-14 | 2012-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | | | | | N/A | | | N/A |
| PIONEER P28T33R | **54.8** | | N/A | 49.6 | 1.0 | 19.9 | | | 38.5 | | |
| 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 | | |
| **GROUP II AVERAGE** | **51.0** | **54.5** | | **49.2** | **1.1** | **19.7** | **18.7** | | **39.3** | **38.8** | |
| **LSD (0.10)** | 3.6 | | | 0.8 | | 0.4 | | | 0.5 | | |
| **C.V.** | 5.2 | | | 2.8 | | 1.3 | | | 0.8 | | |
| **MATURITY GROUP III (relative MG 3.0-3.9)[C]** | | | | | | | | | | | |
| 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 | | |
| **GROUP III AVEAGE** | **60.2** | **61.9** | **56.9** | **50.6** | **1.1** | **19.0** | **19.5** | **20.2** | **38.3** | **37.4** | **36.6** |
| **LSD (0.10)** | 5.4 | 4.4 | 3.3 | 0.9 | | 0.3 | 0.2 | 0.2 | 0.4 | 0.3 | 0.2 |
| **C.V.** | 6.7 | 7.6 | 7.2 | 3.3 | | 1.3 | 1.3 | 1.3 | 0.8 | 0.9 | 0.8 |
| **MATURITY GROUP IV EARLY (relative MG 4.0-4.5)[D]** | | | | | | | | | | | |
| 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*

**Table 5.** *(continued)*

| BRAND VARIETY | YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | % OIL[A,B] 2014 | 2013-14 | 2012-14 | % PROTEIN[A,B] 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 4:40 | 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 |
| **GROUP IV EARLY AVERAGE** | **62.9** | **63.4** | **57.7** | **50.4** | **1.1** | **19.1** | **19.3** | **19.7** | **37.5** | **37.0** | **36.5** |
| 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 |
| **MATURITY GROUP IV LATE (relative MG 4.6-4.9)[D]** | | | | | | | | | | | |
| 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*

**Table 5.** *(continued)*

| BRAND VARIETY | YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | % OIL[A,B] 2014 | 2013-14 | 2012-14 | % PROTEIN[A,B] 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-STS | 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/STSn | 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*

**Table 5.** *(continued)*

| BRAND VARIETY | YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | % OIL[A,B] 2014 | 2013-14 | 2012-14 | % PROTEIN[A,B] 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 | **52.3** | 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 | | **52.3** | 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 | **39.3** | **37.7** | **37.4** |
| **GROUP IV LATE AVERAGE** | **63.0** | **64.1** | **58.9** | **50.2** | **1.3** | **18.8** | **19.1** | **19.3** | **37.2** | **36.1** | **36.2** |
| 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 |
| **MATURITY GROUP V (relative MG 5.0-5.9)[D]** | | | | | | | | | | | |
| HALO X451 | **64.3** | | | 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 | **62.7** | | 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 | **56.4** | 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® 51R53™ | 56.3 | 59.2 | 53.9 | 51.3 | 1.0 | **19.2** | **19.5** | **19.8** | 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® 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® 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 | **38.9** | **38.5** |
| REV® 55R53™ | 54.2 | 55.8 | 52.5 | 50.5 | 3.0 | 18.0 | 18.3 | 18.5 | 38.1 | 37.6 | 37.3 |
| REV® 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 | **39.8** | 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® 54R84™ | 53.1 | 56.0 | 52.3 | **52.9** | 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® 56A54™ | 48.4 | | | 51.0 | 3.7 | 16.5 | | | 37.4 | | |
| **GROUP V AVERAGE** | **55.4** | **57.6** | **53.1** | **51.1** | **2.3** | **18.1** | **18.5** | **18.7** | **37.9** | **37.3** | **37.3** |
| 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. 2014 Kentucky Soybean Variety Performance Tests, Caldwell County.**

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | | |
| PIONEER P28T33R | **60.0** | | N/A | 51.8 | 1.0 |
| STEYER 2805R2 | 58.2 | | | **52.7** | 1.0 |
| PIONEER 92Y83 | 56.7 | | | 51.0 | 1.0 |
| LG SEEDS C2835R2 | 54.6 | | | 51.7 | 1.0 |
| CAVERNDALE CF 286 RR2Y/STSn | 53.6 | **60.4** | | 52.4 | 1.0 |
| SYNGENTA S27-J7 | 49.0 | | | 48.7 | 1.3 |
| STEYER 2702R2 | 47.9 | | | 50.7 | 1.3 |
| SYNGENTA S29-G4 | 43.1 | | | 48.6 | 1.0 |
| SYNGENTA S28-A2 | 42.9 | | | 50.3 | 1.3 |
| **GROUP II AVERAGE** | **51.8** | **60.4** | | **50.9** | **1.1** |
| **LSD (0.10)** | 4.6 | | | 2.2 | |
| **C.V.** | 6.2 | | | 3.0 | |
| **MATURITY GROUP III (relative MG 3.0-3.9)** | | | | | |
| SOUTHERN STATES SS 3914NS R2 | **81.7** | | | 54.2 | 1.0 |
| ARMOR AX4391 | 79.0 | | | 52.7 | 1.0 |
| DYNA-GRO S39RY65 | 78.8 | | | 52.9 | 1.0 |
| SYNGENTA S39-T3 | 78.7 | | | 52.8 | 1.0 |
| PIONEER P35T58R | 77.2 | 75.5 | | 53.8 | 1.0 |
| WARREN SEED DS 3838 R2Y | 76.7 | | | 51.6 | 1.0 |
| LG SEEDS C3989R2 | 76.0 | **78.0** | **68.7** | 51.8 | 1.0 |
| SEED CONSULTANTS SCS 9363RR™ | 74.7 | 74.2 | | 52.8 | 1.0 |
| SEED CONSULTANTS SCS 9393RR™ | 74.5 | 74.4 | | 52.1 | 1.0 |
| PFISTER 39R29 | 73.3 | | | **55.1** | 1.0 |
| REV® 39A35™ | 72.9 | | | 51.3 | 1.0 |
| SEED CONSULTANTS SCS 9385RR™ | 72.6 | | | 51.5 | 1.0 |
| ASGROW AG3934 | 72.1 | 68.5 | | 52.3 | 1.0 |
| SEED CONSULTANTS SCS 9392RR™ | 72.1 | 71.0 | 67.2 | 51.1 | 1.3 |
| CZ 3841 LL | 71.8 | | | 52.7 | 1.0 |
| GREAT LAKES HYBRIDS GL3929R2 | 71.6 | | | 55.0 | 1.0 |
| DYNA-GRO 32RY39 | 71.1 | | | 53.7 | 1.0 |
| LG SEEDS C4010R2 | 70.9 | | | 53.0 | 1.0 |
| SOUTHERN STATES SS 3813N R2 | 70.7 | 72.7 | | 52.5 | 1.0 |
| MYCOGEN SEEDS 5N393R2 | 70.6 | 74.5 | | 54.0 | 1.0 |
| ASGROW AG3735 | 70.5 | | | 54.0 | 1.0 |
| CHANNEL 3707R2/STS | 70.3 | | | 51.9 | 1.0 |
| PIONEER 93Y92 | 70.2 | 72.8 | 65.1 | 51.9 | 1.0 |
| L&M GLICK 399 RY2 | 69.9 | | | 53.5 | 1.0 |
| PFISTER 35R25 | 69.0 | | | 53.2 | 1.0 |
| PFISTER 33R28 | 68.7 | | | 54.5 | 1.0 |
| STINE 38RE02 | 68.6 | | | 53.8 | 1.0 |
| UNISOUTH GENETICS USG 73P93R | 68.4 | 73.5 | | 53.1 | 1.0 |
| STEYER 3103R2 | 68.3 | | | 52.5 | 1.0 |
| STEYER 3403R2 | 66.4 | | | 52.2 | 1.0 |
| CAVERNDALE CF 380 RR2Yn | 65.9 | 64.1 | | 50.5 | 1.0 |
| ARMOR AX4310 | 65.7 | | | 50.8 | 1.0 |
| ASGROW AG3832 | 65.6 | 68.8 | 60.9 | 54.1 | 1.0 |
| PIONEER 93Y84 | 65.4 | 67.4 | 61.2 | 51.0 | 1.0 |
| STINE 37RC82 | 64.8 | | | 49.3 | 1.0 |
| ARMOR 39-R16 | 64.7 | 67.7 | 65.3 | 52.7 | 1.0 |
| ARMOR AX4390 | 63.0 | | | 47.9 | 1.0 |
| GREAT LAKES HYBRIDS GL3729R2 | 61.4 | | | 54.6 | 1.0 |
| PIONEER 93Y05 | 59.7 | | | 48.1 | 1.0 |
| **GROUP III AVERAGE** | **70.6** | **71.6** | **64.7** | **52.5** | **1.0** |
| **LSD (0.10)** | 6.1 | 5.3 | 3.9 | 3.1 | 0.1 |
| **C.V.** | 6.3 | 7.8 | 7.2 | 4.3 | 9.2 |
| **MATURITY GROUP IV EARLY (relative MG 4.0-4.5)** | | | | | |
| UNISOUTH GENETICS USG 74F24RS | **74.8** | | | 48.2 | 1.3 |
| SOUTHERN STATES LL 423N | 73.9 | 74.4 | | 48.3 | 1.0 |
| UNISOUTH GENETICS USG 74A33R | 73.3 | 57.8 | | 48.7 | 1.3 |
| ASGROW AG4533 | 72.9 | | | 48.2 | 1.0 |
| GREAT LAKES HYBRIDS GL4209R2 | 71.4 | 75.4 | | 48.0 | 1.0 |
| ARMOR 43-R43 | 71.1 | 70.7 | | 48.3 | 1.0 |
| PFISTER 43R29 | 70.9 | 73.8 | **67.7** | 48.8 | 1.0 |
| CAVERNDALE CF 426 RR2Y/STSn | 70.9 | | | 48.2 | 1.3 |
| SOUTHERN STATES SS 4514N R2 | 69.8 | | | 49.4 | 1.0 |
| REV® 44A15™ | 69.6 | | | 46.5 | 1.0 |
| WARREN SEED DS 4330 R2Y | 69.4 | 71.6 | | 49.4 | 1.0 |
| ASGROW AG4534 | 68.8 | 68.2 | | 47.2 | 1.0 |
| STEYER 4303R2 | 68.1 | | | 47.7 | 1.0 |
| STINE 43RE02 | 67.9 | | | 49.2 | 1.0 |
| MYCOGEN SEEDS 5N431R2 | 67.8 | 73.4 | | 48.7 | 1.0 |
| ASGROW AG4135 | 67.6 | | | 47.8 | 1.0 |
| PROGENY 4560 LL | 67.5 | 72.0 | | 47.7 | 1.0 |
| PIONEER 94Y23 | 67.4 | 70.1 | 61.8 | 46.7 | 1.0 |
| UNIVERSITY OF MISSOURI S10-11227 | 67.3 | | | 47.7 | 1.3 |
| SOUTHERN STATES SS 4114N R2 | 67.3 | | | 47.4 | 1.3 |
| ARMOR AX4410 | 67.2 | | | 47.9 | 1.0 |

*continued*

**Table 6.** *(continued)*

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| ARMOR AX4430 | 66.8 | | | 47.0 | 1.0 |
| DYNA-GRO S43RY95 | 66.6 | | | 48.0 | 1.7 |
| STINE 42LD02 | 66.4 | | | 47.5 | 1.0 |
| ARMOR AX4450 | 65.4 | | | 49.8 | 1.3 |
| ASGROW AG4033 | 65.4 | 69.4 | 60.2 | 48.5 | 1.0 |
| CAVERNDALE CF 456 RR2Y/STSn | 65.3 | 74.4 | | 49.1 | 1.0 |
| MYCOGEN SEEDS 5N451R2 | 65.2 | **76.5** | | 48.6 | 1.0 |
| PIONEER P45T11 | 64.4 | | | 47.5 | 1.0 |
| SOUTHERN STATES SS 4312N R2 | 64.1 | 75.2 | 63.7 | 49.6 | 1.0 |
| SEED CONSULTANTS SCS 9434RR™ | 64.1 | 74.9 | | 47.8 | 1.3 |
| STEWART 4412R2 | 64.0 | 75.4 | 64.0 | 48.0 | 1.3 |
| DYNA-GRO S42RS03 | 63.8 | | | 48.7 | 1.3 |
| LG SEEDS C4322R2 | 63.8 | | | 47.9 | 1.3 |
| BECK 423NL | 63.6 | 72.2 | | 47.8 | 1.0 |
| SYNGENTA S45-V8 | 63.5 | 73.1 | | 48.4 | 1.0 |
| HALO 4:40 | 63.4 | 69.4 | | 48.1 | 1.0 |
| UNISOUTH GENETICS USG 74F53R | 63.4 | | | 48.5 | 1.7 |
| ARMOR 44-R08 | 63.2 | 73.7 | 62.0 | 48.6 | 1.0 |
| ASGROW AG4034 | 63.2 | | | 48.9 | 1.0 |
| DYNA-GRO 39RY43 | 63.1 | 71.7 | 63.6 | 49.6 | 1.0 |
| PROGENY 4211 RY | 62.6 | 73.5 | 63.8 | 48.3 | 1.0 |
| REV® 41A05™ | 62.3 | | | 48.3 | 1.0 |
| ASGROW AG4433 | 62.1 | 69.2 | 61.1 | 48.9 | 1.0 |
| CAVERNDALE CF 425 LLn | 61.7 | 67.8 | | 48.0 | 1.3 |
| CHANNEL 4107R2 | 61.7 | | | 48.2 | 1.0 |
| STEYER 4501R2 | 61.5 | | | 48.3 | 1.0 |
| MYCOGEN SEEDS 5N423R2 | 61.4 | 64.8 | | 48.4 | 1.0 |
| SEED CONSULTANTS SCS 9435R2™ | 60.8 | | | 48.3 | 1.0 |
| REV® 42A65™ | 60.7 | | | 47.4 | 1.0 |
| L&M GLICK 412 R2Y | 60.6 | 64.9 | 55.3 | 49.2 | 1.3 |
| CZ 4181 RY | 60.2 | | | 48.4 | 1.0 |
| STEWART 4113R2 | 60.1 | 67.3 | 57.9 | 47.9 | 1.0 |
| DYNA-GRO S40RY25 | 60.1 | | | 48.5 | 1.0 |
| STEYER 4401R2 | 60.0 | 69.3 | 61.4 | 49.3 | 1.0 |
| ASGROW AG4232 | 59.7 | 68.7 | 61.1 | 47.3 | 1.7 |
| SYNGENTA S43-K1 | 59.4 | 66.6 | | 47.7 | 1.0 |
| SEED CONSULTANTS SCS 9443RR™ | 59.3 | 73.1 | | 47.5 | 1.0 |
| ARMOR AX4440 | 59.0 | | | 48.1 | 1.0 |
| CHANNEL 4508R2/SR | 58.8 | | | 49.3 | 1.0 |
| HALO X440 | 58.8 | | | 47.1 | 1.0 |
| ASGROW AG4531 | 58.5 | | | 46.6 | 1.0 |
| STEWART 4514R2 | 58.1 | 64.9 | | 48.7 | 1.0 |
| SYNGENTA S40-N2 | 58.1 | | | 47.6 | 1.3 |
| STINE 42RD02 | 57.6 | 67.3 | | 47.6 | 1.0 |
| WARREN SEED DS 4340 R2Y | 57.4 | 71.6 | 60.2 | **49.9** | 1.0 |
| WARREN SEED DST 40-001 R2Y | 56.8 | | | 48.6 | 1.0 |
| STEYER 4002R2 | 56.8 | | | 48.0 | 1.0 |
| PROGENY 4440 RY | 56.2 | | | 47.2 | 1.0 |
| PROGENY 4510 RYS | 56.2 | 68.7 | 61.6 | 47.1 | 1.3 |
| SYNGENTA S41-J6 | 56.2 | 64.4 | 53.8 | 47.7 | 1.0 |
| CHANNEL 4407R2/STS | 53.8 | | | 48.3 | 1.0 |
| **AVERAGE GROUP IV EARLY** | **63.8** | **70.4** | **61.2** | **48.2** | **1.1** |
| LSD (0.10) | 5.5 | 5.6 | 4.1 | 1.1 | |
| C.V. | 6.4 | 8.7 | 8.2 | 1.6 | |
| **MATURITY GROUP IV LATE (relative MG 4.6-4.9)** | | | | | |
| REV® 49A14™ | **77.7** | | | 47.4 | 1.7 |
| LG SEEDS C4780R2 | 77.0 | 72.4 | 64.1 | 47.8 | 1.3 |
| CAVERNDALE CF 472 RR2Y/STSn | 76.6 | | | 47.5 | 1.0 |
| GREAT LAKES HYBRIDS GL4729R2 | 76.0 | **77.1** | | 47.9 | 1.3 |
| CAVERNDALE CF 479 LLn | 75.1 | | | 47.5 | 1.3 |
| SOUTHERN STATES SS 4700 R2-STS | 74.2 | 73.1 | 64.5 | 47.4 | 1.3 |
| HS 47A42 | 74.0 | | | 48.2 | 1.3 |
| ARMOR 47-R13 | 73.6 | 76.8 | **70.0** | 48.1 | 1.7 |
| REV® 49R94™ | 73.4 | 74.1 | | 47.5 | 2.0 |
| PIONEER P48T53R | 73.3 | 65.5 | | 46.1 | 1.7 |
| WARREN SEED DS 4850 R2Y/STS | 73.2 | 73.0 | 65.5 | 47.7 | 1.3 |
| PIONEER P49T97R | 73.2 | 73.8 | | 46.7 | 1.0 |
| PROGENY 4930 LL | 72.6 | 66.6 | | 48.3 | 1.7 |
| PROGENY 4819 LL | 72.5 | 72.5 | 65.3 | 47.1 | 1.0 |
| ARMOR X447C | 72.4 | | | 47.3 | 2.3 |
| PIONEER P46T21R | 72.4 | 69.3 | | 46.7 | 1.0 |
| WARREN SEED DS 4633 R2Y | 72.2 | 71.8 | 62.2 | 47.0 | 1.3 |
| MYCOGEN SEEDS 5N479R2 | 72.1 | 70.7 | | 47.9 | 2.0 |
| PFISTER 49R22 | 72.1 | | | 47.6 | 1.0 |
| CZ 4959 RY | 71.9 | | | 48.8 | 1.0 |
| PIONEER P47T36R | 71.8 | 76.6 | | 46.7 | 1.3 |
| LG SEEDS C4919R2 | 71.7 | | | 47.5 | 1.7 |
| SYNGENTA S49-F8 | 71.5 | 72.4 | 62.9 | 47.4 | 1.3 |
| REV® 48R44™ | 71.4 | 73.7 | | 48.4 | 1.7 |
| LG SEEDS C4696R2 | 71.4 | | | 47.7 | 2.0 |
| ASGROW AG4835 | 71.2 | | | 48.5 | 1.0 |
| REV® 47R53™ | 71.0 | 74.0 | 64.2 | 46.6 | 1.7 |

*continued*

**Table 6.** *(continued)*

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| HS 48A22 | 70.8 | | | 48.1 | 1.3 |
| DYNA-GRO S46RY85 | 70.8 | | | 47.6 | 1.3 |
| DYNA-GRO S48RS53 | 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 |
| CAVERNDALE 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 |
| CAVERNDALE CF 486 RR2Y/STSn | 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 |
| CAVERNDALE CF 485 LLn | 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 |
| CAVERNDALE CF 469 LL/STSn | 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 |
| **AVERAGE GROUP LATE IV** | **67.9** | **70.2** | **62.2** | **47.6** | **1.4** |
| 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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| **MATURITY GROUP V (relative MG 5.0-5.9)** | | | | | |
| HALO X451 | **69.5** | | | 48.1 | 2.0 |
| BECK 522L4 | 67.8 | 70.4 | | 48.2 | 1.7 |
| ARMOR 50-R44 | 66.9 | **73.6** | | 48.7 | 2.0 |
| STEYER 5101R2 | 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 | **61.2** | 48.3 | 2.0 |
| REV® 53R23™ | 59.6 | 60.9 | 49.1 | 46.0 | 2.3 |
| UNIVERSITY OF ARKANSAS OZARK | 59.4 | 64.9 | 58.0 | 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 | 49.8 | 5.0 |
| MYCOGEN SEEDS X54522NR2 | 57.0 | | | 48.1 | 4.0 |
| STEYER 5301R2 | 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 | 58.7 | 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 | 58.1 | 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 | | | **51.0** | 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 |
| **GROUP V AVERAGE** | **58.1** | **64.0** | **56.0** | **48.4** | **3.0** |
| 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<br>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)[B] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | | |
| 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 |
| CAVERNDALE CF 286 RR2Y/STSn | 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 | | | **52.2** | 1.0 |
| | | | | | |
| **GROUP II AVERAGE** | **33.2** | | | **51.0** | 1.0 |
| **LSD (0.10)** | 2.4 | | | 1.3 | |
| **C.V.** | 5.0 | | | 1.9 | |
| | | | | | |
| **MATURITY GROUP III (relative MG 3.0-3.9)** | | | | | |
| 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 | | | **52.7** | 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 | **60.1** | 52.0 | 49.7 | 1.0 |
| LG SEEDS C4010R2 | 43.6 | | | 49.1 | 1.0 |
| SOUTHERN STATES SS 3813N R2 | 43.6 | **60.1** | | 50.1 | 1.0 |
| CZ 3841 LL | 43.4 | | | 50.5 | 1.0 |
| CAVERNDALE CF 380 RR2Yn | 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 |
| | | | | | |
| **GROUP III AVERAGE** | **43.2** | **56.2** | **49.9** | **49.8** | **1.0** |
| **LSD (0.10)** | 4.5 | 4.4 | 3.1 | 2.7 | |
| **C.V.** | 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 (wither 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<br>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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | SUDDEN DEATH SYNDROME INDEX[C] | FROGEYE LEAF SPOT[D] INCIDENCE | RATING | SOYBEAN DEVELOPMENT STAGE AT RATING |
|---|---|---|---|---|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | | | | | | |
| STEYER 2702R2 | **64.3** | N/A[B] | N/A[B] | 47.9 | 1.0 | N/A[E] | N/A[E] | N/A[E] | N/A[E] |
| LG SEEDS C2835R2 | **64.3** | | | **48.6** | 1.0 | | | | |
| STEYER 2805R2 | 63.2 | | | 47.6 | 1.0 | | | | |
| CAVERNDALE CF 286 RR2Y/STSn | 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 | | | | |
| **GROUP II AVERAGE** | **60.7** | | | **47.0** | **1.0** | | | | |
| **LSD (0.10)** | 3.9 | | | 1.8 | | | | | |
| **C.V.** | 4.5 | | | 2.7 | | | | | |
| **MATURITY GROUP III (relative MG 3.0-3.9)** | | | | | | | | | |
| UNISOUTH GENETICS USG 73P93R | **80.9** | N/A[B] | N/A[B] | 51.3 | 1.0 | 5.6 | | | R6 |
| CHANNEL 3707R2/STS | 76.5 | | | 51.7 | 1.0 | 0.7 | | | R6 |
| REV® 39A35 | 76.5 | | | 51.0 | 1.3 | | | | R6 |
| SEED CONSULTANTS SCS 9392RR™ | 75.7 | | | **51.8** | 1.7 | | | | R6 |
| SYNGENTA S39-T3 | 75.4 | | | 51.7 | 1.7 | 0.7 | | | R6 |
| SEED CONSULTANTS SCS 9393RR™ | 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™ | 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 RR2Yn | 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™ | 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 |
| **GROUP III AVERAGE** | **71.1** | | | **51.0** | **1.1** | | | | |
| **LSD (0.10)** | 5.4 | | | 1.1 | | | | | |
| **C.V.** | 5.5 | | | 1.5 | | | | | |
| **MATURITY GROUP IV EARLY (relative MG 4.0-4.5)** | | | | | | | | | |
| 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® 42A65™ | 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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | SUDDEN DEATH SYNDROME INDEX[C] | FROGEYE LEAF SPOT[D] INCIDENCE | RATING | SOYBEAN DEVELOPMENT STAGE AT RATING |
|---|---|---|---|---|---|---|---|---|---|
| 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/STSn | 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 LLn | 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/STSn | 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 |
| **GROUP IV EARLY AVERAGE** | **65.3** | **61.7** | **59.9** | **49.8** | **1.4** | | | | |
| **LSD (0.10)** | 8.3 | 4.8 | 3.5 | 1.8 | | | | | |
| **C.V.** | 9.4 | 7.9 | 7.3 | 2.7 | | | | | |
| **MATURITY GROUP IV LATE (relative MG 4.6-4.9)** | | | | | | | | | |
| 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/STSn | 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/STSn | 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)[A] | | | TEST WEIGHT | LODGING | SUDDEN DEATH SYNDROME | FROGEYE LEAF SPOT[D] | | SOYBEAN DEVELOPMENT STAGE AT |
|---|---|---|---|---|---|---|---|---|---|
| | 2014 | 2013-14 | 2012-14 | 2014[A] | 2014 | INDEX[C] | INCIDENCE | RATING | RATING |
| 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 |
| CAVERNDALE 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 |
| CAVERNDALE 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 |
| CAVERNDALE 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-STS | 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 |
| CAVERNDALE CF 469 LL/STSn | 46.1 | 50.1 | | **53.0** | 3.3 | 17.8 | | | R6 |
| | | | | | | | | | |
| **GROUP IV LATE AVERAGE** | **65.5** | **63.3** | **60.4** | **50.0** | **1.6** | | | | |
| **LSD (0.10)** | 6.7 | 4.7 | 3.6 | 1.3 | | | | | |
| **C.V.** | 7.5 | 7.7 | 7.5 | 1.8 | | | | | |

*continued*

**Table 8.** *(continued)*

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | SUDDEN DEATH SYNDROME INDEX[C] | FROGEYE LEAF SPOT[D] INCIDENCE | RATING | SOYBEAN DEVELOPMENT STAGE AT RATING |
|---|---|---|---|---|---|---|---|---|---|
| **MATURITY GROUP V (relative MG 5.0-5.9)** | | | | | | | | | |
| 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® 55R53™ | 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® 54R84™ | 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® 52R74™ | 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® 52A94™ | 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® 53R23™ | 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® 56A54™ | 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® 51R53™ | 35.0 | 47.3 | 46.9 | 50.1 | 1.0 | | 100.0 | 2.0 | R5/R6 |
| **GROUP V AVERAGE** | **46.4** | **51.0** | **49.4** | **49.5** | **1.8** | | | | |
| **LSD (0.10)** | 5.0 | 4.2 | 3.3 | 1.6 | | | | | |
| **C.V.** | 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 Diesase 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 x 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 Diesase Severity (DS) was recorded using a 1-5 scale (1 = resistant or no visible lesion, 2 = 1moderately 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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | PLANT HEIGHT (IN.) 2014 | MATURITY DATE 2014[B] |
|---|---|---|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | | | | |
| 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 | | | **49.4** | 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/STSn | 51.3 | 57.7 | | 48.5 | 1.0 | 26 | 26 |
| SYNGENTA S29-G4 | 47.1 | | | 48.1 | 1.0 | 30 | 27 |
| **GROUP II AVERAGE** | **57.1** | **N/A** | | **48.7** | **1.0** | **29** | **Sept. 26th** |
| **LSD (0.10)** | 4.2 | | | 1.5 | | | |
| **C.V.** | 5.1 | | | 2.2 | | | |
| **MATURITY GROUP III (relative MG 3.0-3.9)** | | | | | | | |
| SYNGENTA S39-T3 | **68.5** | | | 50.9 | 1.0 | 27 | 31 |
| REV® 39A35 | 65.4 | | | 50.1 | 1.0 | 30 | 28 |
| SEED CONSULTANTS SCS 9363RR™ | 64.3 | 61.5 | | **52.1** | 1.0 | 31 | 28 |
| PFISTER 33R28 | 63.8 | | | 50.8 | 1.0 | 30 | 27 |
| SEED CONSULTANTS SCS 9385RR™ | 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 | **64.2** | 49.8 | 49.3 | 1.0 | 30 | 29 |
| PFISTER 35R25 | 59.8 | | | 50.6 | 1.0 | 28 | 27 |
| SEED CONSULTANTS SCS 9392RR™ | 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 | **55.7** | 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™ | 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 RR2Yn | 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 |
| **GROUP III AVERAGE** | **58.1** | **59.8** | **51.9** | **50.1** | **1.0** | **28** | **Sept. 30th** |
| **LSD (0.10)** | 5.6 | 3.7 | 2.8 | 2.7 | | | |
| **C.V.** | 7.2 | 6.5 | 6.3 | 4.0 | | | |
| **MATURITY GROUP IV EARLY (relative MG 4.0-4.5)** | | | | | | | |
| UNISOUTH GENETICS USG 74A33R | **71.6** | 64.3 | | 51.5 | 1.0 | 32 | 39 |
| ASGROW AG4232 | 69.8 | **75.1** | **61.2** | 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/STSn | 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™ | 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® 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™ | 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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | PLANT HEIGHT (IN.) 2014 | MATURITY DATE 2014[B] |
|---|---|---|---|---|---|---|---|
| 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 |
| **GROUP IV EARLY AVERAGE** | **61.1** | **60.9** | **52.2** | **51.5** | **1.0** | **31** | **Oct. 8th** |
| **LSD (0.10)** | 4.8 | 3.2 | 2.5 | 3.9 | | | |
| **C.V.** | 5.9 | 5.5 | 5.6 | 5.6 | | | |
| **MATURITY GROUP IV LATE (relative MG 4.6-4.9)** | | | | | | | |
| 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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | PLANT HEIGHT (IN.) 2014 | MATURITY DATE 2014[B] |
|---|---|---|---|---|---|---|---|
| LG SEEDS C4919R2 | 66.3 | | | 52.7 | 1.0 | 38 | 44 |
| CAVERNDALE CF 472 RR2Y/STSn | 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® 493R4™* | 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® 465R4™* | 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 LLn | 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® 47R53™ | 64.5 | 63.3 | 53.4 | 52.8 | 1.0 | 36 | 44 |
| BECK XL® 485R2™* | 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 LLn | 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™ | 63.5 | 61.0 | | 51.1 | 1.0 | 34 | 41 |
| REV® 49A75™ | 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 |
| R05-3239 | 62.2 | | | **55.3** | 1.7 | 39 | 46 |
| REV® 49R94™ | 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/STSn | 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® 48R22™ | 60.9 | 56.1 | 47.8 | 53.7 | 1.0 | 31 | 40 |
| CAVERNDALE CF 469 LL/STSn | 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 RR2Yn | 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® 49A14™ | 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 |
| **GROUP IV LATE AVERAGE** | **63.8** | **62.3** | **52.6** | **52.8** | **1.1** | **35.0** | **Oct. 12th** |
| **LSD (0.10)** | 6.0 | 3.7 | 2.8 | 1.5 | | | |
| **C.V.** | 6.9 | 6.2 | 6.1 | 2.1 | | | |

*continued*

**Table 9.** *(continued)*

| BRAND VARIETY | YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 | PLANT HEIGHT (IN.) 2014 | MATURITY DATE 2014[B] |
|---|---|---|---|---|---|---|---|
| **MATURITY GROUP V (relative MG 5.0-5.9)** | | | | | | | |
| 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® 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® 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® 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® 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® 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 |
| **GROUP V AVERAGE** | **55.7** | **57.0** | **48.9** | **50.5** | **2.2** | **41** | **Oct. 16th** |
| 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*

| | |
|---|---|
| **Location** | Fayette County |
| **Soil type** | Lanton silty clay loam |
| **Previous crop** | Corn |
| **Soil test** | pH: 6.38 P: 6.87 K: 241 |
| **Fertilizer/lime applied** | None |
| **Agricultural practice** | No-till |
| **Pre-planting treatments** | 04/17: Salvo 1 pt/acre<br>05/07: Glyphosate 40 oz/acre, Authority XL 6.5 oz/acre |
| **Planting dates** | 05/19: MG IV and V<br>05/20: MG II and III |
| **Post-planting treatments** | 06/09: First Rate 0.3 oz/acre, Select Max 16 oz/acre |
| **Harvest dates** | MG II: 09/27, MG III: 10/01, MG IV Early 10/23, MG IV Late and V: 11/10 |
| **50% chance of killing frost** | 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)[A] 2014 | SEED YIELD (BU/AC)[A] 2013-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | |
| 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 |
| **GROUP II AVERAGE** | **56.2** | **49.3** | **49.8** | **1.3** |
| LSD (0.10) | 2.3 | | 0.8 | |
| C.V. | 2.8 | | 1.2 | |
| **MATURITY GROUP III (relative MG 3.0-3.9)** | | | | |
| 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™ | 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™ | 64.7 | | 51.2 | 1.3 |
| CAVERNDALE CF 380 RR2Yn | 64.4 | 60.6 | 50.7 | 1.0 |
| SEED CONSULTANTS SCS 9393RR™ | 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® 39A35™ | 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™ | 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 |
| **GROUP III AVERAGE** | **61.8** | **60.7** | **51.0** | **1.2** |
| LSD (0.10) | 5.1 | 4.9 | 1.0 | |
| C.V. | 6.1 | 8.4 | 1.5 | |
| **MATURITY GROUP IV EARLY (relative MG 4.0-4.5)** | | | | |
| MYCOGEN SEEDS 5N451R2 | **69.8** | 63.6 | 51.5 | 1.7 |
| REV® 41A05™ | 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)[A] 2014 | SEED YIELD (BU/AC)[A] 2013-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|
| REV® 44A15™ | 64.5 | | 51.3 | 1.3 |
| SEED CONSULTANTS SCS 9443RR™ | 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™ | 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® 42A65™ | 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™ | 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 |
| **GROUP IV EARLY AVERAGE** | **62.6** | **59.1** | **50.7** | **1.2** |
| **LSD (01.0)** | 4.1 | 3.1 | 1.3 | |
| **C.V.** | 4.8 | 5.4 | 1.9 | |
| **MATURITY GROUP IV LATE (relative MG 4.6-4.9)** | | | | |
| 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® 493R4™* | 63.8 | | 50.7 | 1.3 |
| HBK RY4620 | 63.8 | 63.8 | 50.0 | 1.0 |
| ASGROW AG4933 | 63.7 | 65.4 | 50.9 | 1.3 |
| BECK XL® 485R2™* | 63.6 | | 50.0 | 1.7 |
| REV® 49A55™ | 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® 465R4™* | 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)[A] 2014 | SEED YIELD (BU/AC)[A] 2013-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|
| ASGROW AG4934 | 61.1 | 61.4 | 50.4 | 1.0 |
| REV® 47R34™ | 61.0 | 52.1 | 50.5 | 1.7 |
| REV® 49R94™ | 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 | **70.7** | 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/STSn | 60.2 | | 50.8 | 1.0 |
| HALO 4:94 | 60.1 | 54.7 | 51.5 | 1.3 |
| SYNGENTA S46-L2 | 59.9 | 59.9 | 49.9 | 1.7 |
| SEED CONSULTANTS SCS 9474RR™ | 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 S49-F8 | 59.5 | 55.7 | 51.3 | 1.0 |
| DYNA-GRO S48RS53 | 59.4 | 58.8 | 49.8 | 1.0 |
| DYNA-GRO S46RY85 | 59.4 | | 49.8 | 1.7 |
| LG SEEDS C4696R2 | 59.2 | | 50.2 | 2.0 |
| REV® 49A14™ | 59.1 | | 50.2 | 1.7 |
| ARMOR 48-R66 | 59.0 | 62.6 | 49.5 | 1.3 |
| REV® 48R44™ | 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® 46R64™ | 58.4 | 55.5 | 49.5 | 2.0 |
| HS 49A42 | 58.3 | | 50.2 | 1.3 |
| DYNA-GRO S49RY25 | 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 LLn | 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® 47R53™ | 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® 49A75™ | 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/STSn | 56.1 | 60.6 | 49.6 | 1.3 |
| SEED CONSULTANTS SCS 9494RR™ | 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® 48R22™ | 53.3 | 54.4 | 50.2 | 1.3 |
| PROGENY 4928 LL | 53.2 | 53.8 | **52.5** | 1.7 |
| CAVERNDALE CF 496 RR2Yn | 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/STSn | 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 S48-P4 | 48.3 | | 50.5 | 1.3 |
| HALO X449 | 46.6 | | 51.8 | 1.3 |
| PENNYRILE (long term check-released 1987) | 42.9 | 44.2 | 49.0 | 1.0 |
| ARMOR 49-C3 | 42.0 | 49.2 | **52.5** | 4.0 |
| **GROUP IV LATE AVERAGE** | **58.0** | **59.4** | **50.3** | **1.3** |
| LSD (0.10) | 4.5 | 4.0 | 0.8 | |
| C.V. | 5.7 | 7.1 | 1.1 | |

*continued*

**Table 10.** *(continued)*

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | SEED YIELD (BU/AC)[A] 2013-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|
| **MATURITY GROUP V (relative MG 5.0-5.9)** | | | | |
| HALO X451 | **71.4** | | 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® 51R53™ | 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 | **62.2** | 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® 52R74™ | 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® 53R23™ | 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® 54R84™ | 51.3 | 53.7 | 56.5 | 4.3 |
| REV® 55R53™ | 51.0 | 50.6 | 55.3 | 2.3 |
| BECK 505L4 | 50.2 | | **57.4** | 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® 56A54™ | 45.8 | | 55.5 | 4.0 |
| REV® 52A94™ | 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 |
| **GROUP V AVERAGE** | **53.3** | **53.2** | **55.7** | **2.4** |
| 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<br>07/28: Glyphosate 40 oz/acre on roundup-ready varieties only |
| **Harvest dates** | MG II, III, and IV Early: 10/22, MG IV Late: 11/15, MG V: 11/14 |
| **50% chance of killing frost** | 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 |

**Table 11. 2014 Kentucky Soybean Variety Performance Tests, Simpson County.**

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| **MATURITY GROUP II (relative MG 2.0-2.9)** | | | | | |
| CAVERNDALE CF 286 RR2Y/STSn | **55.1** | 48.7 | N/A | 49.5 | 1.0 |
| LG SEEDS C2835R2 | 54.6 | | | 48.0 | 1.0 |
| PIONEER P28T33R | 53.4 | | | 50.2 | 1.0 |
| SYNGENTA S27-J7 | 47.9 | | | 48.1 | 1.0 |
| SYNGENTA S28-A2 | 45.9 | | | 47.5 | 1.0 |
| STEYER 2702R2 | 42.8 | | | 47.2 | 1.0 |
| PIONEER 92Y83 | 42.3 | | | **50.7** | 1.0 |
| STEYER 2805R2 | 39.4 | | | 45.9 | 1.0 |
| SYNGENTA S29-G4 | 39.4 | | | 45.4 | 1.0 |
| **GROUP II AVERAGE** | **46.8** | **NA** | | **48.1** | **1.0** |
| **LSD (0.10)** | 5.1 | NA | | 3.7 | |
| **C.V.** | 7.6 | NA | | 5.4 | |
| **MATURITY GROUP III (relative MG 3.0-3.9)** | | | | | |
| SEED CONSULTANTS SCS 9385RR | **71.0** | | | **50.8** | 1.0 |
| SOUTHERN STATES SS 3914NS R2 | 65.7 | | | 48.4 | 1.0 |
| WARREN SEED DS 3838 R2Y | 65.0 | | | 49.7 | 1.0 |
| DYNA-GRO S39RY65 | 65.0 | | | 49.3 | 1.0 |
| PIONEER 93Y92 | 62.8 | 56.9 | 54.9 | 50.7 | 1.0 |
| CHANNEL 3707R2/STS | 62.7 | | | 48.7 | 1.0 |
| SOUTHERN STATES SS 3813N R2 | 62.7 | **61.6** | | 49.6 | 1.0 |
| SEED CONSULTANTS SCS 9393RR | 62.5 | **61.6** | | 50.2 | 1.0 |
| CZ 3841 LL | 61.8 | | | 49.9 | 1.0 |
| ARMOR AX4390 | 59.9 | | | 49.6 | 1.0 |
| SYNGENTA S39-T3 | 59.9 | | | 48.3 | 1.0 |
| PFISTER 39R29 | 59.6 | | | 50.0 | 1.0 |
| MYCOGEN SEEDS 5N393R2 | 59.4 | 59.8 | | 50.5 | 1.0 |
| REV 39A35 | 59.2 | | | 49.3 | 1.0 |
| PIONEER 93Y84 | 59.1 | 55.5 | 56.5 | 48.3 | 1.0 |
| ARMOR AX4310 | 59.1 | | | 49.2 | 1.0 |
| ARMOR AX4391 | 58.9 | | | 49.4 | 1.0 |
| GREAT LAKES HYBRIDS GL3729R2 | 57.7 | | | 49.6 | 1.0 |
| ASGROW AG3934 | 57.5 | 58.1 | | 49.3 | 1.0 |
| GREAT LAKES HYBRIDS GL3929R2 | 57.5 | | | 49.5 | 1.0 |
| UNISOUTH GENETICS USG 73P93R | 56.6 | 48.4 | | 50.4 | 1.0 |
| PIONEER P35T58R | 56.4 | 57.3 | | 50.7 | 1.0 |
| LG SEEDS C3989R2 | 54.7 | 52.5 | 52.8 | 50.3 | 1.0 |
| PFISTER 33R28 | 54.6 | | | 49.0 | 1.0 |
| STEYER 3403R2 | 54.1 | | | 49.9 | 1.0 |
| SEED CONSULTANTS SCS 9363RR | 54.0 | 55.0 | | 49.8 | 1.0 |
| SEED CONSULTANTS SCS 9392RR | 52.8 | 52.5 | 52.9 | 50.4 | 1.0 |
| ASGROW AG3832 | 52.7 | 61.3 | **59.3** | 49.3 | 1.0 |
| ASGROW AG3735 | 52.6 | | | 47.3 | 1.0 |
| STEYER 3103R2 | 51.6 | | | 49.7 | 1.0 |
| LG SEEDS C4010R2 | 51.5 | | | 50.6 | 1.0 |
| DYNA-GRO 32RY39 | 50.8 | | | 50.4 | 1.0 |
| ARMOR 39-R16 | 50.3 | 53.5 | 52.5 | 46.7 | 1.0 |
| STINE 38RE02 | 50.0 | | | 48.4 | 1.0 |
| STINE 37RC82 | 49.8 | | | 49.8 | 1.0 |
| PIONEER 93Y05 | 49.4 | | | 48.0 | 1.0 |
| PFISTER 35R25 | 47.6 | | | 48.9 | 1.0 |
| L&M GLICK 399 RY2 | 47.1 | | | 50.3 | 1.0 |
| CAVERNDALE CF 380 RR2Yn | 43.4 | 45.0 | | 48.9 | 1.0 |
| **GROUP III AVERAGE** | **56.6** | **55.6** | **54.8** | **49.5** | **1.0** |
| **LSD (0.10)** | 6.7 | 4.8 | 3.8 | 2.3 | |
| **C.V.** | 8.7 | 9.0 | 8.8 | 3.1 | |
| **MATURITY GROUP IV EARLY (relative MG 4.0-4.5)** | | | | | |
| PROGENY 4211 RY | **70.1** | 65.1 | 61.5 | 50.5 | 1.0 |
| MYCOGEN SEEDS 5N451R2 | 68.5 | 62.0 | | 52.8 | 1.0 |
| SOUTHERN STATES LL 423N | 68.4 | 62.1 | | 52.4 | 1.0 |
| ASGROW AG4533 | 67.3 | | | 53.2 | 1.0 |
| STEYER 4303R2 | 67.1 | | | 51.2 | 1.0 |
| UNISOUTH GENETICS USG 74F24RS | 67.1 | | | 51.8 | 1.0 |
| ASGROW AG4433 | 66.9 | 64.2 | 58.9 | 52.2 | 1.0 |
| WARREN SEED DS 4340 R2Y | 66.9 | 63.2 | **64.0** | 51.2 | 1.0 |
| DYNA-GRO S43RY95 | 66.8 | | | 50.8 | 1.0 |
| BECK 423NL | 66.7 | 61.9 | | 50.5 | 1.0 |
| SEED CONSULTANTS SCS 9434RR™ | 66.6 | 62.7 | | 52.2 | 1.0 |
| PIONEER P45T11 | 66.5 | | | 53.0 | 1.0 |
| STEYER 4002R2 | 66.3 | | | 51.7 | 1.0 |
| SOUTHERN STATES SS 4514N R2 | 66.1 | | | 53.2 | 1.0 |
| CAVERNDALE CF 456 RR2Y/STSn | 65.9 | 61.6 | | 50.9 | 1.0 |
| CAVERNDALE CF 426 RR2Y/STSn | 65.8 | | | 50.8 | 1.0 |
| SYNGENTA S41-J6 | 65.7 | 61.4 | 60.6 | 51.6 | 1.0 |
| CAVERNDALE CF 425 LLn | 65.6 | 64.2 | | 51.1 | 1.0 |
| ASGROW AG4534 | 65.6 | 61.8 | | 50.9 | 1.0 |
| PROGENY 4510 RYS | 65.6 | 56.1 | 53.9 | **53.6** | 1.0 |
| MYCOGEN SEEDS 5N431R2 | 65.2 | 61.7 | | 51.4 | 1.0 |
| STEWART 4412R2 | 65.0 | 61.6 | 59.0 | 51.9 | 1.0 |
| PROGENY 4440 RY | 64.3 | | | 51.6 | 1.0 |

*continued*

**Table 11.** *(continued)*

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| WARREN SEED DS 4330 R2Y | 64.2 | 61.8 | | 52.8 | 1.0 |
| ASGROW AG4135 | 63.8 | | | 51.3 | 1.0 |
| STEWART 4514R2 | 63.8 | 59.6 | | 51.1 | 1.0 |
| HALO 4:40 | 63.5 | 60.9 | | 51.0 | 1.0 |
| CHANNEL 4407R2/STS | 63.3 | | | 50.8 | 1.0 |
| HALO X440 | 63.3 | | | 51.0 | 1.0 |
| SEED CONSULTANTS SCS 9435R2™ | 63.3 | | | 50.6 | 1.0 |
| STINE 42LD02 | 63.1 | | | 52.5 | 1.0 |
| UNISOUTH GENETICS USG 74F53R | 63.0 | | | 51.7 | 1.0 |
| ARMOR AX4450 | 62.8 | | | 52.2 | 1.0 |
| ARMOR 43-R43 | 62.6 | 60.0 | | 52.6 | 1.0 |
| ASGROW AG4232 | 62.6 | 57.9 | 58.6 | 51.4 | 1.0 |
| LG SEEDS C4322R2 | 62.5 | | | 50.1 | 1.0 |
| SYNGENTA S43-K1 | 62.5 | 59.9 | | 50.9 | 1.0 |
| UNISOUTH GENETICS USG 74A33R | 61.9 | 58.7 | | 52.1 | 1.0 |
| CHANNEL 4107R2 | 61.5 | | | 51.4 | 1.0 |
| CZ 4181 RY | 61.4 | | | 50.5 | 1.0 |
| ASGROW AG4531 | 61.3 | | | 53.0 | 1.0 |
| STINE 43RE02 | 60.9 | | | 51.6 | 1.0 |
| DYNA-GRO S42RS03 | 60.8 | | | 52.1 | 1.0 |
| STEYER 4401R2 | 60.8 | 55.2 | 57.0 | 51.2 | 1.0 |
| STEWART 4113R2 | 60.6 | 61.9 | 59.1 | 51.6 | 1.0 |
| REV® 44A15™ | 60.5 | | | 51.4 | 1.0 |
| ARMOR 44-R08 | 60.0 | 64.1 | 59.6 | 51.3 | 1.0 |
| DYNA-GRO 39RY43 | 60.0 | 63.0 | 61.3 | 51.1 | 1.0 |
| L&M GLICK 412 R2Y | 59.5 | 60.3 | 58.2 | 50.7 | 1.0 |
| WARREN SEED DST 40-001 R2Y | 59.4 | | | 50.3 | 1.0 |
| GREAT LAKES HYBRIDS GL4209R2 | 58.8 | 58.8 | | 51.9 | 1.0 |
| CHANNEL 4508R2/SR | 58.7 | | | 52.1 | 1.0 |
| PROGENY 4560 LL | 58.5 | 55.2 | | 51.6 | 1.0 |
| PIONEER 94Y23 | 58.4 | **65.5** | 61.3 | 51.7 | 1.0 |
| SYNGENTA S45-V8 | 58.4 | 57.1 | | 52.4 | 1.0 |
| MYCOGEN SEEDS 5N423R2 | 58.1 | 59.6 | | 52.6 | 1.0 |
| ARMOR AX4440 | 57.9 | | | 52.8 | 1.0 |
| ARMOR AX4430 | 57.8 | | | 51.7 | 1.0 |
| ARMOR AX4410 | 57.6 | | | 52.3 | 1.0 |
| REV® 42A65™ | 57.6 | | | 49.6 | 1.0 |
| STINE 42RD02 | 57.4 | 54.4 | | 51.7 | 1.0 |
| SEED CONSULTANTS SCS 9443RR™ | 57.3 | 55.3 | | 50.7 | 1.0 |
| STEYER 4501R2 | 56.9 | | | 49.9 | 1.0 |
| SYNGENTA S40-N2 | 56.8 | | | 50.7 | 1.0 |
| SOUTHERN STATES SS 4114N R2 | 56.6 | | | 51.8 | 1.0 |
| REV® 41A05™ | 55.9 | | | 52.1 | 1.0 |
| UNIVERSITY OF MISSOURI S10-11227 | 54.9 | | | 52.5 | 1.0 |
| DYNA-GRO S40RY25 | 54.7 | | | 51.1 | 1.0 |
| ASGROW AG4033 | 54.0 | 55.9 | 55.5 | 52.2 | 1.0 |
| SOUTHERN STATES SS 4312N R2 | 53.7 | 55.1 | 54.2 | 51.1 | 1.0 |
| ASGROW AG4034 | 53.6 | | | 51.0 | 1.0 |
| PFISTER 43R29 | 52.8 | 53.5 | 54.3 | 51.5 | 1.0 |
| **GROUP IV EARLY AVERAGE** | **61.7** | **60.1** | **58.6** | **51.5** | **1.0** |
| **LSD (0.10)** | 5.4 | 3.8 | 3.3 | 1.5 | |
| **C.V.** | 6.5 | 6.5 | 7.1 | 2.2 | |
| **MATURITY GROUP IV LATE (relative MG 4.6-4.9)** | | | | | |
| ARMOR 47-R13 | **77.4** | **69.3** | 65.1 | 48.2 | 1.0 |
| SOUTHERN STATES SS 4725NS R2 | 77.3 | 69.2 | | 52.1 | 1.0 |
| WARREN SEED DS 4633 R2Y | 75.3 | 63.7 | 63.8 | 50.4 | 1.0 |
| HALO 4:95 | 70.4 | 61.1 | 60.4 | 49.4 | 1.0 |
| GREAT LAKES HYBRIDS GL4729R2 | 69.2 | 60.4 | | 50.3 | 1.0 |
| LG SEEDS C4919R2 | 69.1 | | | 48.2 | 1.0 |
| BECK XL® 465R4™* | 68.0 | | | 49.1 | 1.0 |
| HBK LL4953 | 67.7 | | | 51.4 | 1.0 |
| LG SEEDS C4780R2 | 67.7 | 64.4 | 63.5 | 52.4 | 1.0 |
| HALO 4:97 | 67.5 | 60.7 | | 52.2 | 1.0 |
| HALO 4:94 | 66.7 | 58.9 | 59.6 | 50.9 | 1.0 |
| WARREN SEED DS 4850 R2Y/STS | 66.3 | 62.9 | 62.7 | 50.6 | 1.0 |
| STEYER 4702R2 | 64.7 | 65.6 | 61.7 | 50.4 | 1.0 |
| ASGROW AG4832 | 64.6 | 60.3 | 60.6 | 43.4 | 1.0 |
| DYNA-GRO S46RY85 | 64.4 | | | 50.1 | 1.0 |
| DYNA-GRO S48RS53 | 64.3 | 64.2 | 64.4 | 50.9 | 1.0 |
| PROGENY 4900 RY | 64.3 | 61.3 | 63.1 | 49.9 | 1.0 |
| HS 49A42 | 64.1 | | | 50.2 | 1.0 |
| HALO X448 | 63.8 | | | 48.3 | 1.0 |
| PFISTER 49R22 | 63.8 | | | 50.9 | 1.0 |
| HBK LL4950 | 63.8 | 56.8 | | 51.7 | 1.0 |
| SOUTHERN STATES SS 4700 R2-STS | 63.7 | 58.3 | 60.1 | 51.0 | 1.0 |
| PIONEER P49T97R | 63.1 | 60.2 | | 49.7 | 1.0 |
| PROGENY 4930 LL | 63.0 | 57.7 | | 51.4 | 1.0 |
| BECK XL® 493R4™* | 62.9 | | | 50.1 | 1.0 |
| CAVERNDALE CF 496 RR2Yn | 62.7 | 64.0 | | 51.8 | 1.0 |
| REV® 49R94™ | 62.7 | 50.2 | | 50.2 | 1.0 |
| ARMOR AX4490 | 62.6 | | | 50.5 | 1.0 |
| CAVERNDALE CF 479 LLn | 62.3 | | | 49.1 | 1.0 |
| STEYER 4802R2 | 62.2 | 53.0 | | 49.8 | 1.0 |
| ARMOR 46-R65 | 62.1 | | | 51.7 | 1.0 |

*continued*

**Table 11.** *(continued)*

| BRAND VARIETY | SEED YIELD (BU/AC)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| REV® 49A14™ | 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 |
| CAVERNDALE CF 486 RR2Y/STSn | 59.4 | 58.5 | 61.9 | 51.1 | 1.0 |
| CAVERNDALE CF 472 RR2Y/STSn | 59.4 | | | 50.7 | 1.0 |
| REV® 49A75™ | 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® 47R53™ | 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 4:76 | 58.2 | | | 49.5 | 1.0 |
| HBK LL4653 | 58.2 | | | 49.1 | 1.0 |
| SYNGENTA S48-P4 | 58.1 | | | 50.3 | 1.0 |
| REV® 48R22™ | 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 |
| CAVERNDALE CF 469 LL/STSn | 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™ | 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® 485R2™* | 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 |
| CAVERNDALE CF 485 LLn | 55.2 | 55.2 | 51.5 | 50.9 | 1.0 |
| REV® 48R44™ | 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® 47R34™ | 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™ | 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® 46R64™ | 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® 49A55™ | 51.3 | | | 50.1 | 1.0 |
| PENNYRILE (long term check-released 1987) | 50.8 | 54.7 | 51.8 | 49.1 | 1.0 |
| **GROUP IV LATE AVERAGE** | **59.9** | **58.9** | **59.9** | **50.5** | **1.0** |
| **LSD (0.10)** | 4.6 | 4.4 | 3.8 | 3.0 | |
| **C.V.** | 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)[A] 2014 | 2013-14 | 2012-14 | TEST WEIGHT 2014[A] | LODGING 2014 |
|---|---|---|---|---|---|
| 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® 51R53™ | 62.7 | 59.6 | 57.5 | 52.1 | 1.0 |
| HALO 5:25 | 62.5 | | | 51.3 | 1.7 |
| REV® 52A94™ | 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® 53R23™ | 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® 55R53™ | 60.0 | 51.8 | 54.3 | 51.0 | 3.3 |
| REV® 54R84™ | 59.8 | 56.7 | 56.0 | **53.7** | 5.0 |
| REV® 56A54™ | 59.8 | | | 50.6 | 4.3 |
| PFISTER 52R26 | 58.4 | | | 51.2 | 2.3 |
| REV® 52R74™ | 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 |
| **AVERAGE GROUP V** | **63.7** | **58.0** | **58.4** | **51.4** | **2.3** |
| **LSD (0.10)** | 5.4 | 3.7 | 3.2 | 0.9 | |
| **C.V.** | 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 |


12-2014