

2010 Kentucky Soybean Performance Tests

Eugene Lacefield and Kolter Kalberg, Department of Plant and Soil Sciences

The Kentucky Soybean 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.

Twenty soybean tests were planted in 2010 in Kentucky at the five test locations shown below. Soil types, planting dates, and other information are shown in Table 1.

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Kentucky Grain Crops Web Site

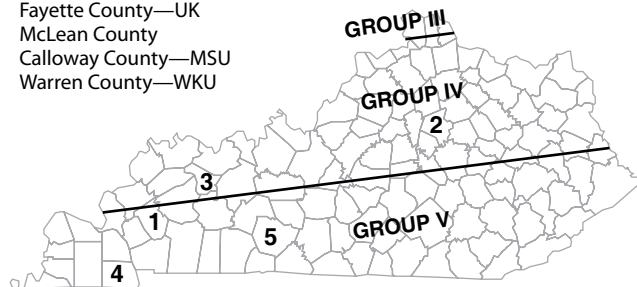
<http://www.uky.edu/Ag/GrainCrops/varietytesting.htm>

Provides links to all Kentucky variety test publications and related resources. This site includes a link to the soybean variety tests web site, which has the following features:

- 2010 Kentucky Soybean Performance Tests (this publication) and archived reports in PDF format.
- Archived tables by year in Excel format.
- Current year preliminary test results—posted as harvested.
- ListServ signup form to receive emails when the preliminary tables are posted.
- Nomination form, cover letter, and instructions for next season’s test entries.

Location of the 2010 Kentucky Soybean Tests

1. Caldwell County—UKREC
2. Fayette County—UK
3. McLean County
4. Calloway County—MSU
5. Warren County—WKU



Seed Source Information on page 4.

Table 1. Location, Planting, and Climatic Data for the 2010 Soybean Performance Tests.

Test	Site	Extension Agent	Soil Type	Date of Planting	Soil Test	Fertilizer Applied ¹	50% Chance of Killing Frost ²
Caldwell County Full Season	Princeton Exp. Station University of Kentucky		Crider Silt Loam	5/24	P 192 K 506 pH 6.1	None	10/21
Warren County Full Season	Western Kentucky University		Pembroke Silt Loam	5/12	P 134 K 400 pH 5.7	None	10/21
Fayette County Full Season	Lexington Exp. Station University of Kentucky		Woolper Silt Loam	5/10	P 249 K 234 pH 6.2	4 ton lime	10/26
Calloway County Full Season	Murray State University		Granada Silt Loam	5/13	P 80 K 239 pH 5.7	None	10/30
McLean County Full Season	Richard Smith Farm	Greg Henson	Melvin Silt Loam	5/26	P 169 K 398 pH 5.5	None	10/22

¹ Amount per acre.
² Based on 30-year average.

Methods

All tests were planted in a randomized complete block design by maturity group. The tests (Tables 6-10) had two replications (plots) of each variety. The individual plots were 20 feet long and six rows wide with 16 inches between rows (seeding rate: five to six viable seeds per foot of row). All plots were treated with herbicides and maintained as weed-free as possible. All plots were chemically end-trimmed to 16 feet approximately one month after planting. Companies could choose to treat their seed with fungicides and insecticides. Table 4 presents treatment data and code numbers for each treatment. The treatment code number for each variety is provided in column one of Tables 5-10.

Harvesting was done with a small plot combine according to maturity; thus, several harvests were made at each location. Sixteen feet of the four center rows were harvested from the plots. No allowances were made for soybeans that may have been lost because of combining or shattering.

Yield—Yield is reported in bushels (60 pounds) per acre adjusted to 13% moisture. An electronic moisture monitor located on the combine was used for moisture readings for each plot.

Lodging—Lodging is 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 over badly.

Maturity Date—A variety is 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 will be ready to combine. Maturity dates were recorded at the Fayette County location.

Plant height—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, Oil—Variety protein and oil concentration were determined at the McLean County location and expressed on the basis of 13% moisture.

Summary Table 5 is the recommended table for variety performance.

Interpretation

An important step in profitable soybean production is selecting good quality seed of the best varieties for your 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 (see map, page 1). 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 location to location depending on adaptability, weather conditions, and management. The data presented in the Table 5 summary have been averaged across years and locations, and Table 5 is recommended as the table to use for evaluating variety performance. Performance of a variety across a period of years and at several locations in the state is the best indicator of the variety's production potential. (See the University of Kentucky publication *Agronomy Notes*, Volume 21, No. 3, "Using Performance Test Results in Soybean Variety Selection in Kentucky.")

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, use the least significant difference (LSD) values cited at the bottom of each maturity group. The significance level used in the tables is 0.10. If the difference in yield between two varieties is greater than the LSD value, you can be reasonably certain that the varieties actually do differ in yielding ability. Shaded yields in the tables represent top-yielding varieties that are not significantly different from the top-yielding variety (bold data) of the maturity group and year in which the bold data are located.

Yield is only one factor to consider in selecting a variety for your production system. Maturity, lodging resistance, disease resistance, and availability of time and equipment are other factors that need to be considered. The economic management and control of weeds are additional factors to consider.

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 News*, Volume 6, Issue 1, "Soybean Oil and Protein.") Our recommendation is that you create a list of varieties that meet your needs for agronomic characteristics: yield, maturity group, soybean cyst nematode resistance, etc. Then, using the protein and oil data from Table 5, remove from consideration those varieties with below-average oil percentages. Select from the remaining varieties those that have the highest average protein concentration. 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. 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% chance of a fall killing frost is important in determining which variety you select to plant. The dates presented in Table 1 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 in Table 1. 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.

If you have soybean cyst nematode (SCN) problems, a resistant variety (indicated by a “*s*” prefix) should be used in your production system with a recommended crop rotation program. (See Kentucky Cooperative Extension Service publication PPA-42: *Soybean Cyst Nematode*, available at both your county extension office and UK’s grain crops web site.) The importance of resistant varieties has increased as the number of acres affected by SCN has increased. SCN occurs in 32 western Kentucky counties, representing 90% of the state’s soybean acreage. Low levels of SCN show few visible symptoms but can cause yield losses of up to 25%.

The level of SCN infestation as well as the SCN race can be determined through the SCN laboratory at the UK Research and Education Center at Princeton. Test your fields, and contact your county extension office for more information on collecting and submitting samples.

Soybean mosaic virus (SMV) may cause yield loss if soybean plants are infected prior to flowering. Due to the timing of insect populations that transmit the disease, double-cropped soybeans are more likely to be affected in Kentucky. Planting SMV-resistant varieties will help eliminate this possible yield loss. However, only a few varieties have been evaluated for SMV resistance. Check Table 3, “Company Disease-Resistance Specifications,” for SMV resistance ratings.

Table 5, consisting of a summary of the five full-season tests, is recommended for selecting varieties for maximum yield in double-crop systems and in full-season systems. Better yielding full-season varieties are also the better-yielding double-crop varieties (Pfeiffer, Todd 1987. *Applied Agricultural Research*, Vol. 2, No. 3, pp. 141-145). The full-season environment that maximizes gain is a better indicator of performance than late-planted soybeans that have reduced yields. The data from five full-season tests, analyzed across years and locations, predict performance of a variety more accurately than a single, full-season, or double crop test.

Growing Conditions and Special Circumstances

Above-Normal Temperature and Below-Normal Rainfall

May was the first month since October 2009 with above normal rainfall for the state as a whole, due to record rains in the first two days of the month. Many locations received nearly—or even above—their normal rainfall for the entire month in these two days, leaving fields saturated for a couple weeks. With the exception of those two record wet days, the growing season was below normal for rainfall. After May, average monthly rain fall for western Kentucky ranged from a high of 2.69 inches in June to a low of 1.60 inches in September. The western Kentucky long-term hydrological moisture status at the end of the growing season was classified as “Severe Drought.” High temperatures across the Commonwealth were also quite a bit above normal, with many days at or above 90 degrees (<http://www.wagwx.ca.uky.edu/annual.shtml>). Soybean production was forecast at 49.7 million bushels, well below the record high production set in 2009. Yield was forecast at 36 bushels per acre, 12 bushels below 2009 record high yield (http://www.nass.usda.gov/Statistics_by_State/Kentucky/Publications/Agri-News/oct129.pdf).

Soybean Production Information

The Kentucky Cooperative Extension Service has a publication series, *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)*

These publications as well as PPA-42, *Soybean Cyst Nematode*, and the *Corn & Soybean News* are available online at the grain crops web site at <http://www.uky.edu/Ag/GrainCrops/varietytesting.htm>. (See page 1 for more information.) Tables 2A and 2B are updated planting guides for your convenience. For additional research on seeding rates, see *Corn & Soybean News*, Volume 6, Issue 2, “Soybean Population and Yield” and the “Soybean Seed Rates” articles in Volume 7, Issue 4, Volume 8, Issue 3, and Volume 9, Issue 3. The most recent research suggests that a final stand of 100,000 plants per acre is more than adequate for maximum yields in full-season soybeans. Seeding rate 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.

Table 2A. Full-Season Soybeans.

Target Stand plants/acre	Standard Germination	Assumed Stand Loss	Final Seeding Rate seeds/acre	Row Spacing (inches)		
				7.5	15	30
				Seeds per foot		
100,000	95%	5%	110,803	1.6	3.2	6.4
100,000	95%	10%	116,959	1.7	3.4	6.7
100,000	95%	20%	131,579	1.9	3.8	7.6
100,000	95%	30%	150,376	2.2	4.3	8.6
100,000	90%	5%	116,959	1.7	3.4	6.7
100,000	90%	10%	123,457	1.8	3.5	7.1
100,000	90%	20%	138,889	2.0	4.0	8.0
100,000	90%	30%	158,730	2.3	4.6	9.1
100,000	85%	5%	123,839	1.8	3.6	7.1
100,000	85%	10%	130,719	1.9	3.8	7.5
100,000	85%	20%	147,059	2.1	4.2	8.4
100,000	85%	30%	168,067	2.4	4.8	9.6

Table 2B. Double-Crop Soybeans.

Target Stand plants/acre	Standard Germination	Assumed Stand Loss	Final Seeding Rate seeds/acre	Row Spacing (inches)		
				7.5	15	30
				Seeds per foot		
140,000	95%	5%	155,125	2.2	4.5	8.9
140,000	95%	10%	163,743	2.3	4.7	9.4
140,000	95%	20%	184,211	2.6	5.3	10.6
140,000	95%	30%	210,526	3.0	6.0	12.1
140,000	90%	5%	163,743	2.3	4.7	9.4
140,000	90%	10%	172,840	2.5	5.0	9.9
140,000	90%	20%	194,444	2.8	5.6	11.2
140,000	90%	30%	222,222	3.2	6.4	12.8
140,000	85%	5%	173,375	2.5	5.0	10.0
140,000	85%	10%	183,007	2.6	5.3	10.5
140,000	85%	20%	205,882	3.0	5.9	11.8
140,000	85%	30%	235,294	3.4	6.8	13.5

Kentucky Seed Law

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

Acknowledgments

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Sources of Seeds

The seed planted in the 2010 Soybean Performance Tests was acquired from the following sources:

Beck's Superior Hybrids, Inc.

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XL brand is distributed by Beck's Superior Hybrids, Inc.
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Bio Gene Seeds

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BIOGENE BG 7420
BIOGENE BG 7450
BIOGENE BG 7470

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josh@crvseed.com
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MORSOY 490

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mmalone@soytec.us
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Southern States Cooperative

Howard Tabor804-281-1203
P.O. Box 26234
Richmond, VA 23260
howard.tabor@sscoop.com
SOUTHERN STATES RT 3871N
SOUTHERN STATES RT 3971N
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SOUTHERN STATES RT 4760N
SOUTHERN STATES RT 4808N
SOUTHERN STATES RT 4888N
SOUTHERN STATES RT 4996N
SOUTHERN STATES RT 5160N
SOUTHERN STATES LL 396N
SOUTHERN STATES LL 430N
SOUTHERN STATES LL 450N
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UNISOUTH GENETICS USG 73F59
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UNISOUTH GENETICS USG 74T98
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UNISOUTH GENETICS USG ALLEN (RR)

U.S. Seeds

Monty Malone870-351-0390
1690 Jasmine
Conway, AR 72034
mmalone@soytec.us
HALO 4:65
HALO 4:94
HALO 5:25
HALO 5:65

Virginia Tech

Katy M. Rainey504-231-6496
509 Latham Hall
Blacksburg, VA 24061
kmrainey@vt.edu
GLENN

University of Arkansas

Dr. Pengyin Chen/Innan Cervantes..479-575-5732
115 Plant Science Building
Fayetteville, AR 72701
icervantes@uark.edu
UNIVERSITY OF ARKANSAS UA4910
UNIVERSITY OF ARKANSAS UA4805
UNIVERSITY OF ARKANSAS OSARK
UNIVERSITY OF ARKANSAS OSAGE
UNIVERSITY OF ARKANSAS R04-357

University of Missouri

Grover Shannon.....573-379-5431
147 Street, Highway T
Portageville, MO 63873
shannong@missouri.edu
UNIVERSITY OF MISSOURI S07-5049
UNIVERSITY OF MISSOURI S07-5117
UNIVERSITY OF MISSOURI S05-11268
UNIVERSITY OF MISSOURI S05-11482
UNIVERSITY OF MISSOURI S06-3095RR
UNIVERSITY OF MISSOURI S06-4649RR

Table 3. Company Disease Resistance Specifications for Entries in the 2010 Kentucky Soybean Performance Tests^A.

Type ^B	Variety / Brand	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae ^{C,D}		Sudden Death Syndrome ^D	Soybean Mosaic Virus ^D	Stem Canker ^D	Other Reported Resistance
				Resistance Gene Rps	Field Tolerance				
RR	ARMOR 42-M1	4.2	3, 14			MT	MR	R	
RR/STS	ARMOR 44-K6	4.4	3, 14			MT	MR	R	
R2Y	ARMOR 44-R12	4.4	3, 14	1a			MR	R	
RR/STS	ARMOR 47-F8	4.7	3, 14			MT	MR	R	
R2Y/STS	ARMOR 47-R33	4.7				MT	MR	MR	
RR	ARMOR 48-J3	4.8	3			MT	MR	R	
R2Y	ARMOR 48-R40	4.8		1c			MR	MR	
RR/STS	ARMOR 53-Z5	5.3	3, 14			MT	MR	R	
EXP-R2Y	ARMOR ARK 1471	4.7	3, 14	1c			MR	R	
EXP-R2Y	ARMOR ARX 1472	4.7	3, 14	1c			MR	R	
EXP-R2Y/STS	ARMOR ARX 1477	4.7		1c			MR	MR	
EXP-R2Y/STS	ARMOR ARX 1481	4.8		1c			MR	MR	
EXP-R2Y	ARMOR ARX 1531	5.3	3, 14			MT	MR	R	
EXP-R2Y	ARMOR ARX 1535	5.3	3, 14	1c			MR	R	
EXP-R2Y	ARMOR ARX 1551	5.5	3, 14			MT	MR	R	
RR	ASGROW AG3803	3.8	3	1c		MT	MR	R	
R2Y	ASGROW AG3830	3.8	3	1c		MT	MR	MR	
R2Y	ASGROW AG3831	3.8	3	1c		MS	MR	MR	
R2Y	ASGROW AG3931	3.9	3			MS	MR	MR	
R2Y/STS	ASGROW AG4031	4.0	3			MS	MR	S	
R2Y	ASGROW AG4130	4.1	3			MT	MS	S	
RR	ASGROW AG4303	4.3	3			MT	MR	R	
R2Y/STS	ASGROW AG4531	4.5		1c		MS	MR	S	
RR/STS	ASGROW AG4606	4.6	3	1c		MT	MR	MR	
R2Y	ASGROW AG4630	4.6				MS	MR	S	
R2Y/STS	ASGROW AG4730	4.7		1c		MT	MR	S	
RR	ASGROW AG4907	4.9	3	1c		MT	MR	R	
RR	BECK 388NRTM*	3.8	3, 14			MT	MR	MR	MR
RR	BECK 393NR	3.9	3, 14			MT	MR	MR	MR
RR	BECK 400NR TM*	4.0	3, 14	1k		MT	MR	MR	MR
RR	BECK 432NR TM*	4.3	3, 14	1k		MT	MR	MR	MR
RR	BECK 445NR	4.4	3, 14			MT	MR	MR	R
RR	BECK 466NRTM*	4.6	3, 14			MT	MR	MR	MR
RR	BECK 491NR TM*	4.9	3, 14			MT	MR	MR	MR
RR	BIOGENE BG 7400	4.0	3, 14						
R2Y	BIOGENE BG 7420	4.2	3, 14						
R2Y	BIOGENE BG 7450	4.5	3, 14						
R2Y	BIOGENE BG 7470	4.7	3, 14						
CONV	CAVERNDALE CF 388n	3.8	3, 14	1a		MT	MR	MR	MR
RR/STS	CAVERNDALE CF 395 RR/STS _n	3.9	3, 14			T	MR	MR	MR
LL	CAVERNDALE CF 411 LL _n	4.1	3, 14			T	MR	MR	MR
R2Y	CAVERNDALE CF 471 RR2Y _n	4.7	3, 14			MT	MR	R	
RR	CAVERNDALE CF 491 RR _n	4.9	3, 14			MS	MR	S	MR
R2Y	CHANNEL 4000R2	4.0	3, 14			S	MR	MR	MR
R2Y	CHANNEL 4100R2	4.1	3, 14			MT	MR	MR	MR
R2Y	CHANNEL 4101R2	4.1	3, 14	1a		MT	MS	R	
R2Y	CHANNEL 4500R2	4.5	3, 14	1c		MS	MR	MR	MR
R2Y	CHANNEL 4700R2	4.7	3, 14			MT	MR	MR	MR
R2Y	CROPLAN GENETICS RR2C4660	4.6	3, 14			MT	MR	R	
R2Y/STS	CROPLAN GENETICS R2T4799S	4.7					MR	R	
RR	CROPLAN GENETICS RC4417	4.4	3	1c		MT	MR		
RR/STS	CROPLAN GENETICS RC4757	4.7	3, 14			MT	MR		
RR	CROPLAN GENETICS RT4886S	4.8				MT	MR		MR
RR	DAIRYLAND DSR-4300/RR	4.3	3			MT			
RR/STS	DAIRYLAND DSR-4500/RRSTS	4.5	3			MT			
RR	DAIRYLAND DSR-4810/RR	4.8	3	1c		MT			
RR	DAIRYLAND DSR-8482/RR	4.8		1k		MT			
RR	DAIRYLAND DSR-8509/RR	5.0	3	1k		MT			
RR/STS	DELTA GROW 4470 RR/STS	4.4	3, 14			MT	MR	MR	MR
RR	DELTA GROW 4770 RR	4.7	3, 6			MT	MR	MR	MR
RR	DELTA GROW 4880 RR	4.8	3, 14			MT	MR	MR	R
LL	DELTA GROW 4861 LL	4.8							
RR	DELTA GROW 4970 RR	4.9	3, 14	1k		MT	MR	MR	MR
RR	DELTA GROW 4975 RR	4.9				MT	MR	MR	MR
RR/STS	DELTA GROW 5160 RR/STS	5.1	3, 14			MT	R	MR	MR
R2Y	DELTA GROW 5275 RR2	5.2	3, 14	1c		MT	MR	R	R-ROOT KNOT NEMATODE
RR	DELTA GROW 5280 RR	5.2	3, 14			MT	MR	MR	R-ROOT KNOT NEMATODE
RR/STS	DELTA GROW 5300 RR/STS	5.3	3, 9, 14	1c		MT	MR	MR	MR
LL	DELTA GROW 5461 LL	5.4	3			MT	MR	MR	R
RR	DELTA GROW 5555 RR	5.5	1, 3, 5, 9			MT	MR	MR	R-ROOT KNOT NEMATODE
EXP-R2Y	DELTAKING DKX 1473	4.7	3, 4			MT	MR	R	
EXP-R2Y	DELTAKING DKX 1491	4.9				MT	MR	R	
EXP-R2Y	DELTAKING DKX 1533	5.3	3, 14			MT	MR	MR	
EXP-R2Y	DELTAKING DKX 1537	5.3		1c			MR	MR	
EXP-R2Y	DELTAKING DKX 1539	5.3		1c			MS	R	
R2Y	DYNA-GRO 33RY39	3.9	3, 14			T	MR		
R2Y	DYNA-GRO 35RY47	4.7	3, 14			MT	MR	S	MS-FROGEYE LEAF SPOT
RR/STS	DYNA-GRO 36C44	4.4	3, 14			T	MR	R	R-FROGEYE LEAF SPOT
RR	DYNA-GRO 37P37	3.7	3, 14	1c		MT	MR		MR-FROGEYE LEAF SPOT
R2Y	DYNA-GRO 37RY47	4.7		1c		MT	R		S-FROGEYE LEAF SPOT
R2Y	DYNA-GRO 38RY45	4.5	3, 14			MS	R		MR-FROGEYE LEAF SPOT
RR	DYNA-GRO 47N8RR	4.7	3	1C		MT			MR-FROGEYE LEAF SPOT
RR/STS	DYNA-GRO V42N9RS	4.2	3, 14			MT	MR		R-FROGEYE LEAF SPOT
RR	EBBERTS 1365RR	3.6	3, 14	1c		T	MR	MR	R
RR	EBBERTS 1390RR	3.9	3, 14			MT	MR	MR	MR
R2Y	EBBERTS 2371RR2	3.7	3, 14	1c		MT	MR	MR	MR
R2Y	EBBERTS 2391RR2	3.9	3, 14	1c		MT	MR	MR	MR
CONV	EBBERTS 3361	3.6		1k, 3a		MT	MR	MR	MR

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Type ^B	Variety / Brand	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae ^{C,D}		Sudden Death Syndrome ^D	Soybean Mosaic Virus ^D	Stem Canker ^D	Other Reported Resistance
				Resistance Gene Rps	Field Tolerance				
CONV-P	ESSEX (long term check-released 1974)	5.0							
CONV-P	GLENN	5.3			S	R	S	R	Last year EXP V98-2711
LL	HALO 4:65	4.6	3	1c		MR			
LL	HALO 4:94	4.9	3	1k					
LL	HALO 5:25	5.2	3		T				
LL	HALO 5:65	5.6	3						
RR	HORNBECK HBK R4729	4.7	3		MT			R	MR-ROOT KNOT NEMATODE
RR	HORNBECK HBK R4829	4.8	3	1k		MR		R	
RR	HORNBECK HBK R4924	4.9	3, 14		MT	MR	R	R	
R2Y	HORNBECK HBK RY4620	4.6		1c	MT	MR			
R2Y	HORNBECK HBK RY4920	4.9			MT	MR		R	
R2Y	HORNBECK HBK RY5220	5.2			T	MR			
RR	L&M GLICK 40R	4.0	3		MT	MR			
R2Y	L&M GLICK 4210RR2	4.2	3	1k		R			
RR	L&M GLICK 843R	4.3	3		MT	MR			
EXP-R2Y	MORSOY R2 490	4.9			MT	MR	R		
EXP-R2Y	MORSOY R2 520	5.2	3, 14			MR	S		
EXP-R2Y	MORSOY R2S 480	4.8			MT	MR	NR		
EXP-R2Y	MORSOY R2S 4800	4.8			MT	MR	S		
RR	NK S38-H8 BRAND	3.8	3	1c	MT	MS			Last year EXP-RR XR3997
RR	NK S39-A3 BRAND	3.9	3, 14		MS	R			
R2Y	NK S42-T4 BRAND	4.2	3, 14			R		R	
RR	NK S44-D5 BRAND	4.4	3, 14	1c	MT	MR		R	
RR	NK S47-R3 BRAND	4.7							Last year EXP-RR: XR4893
RR	NK S48-C9 BRAND	4.8	3	1a	MT	MR		MR	
RR	NK S49-A5	4.9	3, 14	1c	MT	R		R	Last year Exp-RR: XR4995
EXP-R2Y	NK X2R4702	4.7				R		R	
EXP-R2Y	NK X2RS4200	4.2		1a		R			
CONV-P	PENNYRILE (long term check-released 1987)	4.7							
CONV	PIONEER VARIETY 93B82	3.8		1k	MT	MS			
RR	PIONEER VARIETY 93Y82	3.8	3		MT	MR			
RR	PIONEER VARIETY 93Y92	3.9	3		MS	MR			
RR	PIONEER VARIETY 94Y01	4.0	3	1k	MT	MR			
RR	PIONEER VARIETY 94Y20	4.2	3	1k	MT	MR			
CONV	PIONEER VARIETY 94Y21	4.2	3	1c	MT	MR			
RR	PIONEER VARIETY 94Y30	4.3		1k	MT	MR			
RR	PIONEER VARIETY 94Y60	4.6	3	1k	MT	R		MR	
RR	PIONEER VARIETY 94Y70	4.7	3		MT	MR		MR	
RR	PIONEER VARIETY 94Y92	4.9	3		MT	MR			
RR	PIONEER VARIETY 95Y01	5.0	3		MT	MR		MR	
RR	PIONEER VARIETY 95Y40	5.4	3	1k	MT	MR		MR	
RR	PROGENY 3909 RR	3.9	3, 14			MR		R	MR-FROGEYE LEAF SPOT
RR	PROGENY 3910 RY	3.9	3		T	MR			
RR	PROGENY 4206 RR	4.2	3, 14			S		R	MR-FROGEYE LEAF SPOT
R2Y	PROGENY 4209 RY	4.2		1k					
R2Y	PROGENY 4510 RY	4.5				MR			
RR	PROGENY 4606 RR	4.6	3, 14			MR		R	R-FROGEYE LEAF SPOT
R2Y	PROGENY 4610 RY	4.6				MR			
R2Y	PROGENY 4710 RY	4.7				MS			
RR	PROGENY 4750 RR	4.7		1k		MS		R	R-FROGEYE LEAF SPOT
RR	PROGENY 4807 RR	4.8	3			MR		MR	MR-FROGEYE LEAF SPOT
R2Y	PROGENY 4810 RY	4.8		1c		MS			
LL	PROGENY 4860 LL	4.8		1k		MS		MR	
RR	PROGENY 4906 RR	4.9		1a		MR	S	MR	MR-FROGEYE LEAF SPOT
RR	PROGENY 4908 RR	4.9				MR		MR	MR-FROGEYE LEAF SPOT
CONV	PROGENY 4910	4.9	3, 14			S		R	R-FROGEYE LEAF SPOT
R2Y	PROGENY 4920 RY	4.9				MS		MR	MR-FROGEYE LEAF SPOT
LL	PROGENY 4928 LL	4.9		1k					
RR	PROGENY 4949 RR	4.9			T			MR	R-FROGEYE LEAF SPOT
LL	PROGENY 4960 LL	4.9		1k		MS		MR	
RR	PROGENY 5330 RR	5.3			MT	MR		R	R-FROGEYE LEAF SPOT
RR	REV 35R10	3.5	3	1k	MT	MR			
RR	REV 38R10	3.8	3	1k	MT	R			
RR	REV 40R10	4.0	3	1k	MT	R			
RR	REV 44R22	4.4		1c	MT	MR			
RR	REV 45R10	4.5	3	1k	MT	MR		MR	
RR	REV 48R10	4.8	3	1k	MT	MR			
RR	REV 49R10	4.9	9	1k	MT	MR		MR	
RR	REV 49R11	4.9	3	1k	MT	MR		R	
CONV	SCHILLINGER EMERGE XC4910	4.9	3		MT	MR	R	R	
CONV	SCHILLINGER EMERGE XC5110	5.1	3		MT	MR	R	R	
CONV	SCHILLINGER EMERGE XP4520	4.5	3		MT	MR	R	R	
RR	SCHILLINGER SEED 457.RCP	4.5	3					R	
RR	SCHILLINGER SEED 458.RCS	4.5	3	1c				R	
RR	SCHILLINGER SEED 478.RCS	4.7	3					R	
RR	SCHILLINGER SEED 495.RC	4.9	3					R	
RR	SCHILLINGER SEED 4990.RC	4.9	3					R	
RR	SCHILLINGER SEED 557.RC	5.5	3					R	
RR	SEED CONSULTANTS SCS 9328RR	3.2		1k	MT	MR			R-FROGEYE LEAF SPOT
RR	SEED CONSULTANTS SCS 9330RR	3.3	3	1k	MT	MR			MR-FROGEYE LEAF SPOT
RR	SEED CONSULTANTS SCS 9351RR	3.5	3	1k	MT	MR			R-FROGEYE LEAF SPOT
RR	SEED CONSULTANTS SCS 9360RR	3.6	3	1k, 3a	MT	MR			R-FROGEYE LEAF SPOT, MT-CHARCOL ROT
RR	SEED CONSULTANTS SCS 9370RR	3.7	3	1a	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOL ROT
RR	SEED CONSULTANTS SCS 9381RR	3.8	3	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOL ROT
RR	SEED CONSULTANTS SCS 9390RR	3.9	3	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOL ROT
RR	SEED CONSULTANTS SCS 9391RR	3.1	3	1k	MT	MR			MR-FROGEYE LEAF SPOT
RR	SEED CONSULTANTS SCS 9398RR	3.9	3	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOL ROT
RR	SEED CONSULTANTS SCS 9401RR	4.0	3		MT	MR			R-FROGEYE LEAF SPOT, MT-CHARCOL ROT

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Type ^B	Variety / Brand	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae ^{C,D}		Sudden Death Syndrome ^D	Soybean Mosaic Virus ^D	Stem Canker ^D	Other Reported Resistance
				Resistance Gene Rps	Field Tolerance				
RR/STS	SEED CONSULTANTS SCS 9421RR	4.2	3	1k	MT	MR			
RR	SEED CONSULTANTS SCS 9441RR	4.4	3,14	1c	MT	MR			
RR	SEED CONSULTANTS SCS 9450RR	4.5	3	1k	MT	MR		MR	MR-FROGEYE LEAF SPOT
RR	SEED CONSULTANTS SCS 9480RR	4.8	3		MT	MR		MR	MR-FROGEYE LEAF SPOT, MT-CHARCOL ROT
RR/STS	SOUTHERN CROSS CALEB 4.4 N, RR, STS	4.4	3, 14		MT	MR			
RR/STS	SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	5.0	3, 14		MT	MR		MR	
R2Y	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	4.6		1c	MT	MR		MR	
RR/STS	SOUTHERN CROSS ELI 4.7 N, RR, STS	4.7	3, 14		MS	MR			
LL	SOUTHERN CROSS GABRIEL 4.2 N, LL	4.2	3, 14		MT	MR		MR	
RR	SOUTHERN CROSS GALILEE 4.7 N, RR	4.7	3	1c	MT	MR		R	
CONV	SOUTHERN CROSS JARED 4.6 N	3, 14	1c	MT					
R2Y	SOUTHERN CROSS JEDIDIAH 4.1 N, GENRR2Y	4.1	3, 14		MT	MR			
RR	SOUTHERN CROSS JERICO 4.2 N, RR	4.2	3, 14		MT	MR		R	
R2Y	SOUTHERN CROSS MALACHI 3.8 N, GENRR2Y	3.8	3, 14		MT	MR			
R2Y	SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	4.7	3, 14		MT	MR		R	
LL	SOUTHERN CROSS SHILOH 4.9 N, LL	4.9	3		MT				
LL	SOUTHERN STATES LL 396N	3.9	3, 14		MT	R			
LL	SOUTHERN STATES LL 430N	4.3	3, 14	1c	MT	MR			
LL	SOUTHERN STATES LL 450N	4.5	3, 14		MT	MR			
LL	SOUTHERN STATES LL 499N	4.9	3, 14		MT	MR			
LL	SOUTHERN STATES LL 511N	5.1	3, 14	1k	T	R			
RR	SOUTHERN STATES RT 3871N	3.8	3, 14	1c	MT	MR			
RR	SOUTHERN STATES RT 3971N	3.9	3, 14	1c	T	MR			
RR	SOUTHERN STATES RT 4370N	4.3	3, 14	1c	MT	MR			
RR	SOUTHERN STATES RT 4470N	4.4	3, 14	1c	MT	MR			
RR	SOUTHERN STATES RT 4760N	4.7		1c	T	MS			
RR	SOUTHERN STATES RT 4808N	4.8	3, 14	1a	T	R			
RR	SOUTHERN STATES RT 4888N	4.8	3, 14	1a	MT	MR			
RR	SOUTHERN STATES RT 4996N	4.9	3, 14	1c	MT	MR			
RR	SOUTHERN STATES RT 5160N	5.1	3	1c	MT	MR		R	
R2Y	SOUTHERN STATES SS 3820N R2	3.8	3, 14		MT	MR			
R2Y	SOUTHERN STATES SS 3910N R2	3.9	3, 14		MT	MR			
R2Y	SOUTHERN STATES SS 4510N R2	4.5	3, 14		MT	R			
R2Y	SOUTHERN STATES SS 4700N R2	4.7		1c	T	MS			
R2Y	STEWART 3600R2	3.6	3, 14	1c	MT	MR		MR	
R2Y	STEWART 3677R2	3.6	3, 14	1k	MT	MS		MR	
R2Y	STEWART 3800R2	3.8	3, 14	1c	MT	MR		MR	
R2Y	STEWART 4077R2	4.0	3, 14		MT	MR		MR	
R2Y	STEWART 4309R2	4.3	3, 14		MT	MR		MR	
R2Y	STEWART 4400R2	4.4	3, 14	1a	MT	MS		MR	
R2Y	STEWART 4509R2	4.5	3, 14	1c	MT	MR		MR	
R2Y	STEWART 4700R2	4.7	3, 14		MT	MR		MR	
R2Y	STEYER 4202R2	4.2	3	1k	MT	MR	MR	MR	
RR	STEYER 4430RR	4.4	3, 14		MT	MR	MR	MR	
R2Y	STEYER 4501R2	4.5		1c	MT	MR	MR	MR	
LL	STEYER 4801L	4.8	3, 14		MT	MR	MR	MR	
LL	STEYER 5201L	4.9	3, 14	1k	MT	MR	MR	MR	
RR	STEYER 5210RR	5.2	3, 14		MT	MR	MR	MR	
R2Y	STINE 39RA20	3.9	3, 14	1a	S				
RR	STINE 4392-4	4.3	3, 14		S				
R2Y	STINE 43RB82	4.3	3, 14		S				
RR	STINE 4782-4	4.7	3, 14		S			R	
CONV	UNISOUTH GENETICS USG 5002T	5.0							
CONV	UNISOUTH GENETICS USG 5601T	5.6				MR	R		MR-FROGEYE LEAF SPOT
RR	UNISOUTH GENETICS USG 73F59	3.5	3, MR-14	1c		MR			R-BROWN STEM ROT
RR/STS	UNISOUTH GENETICS USG 74B58	4.5	3, 14			MR		R	
RR/STS	UNISOUTH GENETICS USG 74G78	4.7	3, 14			MR		R	MR-FROGEYE LEAF SPOT
RR	UNISOUTH GENETICS USG 74T59	4.4							
RR	UNISOUTH GENETICS USG 74T98	4.9	3, 14			R			
RR	UNISOUTH GENETICS USG 75T18	5.1	3, 14						
RR	UNISOUTH GENETICS USG ALLEN (RR)	5.6				MR	R		MR-FROGEYE LEAF SPOT
CONV	UNIVERSITY OF ARKANSAS OSAGE	5.6			S	R		R	
CONV	UNIVERSITY OF ARKANSAS OSARK	5.2			MT	MR	R	R	
CONV	UNIVERSITY OF ARKANSAS R04-357	5.6				S	S	R	
CONV	UNIVERSITY OF ARKANSAS UA4805	4.8			MT	MR	MR	R	
CONV	UNIVERSITY OF ARKANSAS UA4910	4.9				MR	S	R	
CONV	UNIVERSITY OF MISSOURI S05-11268	5.0			T	R	MR		
CONV	UNIVERSITY OF MISSOURI S05-11482	5.1			T	R	MR		
RR	UNIVERSITY OF MISSOURI S06-3095RR	5.0	1, 3, 4, 5, 9, 14		T	R	MR		
RR	UNIVERSITY OF MISSOURI S06-4649RR	5.2	1, 3, 5, 9, 15		T		MR		
CONV	UNIVERSITY OF MISSOURI S07-5049	4.0			T	MR	R		
CONV	UNIVERSITY OF MISSOURI S07-5117	4.9			T	MR	R		

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

- ^B RR Roundup Ready variety (RR1 first generation, original trait, released in 1996).
R2Y Introduced in 2009, Roundup Ready 2 Yield soybean variety.
LL Introduced in 2009, Liberty Link is an Ignite (glufosinate ammonium) herbicide tolerant soybean variety.
STS Introduced in 1994, STS is a sulfonylurea herbicide tolerant soybean variety.
EXP Variety that is soon to be released or still being evaluated
CONV Variety is a conventional entry, ie: not Roundup Ready or Liberty Link.
P Entries with a P prefix are public varieties.

^C All races of *Phytophthora sojae* so far identified in Kentucky can be controlled with varieties with Rps 1c or 1k. Race-specific resistance 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 the early seedling growth stage.

^D blank spaces=no data provided by seed company or data unknown.
S=susceptible, MS=moderately susceptible, MR=moderately resistant, R=resistant, T=tolerant, MT=moderately tolerant

Seed Treatment

Research over five seasons of testing various seed applied insecticide treatments on soybean in Kentucky have not produced a single example of a statistically significant greater yield of treatments compared to the control. This is generally not related to the performance of the insecticide but rather to the fact that in Kentucky insect pressure is most commonly too low to warrant a control action (Doug Johnson, Ph. D., UK Extension Entomologist).

Most seed companies historically offer seed treatment as an optional treatment, relying heavily on dealers with treating equipment to treat seed as requested. One reason is to avoid any costly disposal issues with untreated seed, thus avoiding

having large inventories at the end of the season that cannot be dumped into the grain market at local elevators. Interestingly enough, almost all of the new traits introduced into the marketplace today require the inclusion of specified treatment products on all varieties containing the new traits. By requiring these treatment products the trait providers may increase their probability of achieving the yield increases the new traits might provide.

Currently, all LL soybeans, regardless of brand, include Trilex 6000 as a treatment as required by the trait provider, Bayer. In 2010, Monsanto will require all RR2Y soybeans to be treated and soybean producers will have the choice between using Monsanto's Acceleron, Syngenta's Cruiser Maxx Pack, or Bayer's Trilex 6000 on their RR2Y soybean seed.

Table 4. Seed Treatment.

Code	Name (Code)	Treatment	Chemical class/use	LD50 oral/dermA
1	Allegiance	Metalaxyl	systemic fungicide	2,900/ 2,000
2	Acceleron (1, 10, 11)	Metalaxyl, Imidacloprid, Pyraclostrobin	systemic & non-systemic fungicide, systemic insecticide	NA
3	Apron XL	Mefenoxam	systemic fungicide	862/ 2020
4	Apron Maxx (3, 12)	Mefenoxam, Fludioxonil	systemic & non-systemic fungicide	5,000/ 5,050
5	Cruiser	Thiamethoxam	systemic insecticide	5,000/ 5,050
6	Cruiser Maxx (3, 5, 12)	Mefenoxam, Thiamethoxam, Fludioxonil	systemic & non-systemic fungicide, systemic insecticide	5,000/ 5,000
7	Cruiser Extreme (6, 8)	Mefenoxam, Thiamethoxam, Fludioxonil, Axoxystrobin	systemic & non-systemic fungicide, systemic insecticide	5,000/ 5,050
8	Dynasty	Azoxystrobin	systemic fungicide	2,000/ 2,000
9	FaSTart®	Thiamethoxam	systemic insecticide	5,000/ 5,050
10	Gaucho	Imidacloprid	systemic insecticide	643/ 2,000
11	Headline	Pyraclostrobin	strobilurin fungicide	200-500/ 4,000
12	Maxim 4FS	Fludioxonil	non-systemic fungicide	5,050/ 2,020
13	Molybdenum	Molybdenum	stimulant (nitrogen fixing)	NA
14	Soygard (1, 8)	Metalaxyl, Azoxystrobin	systemic fungicide	5,000/2,000
15	Sure GroTM (4, 16)	Mefenoxam, Fludioxonil, Thiram	systemic & non-systemic fungicide	NA
16	Thiram	Thiram	fungicide	3580/4000
17	Trilex	Trifloxystrobin	systemic fungicide	5,000/5,000
18	Trilex 6000 (1, 10, 17)	Metalaxyl, Imidacloprid, Trifloxystrobin	systemic fungicide & systemic insecticide	NA
19	Warden (3, 12)	Mefenoxam, Fludioxonil	systemic & non-systemic fungicide,	5000/200
20	Optimize 400	Lipo-chitoooligosaccharide	natural growth enhancer	5000/2000
21	Rancona 3.8 FS	Ipconazole	systemic broad-spectrum fungicide	5000/slight
22	Escalate (3, 12, 16, 10)	Mefenoxam, Fludioxonil Thiram, Imidacloprid	systemic & non-systemic fungicide & systemic insecticide	640/2000
23	Meta Star ST	Metalaxyl	systemic fungicide	2,900/ 2,000

A The LD50 is a standardized measure for expressing and comparing the toxicity of chemicals. It is expressed as mg of chemical per kg (2.2 lbs.) body weight of test animal. The LD50 is the dose that kills half (50%) of the animals tested (LD = "lethal dose"). The LD50 data is from MSDS (Material Safety Data Sheet) websites.

Table 5. 2010 Summary: Variety Test Tables 6-10.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LOGGING 2010	% PROTEIN ^D			% OIL ^D		
			2010	09-10	08-10		2010	09-10	08-10	2010	09-10	08-10
3, 10, 17	RR	* PIONEER 94Y01	37.0	54.5	52.1	1.4	34.5	34.1	34.2	20.3	20.7	20.2
6	RR	* STINE 4392-4	36.9	56.6		1.1	36.3	35.3		18.8	19.9	
4, 5	RR	UNISOUTH GENETICS USG 74T59	36.7			1.6	36.6			18.5		
6	R2Y	* NK S42-T4 BRAND	36.6			1.5	36.5			17.1		
1, 10, 17	RR	* SOUTHERN STATES RT 4370N	36.5	52.6	49.5	1.5	36.1	35.7	35.7	18.7	19.5	19.5
2	R2Y	* CHANNEL 4101R2	36.5			1.2	35.6			19.7		
3, 12, 20	RR	* L&M GLICK 40R	36.2			1.2	36.2			20.0		
3, 12, 20	RR	* L&M GLICK 843R	36.1	53.3	49.3	1.4	36.5	35.7	35.6	19.4	19.9	19.8
1, 10, 17	RR	* SEED CONSULTANTS SCS 9401RR	36.1			1.2	37.2			19.1		
6	R2Y	* STINE 43R82	36.0			1.1	36.3			19.2		
3, 10, 17	RR	REV 44R22	35.8			1.2	36.5			18.2		
19	RR	* CROPLAN GENETICS RC4417	35.7			1.5	38.1			18.4		
3, 10, 17	RR	PIONEER 94Y30	35.4			1.1	35.0			20.6		
2	R2Y	* STEWART 4309R2	34.9			1.5	37.5			16.7		
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5049	34.7			1.7	38.2			18.5		
1, 10, 17	RR	* SEED CONSULTANTS SCS 9450RR	34.4	52.9		1.6	35.4	34.8		18.8	19.8	
2	R2Y	* BIOGENE BG 7420	34.3			1.4	37.0			19.3		
22	RR	* BECK 400NR	33.1	51.5		1.5	36.2	35.7		19.1	19.7	
3, 10, 17	RR	* REV 40R10	32.3			1.4	36.6			19.5		
3, 10, 17	CONV	* PIONEER 94Y21	31.7			1.4	35.7			20.1		
2	R2Y	* STEWART 4077R2	30.9			1.3	37.0			18.2		
2	R2Y	* CHANNEL 4000R2	28.6			1.3	37.6			18.7		
2	R2Y	* CHANNEL 4100R2	27.1			1.2	37.6			19.4		
6	EXP-R2Y	NK X2R4702	24.6			1.3	36.5			19.2		
EARLY GROUP IV AVERAGE			37.5	56.2	52.8	1.3	36.4	35.2	35.4	18.8	19.9	19.5
LSD (0.10)			3.3	4.8	3.7	0.1						
MATURITY GROUP LATE IV (RELATIVE MG 4.6-4.9)												
2	EXP-R2Y	MORSOY R2S 480	45.7			1.2	37.3			19.2		
6	RR	* ARMOR 48-J3	43.8	57.6	53.8	1.3	37.5	37.1	37.2	19.3	19.8	19.4
4	CONV	UNIVERSITY OF ARKANSAS UA4805	43.0			1.1	36.0			19.0		
18	R2Y	* SOUTHERN STATES SS 4700 R2	42.9			1.2	37.0			19.4		
3, 10, 17	RR	* PIONEER 94Y70	42.9	60.7	56.0	1.3	36.7	35.7	35.4	20.0	20.6	20.2
2	R2Y	DYNA-GRO 37RY47	42.1			1.2	37.5			17.9		
6	RR	PROGENY 4908 RR	41.6	58.1	54.1	1.3	35.9	35.1	35.1	19.7	20.0	19.6
4, 10, 13	LL	* HALO 4:65	41.2	54.7		1.3	37.6	36.7		17.9	19.3	
3, 12	RR	* DELTA GROW 4970 RR	41.1	55.7	52.4	1.3	36.7	35.9	36.0	18.9	19.5	19.3
4	CONV	UNIVERSITY OF ARKANSAS UA4910	41.0			1.3	35.3			19.6		
6	RR/STS	* ASGROW AG4606	41.0	56.9	53.4	1.3	37.4	35.9	35.5	18.6	20.2	20.4
2	EXP-R2Y	DELTA KING DKX 1491	40.9			1.4	35.8			19.2		
18	RR	* SOUTHERN STATES RT 4888N	40.8			1.3	35.2			19.4		
2	R2Y	PROGENY 4710 RY	40.8			1.2	37.6			18.4		
6	RR	PROGENY 4750 RR	40.6			1.4	37.6			19.2		
4, 10, 13	RR	* HORNBECK HBK R4924	40.6	56.1	52.1	1.3	36.6	36.0	35.9	19.0	19.6	19.4
6	RR	DAIRYLAND DSR-8482/RR	40.6	58.8	54.0	1.3	36.0	35.4	35.5	19.6	19.9	19.5
6	CONV	* SOUTHERN CROSS JARED 4.6 N	40.5			1.1	36.7			19.5		
2	R2Y/STS	ASGROW AG4730	40.5			1.2	36.0			18.9		
4, 5	RR	* SCHILLINGER SEED 4990.RC	40.2	57.1		1.3	36.1	36.4		19.7	19.9	
6	RR	DELTA GROW 4880 RR	40.2			1.4	38.6			18.3		
none	LL	STEYER 5201L	40.2			1.2	34.7			19.6		
2	R2Y/STS	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	40.1			1.2	37.4			18.5		
6	RR	* SOUTHERN CROSS GALILEE 4.7 N, RR	39.9	56.2	50.8	1.3	36.8	36.3	36.0	18.8	19.8	19.6
2	EXP-R2Y/STS	ARMOR ARX 1481	39.8			1.2	37.4			18.7		
6	RR	PROGENY 4906 RR	39.6	55.8	51.5	1.2	34.8	34.6	34.8	19.3	20.1	19.6
19	RR/STS	* CROPLAN GENETICS RC4757	39.6			1.1	34.8			19.7		
4, 5	RR	* SCHILLINGER SEED 495.RC	39.6	57.3	52.8	1.4	37.3	36.9	36.8	19.0	19.5	19.1
6	RR	DAIRYLAND DSR-4810/RR	39.5	57.5		1.2	37.5	36.8		19.1	19.6	
10, 17	RR	* CAVERNDAL CF 491 RRn	39.5			1.3	35.3			19.4		
2	EXP-R2Y	MORSOY R2 490	39.4			1.3	35.4			19.7		
3, 12	RR	* DELTA GROW 4770 RR	39.3	54.9	50.7	1.4	36.8	35.8	35.6	19.5	20.5	20.0
4, 5	RR/STS	* UNISOUTH GENETICS USG 74G78	39.1	57.4	53.3	1.1	35.3	34.7	34.4	18.9	20.1	19.9
6	CONV	* SCHILLINGER EMERGE XC4910	39.1			1.2	36.1			20.3		
3, 10, 17	RR	REV 49R10	39.1			1.4	35.6			20.2		
6	RR	* NK 548-C9 BRAND	39.1	57.1	53.0	1.2	35.8	35.7	35.3	18.7	19.3	19.1
6	RR	* STINE 4782-4	39.0	57.1	52.5	1.1	35.8	35.3	34.7	19.5	20.5	20.3
6	RR	* PROGENY 4807 RR	39.0	56.1	51.4	1.2	36.5	35.9	35.5	17.8	19.2	19.2
2	R2Y	HORNBECK HBK RY4920	39.0			1.3	36.2			19.7		
6	RR/STS	* ARMOR 47-F8	39.0	56.5	52.1	1.0	34.8	34.2	34.1	19.1	20.2	19.9
2	R2Y	ARMOR 48-R40	38.8			1.2	36.4			19.8		
4, 10, 13	RR	* HORNBECK HBK R4729	38.8	54.8		1.2	38.0	37.9		18.8	19.4	
6	LL	* SOUTHERN CROSS SHILOH 4.9 N, LL	38.7	55.5		1.2	34.6	35.0		19.4	19.6	
2	R2Y	ASGROW AG4630	38.7			1.2	37.7			18.9		
1, 10, 17	RR	* SOUTHERN STATES RT 4808N	38.6	55.3	51.6	1.2	35.1	34.5	34.9	20.1	20.1	19.7
6	RR	* DYNA-GRO 47N8RR	38.6			1.3	36.7			18.5		
4, 10	R2Y	HORNBECK HBK RY4620	38.6			1.2	36.7			18.9		
6	EXP-R2Y	NK X2R54200	38.6			1.2	37.1			18.4		
10, 17	R2Y	* CAVERNDAL CF 471 RR2Yn	38.5			1.2	36.6			18.8		
6	RR	* SOUTHERN CROSS ELI 4.7 N, RR, STS	38.4	56.1	51.3	1.0	34.9	34.4	34.2	20.0	20.7	20.4
2	R2Y	* SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	38.4			1.2	36.5			18.9		
2	EXP-R2Y/STS	ARMOR ARX 1477	38.3			1.2	36.6			19.6		
3, 12	RR	DELTA GROW 4975 RR	38.3	54.6	50.8	1.1	37.0	36.0	35.9	18.2	19.4	19.2
6	RR/STS	CROPLAN GENETICS R2T4799S	38.1			1.2	38.3			18.3		
2	R2Y	* DYNA-GRO 35RY47	38.0			1.3	36.3			19.1		
6	LL	PROGENY 4928 LL	38.0			1.3	34.4			19.4		
22	RR	* BECK 466NR	37.9			1.3	36.8			18.0		
18	RR	* SOUTHERN STATES RT 4760N	37.9			1.4	36.5			19.2		
6	LL	PROGENY 4860 LL	37.9			1.2	35.4			19.9		
1, 10, 17	LL	* SOUTHERN STATES LL 499N	37.7	56.1		1.3	35.2	35.1		18.8	19.6	
6	RR	* PROGENY 4606 RR	37.7	55.1	51.5	1.1	33.8	33.8	33.7	20.3	20.9	20.5
6	RR	* HORNBECK HBK R4829	37.6			1.4	37.6			19.5		
2	R2Y	* CHANNEL 4700R2	37.6			1.2	37.1			18.8		
6	RR	* ASGROW AG4907	37.5	56.5	52.3	1.3	35.7	35.2	35.2	18.5	19.6	19.3
6	EXP-R2Y	MORSOY R2S 4800	37.5			1.1	36.5			19.2		
2	R2Y	PROGENY 4810 RY	37.5			1.3	36.8			18.5		

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Table 5. 2010 Summary: Variety Test Tables 6-10.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010	% PROTEIN ^D			% OIL ^D			
			2010	09-10	08-10		2010	09-10	08-10	2010	09-10	08-10	
2	R2Y	PROGENY 4610 RY	37.5			1.2	36.9				19.1		
2	R2Y	* STEWART 4700R2	37.5			1.2	35.8				19.3		
2	EXP-R2Y	* DELTA KING DKX 1473	37.4			1.2	36.8				18.4		
6	RR	PROGENY 4949 RR	37.4	55.1	50.3	1.3	37.0	36.6	36.2	19.8	20.4	20.2	
4,5	RR	* SCHILLINGER SEED 478.RCS	37.3			1.3	34.9				19.1		
1,10,17	RR	* SOUTHERN STATES RT 4996N	37.2	55.5	50.9	1.3	37.3	36.5	36.3	19.2	20.2	20.0	
10,17	CONV	UNIVERSITY OF MISSOURI S07-5117	37.2			1.5	37.5				17.4		
6	R2Y	* CROPLAN GENETICS RR2C4660	37.0			1.2	35.6				18.8		
6	RR	* NK S49-A5 BRAND	37.0			1.3	36.9				18.0		
2	R2Y	* BIOGENE BG 7470	37.0			1.3	37.0				17.9		
6	CONV	* SCHILLINGER EMERGE XP4520	36.9			1.3	42.5				18.1		
4,10,13	LL	* HALO 4-94	36.7	54.2		1.2	34.1	34.6		19.3	19.9		
2	R2Y	PROGENY 4920 RY	36.5			1.3	36.1				19.7		
22	RR	* BECK 491NR	36.4	53.1		1.2	37.5	37.2		19.3	19.8		
6	RR	* NK S47-R3 BRAND	36.3			1.3	36.4				18.3		
3,5	RR	* UNISOUTH GENETICS USG 74T98	36.2	51.4	47.6	1.5	34.2	34.1	34.8	19.6	20.2	19.6	
2	R2Y/STS	ARMOR 47-R33	36.1			1.1	36.0				19.5		
6	LL	DELTA GROW 4861 LL	36.0			1.2	36.0				19.1		
3,10,17	RR	* REV 48R10	35.7			1.3	36.3				19.2		
none	LL	STEYER 4801L	35.3			1.2	34.6				20.3		
6	CONV	* PROGENY 4910	35.3			1.3	34.8				19.7		
2	EXP-R2Y	* ARMOR ARX 1471	34.4			1.1	36.5				18.9		
3,10,17	RR	* REV 49R11	34.2			1.1	37.8				18.9		
2	EXP-R2Y	* ARMOR ARX 1472	34.2			1.1	36.8				19.3		
3,10,17	RR	* PIONEER 94Y60	34.1	54.6	50.4	1.2	38.4	37.7	38.0	18.2	19.3	18.7	
6	LL	PROGENY 4960 LL	34.0			1.3	35.7				17.8		
19	RR	CROPLAN GENETICS RT4886S	34.0			1.3	36.3				19.1		
1,10,17	RR	* SEED CONSULTANTS SCS 9480RR	32.2	54.7		1.1	38.2	37.5		18.3	19.2		
3,10,17	RR	* PIONEER 94Y92	32.0			1.2	37.0				18.9		
none	CONV-P	PENNYRILE (long term check-released 1987)	28.9	44.6	42.5	1.3	38.1	37.5	37.3	19.1	20.0	19.7	
LATE GROUP IV AVERAGE			38.3	55.7	51.6	1.2	36.4	35.8	35.6	19.1	19.9	19.7	
LSD (0.10)			2.9	4.6	3.5	0.1							
MATURITY GROUP V													
4,5	CONV	UNISOUTH GENETICS USG 5601T	42.6	59.7	54.1	2.0	37.9	37.1	37.1	18.6	18.8	18.7	
4,10,13	LL	* HALO 5:25	40.6	57.2		1.4	38.2	36.8		17.9	19.0		
4,5	CONV	UNISOUTH GENETICS USG 5002T	40.3	56.6	52.6	1.8	35.7	35.3	35.6	18.6	19.4	19.1	
6	CONV	* SCHILLINGER EMERGE XCS110	39.5			1.4	38.2				18.1		
4	CONV	UNIVERSITY OF ARKANSAS OSAGE	39.3			1.3	38.3				17.5		
4,5	RR	* SCHILLINGER SEED 557.RC	38.3	57.0	51.2	1.9	37.9	37.2	37.2	18.1	18.6	18.3	
4	CONV	UNIVERSITY OF ARKANSAS R04-357	37.8			2.2	37.0				17.8		
4,10,13	LL	* HALO 5:65	37.4	55.5		1.5	37.5	36.5		17.6	18.2		
2	CONV	HORNBECK HBK RY5220	37.4			2.2	38.6				18.0		
3,10,17	RR	* PIONEER 95Y40	37.1	55.2		1.9	37.8	36.7		17.8	18.7		
2	EXP-R2Y	DELTA KING DKX 1537	37.0			1.7	38.2				17.3		
1,10,17	RR	* SOUTHERN STATES RT 5160N	37.0	55.0	49.0	1.9	36.3	35.4	36.0	17.6	18.6	18.2	
6	RR	* DELTA GROW 5555 RR	37.0	53.7		2.5	37.0	36.0		18.8	19.0		
10,17	CONV	UNIVERSITY OF MISSOURI S05-11482	36.7			2.1	36.0				18.6		
4	CONV	UNIVERSITY OF ARKANSAS OZARK	36.4			1.7	38.1				17.8		
6	RR	PROGENY 5330 RR	36.4			2.2	36.3				19.0		
2	EXP-R2Y	* DELTA KING DKX 1533	36.3			2.1	38.0				18.3		
3,5	RR	UNISOUTH GENETICS USG ALLEN (RR)	36.3			2.0	38.3				16.8		
6	RR	* DELTA GROW 5280 RR	36.2	52.5		2.3	37.9	36.5		18.2	19.0		
none	RR	* STEYER 5210RR	36.1			1.2	35.0				18.4		
6	EXP-R2Y	MORSOY R2 520	36.1			1.7	37.6				18.0		
6	RR/STS	* ARMOR 53-Z5	36.0	54.1	49.7	1.6	35.3	34.6	35.4	19.1	19.4	18.9	
6	R2Y	* DELTA GROW 5275 RR2	36.0			1.2	37.9				17.7		
10,17	CONV	UNIVERSITY OF MISSOURI S05-11268	36.0			1.6	36.2				18.9		
1,10,17	LL	* SOUTHERN STATES LL 511N	35.9	57.0		1.1	37.5	36.6		19.3	19.8		
6	RR/STS	* DELTA GROW 5300 RR/STS	35.8	55.1	49.7	2.1	36.3	35.3	35.9	18.7	19.1	18.6	
none	CONV-P	GLENN	35.7	53.7	49.1	2.0	37.0	36.5	37.1	18.2	18.7	18.4	
3,10,17	RR	* PIONEER 95Y01	35.5			1.8	37.7				17.9		
2	EXP-R2Y	* ARMOR ARX 1531	35.5			1.3	37.1				18.0		
3,5	RR	* UNISOUTH GENETICS USG 75T18	35.4			2.1	35.5				19.5		
2	EXP-R2Y	* ARMOR ARX 1535	35.0			2.0	36.8				18.6		
6	RR	* DAIRYLAND DSR-8509/RR	35.0	52.8	49.3	1.8	37.4	36.8	36.7	18.4	19.1	19.1	
10,17	RR	UNIVERSITY OF MISSOURI S06-4649RR	33.9			2.4	36.4				17.8		
6	LL	DELTA GROW 5461 LL	33.7			1.3	36.2				17.6		
6	RR/STS	* DELTA GROW 5160 RR/STS	33.7	53.0	48.5	1.9	37.5	37.2	36.9	18.6	19.4	19.6	
10,17	RR	UNIVERSITY OF MISSOURI S06-3095RR	32.9			2.4	36.3				17.2		
6	RR/STS	* SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	32.7	53.6	48.7	1.8	38.1	36.9	36.7	18.4	19.7	19.7	
none	CONV-P	ESSEX (long term check-released 1974)	32.4	47.9	44.4	1.5	38.7	37.9	38.0	17.6	18.4	18.3	
2	EXP-R2Y	DELTA KING DKX 1539	32.0			1.9	38.2				17.7		
2	EXP-R2Y	* ARMOR ARX 1551	31.6			1.4	36.6				18.3		
GROUP V AVERAGE			36.2	54.7	49.7	1.8	37.2	36.4	36.6	18.2	19.0	18.8	
LSD (0.10)			2.5	4.5	3.3	0.3							
GRAND MEAN			37.7	55.7	51.8	1.4	36.3	35.6	35.7	19.3	19.8	19.6	

A See Table 4 for seed treatment code names.

B * Resistant to soybean cyst nematode. See Table 3. Company Disease Resistance Specifications for details.

CONV Conventional variety (ie: not LL, RR, or R2Y).

EXP Experimental entries are varieties that are still under development or soon to be released.

LL LibertyLink variety—Ignite herbicide tolerant, trait introduced in 2009.

P Public varieties.

RR Roundup Ready variety—RR1 first generation, original trait introduced in 1996.

R2Y Roundup Ready 2 Yield variety—trait introduced in 2009.

STS Sulfonylurea herbicide tolerant soybean variety—trait introduced in 1994.

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

D Variety protein and oil concentration was determined at the Mclean Co. location in 2009-10 and at the Hancock County location in 2008. Data is expressed on the basis of 13% moisture. These data were provided by the University of Kentucky using near-infrared (NIR) analysis.

RECOMMENDED TABLE

Table 6. 2010 Caldwell County (UKREC) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
MATURITY GROUP III (RELATIVE MG 3.0-3.9)						
1, 10, 17	RR	* SEED CONSULTANTS SCS 9370RR	48.8	62.3		1.3
22	RR	* BECK 388NR	48.3			1.0
6	RR	* DYNA-GRO 37P37	47.8	61.9	60.4	1.0
2	R2Y	* ASGROW AG3931	47.1			1.3
1, 10, 17	RR	* SEED CONSULTANTS SCS 9351RR	46.9			1.3
1, 10, 17	RR	* SEED CONSULTANTS SCS 9381RR	46.7			1.0
22	RR	* BECK 393NR	46.6			1.3
2	R2Y	* DYNA-GRO 33RY39	46.4			1.8
3, 10, 17	RR	* PIONEER 93Y92	46.3	60.9		1.5
1, 10, 17	RR	* SEED CONSULTANTS SCS 9398RR	46.2	62.8	59.6	1.5
1, 10, 17	RR	* SEED CONSULTANTS SCS 9390RR	45.5	59.0		1.5
3, 10, 17	CONV	PIONEER 93B82	44.7			1.0
18	R2Y	* SOUTHERN STATES SS 3910N R2	44.3			1.5
18	LL	* SOUTHERN STATES LL 396N	44.1			1.0
2	R2Y	* SOUTHERN STATES SS 3820N R2	44.1			1.0
10, 17	RR	* CAVERDALE CF 395 RR/STSn	44.0			1.0
2	R2Y	* STEWART 3800R2	43.4			1.0
6	RR	* ASGROW AG3803	42.1	61.8	59.6	1.0
1, 10, 17	RR	* SOUTHERN STATES RT 3871N	41.9	56.2	56.0	1.3
3, 10, 17	RR	* REV 35R10	41.9			1.0
6	RR	* NK S39-A3 BRAND	41.8	59.0	58.8	1.5
1, 10, 17	RR	* SOUTHERN STATES RT 3971N	41.7	57.5	57.9	1.0
2	R2Y	* ASGROW AG3831	40.9			1.3
2	R2Y	* ASGROW AG3830	40.5			1.3
1, 10, 17	RR	* SEED CONSULTANTS SCS 9319RR	39.9			1.5
2	R2Y	* SOUTHERN CROSS MALACHI 3.8 N, GENRR2Y	39.5	58.0		1.0
2	R2Y	* STEWART 3600R2	39.5			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9330RR	39.0			1.0
2	R2Y	* PROGENY 3910 RY	38.7			1.0
2	R2Y	* STEWART 3677R2	37.8			1.0
6	RR	* NK S38-H8 BRAND	37.3	57.6		1.0
3, 10, 17	RR	* PIONEER 93Y82	36.2			1.5
2	R2Y	EBBERTS 2371RR2	36.1			1.0
2	R2Y	EBBERTS 2391RR2	35.7			1.3
21, 23	RR	* EBBERTS 1390RR	35.2	57.2		1.0
4, 5	RR	UNISOUTH GENETICS USG 73F59	34.4			1.0
1, 10, 17	RR	SEED CONSULTANTS SCS 9360RR	34.1			1.3
6	RR	* PROGENY 3909 RR	32.3	57.2		1.3
6	R2Y	* STINE 39RA20	32.0			1.0
21, 23	RR	* EBBERTS 1365RR	29.5	53.3	53.0	1.5
21, 23	CONV	EBBERTS 3361	28.8			1.0
3, 10, 17	RR	* REV 38R10	27.6			1.0
10, 17	CONV	* CAVERDALE CF 388n	26.7	49.2		1.0
1, 10, 17	RR	SEED CONSULTANTS SCS 9328RR	24.2			1.0
GROUP III AVERAGE			39.9	58.3	57.9	1.2
LSD (0.10)			7.3	4.6	3.5	0.3
MATURITY GROUP EARLY IV (RELATIVE MG 4.0-4.5)						
6	R2Y	PROGENY 4209 RY	48.4			1.3
6	RR	* PROGENY 4206 RR	47.4	60.7	60.7	1.3
1, 10, 17	LL	* SOUTHERN STATES LL 450N	47.4	57.9		1.5
2	R2Y	* STEWART 4509R2	46.9			1.5
none	R2Y	STEYER 4202R2	46.7			1.3
6	RR	* SOUTHERN CROSS CALEB 4.4 N, RR, STS	46.5	62.8	61.0	1.0
6	RR/STS	* DELTA GROW 4470 RR/STS	46.2	65.8	63.3	1.0
22	RR	* BECK 445NR	45.9	61.1	60.7	1.0
6	R2Y	STEYER 4501R2	45.8			1.3
10, 17	LL	* CAVERDALE CF 411 LLn	45.5			1.3
2	R2Y	* DYNA-GRO 38RY45	45.2			1.0
6	R2Y	* NK S42-T4 BRAND	45.0			1.8
6	R2Y	* STINE 43RB82	44.5			1.0
22	RR	* BECK 432NR	44.3			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9421RR	44.2			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 430N	44.0	57.2		1.8
2	R2Y	* STEWART 4077R2	44.0			1.5
2	R2Y	* ASGROW AG4130	43.5			1.0
6	RR	* STINE 4392-4	43.4	58.4		1.0
6	RR	* NK S44-D5 BRAND	43.3	57.5	57.5	1.3
2	R2Y/STS	* ASGROW AG4031	43.2			1.0
6	RR/STS	* ARMOR 44-K6	43.2	57.1	58.7	1.0
2	R2Y	* BIOGENE BG 7450	43.0			1.5
2	R2Y	* STEWART 4309R2	42.8			1.5
6	RR	* ASGROW AG4303	42.7	60.9	61.8	1.0
1, 10, 17	RR	SEED CONSULTANTS SCS 9441RR	42.6			1.0
3, 5	RR/STS	* UNISOUTH GENETICS USG 74B58	42.1			1.3
2	R2Y/STS	ASGROW AG4531	42.0			1.5
6	RR/STS	* DAIRYLAND DSR-4500/RRSTS	42.0	60.9	58.9	1.5
18	LL	* SOUTHERN CROSS GABRIEL 4.2 N, LL	41.6			1.5
3, 10, 17	RR	* PIONEER 94Y01	41.2	58.4	58.9	1.0
4, 5	RR	* SCHILLINGER SEED 457.RCP	41.2			2.3
3, 10, 17	RR	REV 44R22	41.2			1.3
2	R2Y	* CHANNEL 4101R2	41.2			1.3
18	R2Y	* SOUTHERN STATES SS 4510N R2	41.1			2.0
3, 12	RR	* BIOGENE BG 7400	40.8			1.0
none	RR/STS	* DYNA-GRO 36C44	40.1	62.1	61.6	1.0
6	RR	* DAIRYLAND DSR-4300/RR	40.1	53.5	54.9	1.8
none	RR	* STEYER 4430RR	40.0	61.8	62.3	1.0
2	R2Y	PROGENY 4510 RY	40.0			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9401RR	39.6			1.0
4, 5	RR	* SCHILLINGER SEED 458.RCS	39.3			1.0
3, 10, 17	RR	* REV 40R10	38.8			1.3

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Table 6. 2010 Caldwell County (UKREC) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
2	R2Y	CHANNEL 4500R2	38.5			1.0
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5049	38.5			1.8
3, 10, 17	CONV	* PIONEER 94Y21	38.1			1.5
2	R2Y	* SOUTHERN CROSS JEDIDIAH 4.1 N, GENRR2Y	37.9			1.5
1, 10, 17	RR	* SOUTHERN STATES RT 4470N	37.5	59.7	59.1	1.0
3, 10, 17	RR	* PIONEER 94Y20	37.3	55.8	56.9	1.3
2	R2Y	* STEWART 4400R2	37.3			1.0
3, 12, 20	RR	* L&M GLICK 843R	37.2	55.9	55.3	1.0
6	RR/STS	* DYNA-GRO V42N9RS	36.9	59.3	60.1	1.0
6	RR	* ARMOR 42-M1	36.9	54.2	55.4	1.0
3, 10, 17	RR	PIONEER 94Y30	36.9			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9450RR	36.5	51.2		1.5
22	RR	* BECK 400NR	36.1	55.5		1.5
6	R2Y	* ARMOR 44-R12	35.5			1.5
3, 10, 17	RR	* REV 45R10	35.4			1.8
1, 10, 17	RR	* SOUTHERN STATES RT 4370N	35.4	52.1	52.4	1.5
3, 12, 20	RR	* L&M GLICK 40R	34.7			1.0
6	RR	* SOUTHERN CROSS JERICO 4.2 N, RR	34.5	54.8	55.8	1.0
none	R2Y	L&M GLICK 4210RR2	34.5			1.3
19	RR	* CROPLAN GENETICS RC4417	33.1			1.5
2	R2Y	* BIOGENE BG 7420	32.8			1.5
4, 5	RR	UNISOUTH GENETICS USG 74T59	32.0			1.5
2	R2Y	* CHANNEL 4100R2	29.6			1.0
6	EXP-R2Y	NK X2R4702	28.8			1.0
2	R2Y	* CHANNEL 4000R2	27.3			1.0
EARLY GROUP IV AVERAGE			40.2	58.1	58.7	1.3
LSD (0.10)			7.7	5.2	4.0	0.4
MATURITY GROUP LATE IV (RELATIVE MG 4.6-4.9)						
2	R2Y	DYNA-GRO 37RY47	45.0			1.0
6	RR	* ARMOR 48-J3	44.7	57.7	55.6	1.0
none	LL	STEYER 5201L	43.8			1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4805	43.6			1.0
3, 12	RR	DELTA GROW 4975 RR	43.3	55.1	53.5	1.0
18	R2Y	* SOUTHERN STATES SS 4700 R2	43.0			1.0
6	LL	DELTA GROW 4861 LL	42.4			1.0
6	RR	* NK S48-C9 BRAND	42.1	60.0	59.4	1.0
6	CONV	* SOUTHERN CROSS JARED 4.6 N	42.1			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4808N	41.8	54.1	54.3	1.0
4, 5	RR/STS	* UNISOUTH GENETICS USG 74G78	41.3	58.5	58.3	1.0
3, 12	RR	* DELTA GROW 4970 RR	41.1	55.8	54.1	1.0
6	RR	PROGENY 4750 RR	40.8			1.0
3, 12	RR	* DELTA GROW 4770 RR	40.5	55.0	54.7	1.0
4, 5	RR	* SCHILLINGER SEED 495.RC	40.1	55.2	54.3	1.0
6	RR	DELTA GROW 4880 RR	40.1			1.0
4, 5	RR	* SCHILLINGER SEED 4990.RC	39.8	58.9		1.0
2	R2Y	* STEWART 4700R2	39.5			1.0
6	RR	DAIRYLAND DSR-8482/RR	39.3	57.9	56.0	1.0
6	RR	* DYNA-GRO 47N8RR	39.3			1.0
2	EXP-R2Y	* DELTA KING DKX 1473	39.3			1.0
2	R2Y	PROGENY 4610 RY	38.7			1.0
2	EXP-R2Y	MORSOY R2S 480	38.6			1.0
6	RR	* DAIRYLAND DSR-4810/RR	38.5	58.7		1.0
6	RR	* SOUTHERN CROSS GALILEE 4.7 N, RR	38.4	53.4	53.5	1.0
6	R2Y	* CROPLAN GENETICS RR2C4660	38.4			1.0
2	R2Y	ASGROW AG4630	38.3			1.0
2	EXP-R2Y	DELTA KING DKX 1491	38.3			1.0
18	RR	* SOUTHERN STATES RT 4888N	38.3			1.0
4, 10, 13	RR	* HORNBECK HBK R4924	38.1	57.7	55.3	1.0
6	CONV	* SCHILLINGER EMERGE XP4520	38.1			1.0
6	LL	PROGENY 4860 LL	37.8			1.0
6	RR	* HORNBECK HBK R4829	37.5			1.0
6	EXP-R2Y	NK X2RS4200	37.5			1.0
3, 10, 17	RR	* PIONEER 94Y70	37.4	57.4	57.6	1.0
3, 5	RR	* UNISOUTH GENETICS USG 74T98	37.4	51.2	48.9	1.0
6	RR	* PROGENY 4606 RR	37.3	58.1	56.6	1.0
3, 10, 17	RR	* REV 49R11	37.3			1.0
6	RR	PROGENY 4906 RR	37.0	52.3	50.2	1.0
4, 10	R2Y	HORNBECK HBK RY4620	36.8			1.0
2	R2Y	PROGENY 4920 RY	36.8			1.0
6	RR/STS	* ARMOR 47-F8	36.6	57.0	55.9	1.0
6	RR	* STINE 4782-4	36.6	56.3	55.9	1.0
10, 17	R2Y	* CAVERDALE CF 471 RR2Yn	36.4			1.0
4, 10, 13	RR	* HORNBECK HBK R4729	36.0	55.9		1.0
none	LL	STEYER 4801L	36.0			1.0
22	RR	* BECK 491NR	35.8	55.0		1.0
6	RR	PROGENY 4949 RR	35.7	54.2	54.0	1.0
6	RR	* NK S49-A5 BRAND	35.7			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4996N	35.5	57.7	53.9	1.0
2	R2Y	* BIOGENE BG 7470	35.5			1.0
2	R2Y/STS	ASGROW AG4730	35.5			1.0
6	RR	* SOUTHERN CROSS ELI 4.7 N, RR, STS	35.4	54.0	54.9	1.0
6	RR/STS	CROPLAN GENETICS R2T4799S	35.1			1.0
6	RR	* ASGROW AG4907	35.0	56.5	54.3	1.0
6	RR	PROGENY 4908 RR	34.9	56.5	57.0	1.0
10, 17	RR	* CAVERDALE CF 491 RRn	34.8			1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4910	34.7			1.0
4, 10, 13	LL	* HALO 4:65	34.7	53.4		1.0
4, 10, 13	LL	* HALO 4:94	34.5	51.4		1.0
2	EXP-R2Y	MORSOY R2 490	34.5			1.0
6	EXP-R2Y	MORSOY R2S 4800	34.3			1.0
6	CONV	* SCHILLINGER EMERGE XC4910	33.9			1.0
6	RR	* PROGENY 4807 RR	33.7	53.9	54.6	1.0

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Table 6. 2010 Caldwell County (UKREC) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5117	33.7			1.0
6	LL	* SOUTHERN CROSS SHILOH 4.9 N, LL	33.2	52.9		1.0
2	EXP-R2Y/STS	ARMOR ARX 1477	33.0			1.0
3, 10, 17	RR	* REV 49R10	32.8			1.0
2	EXP-R2Y	* ARMOR ARX 1471	32.8			1.0
4, 5	RR	* SCHILLINGER SEED 478.RCS	32.5			1.0
2	R2Y	* SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	32.2			1.0
19	RR	CROPLAN GENETICS RT4886S	32.2			1.0
2	R2Y/STS	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	32.0			1.0
6	CONV	* PROGENY 4910	32.0			1.0
2	R2Y	* DYNA-GRO 35RY47	31.5			1.0
3, 10, 17	RR	* REV 48R10	31.4			1.0
2	R2Y	* CHANNEL 4700R2	31.4			1.0
19	RR/STS	* CROPLAN GENETICS RC4757	31.2			1.0
6	RR/STS	* ASGROW AG4606	31.1	51.7	53.8	1.0
6	LL	PROGENY 4928 LL	30.6			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9480RR	30.1	52.9		1.0
22	RR	* BECK 466NR	29.9			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 499N	29.9	51.1		1.0
2	R2Y	PROGENY 4710 RY	29.5			1.0
2	R2Y	HORNBECK HBK RY4920	29.4			1.0
2	R2Y	ARMOR 48-R40	29.1			1.0
2	EXP-R2Y/STS	ARMOR ARX 1481	29.1			1.0
6	RR	NK S47-R3 BRAND	28.8			1.0
3, 10, 17	RR	* PIONEER 94Y60	28.5	52.1	52.9	1.0
3, 10, 17	RR	* PIONEER 94Y92	28.4			1.0
18	RR	* SOUTHERN STATES RT 4760N	28.3			1.0
6	LL	PROGENY 4960 LL	28.2			1.0
2	EXP-R2Y	* ARMOR ARX 1472	27.0			1.0
2	R2Y/STS	ARMOR 47-R33	26.8			1.0
none	CONV-P	PENNYRILE (long term check-released 1987)	26.6	43.0	43.4	1.0
2	R2Y	PROGENY 4810 RY	26.2			1.0
LATE GROUP IV AVERAGE			35.5	54.9	54.3	1.0
LSD (0.10)			7.4	4.7	3.6	
MATURITY GROUP V						
4, 5	CONV	UNISOUTH GENETICS USG 5601T	44.8	61.4	56.8	2.8
3, 5	RR	UNISOUTH GENETICS USG ALLEN (RR)	39.7			2.8
4, 10, 13	LL	* HALO 5:25	39.4	55.8		2.0
4	CONV	UNIVERSITY OF ARKANSAS OZARK	38.1			2.0
4, 5	RR	* SCHILLINGER SEED 557.RC	37.9	59.3	53.1	1.8
6	CONV	* SCHILLINGER EMERGE XC5110	37.8			1.0
6	EXP-R2Y	MORSOY R2 520	36.9			1.8
4, 5	CONV	UNISOUTH GENETICS USG 5002T	36.8	56.7	55.2	2.0
4	CONV	UNIVERSITY OF ARKANSAS R04-357	36.7			2.3
6	RR	* DELTA GROW 5280 RR	36.2	51.3		2.5
1, 10, 17	RR	* SOUTHERN STATES RT 5160N	35.7	53.6	48.7	2.0
2	EXP-R2Y	DELTA KING DKX 1537	34.5			1.8
none	CONV-P	GLENN	34.3	53.7	50.5	2.0
6	RR	* DELTA GROW 5555 RR	34.3	54.4		3.0
3, 10, 17	RR	* PIONEER 95Y40	34.0	53.9		2.0
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11482	33.7			2.0
6	LL	DELTA GROW 5461 LL	32.8			1.0
6	RR/STS	* DELTA GROW 5300 RR/STS	32.7	52.8	50.4	2.5
4	CONV	UNIVERSITY OF ARKANSAS OSAGE	32.6			1.0
4, 10, 13	LL	* HALO 5:65	32.4	50.2		1.0
6	RR	* DAIRYLAND DSR-8509/RR	32.0	53.1	50.2	2.0
6	R2Y	* DELTA GROW 5275 RR2	32.0			1.0
2	EXP-R2Y	* ARMOR ARX 1551	32.0			1.0
none	RR	* STEYER 5210RR	31.8			1.0
2	CONV	HORNBECK HBK RY5220	31.4			2.3
6	RR/STS	* ARMOR 53-Z5	30.7	52.3	50.5	1.0
1, 10, 17	LL	* SOUTHERN STATES LL 511N	29.5	54.4		1.0
2	EXP-R2Y	* DELTA KING DKX 1533	29.4			2.3
10, 17	RR	UNIVERSITY OF MISSOURI S06-3095RR	29.2			2.3
2	EXP-R2Y	DELTA KING DKX 1539	29.1			1.8
2	EXP-R2Y	* ARMOR ARX 1531	28.8			1.3
6	RR	PROGENY 5330 RR	28.6			2.0
10, 17	RR	UNIVERSITY OF MISSOURI S06-4649RR	27.7			2.5
3, 10, 17	RR	* PIONEER 95Y01	27.5			1.5
6	RR/STS	* SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	26.6	51.9	50.1	1.8
none	CONV-P	ESSEX (long term check-released 1974)	26.2	46.0	44.5	1.3
6	RR/STS	* DELTA GROW 5160 RR/STS	25.8	55.0	52.8	1.8
3, 5	RR	* UNISOUTH GENETICS USG 75T18	24.6			1.8
2	EXP-R2Y	* ARMOR ARX 1535	24.5			2.0
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11268	24.4			1.0
GROUP V AVERAGE			32.3	53.9	51.2	1.8
LSD (0.10)			5.0	4.0	3.2	0.4
GRAND MEAN			37.1	56.1	55.5	1.2

A See Table 4 for seed treatment code names.

B * Resistant to soybean cyst nematode. See Table 3. Company Disease Resistance Specifications for details.

CONV Conventional variety (ie: not LL, RR, or R2Y).

EXP Experimental entries are varieties that are still under development or soon to be released.

LL LibertyLink variety—Ignite herbicide tolerant, trait introduced in 2009.

P Public varieties.

RR Roundup Ready variety—RR1 first generation, original trait introduced in 1996.

R2Y Roundup Ready 2 Yield variety—trait introduced in 2009.

STS Sulfonylurea herbicide tolerant soybean variety—trait introduced in 1994.

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

Table 7. 2010 Calloway County (MSU) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
MATURITY GROUP III (RELATIVE MG 3.0-3.9)						
6	RR	* NK S39-A3 BRAND	34.0	49.2	47.0	1.0
18	LL	* SOUTHERN STATES LL 396N	32.8			1.0
22	RR	* BECK 393NR	31.0			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9370RR	30.8	47.0		1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9381RR	30.5			1.0
2	R2Y	* ASGROW AG3830	30.0			1.0
22	RR	* BECK 388NR	29.7			1.0
2	R2Y	* ASGROW AG3931	28.9			1.0
18	R2Y	* SOUTHERN STATES SS 3910N R2	28.8			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9398RR	28.8	44.8	46.4	1.0
2	R2Y	* EBBERTS 2371RR2	28.7			1.0
10, 17	RR	* CAVERDALE CF 395 RR/STSn	28.5			1.0
6	RR	* ASGROW AG3803	28.3	46.0	45.0	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9330RR	28.1			1.0
3, 10, 17	RR	* PIONEER 93Y92	28.0	48.4		1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9390RR	28.0	45.6		1.0
3, 10, 17	RR	* REV 38R10	27.4			1.0
6	RR	* DYNA-GRO 37P37	27.2	46.7	43.5	1.0
6	RR	* NK S38-H8 BRAND	27.2	47.6		1.0
3, 10, 17	CONV	* PIONEER 93B82	26.9			1.0
21, 23	RR	* EBBERTS 1390RR	26.8	46.8		1.0
2	R2Y	* DYNA-GRO 33RY39	26.7			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9360RR	26.4			1.0
10, 17	CONV	* CAVERDALE CF 388n	26.1	44.5		1.0
2	R2Y	* PROGENY 3910 RY	26.1			1.0
6	RR	* PROGENY 3909 RR	26.0	44.3		1.0
2	R2Y	* ASGROW AG3831	25.6			1.0
2	R2Y	* STEWART 3800R2	25.2			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9351RR	25.1			1.0
6	R2Y	* STINE 39RA20	24.6			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 3971N	24.5	43.8	41.3	1.0
1, 10, 17	RR	* SOUTHERN STATES RT 3871N	24.4	42.4	41.9	1.0
3, 10, 17	RR	* PIONEER 93Y82	24.2			1.0
2	R2Y	* EBBERTS 2391RR2	24.2			1.0
4, 5	RR	* UNISOUTH GENETICS USG 73F59	24.0			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9319RR	23.8			1.0
21, 23	RR	* EBBERTS 1365RR	23.7	44.1	42.5	1.0
2	R2Y	* STEWART 3600R2	23.5			1.0
2	R2Y	* SOUTHERN STATES SS 3820N R2	22.9			1.0
3, 10, 17	RR	* REV 35R10	22.6			1.0
2	R2Y	* SOUTHERN CROSS MALACHI 3.8 N, GENRR2Y	20.3	42.5		1.0
21, 23	CONV	* EBBERTS 3361	20.2			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9328RR	20.2			1.0
2	R2Y	* STEWART 3677R2	17.5			1.0
GROUP III AVERAGE			26.3	45.6	43.9	1.0
LSD (0.10)			4.3	3.8	2.9	
MATURITY GROUP EARLY IV (RELATIVE MG 4.0-4.5)						
6	RR	* DAIRYLAND DSR-4300/RR	38.6	51.0	49.0	1.0
6	RR	* SOUTHERN CROSS CALEB 4.4 N, RR, STS	37.3	53.6	47.6	1.0
6	RR/STS	* DAIRYLAND DSR-4500/RRSTS	36.7	51.5	48.2	1.0
4, 5	RR	* SCHILLINGER SEED 458.RCS	36.3			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 430N	36.0	49.9		1.0
1, 10, 17	LL	* SOUTHERN STATES LL 450N	33.2	48.2		1.0
2	R2Y	* ASGROW AG4130	32.6			1.0
2	R2Y	* PROGENY 4510 RY	32.3			1.0
4, 5	RR	* SCHILLINGER SEED 457.RCP	32.1			1.0
2	R2Y	* STEWART 4509R2	32.1			1.0
6	R2Y	* PROGENY 4209 RY	31.8			1.0
18	LL	* SOUTHERN CROSS GABRIEL 4.2 N, LL	31.8			1.0
6	R2Y	* STEYER 4501R2	31.6			1.0
18	R2Y	* SOUTHERN STATES SS 4510N R2	31.5			1.0
none	RR/STS	* DYNA-GRO 36C44	31.2	47.2	44.6	1.0
none	RR	* STEYER 4430RR	31.2	47.9	44.6	1.0
6	RR	* NK S44-D5 BRAND	31.1	48.9	47.2	1.0
6	RR/STS	* DYNA-GRO V42N9RS	31.1	51.9	48.4	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9421RR	31.0			1.0
2	R2Y	* BIOGENE BG 7450	30.8			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9441RR	30.4			1.0
none	R2Y	* L&M GLICK 4210RR2	30.2			1.0
6	R2Y	* NK S42-T4 BRAND	30.2			1.0
2	R2Y/STS	* ASGROW AG4031	30.1			1.3
3, 10, 17	RR	* PIONEER 94Y20	29.8	47.8	47.4	1.0
10, 17	CONV	* UNIVERSITY OF MISSOURI S07-5049	29.6			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4370N	29.5	48.3	45.8	1.0
4, 5	RR	* UNISOUTH GENETICS USG 74T59	29.5			1.5
6	RR	* SOUTHERN CROSS JERICHO 4.2 N, RR	29.4	47.8	44.6	1.0
2	R2Y	* DYNA-GRO 38RY45	29.2			1.0
6	RR	* ARMOR 42-M1	29.1	47.0	47.7	1.0
10, 17	LL	* CAVERDALE CF 411 LLn	29.1			1.0
2	R2Y/STS	* ASGROW AG4531	29.0			1.0
22	RR	* BECK 445NR	28.4	47.0	45.5	1.0
6	R2Y	* ARMOR 44-R12	28.4			1.3
22	RR	* BECK 432NR	28.3			1.0
3, 5	RR/STS	* UNISOUTH GENETICS USG 74B58	28.2			1.0
19	RR	* CROPLAN GENETICS RC4417	28.2			1.0
2	R2Y	* CHANNEL 4500R2	28.2			1.0
6	RR	* STINE 4392-4	28.0	48.8		1.0
3, 10, 17	RR	* REV 44R22	27.9			1.0
2	R2Y	* STEWART 4077R2	27.8			1.0
6	RR/STS	* DELTA GROW 4470 RR/STS	27.6	46.7	45.5	1.0

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Table 7. 2010 Calloway County (MSU) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
3, 10, 17	RR	* REV 45R10	26.9			1.0
3, 10, 17	RR	* REV 40R10	26.8			1.0
none	R2Y	* STEYER 4202R2	26.5			1.0
6	RR	* PROGENY 4206 RR	26.3	45.3	42.7	1.0
3, 12, 20	RR	* L&M GLICK 843R	26.3	42.5	41.5	1.0
3, 10, 17	RR	* PIONEER 94Y30	26.1			1.0
6	RR/STS	* ARMOR 44-K6	26.0	47.7	45.0	1.0
3, 10, 17	CONV	* PIONEER 94Y21	25.1			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4470N	24.6	47.1	44.7	1.0
6	RR	* ASGROW AG4303	24.3	47.3	45.5	1.0
2	R2Y	* STEWART 4400R2	24.3			1.0
6	R2Y	* STINE 43R882	24.0			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9401RR	23.5			1.0
3, 10, 17	RR	* PIONEER 94Y01	23.1	45.3	44.1	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9450RR	23.0	41.5		1.5
22	RR	* BECK 400NR	22.7	42.4		1.0
2	R2Y	* CHANNEL 4101R2	22.6			1.0
3, 12	RR	* BIOGENE BG 7400	22.2			1.0
2	R2Y	* BIOGENE BG 7420	21.8			1.0
3, 12, 20	RR	* L&M GLICK 40R	21.0			1.0
6	EXP-R2Y	* NK X2R4702	19.8			1.0
2	R2Y	* SOUTHERN CROSS JEDIDIAH 4.1 N, GENRR2Y	19.8			1.0
2	R2Y	* STEWART 4309R2	19.8			1.0
2	R2Y	* CHANNEL 4000R2	17.4			1.0
2	R2Y	* CHANNEL 4100R2	16.1			1.0
EARLY GROUP IV AVERAGE			28.0	47.6	45.8	1.0
LSD (0.10)			5.7	3.8	3.2	0.2
MATURITY GROUP LATE IV (RELATIVE MG 4.6-4.9)						
2	EXP-R2Y	MORSOY R2S 480	42.3			1.0
6	RR	* PROGENY 4807 RR	39.6	51.5	48.7	1.0
3, 10, 17	RR	* REV 49R10	38.4			1.0
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5117	37.9			1.0
4, 10, 13	LL	* HALO 4:65	37.4	51.3		1.0
6	RR	DELTA GROW 4880 RR	37.3			1.0
6	RR	DAIRYLAND DSR-8482/RR	36.7	51.3	49.4	1.0
19	RR/STS	* CROPLAN GENETICS RC4757	36.6			1.0
6	RR	PROGENY 4908 RR	36.6	48.2	47.9	1.0
6	RR	* PROGENY 4606 RR	36.2	50.3	49.0	1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4910	36.1			1.0
6	RR	* ARMOR 48-J3	35.5	49.8	49.4	1.0
4, 5	RR	* SCHILLINGER SEED 4990.RC	35.3	52.9		1.0
6	LL	PROGENY 4928 LL	35.2			1.0
3, 10, 17	RR	* PIONEER 94Y70	35.1	50.0	49.0	1.0
2	R2Y	ARMOR 48-R40	34.8			1.0
none	LL	STEYER 4801L	34.7			1.0
10, 17	R2Y	* CAVERNDALE CF 471 RR2Yn	34.6			1.0
2	R2Y/STS	ARMOR 47-R33	34.4			1.0
6	RR	* SOUTHERN CROSS GALILEE 4.7 N, RR	34.4	51.6	47.0	1.0
6	RR/STS	* ARMOR 47-F8	34.3	51.3	49.4	1.0
6	CONV	* SOUTHERN CROSS JARED 4.6 N	34.1			1.0
6	LL	* SOUTHERN CROSS SHILOH 4.9 N, LL	34.0	56.6		1.0
2	EXP-R2Y	* DELTA KING DKX 1473	33.7			1.0
2	R2Y	* DYNA-GRO 35RY47	33.6			1.0
6	RR/STS	* ASGROW AG4606	33.5	49.0	47.4	1.0
4, 10	R2Y	HORNBECK HBK RY4620	33.5			1.0
3, 12	RR	* DELTA GROW 4770 RR	33.4	49.1	47.3	1.0
2	EXP-R2Y	DELTA KING DKX 1491	33.4			1.0
4, 5	RR	* SCHILLINGER SEED 495.RC	33.3	50.5	47.3	1.0
4, 10, 13	RR	* HORNBECK HBK R4729	33.2	47.7		1.0
2	R2Y	HORNBECK HBK RY4920	33.2			1.0
6	RR	* HORNBECK HBK R4829	33.1			1.0
2	R2Y	PROGENY 4920 RY	32.8			1.0
2	R2Y	PROGENY 4710 RY	32.7			1.0
10, 17	RR	* CAVERNDALE CF 491 RRn	32.4			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4996N	32.1	49.3	47.8	1.0
2	R2Y/STS	ASGROW AG4730	32.0			1.0
2	R2Y	PROGENY 4810 RY	31.9			1.0
6	LL	PROGENY 4860 LL	31.8			1.0
4, 10, 13	LL	* HALO 4:94	31.7	53.8		1.0
3, 10, 17	RR	* REV 48R10	31.6			1.0
4, 10, 13	RR	* HORNBECK HBK R4924	31.5	49.6	50.0	1.0
2	R2Y	* STEWART 4700R2	31.4			1.0
2	EXP-R2Y/STS	ARMOR ARX 1481	31.1			1.0
6	RR	* STINE 4782-4	31.1	48.7	47.5	1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4808N	31.0	46.7	46.4	1.0
1, 10, 17	LL	* SOUTHERN STATES LL 499N	31.0	54.4		1.0
22	RR	* BECK 466NR	31.0			1.0
6	RR	PROGENY 4906 RR	31.0	47.4	46.8	1.0
19	RR	CROPLAN GENETICS RT4886S	31.0			1.0
3, 5	RR	* UNISOUTH GENETICS USG 74T98	30.9	48.6	48.1	1.0
6	EXP-R2Y	NK X2RS4200	30.7			1.0
18	R2Y	* SOUTHERN STATES SS 4700 R2	30.7			1.0
3, 12	RR	* DELTA GROW 4970 RR	30.6	49.1	48.8	1.0
6	RR	* ASGROW AG4907	30.3	46.4	45.1	1.0
6	RR	* DAIRYLAND DSR-4810/RR	30.2	46.8		1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4805	30.2			1.0
18	RR	* SOUTHERN STATES RT 4760N	30.2			1.0
2	R2Y/STS	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	30.2			1.0
6	EXP-R2Y	MORSOY R2S 4800	29.9			1.0
4, 5	RR	* SCHILLINGER SEED 478.RCS	29.9			1.0
6	RR	* SOUTHERN CROSS ELI 4.7 N, RR, STS	29.8	47.4	45.8	1.0
6	RR	* NK S48-C9 BRAND	29.6	48.1	46.3	1.0

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Table 7. 2010 Calloway County (MSU) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
2	R2Y	* CHANNEL 4700R2	29.5			1.0
6	RR	* NK S49-A5 BRAND	29.1			1.0
2	R2Y	* BIOGENE BG 7470	28.8			1.0
none	LL	STEYER 5201L	28.6			1.0
2	EXP-R2Y	MORSOY R2 490	28.3			1.0
6	CONV	* SCHILLINGER EMERGE XC4910	28.2			1.0
18	RR	* SOUTHERN STATES RT 4888N	27.9			1.0
3, 12	RR	DELTA GROW 4975 RR	27.9	47.1	45.1	1.0
4, 5	RR/STS	* UNISOUTH GENETICS USG 74G78	27.7	43.9	45.2	1.0
6	RR	NK S47-R3 BRAND	27.4			1.0
6	LL	PROGENY 4960 LL	27.3			1.0
none	CONV-P	PENNYRILE (long term check-released 1987)	27.3	42.3	40.3	1.0
2	R2Y	* SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	27.0			1.0
2	R2Y	PROGENY 4610 RY	26.9			1.0
2	R2Y	DYNA-GRO 37RY47	26.8			1.0
2	EXP-R2Y/STS	ARMOR ARX 1477	26.8			1.0
6	RR/STS	CROPLAN GENETICS R2T4799S	26.7			1.0
3, 10, 17	RR	* REV 49R11	26.3			1.0
6	CONV	* SCHILLINGER EMERGE XP4520	26.2			1.0
6	RR	PROGENY 4750 RR	26.1			1.0
6	CONV	* PROGENY 4910	25.8			1.0
6	LL	DELTA GROW 4861 LL	25.6			1.0
2	R2Y	ASGROW AG4630	25.3			1.0
22	RR	* BECK 491NR	25.1	45.7		1.0
3, 10, 17	RR	* PIONEER 94Y92	24.9			1.0
6	RR	PROGENY 4949 RR	24.8	43.9	42.4	1.0
2	EXP-R2Y	* ARMOR ARX 1472	24.6			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9480RR	24.3	43.8		1.0
6	RR	* DYNA-GRO 47N8RR	24.2			1.0
6	R2Y	* CROPLAN GENETICS RR2C4660	24.1			1.0
2	EXP-R2Y	* ARMOR ARX 1471	23.1			1.0
3, 10, 17	RR	* PIONEER 94Y60	22.6	45.2	42.4	1.0
LATE GROUP IV AVERAGE			30.9	48.8	46.9	1.0
LSD (0.10)			6.1	3.9	3.2	
MATURITY GROUP V						
6	RR	* DELTA GROW 5555 RR	39.2	56.4		1.5
4, 5	CONV	UNISOUTH GENETICS USG 5601T	38.8	57.4	54.5	1.0
4	CONV	UNIVERSITY OF ARKANSAS R04-357	38.8			1.0
6	RR	* DELTA GROW 5280 RR	38.1	54.8		1.5
1, 10, 17	RR	* SOUTHERN STATES RT 5160N	37.4	54.5	50.6	1.3
4	CONV	UNIVERSITY OF ARKANSAS OZARK	36.0			1.0
3, 5	RR	UNISOUTH GENETICS USG ALLEN (RR)	35.9			1.0
4	CONV	UNIVERSITY OF ARKANSAS OSAGE	35.8			1.0
4, 10, 13	LL	* HALO 5:65	34.4	52.6		1.0
4, 10, 13	LL	* HALO 5:25	33.9	53.4		1.0
4, 5	CONV	UNISOUTH GENETICS USG 5002T	32.7	52.2	51.4	1.0
3, 10, 17	RR	* PIONEER 95Y40	32.7	51.8		1.0
4, 5	RR	* SCHILLINGER SEED 557.RC	32.7	55.3	53.2	1.0
6	RR/STS	* DELTA GROW 5300 RR/STS	31.9	51.5	49.6	1.5
2	EXP-R2Y	DELTA KING DKX 1537	30.8			1.3
6	RR/STS	* DELTA GROW 5160 RR/STS	30.7	45.1	43.9	1.0
10, 17	RR	UNIVERSITY OF MISSOURI S06-4649RR	30.7			1.5
1, 10, 17	LL	* SOUTHERN STATES LL 511N	30.4	52.8		1.0
2	EXP-R2Y	* ARMOR ARX 1535	30.3			1.3
2	EXP-R2Y	DELTA KING DKX 1539	29.9			1.0
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11482	29.9			1.0
none	RR	* STEYER 5210RR	29.5			1.0
3, 5	RR	* UNISOUTH GENETICS USG 75T18	29.2			1.0
2	CONV	HORNBECK HBK RY5220	29.2			1.0
6	CONV	* SCHILLINGER EMERGE XC5110	29.2			1.0
none	CONV-P	GLENN	29.1	47.2	46.5	1.0
6	RR	PROGENY 5330 RR	28.3			1.0
10, 17	RR	UNIVERSITY OF MISSOURI S06-3095RR	27.9			1.5
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11268	27.5			1.0
2	EXP-R2Y	* DELTA KING DKX 1533	27.1			1.0
6	RR	* DAIRYLAND DSR-8509/RR	26.3	43.0	42.5	1.0
3, 10, 17	RR	* PIONEER 95Y01	26.3			1.0
6	EXP-R2Y	MORSOY R2 520	26.3			1.0
6	RR/STS	* ARMOR 53-Z5	25.5	44.9	45.8	1.0
2	EXP-R2Y	* ARMOR ARX 1551	25.5			1.0
2	EXP-R2Y	* ARMOR ARX 1531	24.6			1.0
6	RR/STS	* SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	23.8	42.8	42.8	1.0
none	CONV-P	ESSEX (long term check-released 1974)	21.8	40.1	41.4	1.0
6	R2Y	* DELTA GROW 5275 RR2	21.0			1.0
6	LL	DELTA GROW 5461 LL	20.6			1.0
GROUP V AVERAGE			30.2	50.3	47.5	1.1
LSD (0.10)			6.2	4.3	3.1	0.3
GRAND MEAN			29.2	48.2	46.3	1.0

A See Table 4 for seed treatment code names.

B * Resistant to soybean cyst nematode. See Table 3. Company Disease Resistance Specifications for details.

CONV Conventional variety (ie: not LL, RR, or R2Y).

EXP Experimental entries are varieties that are still under development or soon to be released.

LL LibertyLink variety—Ignite herbicide tolerant, trait introduced in 2009.

P Public varieties.

RR Roundup Ready variety—RR1 first generation, original trait introduced in 1996.

R2Y Roundup Ready 2 Yield variety—trait introduced in 2009.

STS Sulfonylurea herbicide tolerant soybean variety—trait introduced in 1994.

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

Table 8. 2010 Fayette County (UK) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010	PLANT HEIGHT (IN) 2010	MATURITY DATE 2010
			2010	09-10	08-10			
MATURITY GROUP III (RELATIVE MG 3.0-3.9)								
3, 10, 17	CONV	PIONEER 93B82	66.2			2.3	46	9/14
1, 10, 17	RR	* SEED CONSULTANTS SCS 9330RR	65.9			2.0	45	9/14
2	R2Y	* STEWART 3677R2	65.3			2.0	42	9/13
6	RR	* NK 539-A3 BRAND	64.8	71.2	61.6	2.3	43	9/19
3, 10, 17	RR	* REV 35R10	64.8			2.0	44	9/16
1, 10, 17	RR	* SEED CONSULTANTS SCS 9381RR	63.8			1.8	40	9/20
22	RR	* BECK 388NR	63.2			2.0	46	9/17
2	R2Y	* DYNA-GRO 33RY39	63.1			2.5	48	9/17
21, 23	RR	* EBBERTS 1365RR	62.9	72.5	62.1	2.5	42	9/16
2	R2Y	* STEWART 3600R2	62.9			2.0	43	9/14
6	RR	* NK 538-H8 BRAND	62.7	73.2		1.8	44	9/19
4, 5	RR	UNISOUTH GENETICS USG 73F59	62.7			2.3	45	9/14
2	R2Y	* PROGENY 3910 RY	62.3			2.3	47	9/16
3, 10, 17	RR	* REV 38R10	61.5			2.0	43	9/16
2	R2Y	EBBERTS 2371RR2	61.4			2.3	45	9/16
6	RR	* DYNA-GRO 37P37	61.3	68.8	58.7	2.0	44	9/17
18	LL	* SOUTHERN STATES LL 396N	61.0			2.8	43	9/19
6	RR	* ASGROW AG3803	60.9	71.0	62.2	2.3	46	9/17
1, 10, 17	RR	* SOUTHERN STATES RT 3871N	60.5	67.5	59.8	2.5	49	9/21
1, 10, 17	RR	* SEED CONSULTANTS SCS 9319RR	60.4			2.0	41	9/12
2	R2Y	* ASGROW AG3830	60.3			2.3	49	9/21
2	R2Y	* STEWART 3800R2	60.3			2.5	47	9/16
22	RR	* BECK 393NR	60.2			2.5	47	9/16
2	R2Y	* ASGROW AG3931	59.9			2.8	46	9/17
1, 10, 17	RR	* SEED CONSULTANTS SCS 9370RR	59.9	69.5		2.0	48	9/19
18	R2Y	* SOUTHERN STATES SS 3910N R2	59.7			2.5	46	9/21
2	R2Y	* ASGROW AG3831	59.3			2.5	48	9/19
21, 23	RR	* EBBERTS 1390RR	59.1	64.1		2.5	45	9/17
3, 10, 17	RR	* PIONEER 93Y82	59.0			2.8	39	9/17
1, 10, 17	RR	SEED CONSULTANTS SCS 9360RR	58.7			2.3	49	9/19
10, 17	RR	* CAVERDALE CF 395 RR/STn	58.5			2.3	42	9/17
1, 10, 17	RR	* SEED CONSULTANTS SCS 9398RR	58.4	69.2	62.8	2.5	47	9/19
2	R2Y	* SOUTHERN STATES SS 3820N R2	58.0			2.8	46	9/17
1, 10, 17	RR	SEED CONSULTANTS SCS 9328RR	57.7			2.0	40	9/19
21, 23	CONV	EBBERTS 3361	57.3			2.3	42	9/16
1, 10, 17	RR	* SEED CONSULTANTS SCS 9351RR	57.3			2.3	43	9/16
1, 10, 17	RR	* SEED CONSULTANTS SCS 9390RR	57.3	63.1		2.8	46	9/20
3, 10, 17	RR	* PIONEER 93Y92	56.2	68.8		2.8	45	9/19
6	R2Y	* STINE 39RA20	56.1			2.0	45	9/16
2	R2Y	* SOUTHERN CROSS MALACHI 3.8 N, GENRR2Y	54.6	63.7		2.3	44	9/17
1, 10, 17	RR	* SOUTHERN STATES RT 3971N	53.0	61.3	56.2	2.3	45	9/21
10, 17	CONV	* CAVERDALE CF 388n	51.7	65.1		3.0	41	9/17
6	RR	* PROGENY 3909 RR	50.6	64.7		2.8	47	9/19
2	R2Y	EBBERTS 2391RR2	45.6			2.3	48	9/22
GROUP III AVERAGE			59.7	67.6	60.5	2.3	45	9/17
LSD (0.10)			5.0	3.9	3.0	0.4	2	
MATURITY GROUP EARLY IV (RELATIVE MG 4.0-4.5)								
1, 10, 17	LL	* SOUTHERN STATES LL 430N	64.2	68.2		2.5	47	9/22
2	R2Y/STS	* ASGROW AG4031	64.1			2.0	39	9/20
2	R2Y	* SOUTHERN CROSS JEDIDIAH 4.1 N, GENRR2Y	62.9			2.3	46	9/21
6	RR/STS	* ARMOR 44-K6	62.4	67.8	58.6	1.8	45	9/21
6	RR/STS	* DYNA-GRO V42N9RS	61.6	67.5	60.0	1.8	40	9/20
2	R2Y	* BIOGENE BG 7420	60.4			2.5	47	9/21
3, 10, 17	RR	* PIONEER 94Y20	59.6	65.8	57.0	2.5	48	9/21
6	RR	* ASGROW AG4303	57.6	68.9	61.9	1.8	40	9/21
2	R2Y	* BIOGENE BG 7450	57.6			2.0	53	9/23
2	R2Y/STS	ASGROW AG4531	56.9			2.3	45	9/23
none	R2Y	* L&M GLICK 4210RR2	56.7			2.5	48	9/24
2	R2Y	CHANNEL 4500R2	56.5			2.3	43	9/22
6	RR	* SOUTHERN CROSS JERICHO 4.2 N, RR	56.4	65.5	56.4	1.5	42	9/20
3, 10, 17	RR	* REV 45R10	55.9			3.0	47	9/23
none	RR	* STEYER 4430RR	55.5	66.1	56.3	1.5	39	9/21
3, 12	RR	* BIOGENE BG 7400	55.2			2.3	43	9/21
6	RR	* PROGENY 4206 RR	55.1	62.3	56.8	2.0	40	9/20
3, 12, 20	RR	* L&M GLICK 40R	54.3			1.5	42	9/21
3, 10, 17	RR	* PIONEER 94Y01	54.1	65.6	57.3	2.5	44	9/20
2	R2Y	* ASGROW AG4130	53.9			2.0	42	9/19
2	R2Y	* STEWART 4509R2	53.8			1.5	41	9/21
6	R2Y	STEYER 4501R2	53.6			1.8	45	9/23
1, 10, 17	RR	* SEED CONSULTANTS SCS 9401RR	53.6			1.8	45	9/19
6	RR	* NK 544-D5 BRAND	53.0	67.5	58.8	2.3	43	9/23
3, 10, 17	RR	PIONEER 94Y30	52.7			1.3	43	9/22
2	R2Y	* STEWART 4400R2	52.4			2.0	46	9/22
6	R2Y	PROGENY 4209 RY	52.2			1.8	44	9/24
10, 17	LL	* CAVERDALE CF 411 LLn	52.1			2.0	45	9/20
2	R2Y	* DYNA-GRO 38RY45	51.9			1.5	42	9/20
18	LL	* SOUTHERN CROSS GABRIEL 4.2 N, LL	51.8			2.3	47	9/21
2	R2Y	* CHANNEL 4101R2	51.8			1.5	43	9/20
6	RR	* ARMOR 42-M1	51.6	65.0	56.4	1.5	42	9/22
6	RR	* STINE 4392-4	51.6	63.7		1.5	39	9/21
6	R2Y	* ARMOR 44-R12	51.5			2.8	50	9/25
1, 10, 17	RR	* SEED CONSULTANTS SCS 9421RR	51.5			1.3	37	9/21
2	R2Y	* CHANNEL 4100R2	51.1			2.0	45	9/20
22	RR	* BECK 445NR	50.8	65.3	55.7	1.8	37	9/21
2	R2Y	* CHANNEL 4000R2	50.7			2.3	42	9/21
3, 10, 17	CONV	* PIONEER 94Y21	50.5			2.0	43	9/21
2	R2Y	* STEWART 4309R2	50.5			2.8	48	9/23
19	RR	* CROPLAN GENETICS RC4417	50.3			2.8	51	9/23
1, 10, 17	RR	* SOUTHERN STATES RT 4370N	50.3	62.0	54.5	2.8	48	9/21
1, 10, 17	RR	* SEED CONSULTANTS SCS 9450RR	49.8	62.4		2.8	51	9/21

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Table 8. 2010 Fayette County (UK) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010	PLANT HEIGHT (IN) 2010	MATURITY DATE 2010
			2010	09-10	08-10			
3, 12, 20	RR	* L&M GLICK 843R	49.6	61.0	53.6	2.5	46	9/22
1, 10, 17	RR	SEED CONSULTANTS SCS 9441RR	49.5			2.3	43	9/23
none	R2Y	STEYER 4202R2	49.5			2.5	48	9/24
6	RR/STS	* DELTA GROW 4470 RR/STS	49.2	60.9	55.2	1.5	40	9/21
none	RR/STS	* DYNA-GRO 36C44	49.0	61.8	55.8	1.0	39	9/21
2	R2Y	PROGENY 4510 RY	49.0			2.3	43	9/22
3, 5	RR/STS	* UNISOUTH GENETICS USG 74B58	48.3			1.5	40	9/21
6	RR	* SOUTHERN CROSS CALEB 4.4 N, RR, STS	48.1	64.5	56.2	2.0	40	9/21
1, 10, 17	RR	* SOUTHERN STATES RT 4470N	47.8	59.5	53.7	1.8	38	9/22
22	RR	* BECK 432NR	47.4			1.5	37	9/20
4, 5	RR	* SCHILLINGER SEED 457.RCP	47.1			3.0	47	9/22
6	RR	* DAIRYLAND DSR-4300/RR	47.1	63.5	53.1	2.5	43	9/21
22	RR	* BECK 400NR	46.8	60.5		3.0	46	9/21
18	R2Y	* SOUTHERN STATES SS 4510N R2	46.3			1.8	44	9/23
4, 5	RR	* SCHILLINGER SEED 458.RCS	45.5			1.8	42	9/24
6	R2Y	* STINE 43RB82	43.7			1.5	41	9/22
6	R2Y	* NK S42-T4 BRAND	43.7			2.3	49	9/22
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5049	42.6			3.3	47	9/21
3, 10, 17	RR	* REV 40R10	42.6			2.5	44	9/20
1, 10, 17	LL	* SOUTHERN STATES LL 450N	40.5	58.0		1.8	51	9/23
6	RR/STS	* DAIRYLAND DSR-4500/RRSTS	37.6	54.4	48.0	2.0	45	9/22
3, 10, 17	RR	REV 44R22	37.4			1.8	41	9/22
2	R2Y	* STEWART 4077R2	35.9			1.8	44	9/20
4, 5	RR	UNISOUTH GENETICS USG 74T59	35.0			2.8	48	9/25
6	EXP-R2Y	NK X2R4702	34.3			2.3	44	9/20
EARLY GROUP IV AVERAGE			50.9	63.6	56.1	2.1	44	9/21
LSD (0.10)			8.4	4.9	3.6	0.5	3	
MATURITY GROUP LATE IV (RELATIVE MG 4.6-4.9)								
2	EXP-R2Y	MORSOY R2S 480	61.8			1.8	45.5	9/23
2	R2Y	DYNA-GRO 37RY47	61.3			1.8	42.0	9/22
3, 10, 17	RR	* PIONEER 94Y70	60.1	75.7	64.1	2.3	47.5	9/23
2	R2Y/STS	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	59.6			1.8	41.0	9/22
6	RR/STS	* ASGROW AG4606	58.3	68.6	59.4	2.3	46.5	9/22
18	R2Y	* SOUTHERN STATES SS 4700 R2	58.0			1.8	44.0	9/23
4, 10, 13	LL	* HALO 4:65	55.9	71.5		2.3	48.0	9/22
18	RR	* SOUTHERN STATES RT 4760N	55.3			3.0	46.0	9/22
2	R2Y	PROGENY 4710 RY	54.8			1.8	44.5	9/23
6	RR	PROGENY 4750 RR	54.4			2.8	44.0	9/29
6	RR	* ARMOR 48-J3	54.3	62.9	55.7	2.3	47.5	9/29
2	R2Y/STS	ASGROW AG4730	54.1			2.0	42.5	9/24
6	RR	* SOUTHERN CROSS GALILEE 4.7 N, RR	53.9	66.0	55.9	2.3	49.0	9/26
3, 10, 17	RR	* PIONEER 94Y60	53.5	69.6	59.1	2.0	43.0	9/24
22	RR	* BECK 491NR	53.4	59.7		1.8	42.0	9/22
19	RR/STS	* CROPLAN GENETICS RC4757	53.0			1.3	37.0	9/23
3, 12	RR	* DELTA GROW 4770 RR	53.0	64.8	55.3	3.0	46.5	9/23
2	EXP-R2Y	* ARMOR ARX 1471	53.0			1.3	38.0	9/22
2	R2Y	ARMOR 48-R40	52.9			1.8	42.5	9/23
2	R2Y	PROGENY 4810 RY	52.8			2.3	44.0	9/24
6	RR	* DYNA-GRO 47N8RR	52.7			2.3	47.0	9/26
2	EXP-R2Y	DELTA KING DKX 1491	52.5			2.8	43.5	9/25
2	R2Y	* SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	52.4			2.0	48.0	9/26
6	RR	* SOUTHERN CROSS ELI 4.7 N, RR, STS	52.3	70.1	58.4	1.0	37.0	9/22
2	EXP-R2Y	* ARMOR ARX 1472	52.1			1.3	38.5	9/22
6	CONV	* SOUTHERN CROSS JARED 4.6 N	51.9			1.5	48.0	9/22
3, 12	RR	DELTA GROW 4975 RR	51.8	63.9	55.2	1.5	40.0	9/26
6	RR	DELTA GROW 4880 RR	51.3			2.8	44.0	9/27
10, 17	R2Y	* CAVERNDAL CF 471 RR2Yn	50.9			2.0	47.5	9/27
6	RR/STS	CROPLAN GENETICS R2T4799S	50.9			1.8	41.5	9/26
2	EXP-R2Y/STS	ARMOR ARX 1481	50.5			2.0	42.5	9/23
2	R2Y	* STEWART 4700R2	50.4			1.8	47.0	9/24
6	RR	* STINE 4782-4	50.2	63.5	54.0	1.3	39.0	9/22
2	EXP-R2Y	MORSOY R2 490	50.0			2.5	49.0	9/27
6	RR	PROGENY 4908 RR	50.0	63.6	55.1	2.5	48.5	9/29
6	RR	* DAIRYLAND DSR-4810/RR	49.9	62.4		2.0	44.5	9/23
4, 5	RR	* SCHILLINGER SEED 4990.RC	49.8	58.8		2.5	45.5	9/29
2	EXP-R2Y/STS	ARMOR ARX 1477	49.7			2.0	43.0	9/23
2	R2Y	* DYNA-GRO 35RY47	49.6			2.3	50.0	9/24
6	EXP-R2Y	NK X2RS4200	48.9			2.0	47.5	9/26
18	RR	* SOUTHERN STATES RT 4888N	48.8			2.5	47.5	9/24
6	CONV	* SCHILLINGER EMERGE XC4910	48.7			2.0	47.5	10/3
4	CONV	UNIVERSITY OF ARKANSAS UA4910	48.2			2.5	44.5	9/26
2	R2Y	ASGROW AG4630	48.1			2.0	44.0	9/23
6	RR	* PROGENY 4807 RR	48.1	64.5	54.6	2.0	43.5	9/26
1, 10, 17	RR	* SOUTHERN STATES RT 4996N	48.1	61.1	51.8	2.5	48.0	9/29
6	RR	* NK S48-C9 BRAND	47.9	66.6	57.7	2.0	42.0	9/24
2	EXP-R2Y	* DELTA KING DKX 1473	47.7			2.0	48.0	9/26
4, 10	R2Y	HORNBECK HBK RY4620	47.6			2.0	40.0	9/24
4	CONV	UNIVERSITY OF ARKANSAS UA4805	47.3			1.3	33.5	10/7
2	R2Y	HORNBECK HBK RY4920	47.3			2.3	45.5	9/26
4, 5	RR	* SCHILLINGER SEED 495.RC	47.2	64.7	55.6	3.0	50.0	10/2
6	LL	PROGENY 4860 LL	47.1			2.0	52.0	9/23
6	RR	* PROGENY 4606 RR	47.1	62.6	54.3	1.3	39.5	9/26
4, 10, 13	RR	* HORNBECK HBK R4924	47.0	61.8	53.5	2.3	53.0	10/2
2	R2Y/STS	ARMOR 47-R33	46.9			1.5	41.5	9/23
22	RR	* BECK 466NR	46.9			2.3	49.0	9/23
6	RR	PROGENY 4906 RR	46.9	60.9	54.2	2.0	46.0	9/27
6	CONV	* SCHILLINGER EMERGE XP4520	46.8			2.5	46.5	9/25
6	RR	* HORNBECK HBK R4829	46.7			2.8	42.0	9/26
6	LL	* SOUTHERN CROSS SHILOH 4.9 N, LL	46.5	54.0		2.0	48.0	10/3
6	EXP-R2Y	MORSOY R2S 4800	46.5			1.5	42.0	9/23
6	R2Y	* CROPLAN GENETICS RR2C4660	46.2			2.0	47.0	9/26
6	RR/STS	* ARMOR 47-F8	46.0	60.4	52.4	1.0	39.5	9/24

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Table 8. 2010 Fayette County (UK) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010	PLANT HEIGHT (IN) 2010	MATURITY DATE 2010
			2010	09-10	08-10			
2	R2Y	PROGENY 4610 RY	46.0			1.8	41.0	9/23
3, 10, 17	RR	* REV 49R11	46.0			1.5	41.0	9/22
1, 10, 17	LL	* SOUTHERN STATES LL 499N	45.9	52.7		2.3	50.5	9/26
10, 17	CONV	UNIVERSITY OF MISSOURI 507-5117	45.9			3.3	46.5	9/29
10, 17	RR	* CAVERNDALE CF 491 RRn	45.8			2.3	45.0	9/30
1, 10, 17	RR	* SOUTHERN STATES RT 4808N	45.7	64.7	57.3	2.0	42.5	9/24
6	LL	DELTA GROW 4861 LL	45.6			2.0	50.0	9/24
6	RR	* NK S49-A5 BRAND	45.4			2.3	44.0	9/24
6	CONV	* PROGENY 4910	45.3			2.5	50.5	10/2
4, 5	RR	* SCHILLINGER SEED 478.RCS	45.3			2.5	49.5	10/3
19	RR	CROPLAN GENETICS RT4886S	45.2			2.3	46.5	9/30
3, 12	RR	* DELTA GROW 4970 RR	44.7	60.8	54.2	2.5	49.5	10/5
3, 10, 17	RR	* REV 49R10	44.6			2.8	43.5	9/30
2	R2Y	* BIOGENE BG 7470	44.3			2.3	49.0	9/25
3, 10, 17	RR	* REV 48R10	44.3			2.5	44.0	9/24
6	RR	* ASGROW AG4907	43.9	62.1	55.5	2.3	47.5	9/23
6	LL	PROGENY 4960 LL	43.2			2.3	49.0	9/29
4, 10, 13	LL	* HALO 4:94	43.1	53.7		2.0	47.0	9/30
none	LL	STEYER 4801L	43.1			2.0	48.5	9/24
4, 5	RR/STS	* UNISOUTH GENETICS USG 74G78	42.9	66.8	57.2	1.5	38.5	9/25
6	LL	PROGENY 4928 LL	42.7			2.3	49.0	10/2
6	RR	DAIRYLAND DSR-8482/RR	42.5	63.0	55.8	2.3	46.0	10/3
none	CONV-P	PENNYRILE (long term check-released 1987)	42.4	54.2	47.9	2.3	52.0	9/26
6	RR	PROGENY 4949 RR	42.1	61.1	52.8	2.5	49.5	9/29
6	RR	NK S47-R3 BRAND	41.9			2.3	48.0	9/25
1, 10, 17	RR	* SEED CONSULTANTS SCS 9480RR	41.8	66.6		1.5	41.5	9/22
2	R2Y	* CHANNEL 4700R2	41.4			2.0	49.0	9/23
3, 10, 17	RR	* PIONEER 94Y92	41.3			2.0	45.5	9/26
2	R2Y	PROGENY 4920 RY	41.1			2.3	42.0	9/26
none	LL	STEYER 5201L	40.8			2.0	44.5	9/29
4, 10, 13	RR	* HORNBECK HBK R4729	40.5	57.5		2.0	42.0	9/27
3, 5	RR	* UNISOUTH GENETICS USG 74T98	33.4	48.4	42.4	3.3	38.5	10/6
LATE GROUP IV AVERAGE			48.5	62.5	55.0	2.1	45.0	9/25
LSD (0.10)			6.0	4.8	3.5	0.4	3.5	
MATURITY GROUP V								
6	R2Y	* DELTA GROW 5275 RR2	56.3			2.0	46	9/25
2	EXP-R2Y	* ARMOR ARX 1531	50.5			1.3	36	10/6
6	CONV	* SCHILLINGER EMERGE XC5110	49.6			2.0	44	9/30
3, 10, 17	RR	* PIONEER 95Y01	49.2			3.0	48	10/3
6	LL	DELTA GROW 5461 LL	49.2			1.8	48	10/3
4, 10, 13	LL	* HALO 5:25	49.1	62.1		1.3	33	10/5
none	RR	* STEYER 5210RR	48.7			1.3	38	9/27
4, 5	CONV	UNISOUTH GENETICS USG 5002T	48.3	53.5	48.4	2.8	41	10/2
6	RR	* DAIRYLAND DSR-8509/RR	47.7	60.0	52.6	3.0	50	10/5
6	RR/STS	* DELTA GROW 5160 RR/STS	47.6	58.7	48.7	2.8	44	10/2
2	EXP-R2Y	* DELTA KING DKX 1533	46.0			3.0	39	10/7
1, 10, 17	LL	* SOUTHERN STATES LL 511N	45.9	58.9		1.3	39	10/3
4	CONV	UNIVERSITY OF ARKANSAS OSAGE	45.9			1.8	39	10/8
none	CONV-P	ESSEX (long term check-released 1974)	45.5	50.7	44.6	1.5	34	9/29
6	RR/STS	* ARMOR 53-Z5	45.1	54.3	46.4	2.3	42	10/9
4, 5	CONV	UNISOUTH GENETICS USG 5601T	45.0	57.2	49.6	3.0	44	10/13
2	EXP-R2Y	* ARMOR ARX 1535	44.6			2.5	44	10/7
4, 5	RR	* SCHILLINGER SEED 557.RC	44.5	52.6	44.2	2.5	40	10/13
6	RR	PROGENY 5330 RR	42.9			3.3	43	10/9
6	RR/STS	* SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	42.8	58.7	48.5	2.8	49	10/2
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11268	42.7			2.3	35	10/2
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11482	42.6			3.5	43	10/3
3, 5	RR	* UNISOUTH GENETICS USG 75T18	42.5			3.5	38	10/7
2	CONV	HORNBECK HBK RY5220	42.2			3.3	43	10/6
4	CONV	UNIVERSITY OF ARKANSAS OZARK	41.1			1.8	43	10/6
1, 10, 17	RR	* SOUTHERN STATES RT 5160N	40.8	52.0	44.0	2.8	40	10/6
2	EXP-R2Y	DELTA KING DKX 1537	40.6			2.3	44	10/8
10, 17	RR	UNIVERSITY OF MISSOURI S06-3095RR	40.2			3.5	43	10/6
6	EXP-R2Y	MORSOY R2 520	40.1			1.8	45	10/8
3, 10, 17	RR	* PIONEER 95Y40	40.0	53.0		2.3	43	10/3
6	RR/STS	* DELTA GROW 5300 RR/STS	39.8	50.0	42.8	3.0	41	10/8
4	CONV	UNIVERSITY OF ARKANSAS R04-357	39.6			3.0	40	10/12
none	CONV-P	GLENN	39.3	49.5	43.1	2.5	35	10/5
4, 10, 13	LL	* HALO 5:65	39.1	49.1		2.0	43	10/8
10, 17	RR	UNIVERSITY OF MISSOURI S06-4649RR	38.1			3.3	39	10/7
6	RR	* DELTA GROW 5555 RR	37.5	46.3		3.8	45	10/12
6	RR	* DELTA GROW 5280 RR	36.6	50.7		3.3	41	10/15
2	EXP-R2Y	* ARMOR ARX 1551	36.2			2.3	51	10/7
3, 5	RR	UNISOUTH GENETICS USG ALLEN (RR)	34.8			2.3	47	10/16
2	EXP-R2Y	DELTA KING DKX 1539	28.6			2.5	49	10/7
GROUP V AVERAGE			43.1	54.0	46.6	2.5	42.0	10/6
LSD (0.10)			6.3	4.5	3.2	0.6	4	
GRAND MEAN			50.3	62.1	54.4	2.2		

A See Table 4 for seed treatment code names.

B * Resistant to soybean cyst nematode. See Table 3. Company Disease Resistance Specifications for details.

CONV Conventional variety (ie: not LL, RR, or R2Y).

EXP Experimental entries are varieties that are still under development or soon to be released.

LL LibertyLink variety—Ignite herbicide tolerant, trait introduced in 2009.

P Public varieties.

RR Roundup Ready variety—RR1 first generation, original trait introduced in 1996.

R2Y Roundup Ready 2 Yield variety—trait introduced in 2009.

STS Sulfonylurea herbicide tolerant soybean variety—trait introduced in 1994.

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

Table 9. 2010 McLean County Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
MATURITY GROUP III (RELATIVE MG 3.0-3.9)						
6	RR	* ASGROW AG3803	38.9	49.0	45.2	1.0
4,5	RR	UNISOUTH GENETICS USG 73F59	36.0			1.0
3,10,17	RR	* REV 35R10	35.4			1.0
1,10,17	RR	* SOUTHERN STATES RT 3871N	34.1	43.9	40.8	1.0
21,23	RR	* EBBERTS 1390RR	33.0	53.6		1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9330RR	33.0			1.0
6	RR	* NK S38-H8 BRAND	32.8	54.5		1.0
22	RR	* BECK 388NR	31.5			1.0
2	R2Y	* ASGROW AG3831	30.5			1.0
2	R2Y	EBBERTS 2371RR2	30.3			1.0
1,10,17	RR	* SOUTHERN STATES RT 3971N	30.2	46.1	42.2	1.0
2	R2Y	* PROGENY 3910 RY	29.8			1.0
18	R2Y	* SOUTHERN STATES SS 3910N R2	29.7			1.0
2	R2Y	* DYNA-GRO 33RY39	29.5			1.0
21,23	RR	* EBBERTS 1365RR	29.2	50.5	46.7	1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9381RR	29.0			1.0
18	LL	* SOUTHERN STATES LL 396N	28.1			1.0
22	RR	* BECK 393NR	27.6			1.0
3,10,17	RR	* PIONEER 93Y82	26.9			1.5
6	RR	* DYNA-GRO 37P37	26.7	51.3	47.2	1.0
3,10,17	CONV	PIONEER 93B82	26.6			1.0
6	RR	* NK S39-A3 BRAND	26.6	50.4	46.2	1.0
2	R2Y	* STEWART 3677R2	26.5			1.0
3,10,17	RR	* PIONEER 93Y92	25.9	51.4		1.0
2	R2Y	* STEWART 3600R2	25.1			1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9370RR	25.0	45.8		1.0
6	R2Y	* STINE 39A20	24.8			1.0
10,17	CONV	* CAVERDALE CF 388n	24.6	46.8		1.3
2	R2Y	* SOUTHERN CROSS MALACHI 3.8 N, GENRR2Y	24.1	49.1		1.0
6	RR	* PROGENY 3909 RR	23.8	46.4		1.0
2	R2Y	* ASGROW AG3931	23.0			1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9319RR	22.6			1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9390RR	21.9	47.1		1.0
2	R2Y	* ASGROW AG3830	21.3			1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9398RR	20.5	48.2	45.6	1.0
3,10,17	RR	* REV 38R10	20.5			1.0
2	R2Y	EBBERTS 2391RR2	20.4			1.0
10,17	RR	* CAVERDALE CF 395 RR/STS _n	19.5			1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9351RR	19.1			1.0
2	R2Y	* SOUTHERN STATES SS 3820N R2	19.1			1.0
2	R2Y	* STEWART 3800R2	18.2			1.0
21,23	CONV	EBBERTS 3361	17.6			1.0
1,10,17	RR	SEED CONSULTANTS SCS 9360RR	15.7			1.0
1,10,17	RR	SEED CONSULTANTS SCS 9328RR	14.3			1.0
GROUP III AVERAGE			26.1	48.9	44.8	1.0
LSD (0.10)			6.7	4.7	3.5	0.2
MATURITY GROUP EARLY IV (RELATIVE MG 4.0-4.5)						
6	RR	* ARMOR 42-M1	35.2	56.0	48.5	1.0
1,10,17	RR	* SOUTHERN STATES RT 4370N	35.1	49.0	45.5	1.3
6	RR	* SOUTHERN CROSS JERICO 4.2 N, RR	33.5	55.0	49.6	1.0
3,10,17	RR	* PIONEER 94Y20	32.2	55.5	50.0	1.0
4,5	RR	UNISOUTH GENETICS USG 74T59	32.1			1.0
2	R2Y/STS	ASGROW AG4531	31.5			1.0
22	RR	* BECK 400NR	30.8	51.5		1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9401RR	30.0			1.0
2	R2Y/STS	* ASGROW AG4031	29.8			1.0
6	RR	* DAIRYLAND DSR-4300/RR	29.1	48.4	43.2	1.0
3,12	RR	* BIOGENE BG 7400	28.5			1.0
22	RR	* BECK 432NR	28.1			1.0
6	RR	* ASGROW AG4303	27.9	54.2	49.4	1.0
1,10,17	RR	* SEED CONSULTANTS SCS 9421RR	27.8			1.0
none	RR	* STEYER 4430RR	27.8	53.9	49.0	1.0
19	RR	* CROPLAN GENETICS RC4417	27.7			1.0
2	R2Y	* STEWART 4400R2	26.9			1.0
2	R2Y	PROGENY 4510 RY	26.6			1.0
3,10,17	RR	* REV 40R10	26.5			1.0
2	R2Y	* ASGROW AG4130	26.3			1.0
10,17	CONV	UNIVERSITY OF MISSOURI S07-5049	26.2			1.5
18	R2Y	* SOUTHERN STATES SS 4510N R2	26.1			1.5
2	R2Y	* BIOGENE BG 7420	26.1			1.0
6	RR	* PROGENY 4206 RR	25.8	48.0	44.5	1.0
18	LL	* SOUTHERN CROSS GABRIEL 4.2 N, LL	25.7			1.0
10,17	LL	* CAVERDALE CF 411 LL _n	25.6			1.0
2	R2Y	* CHANNEL 4101R2	25.5			1.0
6	RR/STS	* ARMOR 44-K6	25.3	50.2	45.4	1.0
3,12,20	RR	* L&M GLICK 843R	25.1	49.7	43.5	1.0
22	RR	* BECK 445NR	25.1	53.0	47.6	1.0
2	R2Y	CHANNEL 4500R2	25.1			1.0
6	RR/STS	* DYNA-GRO V42N9RS	24.9	48.0	44.1	1.0
3,10,17	RR	PIONEER 94Y30	24.8			1.0
2	R2Y	* BIOGENE BG 7450	24.6			1.0
none	RR/STS	* DYNA-GRO 36C44	24.5	50.3	47.0	1.0
6	R2Y	* ARMOR 44-R12	24.5			1.0
1,10,17	RR	* SOUTHERN STATES RT 4470N	24.4	51.2	48.4	1.0
none	R2Y	* L&M GLICK 4210RR2	24.2			1.0
6	RR/STS	* DELTA GROW 4470 RR/STS	24.1	51.8	46.3	1.0
3,12,20	RR	* L&M GLICK 40R	24.1			1.0
6	RR	* NK S44-D5 BRAND	23.9	46.9	44.9	1.0
2	R2Y	* CHANNEL 4000R2	23.8			1.0
6	RR/STS	* DAIRYLAND DSR-4500/RRSTS	23.5	50.1	45.0	1.0

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Table 9. 2010 McLean County Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
6	R2Y	STEYER 4501R2	23.2			1.0
3, 10, 17	RR	* PIONEER 94Y01	23.1	48.0	47.2	1.0
4, 5	RR	* SCHILLINGER SEED 457.RCP	22.9			1.3
3, 5	RR/STS	* UNISOUTH GENETICS USG 74B58	22.6			1.0
2	R2Y	* SOUTHERN CROSS JEDIDIAH 4.1 N, GENRR2Y	22.2			1.0
6	RR	* SOUTHERN CROSS CALEB 4.4 N, RR, STS	22.1	51.2	46.9	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9450RR	21.8	51.8		1.3
3, 10, 17	CONV	* PIONEER 94Y21	21.8			1.0
3, 10, 17	RR	REV 44R22	21.7			1.0
2	R2Y	* STEWART 4509R2	20.9			1.0
2	R2Y	* DYNA-GRO 38RY45	20.5			1.0
6	R2Y	* NK S42-T4 BRAND	20.1			1.0
1, 10, 17	RR	SEED CONSULTANTS SCS 9441RR	20.1			1.0
3, 10, 17	RR	* REV 45R10	19.7			1.0
2	R2Y	* STEWART 4309R2	18.9			1.0
6	R2Y	* STINE 43RB82	18.5			1.0
6	R2Y	PROGENY 4209 RY	18.5			1.0
none	R2Y	STEYER 4202R2	18.1			1.0
2	R2Y	* STEWART 4077R2	18.1			1.0
4, 5	RR	* SCHILLINGER SEED 458.RCS	17.7			1.0
6	RR	* STINE 4392-4	17.2	47.2		1.0
1, 10, 17	LL	* SOUTHERN STATES LL 450N	17.2	39.2		1.0
1, 10, 17	LL	* SOUTHERN STATES LL 430N	16.4	44.2		1.0
6	EXP-R2Y	NK X2R4702	16.0			1.0
2	R2Y	* CHANNEL 4100R2	12.5			1.0
EARLY GROUP IV AVERAGE			24.4	50.2	46.6	1.0
LSD (0.10)			6.9	4.7	3.5	0.2
MATURITY GROUP LATE IV (RELATIVE MG 4.6-4.9)						
18	RR	* SOUTHERN STATES RT 4888N	36.6			1.0
2	R2Y	PROGENY 4710 RY	32.3			1.0
2	EXP-R2Y/STS	ARMOR ARX 1481	32.2			1.0
2	R2Y/STS	ASGROW AG4730	31.7			1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4805	31.0			1.0
2	R2Y	ARMOR 48-R40	30.7			1.0
3, 12	RR	* DELTA GROW 4970 RR	30.7	44.8	42.6	1.0
3, 10, 17	RR	* PIONEER 94Y70	30.6	53.7	48.8	1.0
6	RR	PROGENY 4750 RR	30.5			1.0
2	EXP-R2Y	MORSOY R25 480	30.4			1.0
2	R2Y	* SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	29.0			1.0
2	R2Y	DYNA-GRO 37RY47	28.9			1.0
6	RR	* ARMOR 48-J3	28.5	50.9	48.4	1.0
6	RR	PROGENY 4949 RR	28.5	49.3	43.9	1.0
none	LL	STEYER 5201L	28.4			1.0
18	RR	* SOUTHERN STATES RT 4760N	28.1			1.0
6	CONV	* SCHILLINGER EMERGE XC4910	28.0			1.0
2	R2Y	ASGROW AG4630	27.7			1.0
6	CONV	* SCHILLINGER EMERGE XP4520	27.0			1.0
2	R2Y	* CHANNEL 4700R2	26.9			1.0
2	R2Y/STS	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	26.9			1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4910	26.9			1.0
2	R2Y	* BIOGENE BG 7470	26.8			1.0
6	RR	* ASGROW AG4907	26.7	51.5	46.6	1.0
6	R2Y	* CROPLAN GENETICS RR2C4660	26.6			1.0
6	RR	* NK S48-C9 BRAND	26.5	47.4	43.7	1.0
2	EXP-R2Y/STS	ARMOR ARX 1477	26.4			1.0
6	CONV	* SOUTHERN CROSS JARED 4.6 N	26.2			1.0
6	RR	* PROGENY 4606 RR	26.2	50.4	46.0	1.0
6	RR	PROGENY 4906 RR	26.2	48.2	44.4	1.0
6	RR	DAIRYLAND DSR-8482/RR	26.2	51.1	45.4	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9480RR	26.2	51.8		1.0
4, 10, 13	RR	* HORNBECK HBK R4729	26.0	45.9		1.0
2	EXP-R2Y	* ARMOR ARX 1472	26.0			1.0
6	RR/STS	* ASGROW AG4606	26.0	51.0	49.1	1.0
18	R2Y	* SOUTHERN STATES SS 4700 R2	26.0			1.0
4, 5	RR/STS	* UNISOUTH GENETICS USG 74G78	25.9	51.8	46.6	1.0
22	RR	* BECK 466NR	25.6			1.0
3, 10, 17	RR	* REV 49R10	25.4			1.0
6	RR	* DYNA-GRO 47N8RR	25.2			1.0
2	R2Y	HORNBECK HBK RY4920	25.2			1.0
6	RR/STS	* ARMOR 47-F8	24.9	48.8	44.1	1.0
4, 5	RR	* SCHILLINGER SEED 4990.RC	24.9	48.7		1.0
10, 17	RR	* CAVERNDAL CF 491 RRn	24.8			1.0
4, 5	RR	* SCHILLINGER SEED 495.RC	24.7	46.0	42.8	1.0
2	R2Y/STS	ARMOR 47-R33	24.6			1.0
3, 10, 17	RR	* REV 48R10	24.5			1.0
6	LL	* SOUTHERN CROSS SHILOH 4.9 N, LL	24.5	45.6		1.0
22	RR	* BECK 491NR	24.4	47.3		1.0
6	RR	* DAIRYLAND DSR-4810/RR	24.4	50.0		1.0
2	EXP-R2Y	MORSOY R2 490	24.2			1.0
6	RR	PROGENY 4908 RR	23.9	48.1	44.3	1.0
6	EXP-R2Y	MORSOY R25 4800	23.7			1.0
2	R2Y	PROGENY 4810 RY	23.7			1.0
2	R2Y	* DYNA-GRO 35RY47	23.6			1.0
3, 12	RR	* DELTA GROW 4770 RR	23.6	45.6	42.0	1.0
6	RR	* PROGENY 4807 RR	23.6	45.7	41.7	1.0
6	RR	* STINE 4782-4	23.2	50.9	45.9	1.0
4, 5	RR	* SCHILLINGER SEED 478.RCS	23.1			1.0
2	R2Y	PROGENY 4610 RY	22.8			1.0
4, 10, 13	LL	* HALO 4:65	22.8	41.7		1.0
6	RR	* HORNBECK HBK R4829	22.7			1.0
2	EXP-R2Y	* DELTA KING DKX 1473	22.5			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 499N	22.3	47.2		1.0

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Table 9. 2010 McLean County Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
6	RR	NK S47-R3 BRAND	22.3			1.0
6	EXP-R2Y	NK X2R54200	22.3			1.0
6	RR	* SOUTHERN CROSS GALILEE 4.7 N, RR	21.5	45.7	42.0	1.0
6	RR/STS	CROPLAN GENETICS R2T4799S	21.5			1.0
6	RR	* NK S49-A5 BRAND	21.1			1.0
4, 10, 13	RR	* HORNBECK HBK R4924	21.1	46.8	42.6	1.0
6	LL	PROGENY 4928 LL	20.8			1.0
6	RR	* SOUTHERN CROSS ELI 4.7 N, RR, STS	20.7	45.7	41.0	1.0
3, 5	RR	* UNISOUTH GENETICS USG 74T98	20.7	45.4	41.2	1.0
6	LL	PROGENY 4860 LL	20.7			1.0
none	LL	STEYER 4801L	20.4			1.0
6	LL	DELTA GROW 4861 LL	20.3			1.0
2	EXP-R2Y	* ARMOR ARX 1471	20.3			1.0
4, 10, 13	LL	* HALO 4-94	19.9	41.7		1.0
6	RR	DELTA GROW 4880 RR	19.9			1.0
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5117	19.9			1.0
6	CONV	* PROGENY 4910	19.9			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4996N	19.8	48.7	45.8	1.0
3, 10, 17	RR	* REV 49R11	19.8			1.0
2	R2Y	PROGENY 4920 RY	19.8			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4808N	19.5	46.2	42.3	1.0
19	RR/STS	* CROPLAN GENETICS RC4757	19.5			1.0
3, 10, 17	RR	* PIONEER 94Y60	19.4	44.7	41.9	1.0
3, 10, 17	RR	* PIONEER 94Y92	19.4			1.0
10, 17	R2Y	* CAVERDALE CF 471 RR2Yn	19.0			1.0
2	EXP-R2Y	DELTA KING DKX 1491	19.0			1.0
4, 10	R2Y	HORNBECK HBK RY4620	18.6			1.0
6	LL	PROGENY 4960 LL	18.3			1.0
3, 12	RR	DELTA GROW 4975 RR	18.2	42.8	42.3	1.0
2	R2Y	* STEWART 4700R2	17.8			1.0
19	RR	CROPLAN GENETICS RT4886S	15.3			1.0
none	CONV-P	PENNYRILE (long term check-released 1987)	12.0	33.3	34.1	1.0
LATE GROUP IV AVERAGE			24.2	47.3	43.8	
LSD (0.10)			7.2	4.4	3.2	
MATURITY GROUP V						
2	EXP-R2Y	* DELTA KING DKX 1533	25.0			1.8
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11268	24.8			1.5
3, 10, 17	RR	* PIONEER 95Y40	23.1	49.0		1.5
6	EXP-R2Y	MORSOY R2 520	23.1			1.5
4, 10, 13	LL	* HALO 5:65	21.9	50.8		1.0
2	CONV	HORNBECK HBK RY5220	21.9			2.0
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11482	21.9			2.0
10, 17	RR	UNIVERSITY OF MISSOURI S06-4649RR	21.9			2.3
3, 10, 17	RR	* PIONEER 95Y01	21.5			1.5
4, 5	CONV	UNISOUTH GENETICS USG 5002T	21.4	48.6	41.6	1.0
3, 5	RR	* UNISOUTH GENETICS USG 75T18	21.4			1.5
4, 5	CONV	UNISOUTH GENETICS USG 5601T	21.0	49.9	43.3	1.0
4	CONV	UNIVERSITY OF ARKANSAS OSAGE	20.7			1.0
none	RR	* STEYER 5210RR	20.2			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 511N	19.8	49.4		1.3
2	EXP-R2Y	* ARMOR ARX 1531	19.8			1.0
4, 5	RR	* SCHILLINGER SEED 557.RC	19.8	45.3	41.6	1.5
4	CONV	UNIVERSITY OF ARKANSAS R04-357	19.6			2.0
10, 17	RR	UNIVERSITY OF MISSOURI S06-3095RR	19.4			1.8
6	RR	PROGENY 5330 RR	19.4			1.8
2	EXP-R2Y	DELTA KING DKX 1537	19.4			1.3
6	CONV	* SCHILLINGER EMERGE XCS110	19.0			1.0
none	CONV-P	GLENN	18.6	46.0	40.6	2.0
6	RR	* DELTA GROW 5555 RR	18.2	45.3		1.5
6	RR/STS	* ARMOR 53-Z5	17.8	44.1	39.6	1.0
6	RR/STS	* SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	17.3	47.3	42.9	1.3
2	EXP-R2Y	* ARMOR ARX 1535	16.9			1.8
2	EXP-R2Y	DELTA KING DKX 1539	16.9			1.3
1, 10, 17	RR	* SOUTHERN STATES RT 5160N	16.5	44.3	39.2	1.5
6	RR/STS	* DELTA GROW 5160 RR/STS	16.5	45.4	41.6	1.3
6	RR/STS	* DELTA GROW 5300 RR/STS	15.7	45.6	40.4	1.0
6	RR	* DELTA GROW 5280 RR	15.7	38.4		1.3
4, 10, 13	LL	* HALO 5:25	15.7	41.9		1.0
6	R2Y	* DELTA GROW 5275 RR2	15.3			1.0
2	EXP-R2Y	* ARMOR ARX 1551	15.3			1.0
6	RR	* DAIRYLAND DSR-8509/RR	14.9	42.1	39.9	1.0
3, 5	RR	UNISOUTH GENETICS USG ALLEN (RR)	13.6			1.3
6	LL	DELTA GROW 5461 LL	13.6			1.0
4	CONV	UNIVERSITY OF ARKANSAS OZARK	13.2			1.0
none	CONV-P	ESSEX (long term check-released 1974)	11.6	38.5	34.2	1.0
GROUP V AVERAGE			18.7	45.4	40.4	1.4
LSD (0.10)			4.7	4.6	3.3	0.5
GRAND MEAN			23.7	48.0	44.2	1.1

A See Table 4 for seed treatment code names.

B * Resistant to soybean cyst nematode. See Table 3. Company Disease Resistance Specifications for details.

CONV Conventional variety (ie: not LL, RR, or R2Y).

EXP Experimental entries are varieties that are still under development or soon to be released.

LL LibertyLink variety—Ignite herbicide tolerant, trait introduced in 2009.

P Public varieties.

RR Roundup Ready variety—RR1 first generation, original trait introduced in 1996.

R2Y Roundup Ready 2 Yield variety—trait introduced in 2009.

STS Sulfonyleurea herbicide tolerant soybean variety—trait introduced in 1994.

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

Table 10. 2010 Warren County (WKU) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LOGGING 2010
			2010	09-10	08-10	
MATURITY GROUP III (RELATIVE MG 3.0-3.9)						
2	R2Y	EBBERTS 2391RR2	48.8			1.3
18	R2Y	* SOUTHERN STATES SS 3910N R2	47.8			1.3
22	RR	* BECK 388NR	45.3			1.5
1, 10, 17	RR	* SOUTHERN STATES RT 3971N	44.7	59.8	56.2	1.3
18	LL	* SOUTHERN STATES LL 396N	43.8			1.3
2	R2Y	* ASGROW AG3830	43.7			1.0
2	R2Y	* ASGROW AG3831	43.7			2.3
1, 10, 17	RR	* SEED CONSULTANTS SCS 9370RR	43.5	56.5		1.5
10, 17	CONV	* CAVERDALE CF 388n	43.3	59.6		1.0
6	RR	* ASGROW AG3803	43.2	61.2	57.5	1.5
6	RR	* NK S39-A3 BRAND	42.9	61.5	59.3	1.0
10, 17	RR	* CAVERDALE CF 395 RR/STSn	42.4			1.3
21, 23	RR	* EBBERTS 1390RR	41.8	64.0		1.0
6	R2Y	* STINE 39RA20	41.7			1.0
6	RR	* NK S38-H8 BRAND	41.2	64.4		1.5
2	R2Y	* DYNA-GRO 33RY39	41.1			1.8
2	R2Y	* PROGENY 3910 RY	41.0			2.0
1, 10, 17	RR	* SOUTHERN STATES RT 3871N	40.4	57.5	57.5	1.5
1, 10, 17	RR	* SEED CONSULTANTS SCS 9398RR	39.0	56.9	53.1	1.0
6	RR	* PROGENY 3909 RR	39.0	58.7		1.0
4, 5	RR	UNISOUTH GENETICS USG 73F59	38.9			1.0
2	R2Y	* SOUTHERN STATES SS 3820N R2	38.8			1.0
22	RR	* BECK 393NR	38.5			1.3
3, 10, 17	RR	* PIONEER 93Y92	38.0	62.2		1.3
2	R2Y	* STEWART 3800R2	38.0			1.5
2	R2Y	* ASGROW AG3931	37.9			1.5
3, 10, 17	RR	* PIONEER 93Y82	37.2			2.0
6	RR	* DYNA-GRO 37P37	37.0	63.3	59.6	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9381RR	36.3			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9390RR	35.7	52.5		1.5
1, 10, 17	RR	* SEED CONSULTANTS SCS 9319RR	33.2			1.0
3, 10, 17	RR	* REV 35R10	32.7			1.3
2	R2Y	* STEWART 3677R2	32.7			1.0
2	R2Y	* SOUTHERN CROSS MALACHI 3.8 N, GENRR2Y	32.4	51.9		1.0
3, 10, 17	RR	* REV 38R10	32.1			1.0
21, 23	RR	* EBBERTS 1365RR	32.0	58.8	54.0	1.0
1, 10, 17	RR	SEED CONSULTANTS SCS 9360RR	31.9			1.3
1, 10, 17	RR	* SEED CONSULTANTS SCS 9330RR	30.3			1.0
3, 10, 17	CONV	PIONEER 93B82	30.2			1.0
2	R2Y	EBBERTS 2371RR2	29.8			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9351RR	28.8			1.5
1, 10, 17	RR	SEED CONSULTANTS SCS 9328RR	28.1			2.0
2	R2Y	* STEWART 3600R2	28.1			1.0
21, 23	CONV	EBBERTS 3361	27.9			1.0
GROUP III AVERAGE			37.8	59.2	56.7	1.3
LSD (0.10)			7.1	5.5	4.1	0.7
MATURITY GROUP EARLY IV (RELATIVE MG 4.0-4.5)						
3, 5	RR/STS	* UNISOUTH GENETICS USG 74B58	59.0			1.0
6	R2Y	PROGENY 4209 RY	57.7			1.5
6	RR	* ARMOR 42-M1	57.3	66.0	62.0	1.0
none	RR	* STEYER 4430RR	57.0	68.8	60.4	1.0
6	RR	* ASGROW AG4303	56.7	66.1	58.8	1.0
2	R2Y	* STEWART 4509R2	56.6			1.0
6	RR/STS	* DAIRYLAND DSR-4500/RRSTS	55.1	65.7	59.0	1.5
4, 5	RR	UNISOUTH GENETICS USG 74T59	55.0			1.3
1, 10, 17	RR	* SOUTHERN STATES RT 4470N	52.9	70.9	61.8	1.0
1, 10, 17	RR	SEED CONSULTANTS SCS 9441RR	52.9			1.0
3, 10, 17	RR	* REV 45R10	51.8			1.5
10, 17	LL	* CAVERDALE CF 411 LLn	51.7			1.3
4, 5	RR	* SCHILLINGER SEED 457.RCP	51.4			2.0
22	RR	* BECK 445NR	51.2	68.5	60.8	1.0
3, 10, 17	RR	REV 44R22	50.9			1.0
4, 5	RR	* SCHILLINGER SEED 458.RCS	49.8			1.0
6	R2Y	STEYER 4501R2	49.4			1.0
6	R2Y	* STINE 43RB82	49.3			1.0
6	R2Y	* ARMOR 44-R12	49.1			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 450N	49.0	65.0		1.3
6	RR/STS	* ARMOR 44-K6	48.7	63.9	59.0	1.0
2	R2Y	PROGENY 4510 RY	48.6			1.0
2	R2Y/STS	ASGROW AG4531	47.7			1.0
6	RR	* SOUTHERN CROSS CALEB 4.4 N, RR, STS	47.6	67.6	61.7	1.0
6	RR/STS	* DYNA-GRO V42N9RS	47.4	63.7	56.5	1.0
6	RR	* SOUTHERN CROSS JERICHO 4.2 N, RR	47.4	58.8	54.0	1.0
none	R2Y	STEYER 4202R2	47.4			1.0
3, 12, 20	RR	* L&M GLICK 40R	47.2			1.3
6	RR	* NK S44-D5 BRAND	46.6	61.0	56.6	1.0
2	R2Y	* SOUTHERN CROSS JEDIAH 4.1 N, GENRR2Y	46.5			1.5
3, 12	RR	* BIOGENE BG 7400	46.5			1.0
2	R2Y	CHANNEL 4500R2	46.2			1.0
6	RR	* DAIRYLAND DSR-4300/RR	45.7	56.7	53.5	1.0
2	R2Y	* STEWART 4400R2	45.6			1.0
6	RR	PROGENY 4206 RR	45.4	61.8	56.7	1.0
2	R2Y	* BIOGENE BG 7450	44.9			1.3
2	R2Y	* ASGROW AG4130	44.7			1.0
6	RR	* STINE 4392-4	44.6	64.7		1.0
1, 10, 17	LL	* SOUTHERN STATES LL 430N	44.5	56.3		1.0
6	R2Y	* NK S42-T4 BRAND	44.1			1.3
18	LL	* SOUTHERN CROSS GABRIEL 4.2 N, LL	44.0			1.0
3, 10, 17	RR	* PIONEER 94Y01	43.7	55.1	52.9	1.3
18	R2Y	* SOUTHERN STATES SS 4510N R2	43.5			1.0

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Table 10. 2010 Warren County (WКУ) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
none	R2Y	* L&M GLICK 4210RR2	43.3			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9421RR	42.7			1.0
2	R2Y	* STEWART 4309R2	42.6			1.0
3, 12, 20	RR	* L&M GLICK 843R	42.4	57.4	52.6	1.5
2	R2Y/STS	* ASGROW AG4031	42.1			1.0
2	R2Y	* DYNA-GRO 38RY45	41.8			1.0
2	R2Y	* CHANNEL 4101R2	41.6			1.3
6	RR/STS	* DELTA GROW 4470 RR/STS	41.2	66.2	59.0	1.0
none	RR/STS	* DYNA-GRO 36C44	41.2	62.5	57.3	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9450RR	41.0	57.5		1.0
22	RR	* BECK 432NR	40.1			1.0
19	RR	* CROPLAN GENETICS RC4417	39.0			1.0
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5049	36.7			1.0
3, 10, 17	RR	* PIONEER 94Y30	36.4			1.0
3, 10, 17	RR	* PIONEER 94Y20	35.1	52.3	49.2	1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9401RR	33.7			1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4370N	32.4	51.7	49.3	1.0
2	R2Y	* BIOGENE BG 7420	30.5			1.0
22	RR	* BECK 400NR	29.0	47.6		1.0
2	R2Y	* STEWART 4077R2	28.8			1.0
3, 10, 17	RR	* REV 40R10	27.1			1.0
2	R2Y	* CHANNEL 4100R2	26.5			1.0
6	EXP-R2Y	* NK X2R4702	24.2			1.3
2	R2Y	* CHANNEL 4000R2	23.7			1.0
3, 10, 17	CONV	* PIONEER 94Y21	23.3			1.3
EARLY GROUP IV AVERAGE			44.2	61.5	56.9	1.1
LSD (0.10)			8.4	5.3	4.2	0.3
MATURITY GROUP LATE IV (RELATIVE MG 4.6-4.9)						
4, 10, 13	RR	* HORNBECK HBK R4924	65.3	64.7	59.1	1.0
6	RR	PROGENY 4908 RR	62.9	74.0	66.3	1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4805	62.7			1.0
2	EXP-R2Y	DELTA KING DKX 1491	61.4			1.0
6	RR	NK S47-R3 BRAND	61.2			1.0
6	LL	PROGENY 4928 LL	60.6			1.0
2	EXP-R2Y	MORSOY R2 490	60.0			1.0
2	R2Y	HORNBECK HBK RY4920	60.0			1.0
1, 10, 17	LL	* SOUTHERN STATES LL 499N	59.6	75.3		1.0
1, 10, 17	RR	* CAVERNDALE CF 491 RRn	59.6			1.0
none	LL	STEYER 5201L	59.5			1.0
4	CONV	UNIVERSITY OF ARKANSAS UA4910	59.4			1.0
2	R2Y	* CHANNEL 4700R2	58.7			1.0
3, 5	RR	* UNISOUTH GENETICS USG 74T98	58.5	63.5	57.4	1.0
3, 12	RR	* DELTA GROW 4970 RR	58.5	67.9	62.4	1.0
6	RR	DAIRYLAND DSR-8482/RR	58.4	70.5	63.1	1.0
4, 10, 13	RR	* HORNBECK HBK R4729	58.1	66.9		1.0
4, 5	RR/STS	* UNISOUTH GENETICS USG 74G78	58.0	66.1	59.1	1.0
19	RR/STS	* CROPLAN GENETICS RC4757	57.8			1.0
6	RR	PROGENY 4906 RR	57.1	70.0	62.1	1.0
6	CONV	* SCHILLINGER EMERGE XC4910	57.0			1.0
18	R2Y	* SOUTHERN STATES SS 4700 R2	56.9			1.0
6	RR/STS	CROPLAN GENETICS R2T4799S	56.5			1.0
4, 10	R2Y	HORNBECK HBK RY4620	56.5			1.0
22	RR	* BECK 466NR	56.3			1.0
2	EXP-R2Y/STS	ARMOR ARX 1481	56.3			1.0
6	RR	* ARMOR 48-J3	56.3	66.8	59.9	1.0
6	RR/STS	* ASGROW AG4606	56.3	64.0	57.3	1.0
6	RR	PROGENY 4949 RR	55.9	67.0	58.4	1.0
2	EXP-R2Y/STS	ARMOR ARX 1477	55.8			1.0
4, 5	RR	* SCHILLINGER SEED 478.RCS	55.6			1.0
4, 10, 13	LL	* HALO 4:65	55.4	55.5		1.0
6	LL	* SOUTHERN CROSS SHILOH 4.9 N, LL	55.3	68.7		1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4808N	55.2	64.6	57.9	1.0
2	EXP-R2Y	MORSOY R2S 480	55.0			1.0
2	R2Y	PROGENY 4710 RY	54.8			1.0
4, 10, 13	LL	* HALO 4:94	54.6	70.2		1.0
6	RR	* DAIRYLAND DSR-4810/RR	54.5	69.8		1.0
3, 10, 17	RR	* REV 49R10	54.2			1.0
6	RR	* STINE 4782-4	54.1	65.8	59.1	1.0
2	R2Y	ASGROW AG4630	54.0			1.0
6	RR	* SOUTHERN CROSS ELI 4.7 N, RR, STS	53.9	63.3	56.6	1.0
6	RR	* NK S49-A5 BRAND	53.9			1.0
6	EXP-R2Y	NK X2RS4200	53.5			1.0
6	CONV	* PROGENY 4910	53.4			1.0
6	LL	PROGENY 4960 LL	53.4			1.0
6	EXP-R2Y	MORSOY R2S 4800	53.3			1.0
6	RR/STS	* ARMOR 47-F8	53.1	64.9	58.9	1.0
2	R2Y	PROGENY 4810 RY	53.1			1.0
2	R2Y	PROGENY 4610 RY	52.9			1.0
4, 5	RR	* SCHILLINGER SEED 495.RC	52.6	70.4	64.0	1.0
18	RR	* SOUTHERN STATES RT 4888N	52.5			1.0
6	RR	DELTA GROW 4880 RR	52.5			1.0
2	R2Y	PROGENY 4920 RY	52.2			1.0
6	LL	PROGENY 4860 LL	52.0			1.0
2	R2Y/STS	SOUTHERN CROSS ELAM 4.6 GENRR2Y, STS	51.9			1.0
2	R2Y	* DYNA-GRO 35RY47	51.9			1.0
6	RR	* ASGROW AG4907	51.8	66.1	60.0	1.0
6	RR	* DYNA-GRO 47N8RR	51.8			1.0
10, 17	R2Y	* CAVERNDALE CF 471 RR2Yn	51.5			1.0
2	R2Y	* SOUTHERN CROSS MARCUS 4.7 N, GENRR2Y	51.4			1.0
6	RR	PROGENY 4750 RR	51.4			1.0
6	RR	* SOUTHERN CROSS GALILEE 4.7 N, RR	51.3	64.2	55.4	1.0
4, 5	RR	* SCHILLINGER SEED 4990.RC	51.3	66.2		1.0

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Table 10. 2010 Warren County (WКУ) Full-Season Variety Test.

SEED TREATMENT CODE ^A	TYPE ^B	BRAND—VARIETY	YIELD (BU/AC) ^C			LODGING 2010
			2010	09-10	08-10	
3, 10, 17	RR	* PIONEER 94Y70	51.1	66.9	60.7	1.0
1, 10, 17	RR	* SOUTHERN STATES RT 4996N	50.5	60.5	55.0	1.0
3, 12	RR	DELTA GROW 4975 RR	50.4	64.0	57.9	1.0
6	RR	* PROGENY 4807 RR	50.1	65.0	57.4	1.0
6	R2Y	* CROPLAN GENETICS RR2C4660	49.9			1.0
2	R2Y	* BIOGENE BG 7470	49.6			1.0
6	RR	* NK 548-C9 BRAND	49.3	63.6	58.0	1.0
2	R2Y/STS	ASGROW AG4730	49.1			1.0
2	R2Y	DYNA-GRO 37RY47	48.6			1.0
6	CONV	* SOUTHERN CROSS JARED 4.6 N	48.5			1.0
10, 17	CONV	UNIVERSITY OF MISSOURI S07-5117	48.4			1.0
2	R2Y	* STEWART 4700R2	48.3			1.0
6	RR	* HORNBECK HBK R4829	48.1			1.0
2	R2Y/STS	ARMOR 47-R33	48.0			1.0
18	RR	* SOUTHERN STATES RT 4760N	47.7			1.0
3, 10, 17	RR	* PIONEER 94Y60	46.7	61.3	55.5	1.0
3, 10, 17	RR	* REV 48R10	46.5			1.0
2	R2Y	ARMOR 48-R40	46.5			1.0
6	CONV	* SCHILLINGER EMERGE XP4520	46.4			1.0
19	RR	CROPLAN GENETICS RT4886S	46.4			1.0
3, 12	RR	* DELTA GROW 4770 RR	46.2	59.9	54.1	1.0
3, 10, 17	RR	* PIONEER 94Y92	46.2			1.0
6	LL	DELTA GROW 4861 LL	46.1			1.0
2	EXP-R2Y	* DELTA KING DKX 1473	44.1			1.0
22	RR	* BECK 491NR	43.5	58.0		1.0
2	EXP-R2Y	* ARMOR ARX 1471	43.1			1.0
none	LL	STEYER 4801L	42.6			1.0
6	RR	* PROGENY 4606 RR	42.0	54.2	51.8	1.0
3, 10, 17	RR	* REV 49R11	41.9			1.0
2	EXP-R2Y	* ARMOR ARX 1472	41.5			1.0
1, 10, 17	RR	* SEED CONSULTANTS SCS 9480RR	38.8	58.3		1.0
none	CONV-P	PENNYRILE (long term check-released 1987)	36.4	50.3	46.8	1.0
LATE GROUP IV AVERAGE			52.6	64.8	58.2	1.0
LSD (0.10)			6.0	5.1	3.8	
MATURITY GROUP V						
4, 10, 13	LL	* HALO 5:25	65.3	72.6		1.5
4, 5	CONV	UNISOUTH GENETICS USG 5601T	63.4	72.8	66.1	2.3
6	RR	PROGENY 5330 RR	62.7			2.8
4, 5	CONV	UNISOUTH GENETICS USG 5002T	62.4	72.1	66.3	2.3
2	CONV	HORNBECK HBK RY5220	62.4			2.3
6	CONV	* SCHILLINGER EMERGE XC5110	62.1			1.8
4	CONV	UNIVERSITY OF ARKANSAS OSAGE	61.8			1.5
6	RR/STS	* ARMOR 53-25	61.2	75.1	66.0	2.5
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11268	60.6			2.0
2	EXP-R2Y	DELTA KING DKX 1537	60.0			2.0
4, 10, 13	LL	* HALO 5:65	59.5	75.0		2.5
3, 5	RR	* UNISOUTH GENETICS USG 75T18	59.5			2.8
6	RR/STS	* DELTA GROW 5300 RR/STS	59.0	75.6	65.2	2.3
2	EXP-R2Y	* ARMOR ARX 1535	58.9			2.3
3, 5	RR	UNISOUTH GENETICS USG ALLEN (RR)	57.7			2.5
none	CONV-P	GLENN	57.6	72.4	64.8	2.3
none	CONV-P	ESSEX (long term check-released 1974)	57.0	64.3	57.5	2.5
4, 5	RR	* SCHILLINGER SEED 557.RC	56.9	72.3	64.1	2.5
3, 10, 17	RR	* PIONEER 95Y40	56.0	68.5		2.5
6	RR	* DELTA GROW 5555 RR	55.7	66.2		2.5
10, 17	CONV	UNIVERSITY OF MISSOURI S05-11482	55.7			1.8
6	R2Y	* DELTA GROW 5275 RR2	55.6			1.0
2	EXP-R2Y	DELTA KING DKX 1539	55.6			2.8
1, 10, 17	RR	* SOUTHERN STATES RT 5160N	54.8	70.7	62.4	2.0
4	CONV	UNIVERSITY OF ARKANSAS R04-357	54.5			2.5
6	RR	* DELTA GROW 5280 RR	54.4	67.3		2.8
2	EXP-R2Y	* DELTA KING DKX 1533	54.3			2.5
6	RR	* DAIRYLAND DSR-8509/RR	54.1	65.8	61.3	2.0
6	EXP-R2Y	MORSOY R2 520	54.0			2.5
4	CONV	UNIVERSITY OF ARKANSAS OZARK	54.0			2.5
1, 10, 17	LL	* SOUTHERN STATES LL 511N	53.8	69.5		1.0
2	EXP-R2Y	* ARMOR ARX 1531	53.6			2.0
3, 10, 17	RR	* PIONEER 95Y01	53.2			2.0
6	RR/STS	* SOUTHERN CROSS DAMASCUS 5.0 N, RR, STS	52.8	67.2	59.1	2.0
6	LL	DELTA GROW 5461 LL	52.5			1.8
10, 17	RR	UNIVERSITY OF MISSOURI S06-4649RR	51.1			2.5
none	RR	* STEYER 5210RR	50.2			1.5
2	EXP-R2Y	* ARMOR ARX 1551	49.2			1.5
6	RR/STS	* DELTA GROW 5160 RR/STS	47.9	61.0	55.4	2.5
10, 17	RR	UNIVERSITY OF MISSOURI S06-3095RR	47.8			2.8
GROUP V AVERAGE			56.4	69.9	62.5	2.2
LSD (0.10)			6.2	5.1	3.6	0.8
GRAND MEAN			48.3	64.0	58.4	1.3

A See Table 4 for seed treatment code names.

B * Resistant to soybean cyst nematode. See Table 3. Company Disease Resistance Specifications for details.

CONV Conventional variety (ie: not LL, RR, or R2Y).

EXP Experimental entries are varieties that are still under development or soon to be released.

LL LibertyLink variety—Ignite herbicide tolerant, trait introduced in 2009.

P Public varieties.

RR Roundup Ready variety—RR1 first generation, original trait introduced in 1996.

R2Y Roundup Ready 2 Yield variety—trait introduced in 2009.

STS Sulfonylurea herbicide tolerant soybean variety—trait introduced in 1994.

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

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