

2012 Kentucky Soybean Performance Tests

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The Kentucky Soybean Variety Performance Tests are conducted to provide an unbiased, objective estimate of the relative performance of soybean varieties in Kentucky. This information may be used by growers and seed producers to aid in selecting varieties that will give the highest total production in a specific situation. Soybean cultivars were entered by soybean growers, commercial companies, and state and federal institutions. Twenty-four soybean tests were planted in 2012 in Kentucky at the six test locations shown below. One location (Hardin County) was lost due to animal damage and severe drought conditions. Soil types, planting dates, and other information are shown in Table 1.

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Soybean Variety Performance Tests Website

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

(<http://www.ca.uky.edu/pss/index.php?p=663>), which has the following features:

- 2012 Kentucky Soybean Variety Performance Tests (this publication) and archived reports in PDF format
- Archived tables by year in Excel format
- Current year preliminary test results in Excel format
- ListServ signup form to receive emails when the preliminary tables are posted
- Nomination form, cover letter, and instructions for next season test entries
- Location of the 2012 Kentucky Soybean Variety Performance Tests

Methods

All tests were planted in a randomized complete block design by maturity group with a specially built no-till planter. The tests (Tables 6 through 10) had three replications (plots) of each variety.

Location of the 2012 Kentucky Soybean Variety Performance Tests

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

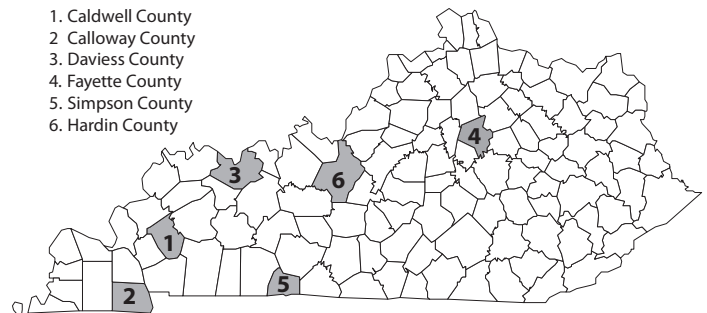


Table 1. Locations, planting dates, and agronomic data for the 2012 Kentucky Soybean Variety Performance Tests.

Test	Site	Extension agent /collaborator	Soil Type	Soil Test		Planting Dates	Fertilizer applied	Previous crop	Harvest Dates	50% chance of killing frost ^A
				pH	K					
Caldwell County	Princeton Exp. Station University of Kentucky	Joe Williams, UK Farm Superintendent	Crider silt loam	pH 6.7	K 262	MG III: 6/6 MIV and V: 6/7	Lime 1.25 tons/ac	tobacco	MG III: 10/22 MG IV: 10/23 MG V: 11/8	10/21
Calloway County	Murray State University	Dr. Ferguson, Agronomy Faculty	Grenada silt loam A	pH 5.7	P 69 K 222	6/8	Lime 2 tons/ ac KCl	tobacco	MG III and IV Early: 10/19 MG IV Late and V: 11/9	10/30
Daviess County	Alvey Farm	Clint Hardy, UK Extension county agent	Newark silt loam	pH 5.98	P 75 K 201	6/5	not available	corn	MG III and IV Early: 10/24 MG IV Late and V: 10/25	10/25
Fayette County	Lexington Exp. Station University of Kentucky	David Smith, UK Farm Superintendent	Maury silt loam	pH 6.2	P 350 K 247	5/24	KCl 100lbs/ac	corn	MG III: 10/17 MG IV and V: 11/2	10/26
Simpson County	Walnut Grove Farms	Jason Philips, UK Extension county agent	Baxter cherty silt loam	(2011)		MGIII and IV Early: 6/14 MG IV Late and V: 6/15	not available	soybean	MG III and IV: 10/30 MG V: 10/31	10/24
				pH 6.2	K 306					

^A Based on 30-years average

The individual plots were 20 feet long and 6 rows wide with 15 inches between rows. The seeding rate was four to five viable seeds per foot of row, at a planting depth of 1.5 inches. All plots were treated with fertilizers and herbicides before planting and maintained as weed-free as possible during the growing season. All plots were chemically end-trimmed to 16 feet approximately one month after planting. Seed source information is located in the Sources of Seeds section in this publication. Companies could choose to treat their seed with fungicides and insecticides (Table 3). The treatment code number is provided in Table 4.

- **Harvesting** was done with a small plot combine (Hege 160, HEGE Equipment Inc.-Wintersteiger, USA) according to maturity; thus, several harvests were made at each location. Sixteen feet of the four center rows were harvested from the plots.
- **Yield** is reported in bushels (60 pounds) per acre adjusted to 13 percent moisture. An electronic moisture monitor (HarvestMaster 1000, Juniper Systems, Inc., USA) located on the combine was used for moisture readings for each plot. Data were collected with a field computer (Allegro MS, Juniper Systems, Inc., USA) connected to the monitor and analyzed with Agrobases GEN II statistical software (Agronomix Software Inc., Canada).
- **Lodging** was rated on a scale of 1 to 5, where 1 represents almost all plants erect; 2 means all plants over slightly or a few down; 3 means all plants over moderately or 25 percent down; 4 indicates all plants over considerably or 50 to 80 percent down; 5 means all plants down.
- **Maturity date**—A variety was considered mature when 99 percent of the pods have turned their normal mature color. One to two weeks of good drying weather may be needed beyond the date given before the beans will be ready to combine. Maturity dates were recorded at the Fayette County location only.
- **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 and the Daviess County locations.
- **Protein and Oil** concentrations are reported on the basis of 13 percent

moisture. Samples were collected at the Calloway, Daviess, and Fayette County locations and analyzed with a NIR spectrophotometer (DA 720, Perten Instruments, Sweden). The data were analyzed with JMP⁹ statistical software (SAS Institute Inc., USA).

Interpretation

An important step in profitable soybean production is selecting good quality seed of the best varieties for each management system. The Kentucky Soybean Performance Tests are conducted to provide information useful in making this selection.

Performance of soybean varieties is affected by many factors, including year, location, soil type, and time of planting. A particular soybean variety is adapted for full-season growth in a band approximately 100 miles wide from north to south. Thus, the best variety in northern Kentucky may not be the best in southern areas. For this reason, the Kentucky Soybean Performance Tests are conducted at several locations in the major soybean-producing areas of the state. The yields as reported in this publication should be used for relative comparisons; actual yields on a grower's farm may be different.

Performance of soybean varieties will vary from year to year and from location to location depending on adaptability, weather conditions, and management. Performance of a variety across a period of years and at several locations in the state is the best indicator of its production potential. (See the University of Kentucky publication *Agronomy Notes* 21:3, "Using Performance Test Results in Soybean Variety Selection in Kentucky"). The data presented in the Table 5 State Summary have been averaged across years and locations, and it is recommended as the table to use for evaluating variety performance.

Small differences in yield are usually of little importance. The yield of two varieties at a single location can differ because of chance factors (difference in soil characteristics, fertility, or availability of moisture), although the inherent yielding ability is the same. To decide if an observed yield difference is real, the least significant difference (LSD) values cited at the bottom of each maturity group should be used. The significance level in Tables 5 through 10 is 0.10. If the difference in yield between two varieties is greater than the LSD value, it is

reasonable to assume that the varieties do differ in yielding ability.

Yield is only one factor to consider in selecting a variety for your production system. Maturity, lodging resistance, disease resistance, and availability of time and equipment should be considered, as well as economic management and weed control costs.

Varieties with oil and protein levels that are eligible for premium prices are available in some markets. Oil and protein levels are influenced by variety and weather (primarily temperature) during seed filling. (See the University of Kentucky's *Corn & Soybean Newsletter* 6: 1, "Soybean Oil and Protein.") We recommend that growers create a list of varieties that meet their needs for agronomic characteristics: yield, maturity group, soybean cyst nematode resistance, etc. Then, using the protein and oil data from Table 5, they should remove from consideration the varieties with below-average oil percentages from their list and select from the remaining ones 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 based on the information provided by the seed sources. Due to weather patterns at a location, maturity alone can affect yield; this impact will be reflected by large differences in the maturity group averages. Selecting varieties from several maturity groups can reduce the impact of these maturity group fluctuations. (See the University of Kentucky's *Agronomy Notes* 25: 3, "Growing Soybean Varieties from Multiple Maturity Groups Can Reduce Yearly Yield Volatility.")

The date of a 50 percent chance of a fall killing frost is important in determining which variety 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.

In case of known soybean cyst nematode (SCN) problems, a resistant variety should be used in the production system with a recommended crop rotation program. (See Kentucky Cooperative Extension Service publication PPA-42, *Soybean Cyst Nematode*, available at both county Extension offices and on the Grain Crops website.) The importance of resistant varieties has increased as the number of acres affected by SCN has increased. SCN occurs in 32 western Kentucky counties, representing 90 percent of the state's soybean acreage. Low levels of SCN show few visible symptoms but can cause yield losses of up to 25 percent.

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

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. Table 3, "Company Specifications," contains information 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 in Kentucky. Better yielding full-season varieties are also the better-yielding double-crop varieties (Pfeiffer, Todd 1987. *Applied Agricultural Research* 2: 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

The 2012 growing season was one of the driest seasons on record. The dry conditions made it challenging for us to plant the

tests. As a result, most of the tests were planted after June 1. The precipitations and temperatures for each county hosting soybean tests are presented next to Tables 6 through 10 (sources: www.kymesonet.gov, and www.nws.noaa.gov for Daviess County). The June and July two-month period has been ranked as the driest since 2005 for Kentucky (source: www.ncdc.noaa.gov). The soybean tests were monitored every other week for effect of the drought at the different locations. Sunburn symptoms were observed on leaves of young plants in the Fayette County location. Reduced plant height was observed at all locations but was more pronounced at the Caldwell County location (data not provided). Plant heights are reported for the Fayette and the Daviess Counties

locations in Tables 8 and 9. The dry conditions early in the growing season certainly affected yields for soybean varieties this year, but late rains in September improved overall yield prospects for the state. Soybean production in Kentucky was forecast at 55.1 million bushels on November 15th, down 5 percent from the 2011 level. Yield was estimated at 38 bushels per acre, 1 bushel below 2011 (Kentucky AgriNews 31 (11), USDA NASS).

Soybean Production Information

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

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

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

2A, Full-season						
Target Stand plants/acre	Standard Germination	Assumed Stand Loss	Final Seeding rate seeds/acre	Row spacing (inches)		
				7.5	15	30
100,000	95%	5%	110,803	1.6	3.2	6.4
		10%	116,959	1.7	3.4	6.7
		20%	131,579	1.9	3.8	7.6
		30%	150,376	2.2	4.3	8.6
	90%	5%	116,959	1.8	3.4	6.7
		10%	123,457	1.8	3.5	7.1
		20%	138,889	2.0	4.0	8.0
		30%	158,730	2.3	4.6	9.1
	85%	5%	123,839	1.8	3.6	7.1
		10%	130,719	1.9	3.8	7.5
		20%	147,059	2.1	4.2	8.4
		30%	168,067	2.4	4.8	9.6

2B, Double-crop						
Target Stand plants/acre	Standard Germination	Assumed Stand Loss	Final Seeding rate seeds/acre	Row spacing (inches)		
				7.5	15	30
140,000	95%	5%	155,125	2.2	4.5	8.9
		10%	163,743	2.3	4.7	9.4
		20%	184,211	2.6	5.3	10.6
		30%	210,526	3.0	6.0	12.1
	90%	5%	163,743	2.3	4.7	9.4
		10%	172,840	2.5	5.0	9.9
		20%	194,444	2.8	5.6	11.2
		30%	222,222	3.2	6.4	12.8
	85%	5%	173,375	2.5	5.0	10.0
		10%	183,007	2.6	5.3	10.5
		20%	205,882	3.0	5.9	11.8
		30%	235,294	3.4	6.8	13.5

These publications, including PPA-42, *Soybean Cyst Nematode*, and the *Corn & Soybean Newsletter* are available online at the Grain Crops website (<http://www.uky.edu/Ag/GrainCrops/varietytesting.htm>). Table 2 is an updated planting guide for your convenience. For additional research on seeding rates, see the *Corn & Soybean News* 6: 2 ("Soybean Population and Yield") and 7: 4 ("Soybean Seed Rates"). The most recent research suggests that a final stand of 100,000 plants per acre is more than adequate for maximum yields in full-season soybeans. Seeding rates should be based on standard germination rate as well as expected stand losses. Stand losses are typically more severe in damp, cool conditions with heavy residue or with soil crusting. Stand losses are typically less with warm conditions and adequate soil moisture.

Kentucky State Seed Law

The Kentucky State Seed Law requires all seed exposed, offered for sale, or sold in Kentucky to be labeled as to kind and variety for each agricultural seed component present in excess of 5 percent of the whole and the percentage by weight of

each component. All soybean seed blends should be labeled as to the percentage of each variety that makes up the mixture. All soybean seed must be labeled by variety name; the term “variety unknown” may no longer be used in place of a variety designation for soybeans.

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Sources of Seeds

The seeds planted in the 2012 Soybean Variety Performance Tests were acquired from the following sources:

Armor Seed

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

ARMOR 39-R16	ARMOR 44-R08
ARMOR 46-R42	ARMOR 46-R64
ARMOR 47-R17	ARMOR 48-R40
ARMOR 48-R91	ARMOR 49-R56
ARMOR X1301	ARMOR X1302
ARMOR X1303	ARMOR X1304
ARMOR X1305	ARMOR X1307
ARMOR X1308	ARMOR X1311
ARMOR X1312	

Bayer CropScience

Monty Malone 870-351-0390
210 Drier Road, Dewitt AR 72042
monty.malone@bayer.com
HORNBECK HBK R4924
HORNBECK HBK RY4620
HORNBECK HBK RY4721
HORNBECK HBK RY5221
HORNBECK HBK RY5421
HORNBECK HBK RY5521

Beck's Hybrids

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

BECK 362NR™
BECK 375NR™
BECK 398NR
BECK 418NR™
BECK 432NR™
BECK 444NR™
BECK 477NR™

BioGene Seeds

Drew Lawwill 937-444-6362
5477 Tri-County Hwy, Sardania, OH 45171
drew@biogeneseeds.com
BIOGENE BG 7392
BIOGENE BG 7421
BIOGENE BG 7450

Caverndale Farms Brand Seeds

Barry Welty 859-236-2150
1921 Bluegrass Pike, Danville KY 40422
bwelty@kywimax.com
CAVERNDALE 485LLn
CAVERNDALE 486 RR2Yn
CAVERNDALE CF 411 LLn
CAVERNDALE CF 434 STSn
CAVERNDALE CF 436 RR2Yn
CAVERNDALE CF E4612 RR2Yn
CAVERNDALE CF 465 LLn
CAVERNDALE CF E4812 RR2Yn
CAVERNDALE CF E5012 RR2Yn

Dairyland Seed Co., Inc

Rod Moran 217-972-9839
PO Box 958, West Bend WI 53095
rmoran@dairylandseed.com
WARREN/DAIRYLAND 3980 R2Y
WARREN/DAIRYLAND 43-0000 R2Y
WARREN/DAIRYLAND 4300 RR
WARREN/DAIRYLAND 4343 R2Y
WARREN/DAIRYLAND 4633 R2Y
WARREN/DAIRYLAND 4810 RR
WARREN/DAIRYLAND 4850 R2Y/STS

Delta Grow Seed

Lee Hughes 800-530-7933
220 NW 2nd, ProBox 219, England AR 72046
leehughes19@hotmail.com
DELTA GROW 4575 RR2
DELTA GROW 4670 RR2
DELTA GROW 4715 RR2
DELTA GROW 4755 RR2
DELTA GROW 4765 RR2/STS
DELTA GROW 4825 RR2/STS
DELTA GROW 4875 RR2/STS
DELTA GROW 4880 RR
DELTA GROW 4925 RR2
DELTA GROW 5160 RR/STS
DELTA GROW 5175 RR2

Dyna-Gro Seed

Chris Hummel 812-475-8881
7313 Eagle Crest Blvd, Evansville, IN 47715
chris.hummel@cpsagu.com
DYNA-GRO 32RY39
DYNA-GRO 33RY47
DYNA-GRO 38RY45
DYNA-GRO 39RY43
DYNA-GRO 538RY63
DYNA-GRO 544RS93
DYNA-GRO 547RY13
DYNA-GRO 548RS53
DYNA-GRO SX12247

Ebberts Field Seeds, Inc.

Chris Suber 888-802-5715
6840 North St. Rt. 48, Covington OH 45318
chris.suber@woh.rr.com
EBBERTS 2380RR2
EBBERTS 2383RR2
EBBERTS 2443 RR2
EBBERTS 3393

eMerge Genetics - Schillinger

Wayne Hoener 515-225-6134
4401 Westown Parkway, Suite 225,
West Des Moines IA 50266
whoener@schillgen.com
EMERGE GENETICS E4920S
EMERGE GENETICS E5110
EMERGE GENETICS XC4892S

L&M Glick Seed

Trevor Glick 812-343-8119
15120 E Base Rd, Columbus IN 47203
Trevor2glick@yahoo.com
L&M GLICK 38R
L&M GLICK 412R2
L&M GLICK 822R2

LG Seeds

Jesse E Grogan 765-426-2763
22827 Shissler Road, Elmwood, IL 61529
jesse.grogan@lgseeds.com
LG SEEDS C3989R2
LG SEEDS C4340R2
LG SEEDS C4411R2
LG SEEDS C4625R2
LG SEEDS C4780R2

Monsanto Company

Todd Ladd 270-522-7790
 36 Rhett Blvd, Cadiz, KY 42211
 james.todd.ladd@monsanto.com
 ASGROW AG3832 ASGROW AG3931
 ASGROW AG4033 ASGROW AG4232
 ASGROW AG4433 ASGROW AG4533
 ASGROW AG4632 ASGROW AG4732
 ASGROW AG4831 ASGROW AG4832
 ASGROW AG4933

Pfister Seeds

Rick Lohnes 309-527-6000
 187 North Fayette Street, El Paso, IL 61738
 rlohnese@pfisterseeds.com
 PFISTER 43R29
 PFISTER 45R23
 PFISTER 47R22
 PFISTER 52R26

Pioneer Hi-Bred International, Inc.

Dan Poston 800-331-2475
 700 Boulevard South, Suite 302, Huntsville, AL 35802
 dan.poston@pioneer.com
 PIONEER 93Y82 PIONEER 93Y84
 PIONEER 93Y92 PIONEER 94Y20
 PIONEER 94Y21 PIONEER 94Y22
 PIONEER 94Y23 PIONEER 94Y40
 PIONEER 94Y50 PIONEER 94Y61
 PIONEER 94Y70 PIONEER 95Y10

Progeny Ag. Products

Brian Murray 870-238-2079
 1529 Hwy 193, Wynne AR 72396
 bmurray@progenyag.com
 PROGENY 4211 RY PROGENY 4510 RY
 PROGENY 4611 RY PROGENY 4710 RY
 PROGENY 4747 RY PROGENY 4814 RY
 PROGENY 4819 LL PROGENY 4850 RY
 PROGENY 4900 RY PROGENY 4920 RY
 PROGENY 4928 LL

Seed Consultants Inc.

Bill Mullen 800-708-2676
 648 Miami Trace Rd. SW, P.O. Box 370, Washington
 Court House, OH 43160-0370
 bmullen@seedconsultants.com
 SEED CONSULTANTS SCS 9362RR™
 SEED CONSULTANTS SCS 9381RR™
 SEED CONSULTANTS SCS 9392RR™
 SEED CONSULTANTS SCS 9412R™
 SEED CONSULTANTS SCS 9421RR™
 SEED CONSULTANTS SCS 9472RR™

Southern Cross

Jarrold Moss 270-852-7822
 Crop Production Services, PO Box 22879, 2760
 Keller Road, Owensboro KY 42304
 jarrold.moss@cpsagu.com
 SOUTHERN CROSS CLEMENT
 SOUTHERN CROSS GAMLIEL
 SOUTHERN CROSS JESSE
 SOUTHERN CROSS NATHAN
 SOUTHERN CROSS SIMEON

Southern States Coop, INCE

Rusty Owens 804-281-1440
 6606 West Broad Street, Richmond VA 23230
 rusty.owens@sscoop.com
 SOUTHERN STATES SS 3811N R2
 SOUTHERN STATES SS 3910N R2
 SOUTHERN STATES SS 4032N R2
 SOUTHERN STATES SS 4312N R2
 SOUTHERN STATES SS 4412N R2
 SOUTHERN STATES SS 4510N R2
 SOUTHERN STATES SS 4700 R2-ST5
 SOUTHERN STATES SS 4711N R2
 SOUTHERN STATES SS 5112N R2

Stewart Seeds

Justin Petrosino 419-681-3427
 2230 E County Rd 300N, Greensburg IN 47240
 justin.petrosino@stewartseeds.com
 STEWART 3800R2 STEWART 3913R2
 STEWART 4113R2 STEWART 4212R2
 STEWART 4412R2 STEWART 4509R2
 STEWART 4512R2 STEWART 4712R2
 STEWART EXP4414R2

Steyer Seeds

Joe Steyer 800-231-4274
 6154 N. CO. RD. 33 Tiffin, OH 44883
 joesteyer@yahoo.com
 STEYER 4203R2 STEYER 4301R2
 STEYER 4401R2 STEYER 4501R2
 STEYER 4701R2 STEYER 4702R2

Stine Seed Company

Brian Hartman 314-707-6826
 22555 Laredo Trail
 bmhartman@stineseed.com
 STINE 37RC82
 STINE 47RC32

Stratton Seed Company

Heath North 800-264-4433
 P.O. Box 1088, Stuttgart, AR 72160
 hnorth@strattonseed.com
 SCHILLINGER SEED 457.RCP
 SCHILLINGER SEED 458.RCS
 SCHILLINGER SEED 495.RC
 SCHILLINGER SEED 4990.RC

Syngenta Seeds

Sarah Gehant 270-307-4440
 4320 Upton Talley Road, Upton KY 42784
 sarah.gehant@syngenta.com
 S39-U2 BRAND S41-J6 BRAND
 S44-K7 BRAND S46-T3 BRAND
 S49-F8 BRAND

Terral Seed, Inc

Larry J. Mullen 318-282-3681
 P.O. Box 826, Lake Providence LA 71254
 lmullen@terralseed.com
 REV®38R10™ REV®44R22™ REV®45R10™
 REV®47R53™ REV®47R74™ REV®48R10™
 REV®48R22™ REV®48R33™ REV®49R11™
 REV®49R22™ REV®49R43™ REV®49R54™
 REV®51R53™ REV®52R74™ REV®53R23™
 REV®54R84™ REV®55R53™ REV®55R83™
 REV®59R13™

Unisouth Genetics, Inc.

Stacy Burwick 800-505-3133
 3205-C HWY 465, Dickson, TN 37055
 sburwick@usgseed.com
 UNISOUTH GENETICS USG 5002T
 UNISOUTH GENETICS USG 5601T
 UNISOUTH GENETICS USG 73H77
 UNISOUTH GENETICS USG 74D32R
 UNISOUTH GENETICS USG 74F12R
 UNISOUTH GENETICS USG 74G82L
 UNISOUTH GENETICS USG 74G99L
 UNISOUTH GENETICS USG 74T98
 UNISOUTH GENETICS USG 75B21R
 UNISOUTH GENETICS USG ALLEN

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 UNIVERSITY OF ARKANSAS OZARK
 UNIVERSITY OF ARKANSAS R05-4114
 UNIVERSITY OF ARKANSAS UA5612

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US Seeds

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 HALO 4:65 HALO 4:94
 HALO 4:95 HALO 5:01
 HALO 5:25 HALO 5:26
 HALO 5:45 HALO X456
 HALO X478 HALO X55

USDA-ARS

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 EXP USDA-ARS JTN-4307
 EXP USDA-ARS JTN-4408
 EXP USDA-ARS JTN-5108
 EXP USDA-ARS JTN-5110
 USDA-ARS JTN-5203

Table 3. Company Specifications for Entries in the 2012 Kentucky Soybean Variety Performance Tests^A.

Variety/ Brand Name	Type	Relative Maturity Group	Soybean Cyst Nematode Resistance	Phytophthora sojae ^{B,C}		Sudden Death Syndrome	Soybean Mosaic Virus	Stem Canker	Other Reported Resistance	Seed Treatment
				Resistance Gene Rps	Field Tolerance					
ARMOR 39-R16	R2Y	3.9	3, 14	1c	MR	MR				6
ARMOR 44-R08	R2Y	4.4	3, 14		MR	MR		MR		6
ARMOR 46-R42	R2Y	4.6	3, 14	1c	MR	MR		R		6
ARMOR 46-R64	R2Y	4.6	3, 14	1c	MR	MS		R		6
ARMOR 47-R17	R2Y	4.7	3, 14	1c	MR	MR		R		6
ARMOR 48-R40	R2Y	4.7		1c	MR	MS		MR		6
ARMOR 48-R91	R2Y	4.8	3, 14	1c	MR	MS		R		6
ARMOR 49-R56	R2Y	4.9	3, 14	1a	MR	MR		R		6
ARMOR X1301	R2Y	3.9	3, 14	1c	MR	MR				6
ARMOR X1302	R2Y	3.9-4								6
ARMOR X1303	R2Y	4.2	3, 14	1a	MR	MR		R		6
ARMOR X1304	R2Y	4.4	3, 14	1c	MR	MR		R		6
ARMOR X1305	R2Y	4.4	3, 14	1c	MR	MS		R		6
ARMOR X1307	R2Y	4.8	3, 14	1c	MR	MR		R		6
ARMOR X1308	R2Y	4.8	3, 14	1k	MR	MS				6
ARMOR X1311	R2Y	4.9	3, 14	1a	MR	MS		R		6
ARMOR X1312	R2Y	4.9-5.1	3	1c						6
ASGROW AG3832	R2Y	3.8	3	1c	T	MR		R		2, 25
ASGROW AG3931	R2Y	3.9	3		MS	MR		MR		2, 25
ASGROW AG4033	R2Y/STS	4.0	3	1c	MT	MR		R		2, 25
ASGROW AG4232	R2Y/STS	4.2	3	1a	MT	MR		R		2, 25
ASGROW AG4433	R2Y	4.4	3	1c	T	MR		R		2, 25
ASGROW AG4533	R2Y/STS	4.5	3	1c	T	MR		MR		2, 25
ASGROW AG4632	R2Y/STS	4.6	3	1a	T	MR		R		2, 25
ASGROW AG4732	R2Y	4.7	3	1c	MT	MS		MR		2, 25
ASGROW AG4831	R2Y/STS	4.8			MS	R		MR		2, 25
ASGROW AG4832	R2Y/STS	4.8	3	1c	MT	MS		MR		2, 25
ASGROW AG4933	R2Y	4.9	3	1c	T	MR		R		2, 25
BECK 362NRTM*	RR	3.6	3, 14	1k	T	R	MR	MR		22
BECK 375NRTM*	RR	3.7	3, 15	1k	T	MR	MR	MR		22
BECK 398NR	RR	3.9	3, 16	1k	T	MR	MR	MR		22
BECK 418NRTM*	RR	4.1	3, 20	1k	T	MR	MR	MR		22
BECK 432NRTM*	RR	4.3	3, 17	1k	T	MR	MR	MR		22
BECK 444NRTM*	RR	4.4	3, 18	1k	T	MR	MR	MR		22
BECK 477NRTM*	RR	4.7	3, 19		T	MR	MR	MR		22
BIOGENE BG 7392	R2Y	3.9	3, 14		MT	MR	MR	S		2, 25
BIOGENE BG 7421	R2Y	4.2	3, 14	1a	MT	MR	MR	S		2, 25
BIOGENE BG 7450	R2Y	4.4	3, 14		MT	MR	MR	S		2, 25
CAVERNDALE 485LLn	LL	4.8	3, 14	1a	MT	MR		MR		20, 21, 23, 24
CAVERNDALE 486 RR2Y/STSn	R2Y	4.8	3, 14		MT	MR		MR		20, 21, 23, 24
CAVERNDALE CF 411 LLn	LL	4.2	3, 14		T	MR	MR	MR		20, 21, 23, 24
CAVERNDALE CF 434 STSn	CONV	4.3	3, 14	1k	MT	MR		MR		20, 21, 23, 24
CAVERNDALE CF 436 RR2Yn	R2Y	4.3	3, 14	1c	MT	MR		MR		20, 21, 23, 24
CAVERNDALE CF 465 LLn	LL	4.6	3, 14		MT	MR	MR	MR		20, 21, 23, 24
CAVERNDALE CF E4612 RR2Yn	R2Y	4.6	3, 14	1a	MT	R	R	R		20, 21, 23, 24
CAVERNDALE CF E4812 RR2Yn	R2Y	4.8	3, 14	1k	MT	R	R	R		20, 21, 23, 24
CAVERNDALE CF E5012 RR2Yn	R2Y	5.0	3, 14	1a	MT	R	R	R		20, 21, 23, 24
DELTA GROW 4575 RR2	R2Y	4.5	3, 14	1c	MR	MR		MR		6
DELTA GROW 4670 RR2	R2Y	4.6	3, 14	1c	MR	MR		R		6
DELTA GROW 4715 RR2	R2Y	4.7	3, 14	1a	MR	MR		MR		6
DELTA GROW 4755 RR2	R2Y	4.7	3, 14		Mr	MR		MR		6
DELTA GROW 4765 RR2/STS	R2Y/STS	4.7	3, 14	1c	MR	MR		R		6
DELTA GROW 4825 RR2/STS	R2Y/STS	4.8	3, 14		MS	MR		MR		6
DELTA GROW 4875 RR2/STS	R2Y/STS	4.8	3, 14	1c	MR	MS		R		6
DELTA GROW 4880 RR	RR	4.8	3, 14	1k	MR	MR		R		6
DELTA GROW 4925 RR2	R2Y	4.9	3, 14	1c	MR	MR		R		6
DELTA GROW 5160 RR/STS	RR/STS	5.1	3, 14		MR	MR		MR		6
DELTA GROW 5175 RR2	R2Y	5.1	3, 14		MR	MS		R		6
DYNA-GRO 32RY39	R2Y/STS	3.9	3, 14	1c	MT	MR			R-FROGEYE LEAF SPOT	2
DYNA-GRO 33RY47	R2Y/STS	4.7	3, 14	1c	MT	MR		MR	R-FROGEYE LEAF SPOT	2
DYNA-GRO 38RY45	R2Y	4.5	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	2
DYNA-GRO 39RY43	R2Y	4.3	3, 14	1c	MT	MR			MS-FROGEYE LEAF SPOT	2
DYNA-GRO S38RY63	R2Y	3.8	3, 14	1c	MT	R			MR-FROGEYE LEAF SPOT	2
DYNA-GRO S44RS93	R2Y/STS	4.4	3, 14	1c	MT	MR		MR	R-FROGEYE LEAF SPOT	2
DYNA-GRO S47RY13	R2Y	4.7	3, 14		MT	MR		MR	MR-FROGEYE LEAF SPOT	2
DYNA-GRO S48RS53	R2Y/STS	4.8	3, 14	1c	MT	MR		R	MR-FROGEYE LEAF SPOT	2
DYNA-GRO SX12247	R2Y	4.7	3, 14	1k, 3a	MT	MR				2
EBBERTS 2380 RR2	R2Y	3.9	3, 14	1c	MT	MR	MR	MR	MR-FROGEYE LEAF SPOT	2
EBBERTS 2383 RR2	R2Y	3.9	3, 14	1c	MT	MR	MR	MR		2
EBBERTS 2443 RR2	R2Y/STS	4.4	3, 14	1c	MT	MR	MR	MR		2
EBBERTS 3393	CONV	3.9	3	1c	MT	MR	MR	MR		2
EMERGE GENETICS E4920S	CONV	4.9	3		T	MR	MR	R		6
EMERGE GENETICS E5110	CONV	5.1	3		T	MR	MR	R		6
EMERGE GENETICS XC4892S	CONV	4.8	3		T	MR	MR	R		6
ESSEX (long term check-released 1974)	CONV-P	5.0								
HALO 4:65	LL	4.6	3, 14	1c	MT	MR		R		
HALO 4:94	LL	4.9	3, 14	1k	M	M		R		18
HALO 4:95	LL	4.9	3, 14	1k	MT	MR		R		18
HALO 5:01	LL	4.9-5.0	3	1c	MT	MR		R		18
HALO 5:25	LL	5.3	3, 14		MT	MR		R		18
HALO 5:26	LL	5.2	3, 14		MT	MR		R		18
HALO 5:45	LL	5.4	3, 14	1k	MT	MR		R		18

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				Resistance Gene Rps	Field Tolerance					
HALO X456	LL	4.5								18
HALO X478	LL	4.7								18
HALO X55	LL	5.5								18
HORNBECK HBK R4924	RR	4.9	3, 14		MR	MR		R		17, 25
HORNBECK HBK RY4620	R2Y/STS	4.6		1c		R		MS		17, 25
HORNBECK HBK RY4721	R2Y	4.7	3, 14	1c				R		17, 25
HORNBECK HBK RY5221	R2Y	5.2	3		R			R		17, 25
HORNBECK HBK RY5421	R2Y	5.4	3		S			R		17, 25
HORNBECK HBK RY5521	R2Y	5.5			S	R		R		17, 25
L&M GLICK 38R	RR	3.8	3	1c			MR			3, 12, 20
L&M GLICK 412R2	R2Y	4.2	3, 14	1k			MS			3, 12, 20
L&M GLICK 822R2	R2Y	3.8	3, 14	1k			MS			3, 12, 20
LG SEEDS C3989R2	R2Y	3.9	3, 14	1k	T	MR			MS-FROGEYE LEAF SPOT	
LG SEEDS C4340R2	R2Y/STS	4.3	3, 14	1a	MT	MR		MR	R-FROGEYE LEAF SPOT	
LG SEEDS C4411R2	R2Y	4.4	3, 14	1c	T	MR				
LG SEEDS C4625R2	R2Y/STS	4.6		1c	MT	MR		MS	S-FROGEYE LEAF SPOT	
LG SEEDS C4780R2	R2Y/STS	4.8	3, 14	1c	T	MR		R	R-FROGEYE LEAF SPOT	
PENNYRILE (long term check-released 1987)	CONV-P	4.7								
PFISTER 43R29	R2Y	4.3	3, 14	1c	MT	MR	MR	MR		
PFISTER 45R23	R2Y	4.5	3, 14	1c	T	MR	MR	MR	R-FROGEYE LEAF SPOT	
PFISTER 47R22	R2Y	4.7	3, 14	1c	MT	MR	MR	MR		
PFISTER 52R26	R2Y	5.2	3, 14		T	MR		R	R-FROGEYE LEAF SPOT	
PIONEER 93Y82	RR	3.8	3	1a	MT	MR				1, 10, 17
PIONEER 93Y84	RR	3.8	3	1k	MT	MR				1, 10, 17
PIONEER 93Y92	RR	3.9	3		MS	MR				1, 10, 17
PIONEER 94Y20	RR	4.2	3	1k	MT	MR				1, 10, 17
PIONEER 94Y21	CONV	4.2	3, 14	1c	MT	MR				1, 10, 17
PIONEER 94Y22	RR	4.2	3, 14	1c	MS	MR				1, 10, 17
PIONEER 94Y23	RR	4.2	3		MS	MR				1, 10, 17
PIONEER 94Y40	RR	4.4	3	1k	MS	MR				1, 10, 17
PIONEER 94Y50	RR	4.5	3, 14		MT	MR				1, 10, 17
PIONEER 94Y61	RR	4.6	3, 14	1a	MT	MR				1, 10, 17
PIONEER 94Y70	RR	4.7	3, 14		MT	MR		MR		1, 10, 17
PIONEER 95Y10	RR	5.1	3, 14	1k	MT	MR				1, 10, 17
PROGENY 4211 RY	R2Y	4.2	3, 14		T	MR			MR-FROGEYE LEAF SPOT	25
PROGENY 4510 RY	R2Y	4.5			MR	R		MS	S-FROGEYE LEAF SPOT	25
PROGENY 4611 RY	R2Y	4.6	3, 14	1c	MS			R	MR-FROGEYE LEAF SPOT	25
PROGENY 4710 RY	R2Y	4.7				MR		MS	MR-FROGEYE LEAF SPOT	25
PROGENY 4747 RY	R2Y	4.7	3, 14		T	MR		MR	MR-FROGEYE LEAF SPOT	25
PROGENY 4814 RY	R2Y	4.8		3		MR				25
PROGENY 4819 LL	LL	4.8		1k		MR				25
PROGENY 4850 RY	R2Y	4.8	3, 14	1c		MR		R	MR-FROGEYE LEAF SPOT	25
PROGENY 4900 RY	R2Y	4.9	3, 14	1a		MR		MR	MR-FROGEYE LEAF SPOT	25
PROGENY 4920 RY	R2Y	4.9	3, 14	1a		MS				25
PROGENY 4928 LL	LL	4.9	3	1k				R	MR-FROGEYE LEAF SPOT	25
REV [®] 38R10 [™]	RR	3.8	3	1k	MT	T				6
REV [®] 44R22 [™]	RR	4.4	3, 14	1c	MT	T				6
REV [®] 45R10 [™]	RR	4.5	3	1k	MT	T		MR		6
REV [®] 47R53 [™]	RR	4.7	3, 14	1k	MT	MS		R		6
REV [®] 47R74 [™]	RR	4.7		1k	MT	T		R		6
REV [®] 48R10 [™]	RR	4.8	3		MT	T		R		6
REV [®] 48R22 [™]	RR	4.8	3, 14	1k	MT	T				6
REV [®] 48R33 [™]	RR	4.8	3, 14		MT	T				6
REV [®] 49R11 [™]	RR	4.9	3		MT	T		R		6
REV [®] 49R22 [™]	RR	4.9	3, 14	1a	MT	T				6
REV [®] 49R43 [™]	RR	4.9	3, 14	1k	MT	T		MR		6
REV [®] 49R54 [™]	RR	4.9		1k	MT	MS		R		6
REV [®] 51R53 [™]	RR	5.1	3, 14	1k	MT	T		R		6
REV [®] 52R74 [™]	RR	5.2			MT	T		R		6
REV [®] 53R23 [™]	RR	5.3		1k	MT	MR		R		6
REV [®] 54R84 [™]	RR	5.4		1k	MS			R		6
REV [®] 55R53 [™]	RR	5.5		1k	MS	T		R		6
REV [®] 55R83 [™]	RR	5.5			MT	MR		R		6
REV [®] 59R13 [™]	RR	5.9		3c				R		6
S39-U2 BRAND	R2Y	3.9	3, 14		MT	MR				3, 5, 12
S41-J6 BRAND	R2Y	4.1	3, 14	1c	MT	MR		S		3, 5, 12
S44-K7 BRAND	RR/STS	4.4	3, 14	1a	MT	MR		MR		3, 5, 12
S46-T3 BRAND	RR	4.6	3, 14	1a	MT	MR		MR		3, 5, 12
S49-F8 BRAND	RR	4.9	3, 14	1a	MT	MR		R		3, 5, 12
SCHILLINGER SEED 457.RCP	RR	4.5	3, 14	1c	T	MS	S	R		6
SCHILLINGER SEED 458.RCS	RR/STS	4.6	3, 14		T	MS	S	R		6
SCHILLINGER SEED 495.RC	RR	4.9	3, 14		T	MS	S	R		6
SCHILLINGER SEED 4990.RC	RR	4.9	3, 14		T	MS	S	R		6
SEED CONSULTANTS SCS 9362RR [™]	RR	3.6	3, 14		MS	MR			MR-FROGEYE LEAF SPOT, MS-CHARCOAL ROT	1, 10, 17
SEED CONSULTANTS SCS 9381RR [™]	RR	3.8	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT, MS-CHARCOAL ROT	1, 10, 17
SEED CONSULTANTS SCS 9392RR [™]	RR	3.9	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 10, 17
SEED CONSULTANTS SCS 9412R [™]	RR	4.1	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 10, 17
SEED CONSULTANTS SCS 9421RR [™]	RR/STS	4.2	3, 14	1k	MT	MR			MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 10, 17
SEED CONSULTANTS SCS 9472RR [™]	RR	4.7	3, 14		MT	MR		MR	MR-FROGEYE LEAF SPOT, MT-CHARCOAL ROT	1, 10, 17
SOUTHERN CROSS CLEMENT	R2Y	4.7	3, 14		MT	MR		MR	MR-FROGEYE LEAF SPOT	2
SOUTHERN CROSS GAMLIEL	R2Y/STS	4.4	3, 14	1c	MT	MR		MR	R-FROGEYE LEAF SPOT	2
SOUTHERN CROSS JESSE	R2Y	3.9	3, 14		MT	MR			MR-FROGEYE LEAF SPOT	2
SOUTHERN CROSS NATHAN	R2Y	4.5	3, 14	1c	MT	R		R	MR-FROGEYE LEAF SPOT	2

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				Resistance Gene Rps	Field Tolerance					
SOUTHERN CROSS SIMEON	R2Y/STS	4.8	3, 14	1c	MT	MT		R	MR-FROGEYE LEAF SPOT	2
SOUTHERN STATES SS 3811N R2	R2Y	3.8	3, 14		MT	MR		MR		
SOUTHERN STATES SS 3910N R2	R2Y	3.9	3, 14		MT	MR			R-FROGEYE LEAF SPOT	
SOUTHERN STATES SS 4032N R2	R2Y	4.0	3		T					6
SOUTHERN STATES SS 4312N R2	R2Y	4.4	3, 14		T	MR			R-ROOT KNOT NEMATODE	2
SOUTHERN STATES SS 4412N R2	R2Y	4.4	3, 14	1c	T	MR		R	R-FROGEYE LEAF SPOT	2
SOUTHERN STATES SS 4510N R2	R2Y	4.5	3, 14		MT	R				2
SOUTHERN STATES SS 4700 R2-STS	R2Y/STS	4.7		1c	T	MS				2
SOUTHERN STATES SS 4711N R2	R2Y	4.7		1c	T		MR	MR		2
SOUTHERN STATES SS 5112N R2	R2Y	5.1		1c	T	MR		MS	R-FROGEYE LEAF SPOT	2
STEWART 3800R2	R2Y	3.8	3, 14	1c	MT	MR		MR		2, 25
STEWART 3913R2	R2Y	3.9	3, 14	1c	MT	MR		MR		2, 25
STEWART 4113R2	R2Y	4.1	3, 14	1c	T	MR		MR		2, 25
STEWART 4212R2	R2Y	4.2	3	1a	MT	MR		MR		2, 25
STEWART 4412R2	R2Y	4.4	3	1c	MT	MR		MR		2, 25
STEWART 4509R2	R2Y	4.5		1c, 1k	MS	R		MR		2, 25
STEWART 4512R2	R2Y	4.5	3	1c	MT	MS		MR		2, 25
STEWART 4712R2	R2Y	4.7	3	1c	MT	MS		MR		2, 25
STEWART EXP4414R2	R2Y	4.4	3, 14	1c	MT					2, 25
STEYER 4203R2	R2Y	4.2	3, 14	1c	T	MR	MR	MR		1, 21
STEYER 4301R2	R2Y	4.3	3, 14	1c	T	MR	MR	R		1, 21
STEYER 4401R2	R2Y	4.4	3, 14	1c	T	MS	MR	R		1, 21
STEYER 4501R2	R2Y	4.5	3, 14	1c	T	MR	MR	MR		1, 21
STEYER 4701R2	R2Y	4.7	3, 14	1c	T	MR	MR	MR		1, 21
STEYER 4702R2	R2Y	4.7	3, 14		T	MR	MR	MR		1, 21
STINE 37RC82	R2Y	3.7	3, 14	1c	T	MR	MR	MR		6
STINE 47RC32	R2Y	4.7	3, 14	1k	T	MR	MR	MR		6
UNISOUTH GENETICS USG 5002T	CONV	5.0				MR		R	R-FROGEYE LEAF SPOT, R-SOUTHERN ROOT KNOT NEMATODE	6
UNISOUTH GENETICS USG 5601T	CONV	5.6				MR	R		R-FROGEYE LEAF SPOT	6
UNISOUTH GENETICS USG 73H77	RR	3.7	3, 14	1K		MR			MR-BROWN STEM ROT	6
UNISOUTH GENETICS USG 74D32R	R2Y	4.3	3			MR				6
UNISOUTH GENETICS USG 74F12R	R2Y	4.1	3			MR				6
UNISOUTH GENETICS USG 74G82L	LL	4.8				MR				6
UNISOUTH GENETICS USG 74G99L	LL	4.9		1K		MR			R-FROGEYE LEAF SPOT	6
UNISOUTH GENETICS USG 74T98	RR	4.9	3, 14			R				6
UNISOUTH GENETICS USG 75B21R	R2Y	5.2	2			MR				6
UNISOUTH GENETICS USG ALLEN	RR	5.6				MR	R		MR-FROGEYE LEAF SPOT	6
UNIVERSITY OF ARKANSAS OSAGE	CONV	5.6								4
UNIVERSITY OF ARKANSAS OZARK	CONV	5.2								4
UNIVERSITY OF ARKANSAS R05-4114	CONV	4.9								4
UNIVERSITY OF ARKANSAS UA5612	CONV	5.6								4
UNIVERSITY OF MISSOURI S08-X14117	RR	4.3								10, 17
UNIVERSITY OF MISSOURI S08-X2499	RR	4.8								10, 17
EXP USDA-ARS JTN-4307	CONV-EXP	5.0	2, 3, 14			MS	S	R	R-FROGEYE LEAF SPOT & RENIFORM NEMATODE & SOUTHERN ROOT KNOT NEMATODE	4, 5
EXP USDA-ARS JTN-4408	CONV-EXP	5.0	2, 3			MS	S	MS	R-FROGEYE LEAF SPOT & RENIFORM NEMATODE & SOUTHERN ROOT KNOT NEMATODES	4, 5
EXP USDA-ARS JTN-5108	CONV-EXP	5.4	3, 5			R	R	R	R-RENIFORM NEMATODES & SOUTHERN ROOT KNOT NEMATODES, MR-FROGEYE LEAF SPOT	4, 5
EXP USDA-ARS JTN-5110	CONV-EXP	5.5	2, 3, 5					R	R-FROGEYE LEAF SPOT	4, 5
USDA-ARS JTN-5203	CONV-P	5.3	2, 3, 14			R	S	R	R-FROGEYE LEAF SPOT & RENIFORM NEMATODE	4, 5
WARREN/DAIRYLAND 3980 R2Y	R2Y	3.9	3, 14	1c	MT	MR				6
WARREN/DAIRYLAND 43-0000 R2Y	R2Y	4.3	3	1c	R					
WARREN/DAIRYLAND 4300 RR	RR	4.3	3		MT				MT-BROWN STEM ROT	6
WARREN/DAIRYLAND 4343 R2Y	R2Y	4.3	3, 14	1c	MT	MR				6
WARREN/DAIRYLAND 4633 R2Y	R2Y	4.6	3, 14	1c						6
WARREN/DAIRYLAND 4810 RR	RR	4.8		1c	MT					6
WARREN/DAIRYLAND 4850 R2Y/STS	R2Y/STS	4.8	3, 14	1c						6

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 (glufosate ammonium) herbicide tolerant soybean variety
STS Introduced in 1994, STS is a sulfonyleurea herbicide tolerant soybean variety
CONV Variety is a conventional entry, ie: not Roundup Ready or Liberty Link tolerant
EXP Variety that is soon to be released or still being evaluated
P Public variety

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

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

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

Seed Treatments

Research over five seasons of testing various seed applied insecticide treatments on soybean in Kentucky have not produced a single example of a statistically significant greater yield of treatments compared to the control. This outcome 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, UK Extension Entomologist).

Most seed companies historically offer seed treatments as optional, relying heavily on the seed distributors to treat seeds as requested. One reason is to avoid any costly disposal issues with treated seed,

thus avoiding having large inventories that cannot be sold into the grain market at local elevators. Interestingly, almost all of the new traits introduced into the marketplace today require the inclusion of specified treatments. Requiring these seed treatments may increase the probability of achieving the yield increases the new traits might provide.

Table 4. Seed Treatments.

Code	Name (treatment combination)	Treatment	Chemical class/use	LD50 oral/derm ^A
1	Allegiance & Meta Star ST	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	862/2,020
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,	5,000/200
20	Optimize 400	Lipo-chitooligosaccharide	natural growth enhancer	5,000/2,000
21	Rancona 3.8 FS	Ipconazole	systemic broad-spectrum fungicide	5,000/slight
22	Escalate (3, 12, 16, 10)	Mefenoxam, Fludioxonil, Thiram, Imidacloprid	systemic & non-systemic fungicide, systemic insecticide	640/2,000
23	Meta Star ST	Metalaxyl	systemic fungicide	2,900/2,000
24	Macho 600 ST (10)	Imidacloprid	systemic insecticide	4,500/2,000
25	Poncho/VOTIVO	Clothianidin, Bacillus firmus	systemic insecticide and nematocide	2,000/5,000

^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. 2012 Kentucky Soybean Variety Performance Tests, State Summary. Recommended Table.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING			% OIL ^{A,B}			% PROTEIN ^{A,B}			
	2012	11-12	10-12	2012	2012	11-12	10-12	2012	11-12	10-12	2012	11-12	10-12
MATURITY GROUP III (relative MG 3.0-3.9)													
PIONEER 93Y84	48.5			1.2	21.7						35.0		
LG SEEDS C3989R2	48.4			1.1	21.6						34.6		
SEED CONSULTANTS SCS 9392RR™	47.8	46.3		1.3	22.3	21.6		34.4	34.8				
ASGROW AG3931	47.7	49.0	45.8	1.9	20.5	20.0	19.9	35.9	35.8	35.7			
PIONEER 93Y82	47.7	46.7	43.4	1.2	21.3	20.8	20.7	35.4	35.3	35.4			
STEWART 3913R2	47.6			1.1	20.5			36.0					
BECK 398NR	47.5			1.1	21.8			35.0					
REV®38R10™	47.4	47.3	42.8	1.5	21.8	21.1	22.3	35.4	35.5	36.0			
WARREN/DAIRYLAND 3980 R2Y	47.2			1.3	20.1			36.7					
L&M GLICK 822R2	46.9			1.4	20.1			38.0					
L&M GLICK 38R	46.9			1.1	21.7			34.8					
BIOGENE BG 7392	46.7			1.1	20.3			36.4					
EBBERTS 3393	46.3			1.2	20.6			35.2					
EBBERTS 2383 RR2	46.1			1.1	20.8			37.9					
SOUTHERN STATES SS 3910N R2	45.7	46.2	44.8	1.3	20.4	20.1	20.5	36.4	36.0	35.6			
DYNA-GRO 32RY39	44.7	45.7		1.1	20.3	19.8		36.4	36.4				
ARMOR 39-R16	44.6			1.3	20.6			35.8					
SEED CONSULTANTS SCS 9362RR™	44.6	46.0		1.1	21.7	21.1		34.7	34.9				
ARMOR X1301	44.1			1.0	21.0			35.1					
S39-U2 BRAND	43.4	44.7		1.4	21.1	20.5		35.5	35.6				
EBBERTS 2380 RR2	43.2			1.1	20.6			36.4					
STEWART 3800R2	43.1	43.7	41.5	1.1	20.8	20.2	20.1	36.1	36.5	36.6			
ASGROW AG3832	43.0	44.8		1.1	20.5	20.1		35.9	36.0				
PIONEER 93Y92	42.9	44.5	42.6	1.5	21.2	20.7	20.4	35.9	35.9	36.0			
DYNA-GRO S38RY63	42.7			1.1	20.7			36.0					
UNISOUTH GENETICS USG 73H77	42.5	43.0		1.7	21.0	20.4		35.2	35.5				
SOUTHERN CROSS JESSE	41.9			1.0	21.7			34.3					
BECK 375NRTM*	41.7			1.3	21.2			35.1					
STINE 37RC82	41.2			1.3	21.0			35.2					
SEED CONSULTANTS SCS 9381RR™	40.0	44.5	43.4	1.0	21.0	20.5	20.7	36.6	36.6	36.4			
ARMOR X1302	39.9			1.1	20.6			35.3					
BECK 362NRTM*	39.4			1.1	22.2			35.6					
SOUTHERN STATES SS 3811N R2	38.5	43.5		1.4	19.9	19.4		37.1	37.2				
GROUP III AVERAGE	44.5	45.4	43.5	1.2	21	20.4	20.7	35.7	35.9	36.0			
LSD (0.10)	1.6	3.4	3.0		1.0	1.5	1.7	1.5	0.9	1.8			
C.V.	7.7	9.0	9.8		4.4	6.1	5.4	3.5	2.8	2.7			
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)													
WARREN/DAIRYLAND 43-0000 R2Y	50.1			1.1	20.4	19.9		35.8	35.7				
LG SEEDS C4340R2	48.5			1.5	21.5	20.4	20.3	35.4	35.5	35.5			
SOUTHERN STATES SS 4510N R2	48.4	47.9	44.5	1.9	20.0	19.4		37.3	36.8				
BIOGENE BG 7450	47.7	48.0	45.4	1.5	20.5			35.9					
ASGROW AG4533	47.6			1.3	20.1			36.0					
CAVERNDALE CF 411 LLn	47.5	49.2	46.4	1.6	20.4			36.3					
PFISTER 45R23	47.5	49.7		1.7	20.9	20.0	19.9	37.0	36.5	36.4			
STEYER 4501R2	47.3	50.4	47.2	1.7	20.5	19.6		36.3	35.9				
PIONEER 94Y23	47.2			1.1	19.5			35.3					
STEYER 4401R2	47.1			1.2	20.7	20.0		34.4	34.8				
DYNA-GRO 38RY45	47.1	49.1	45.3	1.3	20.8	20.0	19.7	35.0	35.5	35.6			
DYNA-GRO 39RY43	47.0	49.5		1.4	20.7	19.9	19.8	36.2	36.2	36.4			
ARMOR X1302	46.8			1.0	19.9			35.6					
ASGROW AG4232	46.7	50.5		2.1	21.2	20.3		36.3	36.0				
SOUTHERN CROSS GAMLIEL	46.7			1.1	21.1	20.1		35.0	35.3				
STEWART 4512R2	46.7	49.3		1.9	20.0			35.9					
PIONEER 94Y50	46.6	50.3		1.7	20.4	19.6		34.9	35.0				
BECK 418NRTM*	46.6			1.3	20.3			36.0					
STEWART 4509R2	46.3	48.5	46.4	1.4	20.0	19.8	19.6	35.9	35.7	35.9			
PIONEER 94Y22	46.2	48.6		1.0	20.6	19.7	19.6	35.7	35.9	35.9			
PFISTER 43R29	46.1			1.3	20.2			35.6					
SEED CONSULTANTS SCS 9412R™	46.1			1.3	20.2	19.5		36.4	36.1				
UNISOUTH GENETICS USG 74F12R	46.0			2.3	20.0			35.7					
ARMOR X1303	45.8			1.3	20.0			36.6					
SOUTHERN STATES SS 4032N R2	45.6			1.0	20.7	19.8		35.8	35.8				
SOUTHERN CROSS NATHAN	45.6			1.3	21.1	20.1		34.8	34.9				
UNIVERSITY OF MISSOURI S08-X14117	45.3			1.2	20.5	19.8	19.5	36.8	36.6	36.6			
STEYER 4301R2	45.3			1.1	20.7	19.8	19.4	34.7	35.1	35.3			
LG SEEDS C4411R2	45.2			1.3	20.4			35.7					
HALO X456	45.2			1.5	20.3			35.6					
WARREN/DAIRYLAND 4343 R2Y	45.1			1.1	20.4			35.4					
BECK 444NRTM*	45.0			1.7	20.3	19.4		36.0	35.9				
PROGENY 4510 RY	44.9	48.8	45.7	1.7	19.9			36.0					
ASGROW AG4433	44.7			1.3	19.9	19.5	19.4	37.0	36.4	36.6			
PROGENY 4211 RY	44.5	46.7		1.4	20.7			36.1					
STEWART EXP4414R2	44.5			1.3	20.4			35.0					
SOUTHERN STATES SS 4412N R2	44.5			1.3	20.9			35.6					
S44-K7 BRAND	44.4			1.3	19.9			35.0					
SCHILLINGER SEED 457.RCP	44.4	45.2	43.1	2.3	20.1			35.0					
REV®44R22™	44.3	45.2	42.1	1.3	20.8			34.2					
STEWART 4412R2	44.3	46.8		1.3	20.2			35.5					
L&M GLICK 412R2	44.2	48.7		1.4	20.4			34.6					
ARMOR X1305	44.0			1.3	20.5			35.1					
ASGROW AG4033	43.9			1.3	20.1			35.8					

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Table 5. 2012 Kentucky Soybean Variety Performance Tests, State Summary. Recommended Table.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING			% OIL ^{A,B}			% PROTEIN ^{A,B}		
	2012	11-12	10-12	2012	2012	11-12	10-12	2012	11-12	10-12		
CAVERNDALE CF 436 RR2Yn	43.8	46.5		1.3	20.8					35.5		
EBBERTS 2443 RR2	43.8			1.1	20.6					35.0		
REV [®] 45R10 [™]	43.7	45.2	42.8	1.9	21.1	20.2		35.6	35.7			
DELTA GROW 4575 RR2	43.7			1.5	19.9	19.2	19.1	36.0	36.0	36.2		
SEED CONSULTANTS SCS 9421RR [™]	43.7	47.5	44.8	1.2	20.8			35.4				
STEYER 4203R2	43.7	48.7		1.1	20.8	20.0		36.0	35.8			
CAVERNDALE CF E4612 RR2Yn	43.5			1.5	20.1			35.9				
SOUTHERN STATES SS 4312N R2	43.5	50.2		1.3	19.9	19.6		35.7	35.4			
PIONEER 94Y40	43.4	44.3		1.3	20.2	19.4		35.4	35.4			
UNISOUTH GENETICS USG 74D32R	43.3			1.9	19.9			34.9				
PIONEER 94Y20	43.3	46.0	43.6	1.7	20.7	19.9		36.1	36.0			
BECK 432NRTM*	43.2	46.7	43.7	1.2	20.3	19.5	19.3	36.2	36.1	36.3		
STEWART 4212R2	43.2	46.5		1.4	20.5			35.9				
STEWART 4113R2	43.2			1.2	20.9			34.6				
ARMOR 44-R08	43.0	48.3		1.2	19.8	19.4	19.3	36.3	36.0	36.2		
WARREN/DAIRYLAND 4300 RR	42.5	46.1	44.1	1.5	20.8	20.0	19.8	35.0	35.3	35.4		
S41-J6 BRAND	42.4			1.4	20.0	19.5		35.5	35.1			
DYNA-GRO S44RS93	42.1			1.1	19.9			36.0				
ARMOR X1304	41.5			1.1	21.7	20.6	20.3	35.8	35.7	36.0		
CAVERNDALE 434 STSn	41.4	45.2		1.1	20.2	19.6	19.6	36.2	36.0	36.1		
PIONEER 94Y21	41.1	43.2	39.4	1.3	20.7			35.3				
BIOGENE BG 7421	41.1	45.8		1.3	20.0			36.2				
GROUP IV EARLY AVERAGE	45.0	47.6	44.3	1.4	20.4	19.8	19.6	35.7	35.7	36.0		
LSD (0.10)	1.7	3.1	3.1		0.5	1.3	0.9	1.2	2.4	1.0		
C.V.	8.1	8.1	9.8		4.0	5.7	5.9	4.5	3.6	3.5		
MATURITY GROUP IV LATE (relative MG 4.6-4.9)												
PFISTER 47R22	50.9			1.3	19.4			36.0				
ASGROW AG4831	50.4			1.2	19.6			36.2				
DELTA GROW 4925 RR2	50.4			1.3	19.6			36.3				
PROGENY 4710 RY	50.3	51.4	47.8	1.1	20.2	19.6	19.4	36.4	35.9	36.2		
DELTA GROW 4670 RR2	50.0	51.3		1.3	20.0	19.6		34.5	34.4			
DELTA GROW 4765 RR2/STS	49.8			1.3	19.1			36.5				
DYNA-GRO S48RS53	49.6			1.4	19.1			36.6				
ARMOR X1307	49.1			1.4	20.6			36.3				
S46-T3 BRAND	48.9			1.8	21.0			34.2				
PROGENY 4611 RY	48.9	51.4		1.5	20.2	19.4		34.6	35.1			
STINE 47RC32	48.5	47.4		1.1	20.0	19.6		34.9	34.5			
CAVERNDALE 486 RR2Yn	48.4			1.4	19.5			36.7				
PIONEER 94Y61	48.3	48.4		1.1	19.7	19.3		36.6	36.1			
HALO 4:95	48.2			1.3	20.3			36.3				
ASGROW AG4632	48.0	50.3		1.5	19.5	19.4		35.6	35.3			
S49-F8 BRAND	47.9			1.0	19.4			36.7				
PROGENY 4900 RY	47.9			1.1	19.6			36.8				
HALO 4:94	47.8	46.0	42.9	1.1	20.2			35.2				
SOUTHERN CROSS SIMEON	47.7			1.3	19.7			35.9				
WARREN/DAIRYLAND 4633 R2Y	47.6			1.2	19.6			35.0				
SOUTHERN STATES SS 4700 R2-STS	47.5	49.9	47.6	1.3	19.9	19.4	19.4	36.0	35.9	36.1		
WARREN/DAIRYLAND 4850 R2Y/STS	47.5			1.2	18.8			37.1				
HORNBECK HBK RY4721	47.5			1.3	19.4			36.1				
PROGENY 4850 RY	47.5			1.1	19.2			36.5				
CAVERNDALE CF E4812 RR2Yn	47.2			1.5	20.6			37.1				
HORNBECK HBK RY4620	47.1	50.5	46.5	1.2	19.9	19.6	19.5	35.9	35.1	35.4		
LG SEEDS C4780R2	47.1			1.2	19.1			36.1				
HALO 5:01	47.1			1.1	20.1			35.1				
STEWART 4712R2	47.1	48.8		1.3	19.7	19.2		35.9	35.3			
ARMOR X1312	47.0			1.1	19.4			36.2				
DELTA GROW 4825 R2Y/STS	47.0			1.3	20.0			36.6				
DYNA-GRO SX12247	46.8			1.1	20.2	19.5	19.3	35.2	35.8	36.1		
ARMOR 46-R64	46.7			1.3	19.9			35.3				
SCHILLINGER SEED 458.RCS	46.7	47.5		1.2	19.8	19.0		36.0	35.8			
HORNBECK HBK R4924	46.6	49.2	46.3	1.7	20.1	19.4	19.3	35.3	35.2	35.4		
LG SEEDS C4625R2	46.5	50.4		1.1	20.1	19.8		35.6	35.1			
UNISOUTH GENETICS USG 74G99L	46.5	48.4		1.2	20.1	19.8		35.3	34.8			
ASGROW AG4933	46.3			1.1	20.0			36.0				
ARMOR 46-R42	46.3			1.0	19.8			35.9				
SOUTHERN CROSS CLEMENT	46.1			1.1	19.5			36.0				
ARMOR 48-R91	46.0			1.5	19.6			36.3				
EMERGE GENETICS XC4892S	45.8			1.1	20.2			36.2				
DYNA-GRO S47RY13	45.8			1.1	19.6			36.4				
STEYER 4701R2	45.7	48.7		1.3	19.7	19.2		36.4	35.8			
ARMOR 47-R17	45.6			1.3	20.4			35.5				
ARMOR X1308	45.5			1.6	19.8			36.8				
ARMOR 48-R40	45.4	49.0	45.6	1.2	19.7	19.5	19.5	36.9	36.0	36.0		
SEED CONSULTANTS SCS 9472RR [™]	45.3	47.6		1.3	20.1	19.6		36.1	35.4			
SCHILLINGER SEED 4990.RC	45.3	48.2	45.5	1.5	19.6	19.3	19.4	36.8	35.9	36.0		
DYNA-GRO 33RY47	45.0	47.8		1.5	19.9	19.4		35.4	35.1			
PROGENY 4819 LL	45.0			1.3	20.4			36.0				
UNIVERSITY OF ARKANSAS R05-4114	44.9			2.6	18.8			37.0				
PROGENY 4747 RY	44.8			1.2	19.2			36.7				
STEYER 4702R2	44.8			1.4	19.6			36.5				
PROGENY 4928 LL	44.7	45.8	43.2	1.1	19.8	19.3	19.3	35.5	35.2	35.1		
ASGROW AG4832	44.6	49.3		1.5	20.1	19.6		35.7	35.8			
DELTA GROW 4755 RR2	44.6			1.3	19.8			36.2				

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Table 5. 2012 Kentucky Soybean Variety Performance Tests, State Summary. Recommended Table.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING			% OIL ^{A,B}			% PROTEIN ^{A,B}			
	2012	11-12	10-12	2012	2012	11-12	10-12	2012	11-12	10-12	2012	11-12	10-12
ASGROW AG4732	44.4	48.7		1.4	20.1	19.8		35.7	35.0				
HALO X478	44.4			1.2	20.4			35.9					
WARREN/DAIRYLAND 4810 RR	44.3	44.9	43.1	1.1	20.3	19.6		36.2	35.9	36.0			
DELTA GROW 4875 RR2/STS	44.1			1.4	19.6	19.4		35.9	35.5				
REV [®] 49R43™	44.1	46.4		1.5	20.7	19.9		36.2	35.8				
REV [®] 49R54™	43.9			1.9	19.9			35.5					
PROGENY 4814 RY	43.8			1.1	20.2			34.8					
REV [®] 48R10™	43.8	45.6	42.3	1.3	20.1	19.7	19.6	35.0	34.7	35.0			
BECK 477NRTM*	43.8	44.6		1.3	20.5	19.9		36.1	35.5				
HALO 4:65	43.5	45.5	44.0	1.4	20.2	19.8	19.7	36.1	34.7	34.6			
UNIVERSITY OF MISSOURI 508-X2499	43.5			1.2	20.6			34.2					
ARMOR 49-R56	43.3			1.1	19.4			35.6					
CAVERNDALE CF 465 LLn	43.3	44.2		1.5	20.0	19.5		35.4	35.1				
EMERGE GENETICS E4920S	43.2			1.2	19.3			37.2					
SCHILLINGER SEED 495.RC	43.2	44.0	42.5	1.6	19.3	19.0	19.0	36.7	36.1	36.3			
REV [®] 47R53™	42.9	47.0		1.3	21.3	20.4		35.7	35.3				
PROGENY 4920 RY	42.9			1.3	18.7			37.9					
DELTA GROW 4715 RR2	42.7			1.1	19.9			36.2					
SOUTHERN STATES SS 4711N R2	42.7	48.3		1.2	20.5	19.7		36.0	35.5				
DELTA GROW 4880 RR	42.6	46.1	44.1	1.5	19.6	19.0	18.9	37.6	37.0	37.3			
UNISOUTH GENETICS USG 74G82L	42.4			1.5	20.2			36.1					
PIONEER 94Y70	42.1	46.3	45.2	1.3	20.4	19.8	19.9	35.7	35.3	35.5			
ARMOR X1311	41.6			1.2	18.9			37.6					
UNISOUTH GENETICS USG 74T98	41.4			3.3	19.9			34.7					
CAVERNDALE 485LLn	41.4			1.3	20.2			36.5					
REV [®] 49R11™	41.4	45.3	41.6	1.0	20.0	19.6	19.5	37.2	36.5	36.7			
REV [®] 48R22™	41.2	44.8		1.3	19.8	19.2		34.9	35.1				
REV [®] 48R33™	41.2	46.5		1.5	19.9	19.5		36.0	35.7				
REV [®] 49R22™	40.9	42.9		1.8	19.6	19.0		36.2	36.2				
REV [®] 47R74™	39.1			1.1	20.4			36.1					
PENNYRILE (long term check-released 1987)	37.2	37.0	34.3	1.2	19.9	19.0	19.1	36.9	36.9	37.1			
GROUP IV LATE AVERAGE	45.5	47.2	43.9	1.3	20.0	19.5	19.4	36.0	35.5	36.0			
LSD (0.10)	1.9	3.5	3.1		0.5	1.0	0.7	0.8	1.1	1.1			
C.V.	9.0	9.0	9.8		4.0	4.5	4.1	3.3	3.2	3.5			
MATURITY GROUP V (relative MG 5.0-5.9)													
HALO 5:25	50.3	54.1	49.6	1.9	19.7	19.1	18.9	35.8	35.3	35.8			
HALO 5:26	48.4			1.8	18.8			37.8					
UNISOUTH GENETICS USG 5002T	47.9	49.9	46.7	2.9	19.5	18.5	18.5	36.0	36.2	36.1			
HALO 5:01	46.9			1.1	19.3			35.7					
PIONEER 95Y10	46.7	50.8		1.1	19.0	18.4		37.9	37.0				
UNISOUTH GENETICS USG 5601T	46.5	52.6	49.3	2.8	18.0	17.8	17.9	37.5	36.7	36.9			
UNIVERSITY OF ARKANSAS OSAGE	46.5	52.3	48.0	1.8	18.5	17.9	17.8	37.6	36.7	36.9			
EMERGE GENETICS E5110	46.2			1.1	18.7			39.6					
UNIVERSITY OF ARKANSAS OZARK	46.0	50.2	45.6	2.3	18.5	18.0	18.0	36.4	36.1	36.4			
REV [®] 55R83™	45.9			2.1	19.1			35.1					
HALO X55	45.8			1.6	18.5			35.7					
ARMOR X1312	45.5			1.0	18.6			37.2					
HORNBECK HBK RY5521	45.4			1.8	17.8			36.9					
REV [®] 55R53™	45.3			2.5	18.8			36.9					
DELTA GROW 5160 RR/STS	45.3	48.7	43.7	1.6	19.4	18.8	18.8	37.9	36.8	36.9			
UNIVERSITY OF ARKANSAS UA5612	45.3			3.5	18.4			36.7					
USDA-ARS JTN-5203	45.2	49.7		1.5	19.6	18.8		36.1	35.4				
UNISOUTH GENETICS USG ALLEN	45.2	50.8	46.0	3.1	18.5	18.0		36.6	36.7				
CAVERNDALE CF E5012 RR2Yn	45.0			1.4	18.2			38.8					
PFISTER 52R26	45.0			2.4	17.7			38.0					
EXP USDA-ARS JTN-5110	44.9			2.3	19.1			36.9					
REV [®] 59R13™	44.3			2.1	18.7			35.3					
REV [®] 54R84™	44.1			2.3	19.1			36.0					
HALO 5:45	44.1			1.9	18.7			36.1					
REV [®] 52R74™	43.9			1.3	19.2			37.2					
HORNBECK HBK RY5421	42.6			2.5	18.9			36.0					
SOUTHERN STATES SS 5112N R2	42.3	49.0		2.3	19.3	18.8		35.7	35.1				
EXP USDA-ARS JTN-4408	42.2			2.5	19.1			36.4					
REV [®] 51R53™	42.1	50.1		1.3	20.3	19.2		36.7	36.2				
EXP USDA-ARS JTN-4307	42.0			2.7	19.1			37.8					
DELTA GROW 5175 R2Y	41.9			2.2	18.5			36.3					
ESSEX (long term check-released 1974)	41.5	43.5	39.8	2.5	18.3	17.9	17.9	38.1	37.0	37.3			
UNISOUTH GENETICS USG 75B21R	40.0	49.1		2.9	19.5	18.6		35.5	35.6				
EXP USDA-ARS JTN-5108	39.7			3.7	17.9			37.1					
HORNBECK HBK RY5221	38.6			2.3	18.5			36.8					
REV [®] 53R23™	36.5			1.1	18.8			37.2					
GROUP V AVERAGE	44.3	50.1	46.1	2.1	18.8	18.4	18.3	36.8	36.2	36.7			
LSD (0.10)	1.7	3.5	3.1		0.5	0.8	0.4	1.7	1.5	1.6			
C.V.	8.2	9.0	9.6		4.3	5.8	5.0	4.1	3.9	4.0			

^A 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.

^B Variety protein and oil concentration was determined at the McLean Co. location in 2010, the Fayette Co. location in 2011, and at the Calloway Co., Daviess Co., and Fayette Co. locations in 201. The protein and oil content is expressed on the basis of 13% seed moisture.

Table 6. 2012 Kentucky Soybean Variety Performance Tests, Caldwell County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING
	2012	11-12	10-12	2012
MATURITY GROUP III (relative MG 3.0-3.9)				
ARMOR 39-R16	60.6			1.0
REV [®] 38R10 [™]	59.8	57.3	47.4	1.0
SEED CONSULTANTS SCS 9392RR [™]	59.6	52.2		1.0
SOUTHERN CROSS JESSE	56.4			1.0
BECK 398NR	51.2			1.0
L&M GLICK 822R2	50.9			1.0
ASGROW AG3931	50.3	56.2	53.2	1.0
LG SEEDS C3989R2	50.3			1.0
EBBERTS 3393	50.1			1.0
EBBERTS 2380 RR2	50.0			1.3
STEWART 3800R2	50.0	44.8	44.3	1.0
WARREN/DAIRYLAND 3980 R2Y	49.9			1.0
PIONEER 93Y92	49.9	50.5	49.1	1.3
S39-U2 BRAND	49.7	49.3		1.0
BECK 375NR [*]	49.4			1.0
PIONEER 93Y84	48.7			1.0
SOUTHERN STATES SS 3910N R2	48.7	51.7	49.2	1.0
ARMOR X1302	48.2			1.0
STEWART 3913R2	48.1			1.0
SEED CONSULTANTS SCS 9381RR [™]	47.9	47.3	47.1	1.0
BIOGENE BG 7392	47.2			1.0
DYNA-GRO S38RY63	47.2			1.0
ARMOR X1301	46.9			1.0
SEED CONSULTANTS SCS 9362RR [™]	46.7	51.9		1.0
PIONEER 93Y82	46.6	48.4	44.3	1.0
EBBERTS 2383 RR2	46.5			1.0
L&M GLICK 38R	45.6			1.0
ASGROW AG3832	45.1	50.3		1.0
SOUTHERN STATES SS 3811N R2	43.8	48.4		1.0
DYNA-GRO 32RY39	42.9	44.7		1.0
UNISOUTH GENETICS USG 73H77	41.3	49.6		1.0
BECK 362NRTM [*]	40.1			1.0
STINE 37RC82	39.7			1.0
GROUP III AVERAGE	48.8	50.2	47.8	1.0
LSD (0.10)	4.4	5.1	4.4	
C.V.	8.5	12.4	12.9	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
HALO X456	59.7			1.0
STEYER 4501R2	55.9	65.3	58.8	1.0
PFISTER 43R29	55.6			1.0
CAVERNDALE CF 411 LLn	55.4	61.6	56.2	1.0
ARMOR X1302	54.2			1.0
ARMOR X1303	50.5			1.0
WARREN/DAIRYLAND 4343 R2Y	50.0			1.0
DYNA-GRO 38RY45	49.3	59.7	54.9	1.0
PIONEER 94Y50	49.1	60.5		1.0
REV [®] 45R10 [™]	49.1	54.0	47.8	1.0
SEED CONSULTANTS SCS 9412R [™]	49.1			1.0
ASGROW AG4533	48.9			1.0
STEWART 4212R2	48.2	57.2		1.0
CAVERNDALE CF E4612 RR2Yn	48.0			1.0
PROGENY 4510 RY	47.6	52.3	48.2	1.0
DYNA-GRO 39RY43	47.3	56.8		1.0
SOUTHERN STATES SS 4032N R2	47.3			1.0
PFISTER 45R23	47.1	53.1		1.0
BIOGENE BG 7450	46.7	52.2	49.1	1.0
ARMOR X1305	46.6			1.0
ASGROW AG4232	45.9	59.2		1.3
STEYER 4401R2	45.8			1.0
SCHILLINGER SEED 457.RCP	45.7	49.9	47.0	1.3
UNIVERSITY OF MISSOURI S08-X14117	45.6			1.0
SOUTHERN CROSS NATHAN	45.5			1.0
SOUTHERN CROSS GAMLIEL	45.2			1.0
PIONEER 94Y23	45.1			1.0
S44-K7 BRAND	45.1			1.0
ASGROW AG4433	45.0			1.0
STEWART 4512R2	45.0	55.1		1.0
BECK 418NRTM [*]	44.9			1.0
CAVERNDALE CF 436 RR2Yn	44.7	55.0		1.0
PROGENY 4211 RY	44.5	51.5		1.0
LG SEEDS C4411R2	44.3			1.0
STEWART 4509R2	44.2	51.0	49.6	1.0
DYNA-GRO S44RS93	44.0			1.0
BECK 432NRTM [*]	43.8	54.1	50.8	1.0
PIONEER 94Y22	43.7	56.9		1.0
BECK 444NRTM [*]	43.6			1.0
STEYER 4301R2	43.4			1.0
REV [®] 44R22 [™]	43.2	50.0	47.0	1.0
SOUTHERN STATES SS 4510N R2	43.1	49.5	46.7	1.3
UNISOUTH GENETICS USG 74F12R	43.1			1.3
PIONEER 94Y20	43.0	51.3	46.6	1.0

AGRONOMIC INFORMATION

Location

Caldwell County

Soil type

Crider silt loam

Previous crop

Tobacco

Pre-planting treatments

Lime (1.25 tons/ac) and KCl (30 lb/ac) in April

Glyphosate (30 fl/ac) and Authority XL (6.5 ai/ac) herbicides 4/30/2012

Agricultural practice

Shallow tillage on planting day

Planting dates

MG III 6/6/2012

MG IV and V 6/7/2012

Harvest dates

MG III 10/22/2012

MG IV 10/23/2012

MG V 11/8/2012

Precipitation and temperature history

	Precipitation total monthly (in.)	Temperature (°F)		
		Average monthly	Highest recorded	Lowest recorded
March	3.00	60.1	83.2	25.9
April	0.62	59.9	86.3	29.8
May	1.84	71.4	93.9	42.8
June	2.44	75.3	105.6	45.3
July	1.40	82.5	104.9	65.1
August	2.46	78.0	100.5	53.2
September	5.16	68.0	90.1	36.5
October	1.15	55.9	81.0	31.0

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Table 6. 2012 Kentucky Soybean Variety Performance Tests, Caldwell County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING
	2012	11-12	10-12	2012
PIONEER 94Y40	42.9	48.6		1.0
DELTA GROW 4575 RR2	42.6			1.0
STEYER 4203R2	41.9	56.8		1.0
LG SEEDS C4340R2	41.8			1.0
ASGROW AG4033	41.7			1.0
STEWART 4412R2	41.1	53.5		1.0
SOUTHERN STATES SS 4412N R2	41.0			1.0
CAVERNDALE 434 STSn	40.7	52.4		1.0
SOUTHERN STATES SS 4312N R2	40.6	58.5		1.0
BIOGENE BG 7421	40.4	51.9		1.0
EBBERTS 2443 RR2	39.3			1.0
STEWART EXP4414R2	39.3			1.0
STEWART 4113R2	39.1			1.0
ARMOR 44-R08	38.5	53.0		1.0
UNISOUTH GENETICS USG 74D32R	38.2			1.0
ARMOR X1304	38.0			1.0
PIONEER 94Y21	37.5	49.2	45.5	1.0
WARREN/DAIRYLAND 43-0000 R2Y	37.3			1.0
WARREN/DAIRYLAND 4300 RR	36.5	50.4	47.0	1.0
L&M GLICK 412R2	36.3	54.5		1.0
SEED CONSULTANTS SCS 9421RR™	35.0	53.9	50.6	1.0
S41-J6 BRAND	32.7			1.0
GROUP IV EARLY AVERAGE	44.5	54.3	49.7	1.0
LSD (0.10)	4.2	4.0	3.7	
C.V.	9.0	9.5	10.7	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
ARMOR X1312	59.8			1.0
LG SEEDS C4625R2	59.4	65.8		1.0
SEED CONSULTANTS SCS 9472RR™	58.4	65.6		1.3
S46-T3 BRAND	57.9			1.0
ARMOR X1307	56.6			1.3
PROGENY 4850 RY	56.2			1.0
STINE 47RC32	55.9	60.7		1.0
HALO 5:01	54.9			1.0
DELTA GROW 4670 RR2	54.3	62.0		1.0
UNIVERSITY OF ARKANSAS R05-4114	53.8			2.0
DELTA GROW 4925 RR2	53.4			1.3
HALO 4:94	53.1	56.7	49.3	1.0
DYNA-GRO S48RS53	52.3			1.3
PROGENY 4611 RY	51.6	63.1		1.0
HALO 4:65	51.1	56.4	49.1	1.0
PROGENY 4819 LL	51.1			1.0
ARMOR 48-R40	51.0	58.8	48.9	1.0
PROGENY 4710 RY	50.7	58.9	49.1	1.0
WARREN/DAIRYLAND 4850 R2Y/STS	50.6			1.0
PFISTER 47R22	50.6			1.0
SCHILLINGER SEED 4990.RC	50.5	60.3	53.5	1.0
REV™49R43™	50.0	55.7		1.0
DYNA-GRO S47RY13	49.8			1.0
ASGROW AG4632	49.6	60.3		1.0
CAVERNDALE CF 465 LLn	49.6	52.3		1.0
UNISOUTH GENETICS USG 74G99L	49.5	53.8		1.0
BECK 477NRTM*	49.4	55.5		1.0
ARMOR X1308	49.4			1.0
PIONEER 94Y61	49.3	60.0		1.0
SOUTHERN STATES SS 4711N R2	48.9	60.8		1.0
UNISOUTH GENETICS USG 74T98	48.4			1.7
EMERGE GENETICS XC4892S	48.3			1.0
DYNA-GRO SX12247	48.1			1.0
LG SEEDS C4780R2	47.6			1.0
STEWART 4712R2	47.6	57.5		1.0
SOUTHERN STATES SS 4700 R2-STS	47.4	60.4	54.6	1.0
ARMOR 47-R17	47.3			1.0
SCHILLINGER SEED 458.RCS	47.3	57.0		1.0
CAVERNDALE CF E4812 RR2Yn	47.2			1.3
STEYER 4701R2	47.1	59.5		1.0
DELTA GROW 4765 RR2/STS	47.0			1.0
ARMOR 48-R91	47.0			1.0
HORNBECK HBK RY4620	46.9	57.7	50.8	1.0
HALO X478	46.8			1.0
PROGENY 4928 LL	46.7	53.6	46.0	1.0
HORNBECK HBK RY4721	46.4			1.0
ASGROW AG4831	46.3			1.0
ARMOR X1311	46.1			1.0
PROGENY 4900 RY	45.8			1.0
UNISOUTH GENETICS USG 74G82L	45.2			1.0
ARMOR 46-R42	45.0			1.0
SCHILLINGER SEED 495.RC	44.8	51.3	47.5	1.0
CAVERNDALE 485LLn	44.7			1.0
SOUTHERN CROSS SIMEON	44.6			1.0
EMERGE GENETICS E4920S	44.5			1.0
REV™47R53™	44.4	54.7		1.0
PROGENY 4814 RY	44.4			1.0

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Table 6. 2012 Kentucky Soybean Variety Performance Tests, Caldwell County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING
	2012	11-12	10-12	2012
DELTA GROW 4875 RR2/STS	44.3			1.0
S49-F8 BRAND	44.0			1.0
HALO 4:95	43.9			1.0
DELTA GROW 4715 RR2	43.8			1.0
DELTA GROW 4825 R2Y/STS	43.8			1.0
DELTA GROW 4755 RR2	43.7			1.0
WARREN/DAIRYLAND 4810 RR	43.5	55.5	49.8	1.0
REV [®] 49R54 [™]	43.2			1.7
WARREN/DAIRYLAND 4633 R2Y	43.1			1.0
REV [®] 48R10 [™]	43.1	52.5	45.5	1.0
PENNYRILE (long term check-released 1987)	42.3	47.9	40.8	1.0
REV [®] 49R22 [™]	42.3	53.5		1.7
ASGROW AG4732	42.2	56.9		1.0
CAVERNDALE 486 RR2Yn	42.0			1.0
ARMOR 49-R56	41.8			1.0
SOUTHERN CROSS CLEMENT	41.6			1.0
DELTA GROW 4880 RR	41.6	52.0	48.0	1.0
HORNBECK HBK R4924	41.5	55.6	49.7	1.0
REV [®] 48R33 [™]	41.4	56.9		1.0
UNIVERSITY OF MISSOURI S08-X2499	41.2			1.0
STEYER 4702R2	40.9			1.0
PIONEER 94Y70	40.0	53.0	47.8	1.0
PROGENY 4747 RY	39.9			1.0
ASGROW AG4832	39.7	54.1		1.0
REV [®] 47R74 [™]	39.3			1.0
ASGROW AG4933	38.3			1.0
ARMOR 46-R64	37.6			1.0
DYNA-GRO 33RY47	36.9	55.3		1.0
PROGENY 4920 RY	36.3			1.0
REV [®] 49R11 [™]	35.2	51.4	46.7	1.0
REV [®] 48R22 [™]	29.8	49.1		1.0
GROUP IV LATE AVERAGE	46.6	56.6	48.6	1.1
LSD (0.10)	4.1	3.6	3.4	
C.V.	8.5	8.2	9.5	
MATURITY GROUP V (relative MG 5.0-5.9)				
REV [®] 55R53 [™]	51.6			1.3
HALO 5:25	50.9	56.3	50.7	1.0
HALO 5:45	48.4			1.7
ARMOR X1312	47.9			1.0
DELTA GROW 5175 R2Y	47.1			1.3
UNISOUTH GENETICS USG 5601T	46.6	57.8	53.5	1.0
REV [®] 52R74 [™]	46.6			1.0
UNIVERSITY OF ARKANSAS OSAGE	46.3	57.4	49.1	1.3
HALO X55	46.0			1.3
HORNBECK HBK RY5521	45.0			1.7
REV [®] 55R83 [™]	44.9			1.3
UNISOUTH GENETICS USG ALLEN	44.8	55.3	50.1	2.0
EXP USDA-ARS JTN-4307	44.4			2.0
PIONEER 95Y10	44.4	53.5		1.0
UNIVERSITY OF ARKANSAS OZARK	44.3	52.5	47.7	1.7
PFISTER 52R26	44.2			1.0
DELTA GROW 5160 RR/STS	43.4	50.2	42.0	1.0
UNISOUTH GENETICS USG 5002T	43.4	52.4	47.2	1.7
REV [®] 54R84 [™]	43.4			1.0
USDA-ARS JTN-5203	42.7	51.0		1.0
ESSEX (long term check-released 1974)	41.2	47.5	40.4	1.0
REV [®] 59R13 [™]	41.0			1.0
HALO 5:01	40.9			1.0
UNIVERSITY OF ARKANSAS UA5612	40.9			2.3
SOUTHERN STATES SS 5112N R2	40.4	52.0		1.7
CAVERNDALE CF E5012 RR2Yn	39.3			1.0
HALO 5:26	39.0			1.0
EXP USDA-ARS JTN-5108	38.4			2.7
EXP USDA-ARS JTN-4408	38.3			2.0
EMERGE GENETICS E5110	37.1			1.0
REV [®] 51R53 [™]	36.2	50.2		1.0
EXP USDA-ARS JTN-5110	35.3			1.3
UNISOUTH GENETICS USG 75B21R	33.3	51.5		1.0
HORNBECK HBK RY5221	32.7			1.3
HORNBECK HBK RY5421	32.6			1.7
REV [®] 53R23 [™]	25.6			1.0
GROUP V AVERAGE	41.9	52.9	47.6	1.3
LSD (0.10)	4.3	3.5	2.9	
C.V.	9.8	9.0	9.1	

^A 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. 2012 Kentucky Soybean Variety Performance Tests, Calloway County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING 2012
	2012	11-12	10-12	
MATURITY GROUP III (relative MG 3.0-3.9)				
PIONEER 93Y82	45.2	41.2	35.5	2.0
BIOGENE BG 7392	45.1			1.0
L&M GLICK 38R	40.7			1.3
STEWART 3913R2	40.7			1.0
PIONEER 93Y92	39.6	40.5	36.3	1.7
WARREN/DAIRYLAND 3980 R2Y	39.1			1.0
SEED CONSULTANTS SCS 9362RR™	38.8	41.3		1.0
PIONEER 93Y84	38.6			1.0
BECK 362NRTM*	38.0			1.0
UNISOUTH GENETICS USG 73H77	37.8	39.0		3.0
BECK 398NR	37.8			1.0
LG SEEDS C3989R2	37.4			1.3
SOUTHERN STATES SS 3910N R2	37.2	39.4	35.9	2.0
REV*38R10™	37.2	40.7	36.3	1.7
EBBERTS 2383 RR2	36.4			1.3
ASGROW AG3931	35.9	40.6	36.7	2.3
EBBERTS 2380 RR2	35.9			1.0
ARMOR 39-R16	35.9			1.0
BECK 375NRTM*	35.8			1.3
L&M GLICK 822R2	35.7			1.3
ARMOR X1301	35.5			1.0
SEED CONSULTANTS SCS 9381RR™	35.5	42.0	38.2	1.0
DYNA-GRO 32RY39	35.4	39.9		1.3
SOUTHERN STATES SS 3811N R2	34.7	38.9		2.0
EBBERTS 3393	34.4			1.7
SOUTHERN CROSS JESSE	34.2			1.3
SEED CONSULTANTS SCS 9392RR™	32.9	39.3		1.3
STINE 37RC82	32.5			1.3
ARMOR X1302	32.1			1.0
S39-U2 BRAND	31.2	36.4		1.0
STEWART 3800R2	30.9	32.8	30.3	1.0
DYNA-GRO S38RY63	29.6			1.0
ASGROW AG3832	27.5	32.0		1.0
GROUP III AVERAGE	36.2	36.2	36.2	1.3
LSD (0.10)	2.0	2.4	2.2	
C.V.	5.1	7.4	8.4	
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
PIONEER 94Y50	42.6	44.7		1.7
BECK 444NRTM*	42.1			1.3
PFISTER 45R23	41.7	45.4		2.0
ASGROW AG4433	40.8			1.3
PIONEER 94Y23	40.6			1.0
EBBERTS 2443 RR2	40.5			1.0
SOUTHERN STATES SS 4510N R2	39.8	40.0	37.2	2.3
STEYER 4401R2	39.4			1.0
UNISOUTH GENETICS USG 74F12R	39.2			3.0
ARMOR X1303	39.2			1.3
DYNA-GRO 39RY43	39.1	41.5		1.0
ASGROW AG4533	39.1			1.0
S44-K7 BRAND	38.8			1.0
PIONEER 94Y22	38.8	43.1		1.0
SEED CONSULTANTS SCS 9421RR™	38.6	43.2	39.1	1.3
STEYER 4203R2	38.5	44.2		1.0
DELTA GROW 4575 RR2	38.5			1.7
STEWART 4512R2	38.4	40.2		2.3
WARREN/DAIRYLAND 4300 RR	38.3	44.2	42.3	1.0
CAVERNDALE CF 411 LLn	37.8	42.5	38.0	1.7
SCHILLINGER SEED 457.RCP	37.8	38.3	36.2	2.3
WARREN/DAIRYLAND 43-0000 R2Y	37.5			1.0
SOUTHERN STATES SS 4312N R2	37.5	43.8		1.0
PFISTER 43R29	37.4			1.0
STEWART EXP4414R2	37.3			1.3
BIOGENE BG 7450	37.3	37.3	35.1	1.3
STEWART 4509R2	37.2	41.1	38.1	1.0
L&M GLICK 412R2	37.1	46.4		1.0
SOUTHERN CROSS GAMLIEL	37.1			1.0
SOUTHERN STATES SS 4412N R2	37.1			1.3
PROGENY 4510 RY	37.1	40.8	38.0	1.7
PIONEER 94Y20	37.0	43.5	38.9	1.7
ARMOR X1304	36.9			1.0
UNIVERSITY OF MISSOURI S08-X14117	36.6			1.3
ARMOR X1302	36.5			1.0
CAVERNDALE CF 436 RR2Yn	36.5	40.3		1.0
BIOGENE BG 7421	36.5	42.6		1.0
ARMOR 44-R08	36.4	42.4		1.0
SEED CONSULTANTS SCS 9412R™	36.2			1.0
ASGROW AG4232	36.1	43.3		2.0
ARMOR X1305	35.8			1.3
STEYER 4301R2	35.7			1.0
LG SEEDS C4411R2	35.7			1.3
STEYER 4501R2	35.5	41.2	38.0	1.3

AGRONOMIC INFORMATION

Location

Calloway County

Soil type

Grenada silt loam A

Previous crop

Tobacco

Pre-planting treatments

Lime (2 tons/ac) and KCl in April

Spartan Charge (8 fl/ac) and Dual II Magnum (1.7 pt/ac) herbicides in May

Glyphosate (40fl/ac) 6/7/12

Agricultural practice

Till

Planting date

6/8/2012

Harvest dates

MG III and IV Early 10/19/2012

MG IV Late and V 11/9/2012

Precipitation and temperature history

	Precipitation total monthly (in.)	Temperature (°F)		
		Average monthly	Highest recorded	Lowest recorded
March	4.98	60.9	83.4	27.9
April	1.18	h60.6	84.4	33.0
May	2.00	71.7	93.0	46.6
June	1.59	76.3	107.2	47.8
July	3.94	82.6	105.2	66.2
August	1.77	78.7	98.0	55.6
September	6.64	68.7	91.4	39.1
October	4.39	56.8	81.7	34.4

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Table 7. 2012 Kentucky Soybean Variety Performance Tests, Calloway County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING
	2012	11-12	10-12	2012
PIONEER 94Y40	35.3	37.6		1.0
BECK 418NRTM*	35.2			1.0
STEWART 4212R2	35.1	40.4		1.0
LG SEEDS C4340R2	35.0			1.0
STEWART 4412R2	34.7	37.9		1.0
CAVERNDALE 434 STSn	34.5	40.6		1.0
HALO X456	34.5			1.7
UNISOUTH GENETICS USG 74D32R	34.3			2.0
DYNA-GRO S44RS93	34.2			1.0
STEWART 4113R2	34.2			1.0
S41-J6 BRAND	34.1			1.7
SOUTHERN STATES SS 4032N R2	34.0			1.0
DYNA-GRO 38RY45	33.9	38.8	35.6	1.0
SOUTHERN CROSS NATHAN	33.8			1.0
BECK 432NRTM*	33.8	40.1	36.1	1.0
PROGENY 4211 RY	33.7	40.0		1.0
REV [®] 44R22 [™]	33.6	39.2	35.4	1.0
ASGROW AG4033	32.8			1.3
WARREN/DAIRYLAND 4343 R2Y	31.3			1.0
REV [®] 45R10 [™]	30.9	38.2	34.4	2.0
CAVERNDALE CF E4612 RR2Yn	30.5			1.3
PIONEER 94Y21	27.1	37.2	33.2	1.0
GROUP IV EARLY AVERAGE	36.5	36.5	36.5	1.3
LSD (0.10)	3.1	2.6	2.5	
C.V.	8.1	7.9	9.3	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
UNISOUTH GENETICS USG 74G99L	46.4	53.6		1.0
ASGROW AG4831	46.3			1.7
ARMOR 46-R64	46.2			1.3
DELTA GROW 4765 RR2/STS	46.0			2.3
PROGENY 4747 RY	45.7			1.3
HALO 4:94	45.5	45.0	40.6	1.0
HALO 4:95	45.3			1.0
DELTA GROW 4925 RR2	44.7			1.7
SOUTHERN CROSS CLEMENT	44.7			1.3
STEWART 4712R2	44.1	45.4		2.0
SOUTHERN CROSS SIMEON	43.9			1.7
CAVERNDALE CF E4812 RR2Yn	43.2			1.3
S49-F8 BRAND	43.1			1.0
PFISTER 47R22	43.1			2.0
PROGENY 4920 RY	43.0			2.0
PIONEER 94Y61	42.8	46.1		1.0
REV [®] 48R22 [™]	42.4	43.8		2.0
WARREN/DAIRYLAND 4633 R2Y	42.2			1.0
DELTA GROW 4825 R2Y/STS	42.0			1.3
LG SEEDS C4780R2	41.9			1.7
ARMOR 47-R17	41.9			1.3
PROGENY 4710 RY	41.8	46.6	42.0	1.0
DYNA-GRO 33RY47	41.7	46.3		2.3
WARREN/DAIRYLAND 4850 R2Y/STS	41.7			1.7
STEYER 4702R2	41.6			1.3
DELTA GROW 4670 RR2	41.5	45.6		1.3
REV [®] 49R54 [™]	41.4			2.7
HORNBECK HBK RY4620	41.3	48.9	43.8	1.0
ARMOR 46-R42	41.3			1.0
S46-T3 BRAND	41.2			2.3
HORNBECK HBK RY4721	41.0			1.7
ARMOR X1307	40.9			2.0
ASGROW AG4632	40.6	45.0		2.7
HORNBECK HBK R4924	40.2	44.0	39.8	2.7
HALO X478	40.2			1.0
SCHILLINGER SEED 4990.RC	39.9	46.3	42.6	2.0
DYNA-GRO S48RS53	39.8			2.0
PROGENY 4900 RY	39.7			1.0
STINE 47RC32	39.4	41.6		1.0
UNIVERSITY OF MISSOURI S08-X2499	39.4			2.0
STEYER 4701R2	39.1	46.3		1.7
CAVERNDALE 486 RR2Yn	39.1			1.7
REV [®] 48R10 [™]	38.6	43.5	39.5	1.7
SOUTHERN STATES SS 4700 R2-STS	38.6	43.9	39.5	1.3
SCHILLINGER SEED 495.RC	38.5	40.4	38.0	1.3
HALO 5:01	38.5			1.0
ARMOR 49-R56	38.2			1.0
EMERGE GENETICS XC4892S	38.1			1.0
CAVERNDALE 485LLn	38.0			1.0
WARREN/DAIRYLAND 4810 RR	37.9	39.5	36.4	1.0
REV [®] 49R43 [™]	37.8	45.1		1.7
DELTA GROW 4875 RR2/STS	37.7			1.7
ARMOR X1308	37.3			2.3
ASGROW AG4732	37.1	45.0		1.7
ARMOR X1312	36.8			1.7
LG SEEDS C4625R2	36.7	43.6		1.0
DELTA GROW 4880 RR	36.7	46.1	43.1	1.3

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Table 7. 2012 Kentucky Soybean Variety Performance Tests, Calloway County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING
	2012	11-12	10-12	2012
UNIVERSITY OF ARKANSAS R05-4114	36.6			4.0
PROGENY 4611 RY	36.4	45.1		1.3
DYNA-GRO S47RY13	36.3			1.0
PROGENY 4819 LL	36.2			1.0
UNISOUTH GENETICS USG 74T98	35.8			4.3
REV [®] 49R22 [™]	35.8	38.7		2.3
PROGENY 4928 LL	35.7	39.1	37.8	1.0
ARMOR 48-R91	35.7			2.0
SEED CONSULTANTS SCS 9472RR [™]	35.7	44.5		1.0
ASGROW AG4933	35.6			1.3
DELTA GROW 4755 RR2	35.4			1.3
ARMOR X1311	35.2			1.0
UNISOUTH GENETICS USG 74G82L	35.2			1.0
REV [®] 47R53 [™]	34.9	42.0		1.0
EMERGE GENETICS E4920S	34.8			1.0
ASGROW AG4832	34.6	46.7		2.3
PROGENY 4850 RY	34.6			1.7
DELTA GROW 4715 RR2	34.5			1.0
DYNA-GRO SX12247	34.3			1.0
BECK 477NRTM [*]	34.1	36.2		1.0
REV [®] 49R11 [™]	34.1	38.6	34.5	1.0
PROGENY 4814 RY	34.0			1.0
REV [®] 48R33 [™]	33.6	42.3		1.7
PIONEER 94Y70	32.7	44.0	41.1	2.0
ARMOR 48-R40	32.6	40.8	38.8	1.3
SCHILLINGER SEED 458.RCS	32.5	40.8		1.3
HALO 4:65	31.2	40.5	39.4	1.0
CAVERNDALE CF 465 LLn	30.6	38.4		1.3
SOUTHERN STATES SS 4711N R2	30.4	43.2		1.3
REV [®] 47R74 [™]	28.8			1.0
PENNYRILE (long term check-released 1987)	25.0	34.1	31.8	1.0
GROUP IV LATE AVERAGE	38.6	43.3	39.3	1.5
LSD (0.10)	3.8	3.7	3.2	
C.V.	9.4	10.6	11.4	
MATURITY GROUP V (relative MG 5.0-5.9)				
UNIVERSITY OF ARKANSAS UA5612	45.4			3.3
HALO 5:01	44.0			1.3
REV [®] 54R84 [™]	43.5			2.3
HALO 5:25	43.3	53.5	47.0	2.0
HALO X55	43.1			1.7
UNISOUTH GENETICS USG 5002T	42.3	44.3	40.4	3.3
UNIVERSITY OF ARKANSAS OSAGE	42.2	49.3	44.8	2.7
HORNBECK HBK RY5421	42.1			2.3
HALO 5:26	41.9			1.3
PFISTER 52R26	41.9			3.0
UNIVERSITY OF ARKANSAS OZARK	41.8	51.2	46.1	2.3
HALO 5:45	40.4			2.3
UNISOUTH GENETICS USG ALLEN	40.4	48.9	44.6	4.0
REV [®] 59R13 [™]	40.2			2.7
REV [®] 51R53 [™]	39.9	46.7		1.3
EMERGE GENETICS E5110	39.6			1.0
ARMOR X1312	39.1			1.0
EXP USDA-ARS JTN-4408	38.9			2.7
HORNBECK HBK RY5521	38.9			2.3
UNISOUTH GENETICS USG 5601T	38.6	55.3	49.8	4.0
EXP USDA-ARS JTN-5108	38.1			4.0
EXP USDA-ARS JTN-5110	37.5			2.0
PIONEER 95Y10	37.4	43.9		1.0
CAVERNDALE CF E5012 RR2Yn	37.2			1.3
DELTA GROW 5175 R2Y	35.8			3.0
USDA-ARS JTN-5203	35.1	45.9		1.3
REV [®] 55R53 [™]	34.5			4.7
REV [®] 52R74 [™]	34.2			2.0
EXP USDA-ARS JTN-4307	34.0			2.7
REV [®] 55R83 [™]	34.0			2.3
DELTA GROW 5160 RR/STS	33.3	48.6	42.6	1.7
ESSEX (long term check-released 1974)	32.8	39.4	33.5	4.0
UNISOUTH GENETICS USG 75B21R	32.3	50.5		3.0
HORNBECK HBK RY5221	31.3			2.7
SOUTHERN STATES SS 5112N R2	29.9	45.1		3.3
REV [®] 53R23 [™]	26.5			1.7
GROUP V AVERAGE	38.1	47.9	43.6	2.4
LSD (0.10)	3.0	3.9	3.5	
C.V.	7.5	11.0	12.0	

^A 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. 2012 Kentucky Soybean Variety Performance Tests, Daviess County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LOGGING 2012	PLANT HEIGHT (IN)
	2012	11-12	10-12		
MATURITY GROUP III (relative MG 3.0-3.9)					
LG SEEDS C3989R2	57.3			2.3	43
PIONEER 93Y82	56.8	58.3	47.8	1.3	38
SOUTHERN CROSS JESSE	53.9			2.3	43
PIONEER 93Y84	53.5			1.3	43
ARMOR 39-R16	53.4			1.3	43
L&M GLICK 38R	53.4			1.3	42
PIONEER 93Y92	53.2	53.8	44.5	1.3	39
L&M GLICK 822R2	53.2			1.0	35
EBBERTS 2380 RR2	52.9			1.0	39
ASGROW AG3931	52.4	56.5	45.4	2.3	42
BECK 398NR	52.3			2.0	39
BIOGENE BG 7392	52.3			1.3	42
EBBERTS 3393	52.1			1.7	43
SEED CONSULTANTS SCS 9362RR™	52.0	51.6		1.0	34
STEWART 3913R2	51.2			1.3	41
STEWART 3800R2	51.0	53.3	41.6	1.7	42
SEED CONSULTANTS SCS 9381RR™	50.8	51.3	43.9	2.0	44
SEED CONSULTANTS SCS 9392RR™	50.8	52.1		1.7	38
ASGROW AG3832	50.8	54.0		2.0	38
EBBERTS 2383 RR2	50.1			1.3	39
SOUTHERN STATES SS 3910N R2	49.6	53.7	45.7	2.7	39
WARREN/DAIRYLAND 3980 R2Y	49.5			3.0	42
DYNA-GRO S38RY63	49.2			1.7	40
ARMOR X1302	48.9			1.0	38
REV™38R10™	48.9	51.0	40.8	2.3	39
STINE 37RC82	48.6			1.3	34
UNISOUTH GENETICS USG 73H77	48.5	49.0		1.3	38
ARMOR X1301	47.8			1.0	39
S39-U2 BRAND	47.8	51.4		1.3	38
SOUTHERN STATES SS 3811N R2	46.2	50.7		1.0	38
DYNA-GRO 32RY39	44.3	50.8		2.0	42
BECK 362NRTM*	43.8			1.0	37
BECK 375NRTM*	38.9			2.3	44
GROUP III AVERAGE	50.5	52.7	44.2	1.6	40
LSD (0.10)	3.5	2.6	2.7		
C.V.	6.5	6.0	7.9		
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)					
DYNA-GRO 38RY45	63.7	59.5	46.5	2.0	43
LG SEEDS C4340R2	61.9			2.0	48
L&M GLICK 412R2	61.7	59.1		3.3	49
PIONEER 94Y23	61.3			2.7	46
SEED CONSULTANTS SCS 9412R™	61.0			1.3	39
STEYER 4301R2	60.0			2.3	48
BECK 418NRTM*	59.7			1.7	45
STEYER 4501R2	59.5	59.8	47.6	2.3	42
SOUTHERN STATES SS 4032N R2	58.9			1.0	43
STEWART 4113R2	58.9			1.3	38
ASGROW AG4533	58.9			1.0	39
UNIVERSITY OF MISSOURI 508-X14117	58.5			3.0	48
ASGROW AG4232	58.2	58.7		2.3	43
PROGENY 4211 RY	58.2	55.4		2.7	49
SOUTHERN CROSS GAMLIEL	57.7			1.3	41
WARREN/DAIRYLAND 4343 R2Y	57.4			3.0	46
SOUTHERN CROSS NATHAN	57.2			3.0	49
PROGENY 4510 RY	56.9	60.7	49.3	1.7	41
DYNA-GRO 39RY43	56.8	58.1		1.0	39
STEWART 4212R2	56.7	54.0		1.3	41
STEYER 4401R2	56.5			1.3	44
PIONEER 94Y40	56.4	51.9		1.7	47
ASGROW AG4033	56.0			1.3	44
ARMOR X1302	56.0			2.3	45
UNISOUTH GENETICS USG 74F12R	56.0			3.0	48
ASGROW AG4433	55.9			3.3	40
SOUTHERN STATES SS 4312N R2	55.8	57.6		2.7	47
PIONEER 94Y20	55.7	53.1	46.2	2.3	48
S41-J6 BRAND	55.5			2.7	45
WARREN/DAIRYLAND 43-0000 R2Y	55.2			3.0	43
PIONEER 94Y50	55.0	56.0		3.3	45
ARMOR 44-R08	55.0	57.3		2.0	41
CAVERNDAL CF 436 RR2Yn	54.9	55.4		2.3	46
ARMOR X1305	54.4			2.7	47
SOUTHERN STATES SS 4510N R2	54.1	56.1	46.1	2.3	46
PIONEER 94Y21	54.0	51.5	41.6	2.0	41
STEYER 4203R2	53.8	55.2		3.3	45
PFISTER 45R23	53.7	55.1		2.0	42
CAVERNDAL CF 411 LLn	53.6	56.7	46.3	1.7	40
SEED CONSULTANTS SCS 9421RR™	53.5	54.0	45.3	2.3	44
STEWART 4512R2	53.4	55.2		2.0	44
SCHILLINGER SEED 457.RCP	53.3	53.7	43.4	2.0	38
S44-K7 BRAND	53.2			2.7	45
REV™44R22™	53.1	51.5	41.6	3.3	50

AGRONOMIC INFORMATION

Location
Daviess County

Soil type
Newark silt loam

Previous crop
Corn

Pre-planting treatments
(not available)

Agricultural practice
Shallow tillage just before planting

Planting date
6/5/2012

Harvest dates
MG III and IV Early 10/24/2012
MG IV Late and V 10/25/2012

Precipitation and Temperature history

	Precipitation total monthly (in.)	Temperature (°F)		
		Average monthly	Highest recorded	Lowest recorded
March	1.82	61	99	29
April	0.54	60	88	34
May	1.62	73	95	49
June	0.42	76	107	48
July	5.91	85	106	68
August	1.69	78	100	54
September	3.27	70	96	38
October	2.28	58	84	32

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Table 8. 2012 Kentucky Soybean Variety Performance Tests, Daviess County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LOGGING	PLANT
	2012	11-12	10-12	2012	HEIGHT (IN)
BECK 432NRTM*	53.0	53.6	45.1	2.0	42
SOUTHERN STATES SS 4412N R2	53.0			1.7	42
STEWART 4509R2	52.7	55.1	43.7	2.3	45
REV [®] 45R10 [™]	52.6	50.5	40.2	3.7	52
DYNA-GRO S44RS93	52.4			4.7	48
PIONEER 94Y22	52.4	53.5		2.7	47
DELTA GROW 4575 RR2	52.0			2.7	41
STEWART 4412R2	51.9	52.8		2.7	46
ARMOR X1303	51.9			3.0	44
CAVERNDALE CF 434 STSn	51.7	53.0		1.7	38
EBBERTS 2443 RR2	51.7			2.0	51
LG SEEDS C4411R2	51.6			1.7	41
PFISTER 43R29	51.3			2.7	50
STEWART EXP4414R2	50.6			3.7	43
UNISOUTH GENETICS USG 74D32R	50.4			2.0	47
BECK 444NRTM*	50.3			2.7	51
BIOGENE BG 7421	49.9	55.6		4.0	50
ARMOR X1304	49.7			1.7	42
WARREN/DAIRYLAND DSR-4300/RR	49.2	52.2	44.5	2.0	41
HALO X456	48.5			1.7	42
CAVERNDALE CF E4612 RR2Yn	47.8			3.3	45
BIOGENE BG 7450	44.6	49.6	41.2	3.0	45
GROUP IV EARLY AVERAGE	54.8	55.0	44.6	2.4	44
LSD (0.10)	4.1	3.0	2.9		
C.V.	7.1	6.5	8.1		
MATURITY GROUP IV LATE (relative MG 4.6-4.9)					
ASGROW AG4831	60.5			1.3	46
SCHILLINGER SEED 458.RCS	59.8	56.3		1.7	49
PROGENY 4611 RY	59.6	57.6		2.7	45
DYNA-GRO S48RS53	59.6			1.7	51
HALO 4:95	59.4			2.3	45
BECK 477NRTM*	58.9	56.4		2.3	49
CAVERNDALE 486 RR2Yn	57.9			2.3	44
DYNA-GRO SX12247	57.5			1.3	48
HORNBECK HBK RY4620	57.2	56.0	43.5	2.0	43
ARMOR X1307	57.1			1.7	51
CAVERNDALE CF E4812 RR2Yn	56.8			2.7	47
DYNA-GRO 33RY47	56.4	54.5		2.3	51
WARREN/DAIRYLAND 4633 R2Y	55.8			2.0	44
HORNBECK HBK R4924	55.5	54.2	43.2	2.7	49
STEYER 4702R2	55.4			2.7	47
DELTA GROW 4925 RR2	55.3			1.7	47
DELTA GROW 4670 RR2	54.7	54.3		2.3	46
ASGROW AG4632	54.4	54.7		1.7	47
DELTA GROW 4825 R2Y/STS	54.3			2.3	43
PIONEER 94Y61	54.1	52.8		1.3	48
DELTA GROW 4765 RR2/STS	54.0			1.3	51
PROGENY 4900 RY	53.8			1.3	43
S49-F8 BRAND	53.7			1.0	44
SOUTHERN CROSS CLEMENT	53.7			1.3	47
STEWART 4712R2	53.6	52.1		1.7	50
ASGROW AG4933	53.6			1.3	49
PROGENY 4819 LL	53.5			2.7	46
PROGENY 4710 RY	53.4	55.2	47.6	1.7	45
ASGROW AG4832	53.1	53.2		2.0	50
DELTA GROW 4755 RR2	53.0			2.0	47
STINE 47RC32	52.9	50.2		1.3	45
ARMOR 48-R40	52.9	56.2	47.7	1.7	42
DYNA-GRO S47RY13	52.8			1.7	45
PROGENY 4850 RY	52.5			1.0	49
REV [®] 49R11 [™]	52.4	50.5	40.3	1.0	44
ARMOR 46-R42	52.1			1.0	46
ARMOR 48-R91	52.1			2.3	50
DELTA GROW 4875 RR2/STS	52.0			2.3	52
ARMOR 46-R64	52.0			2.0	47
ARMOR 47-R17	51.9			2.0	46
PROGENY 4747 RY	51.7			1.7	49
HORNBECK HBK RY4721	51.7			1.3	51
S46-T3 BRAND	51.5			3.7	48
DELTA GROW 4880 RR	51.3	50.6	40.3	3.0	48
HALO 4:94	51.1	50.0	40.0	1.7	44
REV [®] 47R74 [™]	51.1			1.3	47
SOUTHERN STATES SS 4700 R2-STS	50.8	54.5	45.0	2.0	45
HALO 5:01	50.7			1.3	47
REV [®] 47R53 [™]	50.6	53.5		2.7	46
EMERGE GENETICS E4920S	50.6			1.3	46
EMERGE GENETICS XC4892S	50.6			1.7	43
ARMOR X1312	50.3			1.0	40
UNISOUTH GENETICS USG 74G82L	50.2			3.3	42
SOUTHERN CROSS SIMEON	50.1			1.7	53
ARMOR X1308	50.0			2.3	50
WARREN/DAIRYLAND 4850 R2Y/STS	49.9			1.3	48

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Table 8. 2012 Kentucky Soybean Variety Performance Tests, Daviess County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LOGGING	PLANT
	2012	11-12	10-12	2012	HEIGHT (IN)
ARMOR 49-R56	49.9			1.7	43
UNIVERSITY OF ARKANSAS R05-4114	49.7			3.3	42
STEYER 4701R2	49.6	52.0		1.7	45
CAVERNDALE 485LLn	49.4			2.3	40
REV [®] 48R33 [™]	49.4	51.3		2.3	49
PIONEER 94Y70	49.4	50.8	44.0	1.7	48
REV [®] 49R43 [™]	49.4	50.9		2.7	45
PROGENY 4814 RY	49.3			1.3	47
PFISTER 47R22	49.2			1.3	45
DELTA GROW 4715 RR2	49.1			1.7	50
HALO 4:65	48.9	47.2	39.1	3.0	50
PROGENY 4928 LL	48.8	48.7	39.4	1.7	43
SCHILLINGER SEED 4990.RC	48.5	51.8	42.8	2.3	46
LG SEEDS C4780R2	48.3			1.3	50
LG SEEDS C4625R2	48.0	53.7		1.3	44
HALO X478	47.9			2.0	45
WARREN/DAIRYLAND 4810 RR	47.5	48.4	40.4	1.7	44
REV [®] 48R10 [™]	47.2	49.7	41.3	1.7	46
REV [®] 48R22 [™]	47.0	53.0		1.3	47
ASGROW AG4732	46.9	50.8		2.3	49
PROGENY 4920 RY	46.9			1.7	50
UNISOUTH GENETICS USG 74G99L	46.8	48.6		2.0	43
SOUTHERN STATES SS 4711N R2	46.5	50.3		1.7	48
SCHILLINGER SEED 495.RC	46.3	47.8	40.1	3.7	52
SEED CONSULTANTS SCS 9472RR [™]	45.8	47.8		1.7	49
PENNYRILE (long term check-released 1987)	45.6	40.5	31.0	2.0	48
REV [®] 49R22 [™]	45.4	48.6		3.0	49
UNIVERSITY OF MISSOURI 508-X2499	45.2			1.0	45
ARMOR X1311	44.0			2.0	41
CAVERNDALE CF 465 LLn	43.4	46.5		2.7	46
REV [®] 49R54 [™]	43.4			2.3	48
UNISOUTH GENETICS USG 74T98	42.6			4.7	39
GROUP IV LATE AVERAGE	51.4	51.6	41.6	2.0	47
LSD (0.10)	4.4	3.2	3.0		
C.V.	8.2	7.4	8.9		
MATURITY GROUP V (relative MG 5.0-5.9)					
UNISOUTH GENETICS USG 5002T	61.3	54.4	43.4	4.7	40
REV [®] 55R83 [™]	56.3			3.0	47
PFISTER 52R26	54.9			3.3	45
UNISOUTH GENETICS USG 5601T	54.5	51.1	41.0	4.3	49
PIONEER 95Y10	54.2	55.0		1.3	49
HALO X55	53.7			2.3	47
EMERGE GENETICS E5110	53.6			1.3	42
HALO 5:01	53.5			1.3	49
SOUTHERN STATES SS 5112N R2	53.5	53.5		3.0	46
UNISOUTH GENETICS USG ALLEN	53.3	50.1	37.9	3.7	48
EXP USDA-ARS JTN-5110	53.1			3.7	42
HALO 5:25	52.3	50.0	38.6	3.7	41
UNIVERSITY OF ARKANSAS UA5612	51.9			4.3	44
REV [®] 54R84 [™]	51.7			3.0	42
CAVERNDALE CF E5012 RR2Yn	51.4			2.7	48
USDA-ARS JTN-5203	50.6	50.9		2.0	40
UNIVERSITY OF ARKANSAS OZARK	50.1	49.9	37.7	3.3	42
REV [®] 55R53 [™]	50.0			4.3	41
HORNBECK HBK RY5421	49.7			4.3	40
DELTA GROW 5160 RR/STS	49.7	45.5	35.9	3.0	49
REV [®] 59R13 [™]	49.4			2.3	45
HORNBECK HBK RY5221	48.9			3.3	55
EXP USDA-ARS JTN-5108	48.6			4.7	41
EXP USDA-ARS JTN-4408	48.4			3.7	40
HALO 5:45	47.7			2.7	47
DELTA GROW 5175 R2Y	47.4			3.3	44
UNISOUTH GENETICS USG 75B21R	47.3	47.6		4.7	48
REV [®] 52R74 [™]	47.0			1.3	49
HALO 5:26	46.4			2.7	42
REV [®] 51R53 [™]	46.1	51.4		2.3	51
ARMOR X1312	45.5			1.0	40
ESSEX (long term check-released 1974)	45.4	40.0	30.5	3.0	36
HORNBECK HBK RY5521	45.3			2.0	45
UNIVERSITY OF ARKANSAS OSAGE	44.7	45.7	37.3	2.0	42
EXP USDA-ARS JTN-4307	44.6			3.7	44
REV [®] 53R23 [™]	41.5			1.0	39
GROUP V AVERAGE	50.1	49.6	37.8	3.0	44
LSD (0.10)	4.3	3.5	2.9		
C.V.	8.1	8.6	9.1		

^A 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. 2012 Kentucky Soybean Variety Performance Tests, Fayette County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING 2012	PLANT HEIGHT (IN)	MATURITY DATE 2012 ^B
	2012	11-12	10-12			
MATURITY GROUP III (relative MG 3.0-3.9)						
ASGROW AG3931	45.3	56.2	57.5	1.3	31	26
WARREN/DAIRYLAND 3980 R2Y	44.8			1.0	31	23
UNISOUTH GENETICS USG 73H77	44.0	51.5		1.0	30	24
LG SEEDS C3989R2	43.7			1.0	31	21
PIONEER 93Y84	43.4			1.0	29	25
EBBERTS 2383 RR2	43.0			1.0	31	23
L&M GLICK 38R	42.5			1.0	30	22
SEED CONSULTANTS SCS 9392RR™	42.1	51.1		1.0	33	22
DYNA-GRO 32RY39	41.1	53.0		1.0	31	26
STEWART 3800R2	40.6			1.0	32	22
REV™38R10™	40.5	51.8	55.0	1.0	30	24
L&M GLICK 822R2	40.4			1.0	33	23
EBBERTS 3393	39.8			1.0	29	26
SOUTHERN STATES SS 3910N R2	39.2	51.2	54.0	1.0	31	28
BECK 398NR	38.4			1.0	29	23
PIONEER 93Y82	38.1	50.7	53.4	1.0	32	25
S39-U2 BRAND	37.0	51.9		1.3	32	25
ARMOR X1301	36.9			1.0	29	23
ASGROW AG3832	36.0	52.1		1.0	30	20
BIOGENE BG 7392	35.0			1.0	31	31
DYNA-GRO S38RY63	34.8			1.0	30	26
STEWART 3913R2	32.6			1.0	30	24
SEED CONSULTANTS SCS 9362RR™	32.4	48.1		1.3	29	21
BECK 375NRTM*	32.0			1.0	33	22
STINE 37RC82	31.1	50.3	53.6	1.0	31	24
BECK 362NRTM*	28.4			1.0	28	23
EBBERTS 2380 RR2	27.9			1.0	29	25
ARMOR 39-R16	22.6			1.0	31	29
PIONEER 93Y92	21.0	42.5	47.1	1.3	31	21
SOUTHERN STATES SS 3811N R2	19.5	43.1		1.0	32	25
SEED CONSULTANTS SCS 9381RR™	18.8	45.2	51.4	1.0	31	25
ARMOR X1302	17.1			1.3	24	33
SOUTHERN CROSS JESSE	10.6			1.0	33	23
GROUP III AVERAGE	34.6	49.9	53.2	1.0	31	24 (Sept. 24)
LSD (0.10)	3.1	2.9	2.6			
C.V.	8.6	7.9	8.0			
MATURITY GROUP IV EARLY (relative MG 4.0-4.5)						
LG SEEDS C4411R2	56.3			1.3	35	35
WARREN/DAIRYLAND 43-0000 R2Y	54.8			1.0	29	30
SOUTHERN STATES SS 4510N R2	50.0	58.1	54.1	1.0	34	35
BIOGENE BG 7450	41.2	57.2	57.3	1.0	38	33
STEWART 4412R2	39.8	55.7		1.3	33	32
SOUTHERN CROSS GAMLIEL	39.8			1.0	28	35
PIONEER 94Y22	38.7	51.0		1.0	29	28
STEWART 4512R2	38.4	57.6		1.0	30	38
SOUTHERN STATES SS 4412N R2	38.2			1.0	29	35
STEWART 4509R2	37.9	55.5	54.9	1.0	29	41
UNISOUTH GENETICS USG 74D32R	37.0			1.3	27	32
ASGROW AG4533	36.9			1.0	33	28
PFISTER 45R23	36.8	56.5		1.0	32	39
S44-K7 BRAND	36.4			1.0	29	29
ARMOR X1302	36.3			1.0	22	26
PIONEER 94Y23	35.9			1.0	29	31
STEWART EXP4414R2	35.8			1.0	29	30
ARMOR X1303	35.6			1.0	32	33
UNISOUTH GENETICS USG 74F12R	35.3			1.3	31	30
STEYER 4301R2	35.2			1.0	28	28
ARMOR 44-R08	34.5	55.0		1.0	25	34
ASGROW AG4033	34.5			1.0	29	21
BECK 418NRTM*	34.4			1.0	28	25
SEED CONSULTANTS SCS 9421RR™	34.2	52.2	52.0	1.0	26	29
BECK 432NRTM*	34.1	53.4	51.4	1.0	26	30
CAVERNDALE CF 436 RR2Yn	34.0	51.6		1.0	27	31
SOUTHERN CROSS NATHAN	33.8			1.0	25	35
UNIVERSITY OF MISSOURI S08-X14117	33.7			1.0	32	34
WARREN/DAIRYLAND 4300 RR	33.7	47.3	47.2	1.0	31	35
DYNA-GRO 39RY43	33.7	53.7		1.0	27	32
ASGROW AG4232	33.5	52.3		1.0	30	35
STEYER 4401R2	33.5			1.0	29	34
ASGROW AG4433	33.4			1.0	30	32
EBBERTS 2443 RR2	33.4			1.0	27	32
PROGENY 4510 RY	33.3	55.4	53.2	1.0	28	40
CAVERNDALE CF E4612 RR2Yn	33.2			1.0	32	38
REV™44R22™	32.9	48.3	44.7	1.0	30	33
PIONEER 94Y20	32.6	48.5	52.2	1.0	33	26
SCHILLINGER SEED 457.RCP	32.5	45.4	46.0	1.7	39	36
PIONEER 94Y50	32.3	52.2		1.0	34	29
DYNA-GRO 38RY45	32.3	53.0	52.6	1.0	27	38
L&M GLICK 412R2	32.0	51.1		1.0	26	34
PROGENY 4211 RY	31.9	51.3		1.0	26	34
ARMOR X1305	31.9			1.0	27	38

AGRONOMIC INFORMATION

Location

Fayette County

Soil type

Maury silt loam

Previous crop

Corn

Pre-planting treatments

KCI 100lb/ac 4/20/12

Mad Dog Plus herbicide (24 fl/ac) and Authority XL herbicide (6.5 ai/ac) 4/30/2012

Gramoxone SL herbicide (2 qt/ac) 5/18/12

Practice

No-till

Planting date

5/24/12

Harvest dates

MG III 10/17/2012

MG IV and V 11/2/2012

Precipitation and temperature history

	Precipitation total monthly (in.)	Temperature (°F)		
		Average monthly	Highest recorded	Lowest recorded
March	4.34	56.4	81.4	23.8
April	1.97	56.4	80.8	30.9
May	3.47	69.0	89.3	45.7
June	1.24	73.6	101.7	48.7
July	5.69	79.3	102.3	63.9
August	0.96	75.1	90.9	55.7
September	6.56	66.8	88.7	39.1
October	1.21	54.3	77.2	32.1

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Table 9. 2012 Kentucky Soybean Variety Performance Tests, Fayette County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING	PLANT HEIGHT (IN)	MATURITY DATE 2012 ^B
	2012	11-12	10-12			
DELTA GROW 4575 RR2	31.9			1.0	32	33
CAVERNDALE CF 411 LLn	31.5	47.9	49.3	1.3	32	27
SOUTHERN STATES SS 4312N R2	31.1	58.2		1.0	27	29
BECK 444NRTM*	30.8			1.0	31	34
PFISTER 43R29	30.6			1.0	27	31
SOUTHERN STATES SS 4032N R2	30.6			1.0	24	27
REV*45R10™	30.4	47.0	50.0	1.0	36	34
S41-J6 BRAND	30.4			1.0	30	33
HALO X456	30.3			1.3	33	32
CAVERNDALE 434 STSn	30.2	48.3		1.0	26	28
STEWART 4113R2	30.1			1.0	27	29
LG SEEDS C4340R2	30.1			1.0	32	28
PIONEER 94Y21	30.1	44.2	46.3	1.0	32	22
WARREN/DAIRYLAND 4343 R2Y	30.1			1.0	22	27
PIONEER 94Y40	29.8	48.4		1.0	27	30
STEYER 4203R2	29.3	51.1		1.0	27	34
SEED CONSULTANTS SCS 9412R™	28.4			1.0	27	25
ARMOR X1304	27.8			1.0	25	33
BIOGENE BG 7421	27.8	49.1		1.0	30	24
STEYER 4501R2	27.6	47.5	49.5	1.3	27	40
DYNA-GRO S44RS93	27.5			1.0	27	30
STEWART 4212R2	26.3	47.3		1.0	31	27
GROUP IV EARLY AVERAGE	34.1	51.6	50.7	1.0	29	32 (Oct. 2)
LSD (0.10)	3.3	3.2	3.4			
C.V.	9.3	8.4	10.5			
MATURITY GROUP IV LATE (relative MG 4.6-4.9)						
DELTA GROW 4765 RR2/STS	41.5			1.0	32	45
ASGROW AG4933	39.9			1.0	30	40
SOUTHERN CROSS SIMEON	38.6			1.0	34	39
DELTA GROW 4925 RR2	38.0			1.0	31	44
HORNBECK HBK R4924	37.9	45.6	46.1	1.7	35	39
PROGENY 4611 RY	37.8	48.6		1.7	30	39
PFISTER 47R22	37.5			1.0	34	44
PROGENY 4710 RY	37.3	49.3	51.1	1.0	27	42
STEYER 4701R2	37.3	48.2		1.0	33	37
S49-F8 BRAND	37.2			1.0	28	42
SOUTHERN STATES SS 4700 R2-STS	37.1	48.3	51.5	1.0	26	41
PROGENY 4850 RY	37.0			1.0	34	42
HORNBECK HBK RY4721	36.9			1.0	26	39
ARMOR 46-R64	36.6			1.0	29	41
ARMOR X1308	36.3			1.0	31	40
ASGROW AG4732	36.1	49.3		1.0	35	39
LG SEEDS C4780R2	36.0			1.0	34	46
ARMOR 48-R40	35.7	48.4	49.9	1.0	30	40
ASGROW AG4831	35.6			1.0	30	45
WARREN/DAIRYLAND 4810 RR	35.6	41.3	44.2	1.0	30	42
SOUTHERN STATES SS 4711N R2	35.5	50.7		1.0	37	40
ARMOR 46-R42	35.0			1.0	25	38
DELTA GROW 4670 RR2	34.8	50.3		1.0	31	39
UNISOUTH GENETICS USG 74G82L	34.8			1.0	26	44
ASGROW AG4832	34.8	49.4		1.0	34	43
SEED CONSULTANTS SCS 9472RR™	34.7	43.5		1.3	35	40
DYNA-GRO S47RY13	34.6			1.0	29	39
DYNA-GRO SX12247	34.6			1.0	27	39
ARMOR X1307	34.4			1.0	38	45
CAVERNDALE 486 RR2Yn	34.4			1.0	28	47
PROGENY 4920 RY	34.3			1.0	28	46
PIONEER 94Y70	34.2	44.3	49.5	1.0	35	36
REV*48R10™	34.2	44.7	44.6	1.0	30	42
ARMOR X1311	34.1			1.0	28	44
DELTA GROW 4875 RR2/STS	33.9			1.0	33	42
PIONEER 94Y61	33.9	39.9		1.0	30	38
UNIVERSITY OF MISSOURI S08-X2499	33.7			1.0	32	44
PROGENY 4814 RY	33.7			1.0	29	40
HALO 4:95	33.6			1.0	26	47
SOUTHERN CROSS CLEMENT	33.6			1.0	30	41
REV*47R53™	33.6	45.3		1.0	28	38
STEWART 4712R2	33.6	48.6		1.0	32	38
REV*49R43™	33.5	45.9		1.0	30	41
ARMOR 47-R17	33.5			1.0	31	36
HALO 5:01	33.3			1.0	30	50
S46-T3 BRAND	33.3			1.0	32	40
WARREN/DAIRYLAND 4850 R2Y/STS	33.2			1.0	35	46
PROGENY 4900 RY	33.2			1.0	28	42
ARMOR X1312	33.2			1.0	28	47
LG SEEDS C4625R2	33.1	50.4		1.0	27	37
ASGROW AG4632	33.0	48.2		1.0	30	41
ARMOR 48-R91	32.9			1.0	34	39
WARREN/DAIRYLAND 4633 R2Y	32.8			1.0	30	38
STINE 47RC32	32.7	45.3		1.0	26	44
DELTA GROW 4755 RR2	32.6			1.0	30	42
PROGENY 4928 LL	32.4	40.6	41.3	1.0	27	49
SCHILLINGER SEED 458.RCS	32.3	44.9		1.0	28	41

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Table 9. 2012 Kentucky Soybean Variety Performance Tests, Fayette County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING	PLANT HEIGHT (IN)	MATURITY DATE 2012 ^B
	2012	11-12	10-12			
DYNA-GRO 33RY47	32.1	41.8		1.0	36	38
HALO 4:65	32.1	42.7	47.1	1.0	34	35
PROGENY 4819 LL	31.9			1.0	26	44
STEYER 4702R2	31.9			1.0	29	41
HALO X478	31.7			1.0	27	42
SCHILLINGER SEED 4990.RC	31.6	45.3	46.8	1.0	32	46
EMERGE GENETICS XC4892S	31.6			1.0	26	33
DYNA-GRO S48RS53	31.6			1.0	34	46
DELTA GROW 4825 R2Y/STS	31.5			1.0	27	46
CAVERNDALE CF E4812 RR2Yn	31.5			1.0	29	39
REV [®] 48R22 [™]	31.2	41.6		1.0	27	39
CAVERNDALE CF 465 LLn	31.0	40.8		1.3	32	43
CAVERNDALE 485LLn	30.9			1.0	25	42
REV [®] 49R54 [™]	30.6			1.7	37	39
PROGENY 4747 RY	30.5			1.0	33	39
SCHILLINGER SEED 495.RC	30.3	40.5	42.7	1.0	33	47
REV [®] 49R22 [™]	30.2	36.8		1.0	34	40
UNISOUTH GENETICS USG 74T98	30.1			2.3	31	49
ARMOR 49-R56	29.7			1.0	31	42
EMERGE GENETICS E4920S	29.3			1.7	29	49
UNIVERSITY OF ARKANSAS R05-4114	29.3			1.7	32	48
DELTA GROW 4715 RR2	29.3			1.0	31	39
REV [®] 48R33 [™]	29.2	44.9		1.3	34	36
UNISOUTH GENETICS USG 74G99L	29.1	39.7		1.0	26	48
DELTA GROW 4880 RR	28.9	38.3	42.6	1.0	30	45
HALO 4:94	28.2	38.9	40.3	1.0	28	48
HORNBECK HBK RY4620	28.1	40.7	43.0	1.3	36	47
BECK 477NRTM [*]	28.0	39.8		1.0	31	40
REV [®] 47R74 [™]	27.4			1.0	28	30
PENNYRILE (long term check-released 1987)	26.6	31.8	35.3	1.0	34	38
REV [®] 49R11 [™]	26.0	44.0	44.7	1.0	27	38
GROUP IV LATE AVERAGE	33.3	44.2	45.1	1.1	31	42 (Oct. 12)
LSD (0.10)	3.0	3.0	2.8			
C.V.	8.5	9.0	9.9			
MATURITY GROUP V (relative MG 5.0-5.9)						
DELTA GROW 5160 RR/STS	41.0	44.1	45.3	1.3	40	46
PIONEER 95Y10	40.1	45.9		1.0	31	44
HALO 5:26	39.5			2.3	37	44
UNISOUTH GENETICS USG ALLEN	39.3	46.2		3.0	36	47
ARMOR X1312	39.1			1.0	30	47
CAVERNDALE CF E5012 RR2Yn	38.8			1.0	31	44
UNISOUTH GENETICS USG 5601T	37.2	46.4	47.0	2.3	31	46
EMERGE GENETICS E5110	37.0			1.3	30	44
HALO 5:25	36.1	46.9	47.6	1.7	30	47
USDA-ARS JTN-5203	36.0	44.5		1.3	36	46
REV [®] 59R13 [™]	35.9			3.0	38	46
EXP USDA-ARS JTN-5110	35.9			1.7	37	46
UNISOUTH GENETICS USG 75B21R	35.8	45.9	45.6	2.7	40	46
EXP USDA-ARS JTN-4307	35.3			2.7	36	47
UNIVERSITY OF ARKANSAS OSAGE	35.2	45.4	45.5	1.3	35	46
ESSEX (long term check-released 1974)	35.1	40.0	41.8	2.3	34	45
REV [®] 51R53 [™]	34.7	45.2		1.0	32	45
REV [®] 52R74 [™]	33.8			1.0	36	44
HORNBECK HBK RY5221	33.7			1.3	40	45
HALO X55	33.7			1.3	38	45
PFISTER 52R26	33.0			2.3	37	46
DELTA GROW 5175 R2Y	32.9			1.7	40	46
REV [®] 55R83 [™]	32.2			1.7	39	45
HORNBECK HBK RY5521	32.0			2.0	34	46
REV [®] 55R53 [™]	31.2			1.3	36	45
UNIVERSITY OF ARKANSAS OZARK	31.2	39.2	39.8	2.3	39	47
HALO 5:01	31.1			1.0	36	46
EXP USDA-ARS JTN-4408	31.0			1.7	36	46
UNIVERSITY OF ARKANSAS UA5612	30.3			3.0	41	47
SOUTHERN STATES SS 5112N R2	29.7	43.4		1.7	40	46
REV [®] 54R84 [™]	27.7			2.3	36	45
EXP USDA-ARS JTN-5108	27.3			3.0	34	46
HORNBECK HBK RY5421	27.0			1.7	32	47
HALO 5:45	26.4			1.0	36	47
REV [®] 53R23 [™]	25.5			1.0	29	46
UNISOUTH GENETICS USG 5002T	24.6	41.7	39.4	2.7	39	46
GROUP V AVERAGE	33.5	44.2	44.0	1.8	36	46 (Oct. 16)
LSD (0.10)	2.5	2.7	2.8			
C.V.	7.1	8.5	10.0			

^A 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.

^B Maturity date expressed as days after August 31st

Table 10. 2012 Kentucky Soybean Variety Performance Tests, Simpson County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING 2012
	2012	11-12	10-12	
MATURITY GROUP III (relative MG 3.0-3.9)				
DYNA-GRO 32RY39	59.6	40.0		1.0
PIONEER 93Y84	58.5			1.0
BECK 398NR	57.9			1.0
STEWART 3913R2	57.2			1.0
ASGROW AG3832	55.4	35.5		1.0
EBBERTS 3393	55.3			1.3
ASGROW AG3931	54.7	35.6	36.3	2.0
L&M GLICK 822R2	54.4			1.7
EBBERTS 2383 RR2	54.3			1.0
SOUTHERN CROSS JESSE	54.3			1.0
SOUTHERN STATES SS 3910N R2	53.8	35.1	39.3	1.3
BIOGENE BG 7392	53.8			1.0
SEED CONSULTANTS SCS 9392RR™	53.7	36.9		1.0
ARMOR X1301	53.4			1.0
LG SEEDS C3989R2	53.3			1.0
ARMOR X1302	53.2			1.0
SEED CONSULTANTS SCS 9362RR™	52.8	37.3		1.0
BECK 375NRTM*	52.6			1.0
STINE 37RC82	52.6			1.3
WARREN/DAIRYLAND 3980 R2Y	52.5			1.0
DYNA-GRO S38RY63	52.5			1.3
STEWART 3800R2	52.5	37.5	37.7	1.0
L&M GLICK 38R	52.3			1.0
PIONEER 93Y82	51.8	35.2	35.9	1.0
S39-U2 BRAND	51.4	34.5		1.0
PIONEER 93Y92	50.8	35.4	36.2	1.0
REV*38R10™	50.7	35.8	34.5	1.7
ARMOR 39-R16	50.5			1.0
EBBERTS 2380 RR2	49.6			1.0
SOUTHERN STATES SS 3811N R2	48.2	36.5		1.3
SEED CONSULTANTS SCS 9381RR™	47.0	36.6	36.5	1.0
BECK 362NRTM*	46.6			1.0
UNISOUTH GENETICS USG 73H77	40.9	25.7		1.0
GROUP III AVERAGE	52.7	35.5	36.6	1.1
LSD (0.10)	5.1	3.4	3.1	

MATURITY GROUP IV EARLY (relative MG 4.0-4.5)				
BIOGENE BG 7450	68.8	43.5	44.0	1.0
WARREN/DAIRYLAND 43-0000 R2Y	65.7			1.0
STEYER 4401R2	60.4			1.0
ASGROW AG4232	59.9	38.7		2.0
STEWART EXP4414R2	59.4			1.0
STEWART 4509R2	59.4	40.0	45.5	1.7
CAVERDALE CF 411 LLn	59.2	37.1	41.9	1.3
S41-J6 BRAND	59.0			1.3
REV*44R22™	58.8	37.2	41.8	1.0
BECK 418NRTM**	58.6			1.3
STEWART 4512R2	58.3	38.3		1.7
PFISTER 45R23	58.2	38.6		1.3
CAVERDALE CF E4612 RR2Yn	58.1			1.3
BECK 444NRTM*	58.0			1.7
DYNA-GRO 39RY43	58.0	37.3		1.0
STEYER 4501R2	57.8	38.4	42.1	1.3
SOUTHERN CROSS NATHAN	57.6			1.0
PIONEER 94Y22	57.6	38.7		1.0
SOUTHERN STATES SS 4032N R2	57.4			1.0
LG SEEDS C4340R2	57.2			1.0
SEED CONSULTANTS SCS 9421RR™	57.2	34.1	37.0	1.0
WARREN/DAIRYLAND 4343 R2Y	56.7			1.0
UNISOUTH GENETICS USG 74D32R	56.7			1.3
PIONEER 94Y21	56.6	33.8	30.3	1.0
UNISOUTH GENETICS USG 74F12R	56.5			1.0
DYNA-GRO 38RY45	56.1	34.6	37.0	1.3
PFISTER 43R29	55.8			1.0
SEED CONSULTANTS SCS 9412R™	55.8			1.0
REV*45R10™	55.7	36.1	41.3	2.3
ARMOR X1304	55.2			1.0
SOUTHERN STATES SS 4510N R2	55.2	35.8	38.3	2.0
STEYER 4203R2	54.9	36.5		1.0
LG SEEDS C4411R2	54.8			1.3
ASGROW AG4033	54.7			1.0
WARREN/DAIRYLAND 4300 RR	54.7	36.7	39.7	2.0
PROGENY 4211 RY	54.4	35.5		1.0
ASGROW AG4533	54.3			1.0
EBBERTS 2443 RR2	54.1			1.0
L&M GLICK 412R2	54.0	32.5		1.0
PIONEER 94Y50	53.8	38.0		2.0
STEWART 4412R2	53.8	34.0		1.7
SOUTHERN CROSS GAMLIEL	53.7			1.0
DELTA GROW 4575 R2	53.5			1.3
STEWART 4113R2	53.3			1.0
HALO X456	53.0			1.7

AGRONOMIC INFORMATION

Location

Simpson County

Soil type

Baxter cherty silt loam

Previous crop

Soybean

Pre-planting treatments

Glyphosate (30 fl/ac) and Authority XL herbicide (6.5 ai/ac) 4/30/2012

Practice

No-till

Planting date

MG III and IV Early 6/14/2012

MG IV Late and V 6/15/2012

Harvest dates

MG III and IV 10/30/2012

MG V 10/31/2012

Precipitation and temperature history

	Precipitation total monthly (in.)	Temperature (°F)		
		Average monthly	Highest recorded	Lowest recorded
March	4.14	59.7	82.8	26.0
April	1.07	60.7	84.5	31.2
May	5.17	71.1	91.4	47.2
June	0.33	74.8	104.2	48.3
July	4.83	80.5	102.5	65.1
August	2.78	75.6	93.8	54.4
September	4.26	68.1	91.1	39.2
October	2.66	56.3	80.8	33.4

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Table 10. 2012 Kentucky Soybean Variety Performance Tests, Simpson County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING 2012
	2012	11-12	10-12	
SOUTHERN STATES SS 4412N R2	52.9			1.7
PIONEER 94Y23	52.9			1.0
PIONEER 94Y40	52.6	35.1		1.0
SCHILLINGER SEED 457.RCP	52.6	38.6	42.8	2.7
DYNA-GRO S44RS93	52.5			1.0
SOUTHERN STATES SS 4312N R2	52.4	33.0		2.0
UNIVERSITY OF MISSOURI S08-X14117	52.2			1.0
STEYER 4301R2	52.0			1.0
ARMOR X1303	51.7			1.0
BECK 432NRTM*	51.4	32.3	34.9	1.0
ARMOR X1305	51.3			1.0
ARMOR X1302	50.8			1.0
ARMOR 44-R08	50.7	34.0		1.0
BIOGENE BG 7421	50.7	29.9		1.0
CAVERNDAL 434 STSn	49.9	31.9		1.3
STEWART 4212R2	49.5	33.7		1.0
PROGENY 4510 RY	49.4	35.0	39.6	1.3
CAVERNDAL CF 436 RR2Yn	49.1	30.4		1.3
S44-K7 BRAND	48.5			1.0
ASGROW AG4433	48.4			1.3
PIONEER 94Y20	48.1	33.6	34.1	1.3
GROUP IV EARLY AVERAGE	55.0	35.7	39.3	1.3
LSD (0.10)	5.0	3.2	3.2	
C.V.	8.6	9.1	10.8	
MATURITY GROUP IV LATE (relative MG 4.6-4.9)				
PFISTER 47R22	73.9			1.0
CAVERNDAL 486 RR2Yn	68.7			1.0
PROGENY 4710 RY	68.1	46.8	49.5	1.0
PROGENY 4900 RY	66.8			1.0
DYNA-GRO S48RS53	64.8			1.0
DELTA GROW 4670 RR2	64.4	44.5		1.0
ASGROW AG4933	64.3			1.0
WARREN/DAIRYLAND 4633 R2Y	64.0			1.0
SOUTHERN STATES SS 4700 R2-ST5	63.7	42.5	47.3	1.0
ASGROW AG4831	63.3			1.0
DELTA GROW 4825 R2Y/STS	63.2			1.0
ARMOR 48-R91	62.4			1.0
ASGROW AG4632	62.3	43.4		1.0
WARREN/DAIRYLAND 4850 R2Y/STS	62.1			1.0
HORNBECK HBK RY4620	62.1	48.9	51.4	1.0
CAVERNDAL CF 465 LLn	61.8	43.2		1.3
S49-F8 BRAND	61.7			1.0
HORNBECK HBK RY4721	61.7			1.0
LG SEEDS C4780R2	61.7			1.0
SCHILLINGER SEED 458.RCS	61.5	38.8		1.0
PIONEER 94Y61	61.4	43.0		1.0
SOUTHERN CROSS SIMEON	61.3			1.0
STINE 47RC32	61.2	39.0		1.0
HALO 4:94	61.1	39.4	44.5	1.0
ARMOR 46-R64	61.0			1.0
ASGROW AG4832	61.0	43.0		1.0
REV*49R54™	60.9			1.0
S46-T3 BRAND	60.7			1.0
UNISOUTH GENETICS USG 74G99L	60.7	46.0		1.0
DELTA GROW 4925 RR2	60.6			1.0
EMERGE GENETICS XC4892S	60.6			1.0
DELTA GROW 4765 RR2/STS	60.4			1.0
PROGENY 4928 LL	59.9	46.7	51.3	1.0
DYNA-GRO SX12247	59.7			1.0
ASGROW AG4732	59.6	41.4		1.0
REV*49R11™	59.1	42.1	42.0	1.0
PROGENY 4611 RY	59.0	42.6		1.0
HALO 4:95	58.9			1.0
DELTA GROW 4755 RR2	58.3			1.0
UNIVERSITY OF MISSOURI S08-X2499	58.0			1.0
ARMOR 46-R42	57.9			1.0
DYNA-GRO 33RY47	57.9	41.1		1.0
HALO 5:01	57.8			1.0
HORNBECK HBK R4924	57.7	46.6	52.8	1.0
PROGENY 4814 RY	57.7			1.0
CAVERNDAL CF E4812 RR2Yn	57.2			1.0
PROGENY 4850 RY	57.2			1.0
SOUTHERN CROSS CLEMENT	57.1			1.0
ARMOR 49-R56	57.0			1.0
WARREN/DAIRYLAND 4810 RR	57.0	39.7	44.6	1.0
DELTA GROW 4715 RR2	56.9			1.0
EMERGE GENETICS E4920S	56.8			1.0
ARMOR X1307	56.5			1.0
STEWART 4712R2	56.4	40.4		1.0
PROGENY 4747 RY	56.3			1.0
REV*48R10™	55.8	37.3	40.4	1.0
SCHILLINGER SEED 495.RC	55.8	39.8	44.1	1.0
SCHILLINGER SEED 4990.RC	55.7	37.3	42.0	1.0

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Table 10. 2012 Kentucky Soybean Variety Performance Tests, Simpson County.

BRAND-VARIETY	YIELD (BU/AC) ^A			LODGING
	2012	11-12	10-12	2012
DYNA-GRO S47RY13	55.7			1.0
REV [®] 48R22 [™]	55.6	36.3		1.0
STEYER 4701R2	55.4	37.4		1.0
LG SEEDS C4625R2	55.3	38.4		1.0
HALO X478	55.2			1.0
UNIVERSITY OF ARKANSAS R05-4114	55.2			2.0
ARMOR X1312	54.9			1.0
ARMOR 48-R40	54.6	41.0	42.8	1.0
DELTA GROW 4880 RR	54.4	43.5	46.5	1.0
ARMOR X1308	54.4			1.3
HALO 4:65	54.3	40.4	45.4	1.0
PIONEER 94Y70	53.9	39.5	43.4	1.0
PROGENY 4920 RY	53.9			1.0
STEYER 4702R2	53.8			1.0
ARMOR 47-R17	53.1			1.0
DELTA GROW 4875 RR2/STS	52.3			1.0
PROGENY 4819 LL	52.3			1.0
REV [®] 48R33 [™]	52.3	37.2		1.0
SOUTHERN STATES SS 4711N R2	52.2	36.7		1.0
SEED CONSULTANTS SCS 9472RR [™]	51.8	36.7		1.0
REV [®] 47R53 [™]	51.0	39.6		1.0
REV [®] 49R22 [™]	50.8	37.1		1.0
UNISOUTH GENETICS USG 74T98	50.2			3.3
REV [®] 49R43 [™]	49.5	34.6		1.3
REV [®] 47R74 [™]	48.9			1.0
ARMOR X1311	48.7			1.0
BECK 477NRTM*	48.3	35.2		1.0
UNISOUTH GENETICS USG 74G82L	46.4			1.0
PENNYRILE (long term check-released 1987)	46.2	31.0	32.8	1.0
CAVERNDALÉ 485LLn	44.0			1.0
GROUP IV LATE AVERAGE	57.7	40.5	45.0	1.0
LSD (0.10)	5.8	4.1	3.3	
C.V.	9.6	10.3	9.8	
MATURITY GROUP V (relative MG 5.0-5.9)				
HALO 5:26	75.0			1.7
HALO 5:25	69.0	63.7	64.2	1.3
HORNBECK HBK RY5521	65.7			1.0
HALO 5:01	64.9			1.0
UNIVERSITY OF ARKANSAS OSAGE	63.9	63.6	63.0	1.7
EMERGE GENETICS E5110	63.8			1.0
REV [®] 53R23 [™]	63.3			1.0
EXP USDA-ARS JTN-5110	62.9			2.7
UNISOUTH GENETICS USG ALLEN	62.6	58.2	58.0	2.7
UNIVERSITY OF ARKANSAS OZARK	62.6	58.0	56.7	2.0
REV [®] 55R83 [™]	62.1			2.0
USDA-ARS JTN-5203	61.7	56.3		1.7
HORNBECK HBK RY5421	61.5			2.3
REV [®] 55R53 [™]	59.1			1.0
DELTA GROW 5160 RR/STS	58.9	54.9	52.6	1.0
CAVERNDALÉ CF E5012 RR2Yn	58.2			1.0
REV [®] 52R74 [™]	58.1			1.0
SOUTHERN STATES SS 5112N R2	57.8	51.1		1.7
UNIVERSITY OF ARKANSAS UA5612	57.8			4.7
HALO 5:45	57.4			1.7
PIONEER 95Y10	57.1	55.5		1.0
UNISOUTH GENETICS USG 5601T	57.1	53.1	56.5	2.3
ARMOR X1312	55.6			1.0
UNISOUTH GENETICS USG 5002T	55.2	51.9	55.4	2.0
REV [®] 59R13 [™]	55.0			1.7
REV [®] 54R84 [™]	54.4			2.7
EXP USDA-ARS JTN-4408	54.2			2.3
REV [®] 51R53 [™]	53.5	57.3		1.0
ESSEX (long term check-released 1974)	52.8	50.4	52.6	2.3
HALO X55	52.4			1.3
EXP USDA-ARS JTN-4307	51.4			2.7
PFISTER 52R26	50.8			2.3
UNISOUTH GENETICS USG 75B21R	47.8	49.6		3.0
DELTA GROW 5175 R2Y	46.6			1.7
HORNBECK HBK RY5221	46.2			3.0
EXP USDA-ARS JTN-5108	45.8			4.3
GROUP V AVERAGE	57.8	55.7	57.4	1.9
LSD (0.10)	4.7	4.0	3.4	
C.V.	7.7	8.4	8.4	

^A 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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