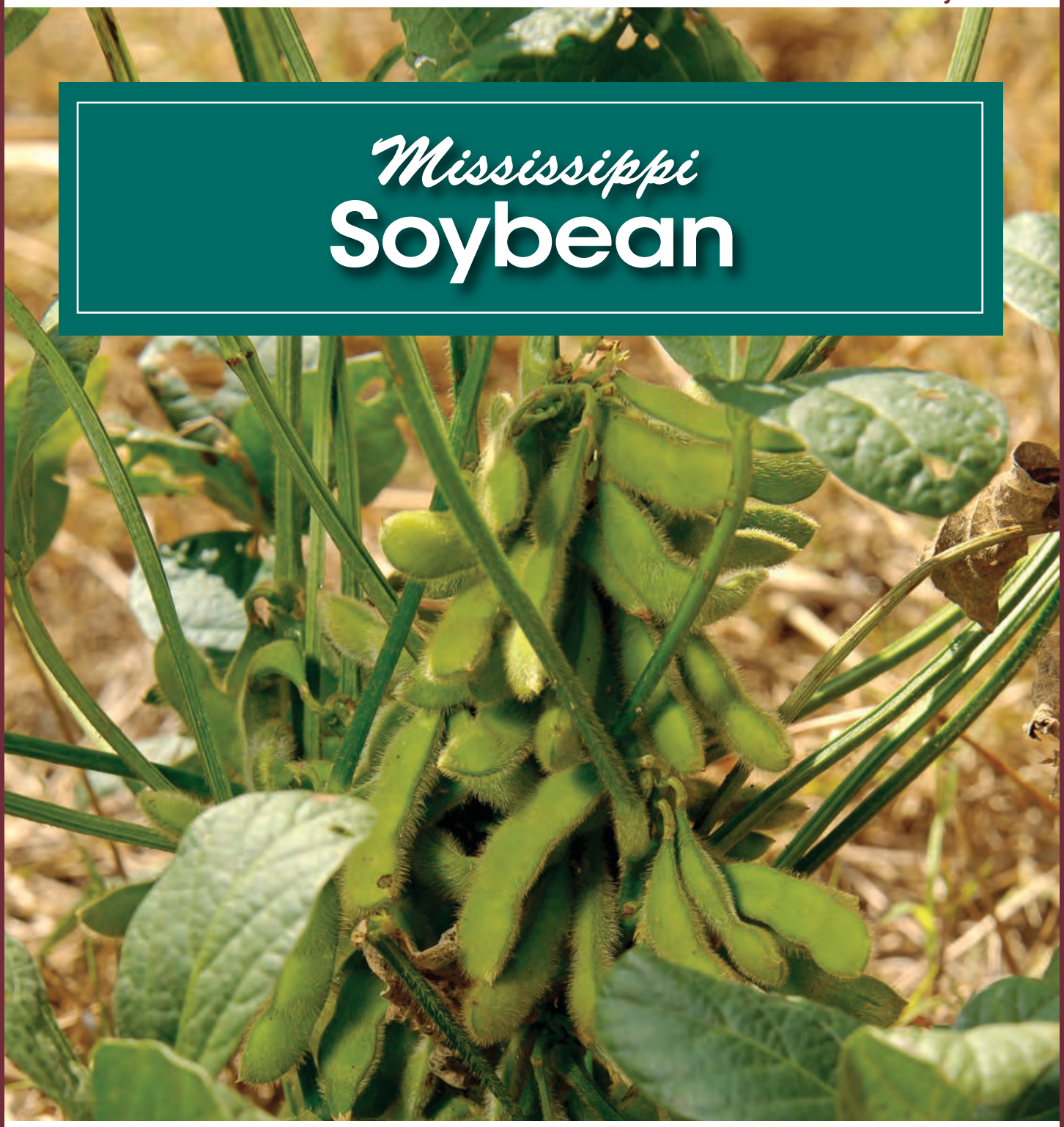
Information Bulletin 515 January 2017



Mississippi Soybean

VARIETY TRIALS, 2016

MISSISSIPPI'S OFFICIAL VARIETY TRIALS

MISSISSIPPI STATE UNIVERSITY™
MS AGRICULTURAL AND
FORESTRY EXPERIMENT STATION

TECHNICAL ADVISORY COMMITTEE

The Mississippi Soybean Promotion Board provided partial funding for this project.

NOTICE TO USER

This information bulletin is a summary of research conducted under project number MIS 2348 at seven locations in the state (see map). It is intended for farmers, seedsmen, colleagues, cooperators, and sponsors. Interpretation of this data should not be construed as a recommendation or as an endorsement of a specific variety or product.

This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Joint sponsorship by the organizations listed on pages 73-75 is gratefully acknowledged.

Trade names of commercial products used in this report are included only for clarity and understanding. All available names (i.e., trade names, code numbers, chemical names, etc.) of varieties or products used in this research project are listed on pages 73-75.

Mississippi Soybean Variety Trials, 2016

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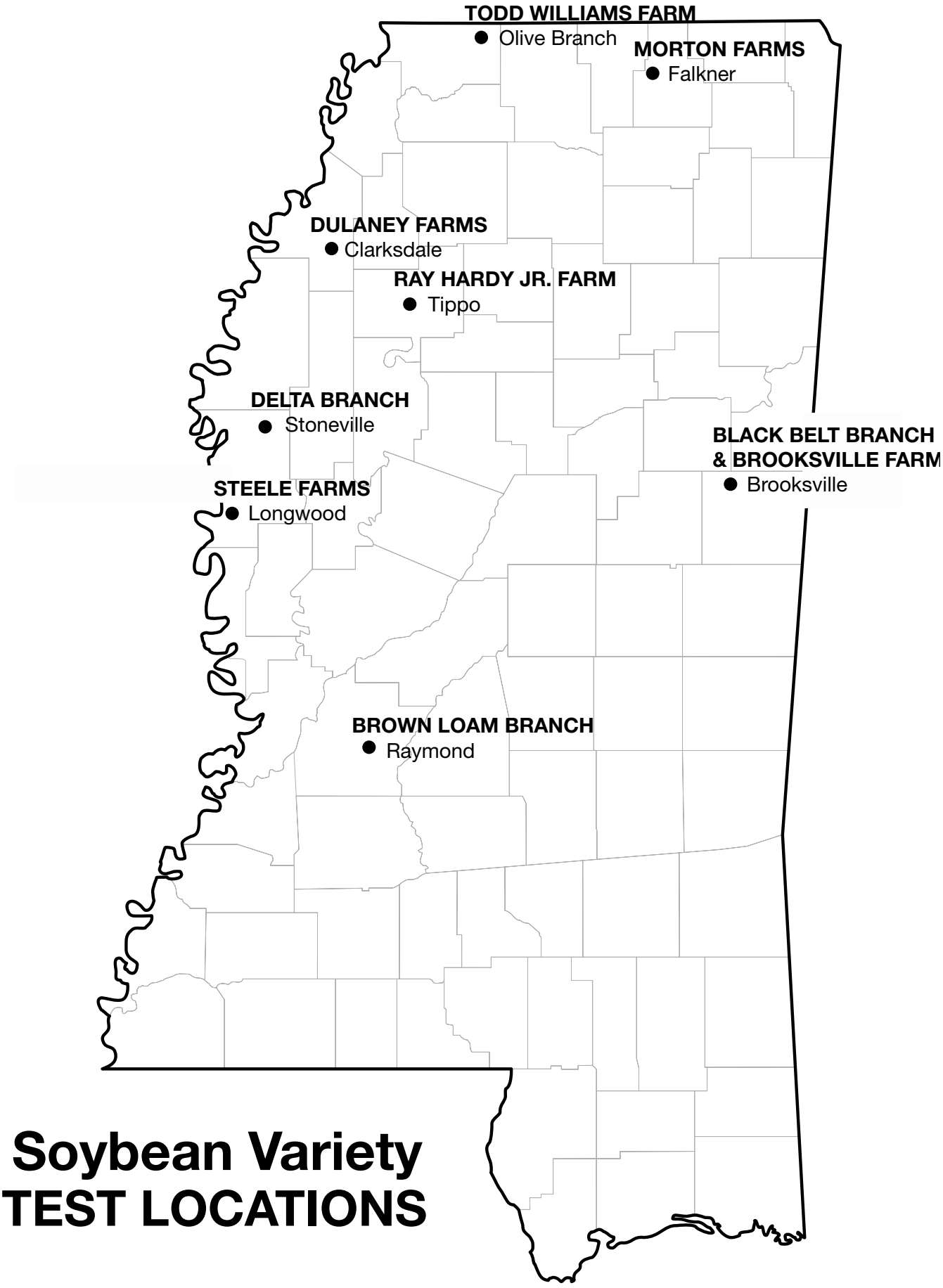
Recognition is given to Jason Hillhouse and Jerry W. Nail, research technicians for the Variety Trial Program, for their assistance in packaging, planting, harvesting, and recording plot data. This publication was prepared by Dixie Albright, office associate for MAFES Research Support Units.

This document was approved for publication as Information Bulletin 515 of the Mississippi Agricultural and Forestry Experiment Station. It was published by the Office of Agricultural Communications, a unit of the Mississippi State University Division of Agriculture, Forestry, and Veterinary Medicine.

Find variety trial information online at ***mafes.msstate.edu/variety-trials***.



Soybean Variety TEST LOCATIONS

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Mississippi Soybean Variety Trials, 2016

INTRODUCTION

Procedures

There has been a proliferation of soybean varieties in recent years, and many good varieties are available to Mississippi producers. No single variety is superior, but in some situations, there are varieties that are more specifically adapted than others. Selecting a variety for planting requires knowledge of disease, nematode, and herbicide reactions, as well as the yield performance of each variety on a particular soil type. In many cases, planting the proper varieties will make substantial differences in yield and profitability on a farm. Proper management, including adequate lime, fertilizer, and weed control, is required to produce high yields of any variety, but yields may be limited, even under good management, unless the proper varieties are planted.

Soybean variety trials were conducted at eight locations in 2016 (see map). Commercial seed companies were given the opportunity to enter varieties for testing. Seed of all private entries were supplied by the participating companies. Public varieties were selected by the Technical Advisory Committee for evaluation at each location. The experimental design at each location for each maturity group was a randomized complete block, with three replications of each entry.

Seeding Rate. All seeds were packaged for planting at the rate of nine seeds per foot of row for 30-inch row spacing and at the rate of six seeds per foot for 19-inch row spacing. Plots were planted with a cone planter. Irrigated plots had four rows, spaced 30 inches apart; nonirrigated plots had three rows, spaced 19 inches apart. All irrigated plots were planted to a plot length of 15 feet by using a planter with a cable trip system. All nonirrigated plots were planted to a length of 18 feet. Plot ends were trimmed to a uniform length 3 to 4 weeks after emergence.

Cultural Practices. Cultural and pest control practices for optimum yields were followed. Plots were limed and fertilized on the basis of an annual soil test. All seeds were treated with an insecticide/fungicide before planting. Only herbicides currently registered for use on soybean with strict adherence to all label instructions were used in these studies.

Maturity Date. Maturity is considered to be the date when the pods are dry and most of the leaves have dropped. Under most conditions, the stems are also dry.

Yield. An Almaco plot combine was used to harvest each plot. Harvested seed were allowed to dry at ambient temperature to a uniform moisture content before weighing. Weights were converted to yield in bushels per acre (60 pounds per bushel) at 13% moisture.

Plant Height. Plants were measured from the soil to the top extremity, at maturity, and plant height was recorded as the average of the height of plants measured.

Lodging. Lodging was rated and recorded on a scale of 1 = almost all plants erect, 2 = all plants leaning slightly or only a few plants down, 3 = all plants leaning moderately or 25 to 50 percent of plants down, 4 = all plants leaning considerably or 50 to 80 percent of plants down, and 5 = all plants down.

How to Select Varieties

In Problem or Difficult Fields

(1) Identify fields that have had problems in the past. Problems to consider may include diseases, nematodes, or fields that make planting or harvest difficult because of extremely dry or wet conditions. The Mississippi State University Extension Service offers a disease diagnostic service and nematode analysis free of charge.

(2) Use Tables 60 to 67 to select varieties for fields that need disease resistance.

(3) Select varieties using multiyear averages from all available locations. Identify those varieties that have desired pest resistance along with a high yield potential. Use data from a test site or sites with a soil type similar to that where the soybeans will be grown. Consider planting dates and maturity dates that may allow you to avoid historical field problems.

In Nonproblem Fields

(1) Identify the farm's highest yielding fields that have no specific disease problems.

(2) Select varieties with the best yield potential using multiyear averages from all available locations. Use data from a test site or sites with a soil type similar to that where the soybeans will be grown.

(3) Try new varieties on a limited number of acres. Don't abandon older, consistent-performing varieties that are yielding well unless research and experience show an advantage for newer varieties.

Planting Date and Maturity Date

(1) Varieties in Maturity Groups IV and V are recommended. Earlier maturing varieties should be considered for planting where fall seedbed preparation was done the previous year and in fields that are subject to drought stress during the growing season and/or wet soils during the usual harvest period. Later maturing varieties should be considered for planting in fields that are not as prone to drought stress, where irrigation will be used to alleviate drought stress, and for later planting. However, early planting of all acreage is encouraged to reduce risk from drought and obtain higher yields.

(2) Early-season production is a practice that has been quite successful and consistent for several years. Cool, wet soils at planting may justify the use of a seed treatment that has activity against Pythium, since no varieties have resistance to infection and resulting damage from this organism. Most Maturity Group IV soybeans have a narrow growth habit. Given their growth, habit narrow rows are quite advantageous. Early April to early May planting is recommended for early-season production of Group IV varieties. Irrigation allows later planting of early-maturing soybeans; however, the full yield potential may not be realized when planted late. Timely harvest is crucial with early-maturing varieties because dry weather at maturity may promote shattering. There is a wide range in maturity within Group IV soybeans. Determine if an early Group IV or a late Group IV variety, or some acreage of both, will fit into your operation.

(3) Timely planting is crucial for optimum production of all maturity groups of soybeans. An attempt should be made to complete soybean planting as early as possible. Planting of Group V and Group VI can be made in April. Delays in planting will result in reduced yield potential for almost all varieties in all maturity groups.

Herbicide-Resistant Varieties

(1) Evaluate overall performance characteristics of the variety — including yield potential, disease and nematode resistance, maturity date, lodging, etc. — as you would any variety.

(2) Compare these characteristics to other varieties, conventional and herbicide-resistant.

(3) Consider seed premiums, technology fees, and specific weed problems. Determine total cost of conventional and herbicide-resistant-crop weed control programs, and combine this information with factors listed above in choosing a variety.

General Characteristics of Varieties

Soybean varieties differ in significant characteristics that may not affect their performance. Tables 68 to 75 give the general characteristics of most varieties grown in Mississippi.

Pubescence and Hilum Color. Brown (tawny) and gray are the basic pubescence (hair) colors found among varieties. Varying pod-wall colors result in different intensities of mature pod colors. The "eye" of the seed is called a hilum, or point of attachment to the pod, and it differs in color by variety.

Seed Size. There is no relationship between inherited seed size and seed yield. A small-seeded variety may yield as much as or more than a large-seeded variety. The average seed per pound for different varieties is shown in Tables 68 to 75, but this is subject to seasonal variation. Knowing the number of seed per pound is important in determining the amount of seed needed for planting. Fewer pounds are required for small-seeded varieties than for large-seeded varieties. Your county Extension office has a publication (Information Sheet 1194) that deals with seeding rates and plant populations.

Flowering. Varieties of Maturity Group IV generally display an indeterminate growth habit. This means that a large portion of their vegetative growth occurs after the onset of flowering begins. In contrast, varieties of Groups V and VI display a determinate growth habit, where most of the vegetative growth occurs before flowering. The date of first flower will be determined by the time of planting and maturity. For example, a mid-Group IV variety may bloom 3 weeks earlier than a Group V variety, whereas a late Group IV variety may bloom only 1 week earlier than a Group V variety. Soybean flower petals are purple or white. The flower color is controlled strictly by genetics, and only one flower color occurs in a pure variety.

Maturity Group. Within the Maturity Group IV trials, the wide variation in maturity dates is attributed to lack of rigid standards for classifying varieties within a group. It was decided to subdivide both the Group IV and Group V trials into two maturity groups. All maturity groups were assigned an early- and late-maturity check:

Conventional Test

Maturity roup	Check
Group IV	AG4632
Group V	52A94

Roundup Ready Test

Maturity Group	Early Check	Late Check
Group IV Early		AG4632
Group IV Late	AG4632	P4900RY
Group V Early	52A94	S57RY26
Group V Late	S57RY26	

Liberty Link

Maturity Group	Check
Group IV	P 4930LL
Group V	CZ 5150 LL

Use of Data Tables and Summary Statistics

The yield potential of a given variety cannot be measured with complete accuracy. Consequently, replicated plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicated plots of that variety. Yields may vary from one plot to another, which introduces a certain degree of error to the estimation of yield potential. This natural variation is often responsible for yield differences seen among different varieties. Thus, even if the mean yield of two varieties is numerically different, they are not necessarily significantly different in terms of yield potential. In other words, the ability to measure yield is not precise enough to determine whether such small differences are observed purely by chance or because of superior performance.

The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Variety	Yield
Abe	40 bu/A
Bill	35 bu/A
Charlie	31 bu/A
LSD	7 bu/A

The difference between variety Abe and variety Bill is 5 bushels per acre (40 - 35 = 5). This difference is smaller than the LSD (7 bushels per acre). Consequently, it is concluded that variety Abe and variety Bill have the same yield potential, since the observed difference occurred purely due to chance.

The difference between variety Abe and variety Charlie is 9 bushels per acre (40 - 31 = 9), which is larger than the LSD (7 bushels per acre). Therefore, it is concluded that the yield potential of variety Abe is superior to that of variety Charlie, since the difference is larger than would be expected purely by chance.

The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial. This unexplained variation could be the result of variation between plots, with respect to soil type, fertility, insects, diseases, drought stress, etc. In general, the higher the CV, the less precise a given trial is.

The coefficient of determination (R^2) is another measure of the level of precision in a trial and is also used to compare the relative precision of different trials. The R^2 is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an R^2 value of 90 percent indicates that 90 percent of the observed variation in the trial has been accounted for, with the remaining 10 percent being unaccounted for. The higher the R^2 value, the more precise the trial. The R^2 is generally considered to be a better measure of precision than is the CV, for comparison of different trials.

Table 1. 2016 Soybean Locations.					
Location	**Irrigation**	**Soil type**	**Planting date**	**Harvest dates**	**Row spacing**
Brooksville, Black Belt Station	Nonirrigated	Brooksville silty clay	5/9	9/16 (IV LL, IV Con.), 9/26 (IV RR, V LL, V Con.), 9/27 (V RR)	19"
Brooksville, Brooksville Farm	Pivot irrigated	Brooksville silty clay	4/25	9/16 (IVE RR), 9/26 (IVL RR & V RR)	30"
Clarksdale, Dulaney Farms	Furrow irrigated	Sharkey clay	5/9	9/22 (IV RR), 10/4 (V RR)	30"
Falkner, Morton Farms	Nonirrigated	Bude silt loam	5/7	9/23 (IV & V RR, IV & V LL)	19"
Longwood, Steele Farms	Furrow irrigated	Sharkey clay	4/26	9/21 (IV RR, IV LL, IV & V Con.), 10/3 (V RR & V LL)	30"
Olive Branch, Todd Williams Farm	Nonirrigated	Collins & Richland silt loam	5/14	10/6 (IV &V RR)	19"
Raymond, Brown Loam Branch	Nonirrigated	Loring silt loam	4/28	No Harvest date[1]	19"
Stoneville (clay), Delta Branch	Furrow irrigated	Sharkey clay	5/5	9/15 (IVE RR, IV LL), 9/20 (IVL RR), 9/21 (V RR & V LL)	30"
Stoneville (clay), Delta Branch	Nonirrigated	Sharkey clay	5/5	9/20 (IV RR)	19"
Stoneville (loam), Delta Branch	Furrow irrigated	Bosket & Commerce very fine sandy loam	5/5	9/20 (IV RR) 10/3 (V RR)	30"
Tippo, Ray Hardy Farm	Nonirrigated	Dundee & Tensas silt loam	4/27	9/14 (IV RR)	19"

[1]Plots not harvested due to extreme variability with each maturity group.

Table 2. Summary of Yield for Group IV Early Roundup Ready for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Stoneville (clay) irr.	Stoneville (loam) irr.	Xtend avg.[2]	Brooksville irr.[3]	Clarksdale irr.[3]	Longwood irr.[3]	Irr. avg.	Brooksville nonirr.	Stoneville (clay)	Xtend avg.[2]	Falkner nonirr.[3]	Olive Branch nonirr.[3]	Tippo nonirr.[3]	Nonirr. avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AGS	GS45R216	73.5	80.1	76.8	84.2	70.0	73.0	76.2	50.9	68.8	59.8	59.2	100.1	42.5	64.3	70.2
Armor	46-D08	67.9	77.3	72.6	—	—	—	—	48.1	60.8	54.5	—	—	—	—	63.5
Asgrow	AG4632	69.9	75.2	72.6	79.6	66.8	67.0	71.7	43.5	60.5	52.0	59.5	105.2	44.0	62.5	67.1
Asgrow	AG42X6	69.8	79.3	74.5	—	—	—	—	44.7	47.9	46.3	—	—	—	—	60.4
Asgrow	AG44X6	68.4	70.4	69.4	—	—	—	—	50.4	63.8	57.1	—	—	—	—	63.2
Asgrow	AG45X6	69.7	70.6	70.1	—	—	—	—	44.2	61.8	53.0	—	—	—	—	61.6
Asgrow	AG46X6	79.1	75.3	77.2	—	—	—	—	46.1	76.0	61.1	—	—	—	—	69.1
Asgrow	AG46X7	78.4	71.9	75.2	—	—	—	—	46.8	74.3	60.6	—	—	—	—	67.9
Credenz	CZ 4181 RY	66.7	82.1	74.4	73.5	65.1	64.1	70.3	41.7	53.5	47.6	65.4	90.6	35.1	57.3	63.8
Credenz	CZ 4590 RY	66.8	86.3	76.5	79.7	60.0	50.9	68.7	49.3	58.7	54.0	54.9	107.0	30.0	60.0	64.4
Credenz	CZ 4656 RY	71.9	65.1	68.5	70.9	65.3	61.5	66.9	54.4	72.8	63.6	61.8	91.3	40.3	64.1	65.5
Delta Grow	4670RR2	66.7	69.7	68.2	76.6	69.3	69.9	70.4	51.3	65.5	58.4	57.6	104.3	30.9	61.9	66.2
Delta Grow	DG 4680RR2	74.5	73.6	74.1	79.1	72.6	70.2	74.0	51.5	57.9	54.7	61.5	95.3	40.0	61.2	67.6
Dyna-Gro	31RY45	69.3	78.0	73.6	78.4	69.0	73.8	73.7	52.0	61.8	56.9	64.3	101.4	43.6	64.6	69.2
Dyna-Gro	S43RY95	72.0	77.3	74.6	81.4	68.4	64.5	72.7	50.9	59.3	55.1	61.8	107.0	46.0	65.0	68.9
Dyna-Gro	S45XS66	73.9	72.8	73.4	—	—	—	—	50.8	69.9	60.3	—	—	—	—	66.8
Great Heart Seed	GT-4430XS	72.3	67.7	70.0	—	—	—	—	46.0	70.2	58.1	—	—	—	—	64.1
Great Heart Seed	GT-4540XS	80.5	76.3	78.4	—	—	—	—	47.9	73.2	60.5	—	—	—	—	69.5
Mycogen	5N414R2	69.6	81.4	75.5	81.6	62.5	61.9	71.4	45.1	58.0	51.5	61.2	101.4	37.8	60.7	66.0
Mycogen	5N424R2	63.2	74.5	68.8	79.8	59.5	64.4	68.3	42.7	49.1	45.9	54.2	88.1	31.5	53.1	60.7
Mycogen	5N433R2	68.2	72.7	70.5	87.7	68.7	70.3	73.5	45.6	60.8	53.2	57.6	102.5	40.3	61.4	67.5
Mycogen	5N452R2	74.6	75.6	75.1	79.3	62.0	67.8	71.9	54.7	66.8	60.7	61.8	94.6	48.1	65.2	68.5
NK	S39-C4	60.9	76.6	68.7	78.2	52.8	55.3	64.7	31.7	42.9	37.3	51.6	89.3	31.2	49.3	57.0
NK	S39-T3	62.1	81.5	71.8	77.2	62.5	61.0	68.9	41.3	45.7	43.5	60.0	97.6	41.3	57.2	63.0
NK	S42-P6	65.0	66.1	65.6	76.7	67.8	62.8	67.7	42.7	53.3	48.0	63.4	99.1	30.9	57.9	62.8
NK	S45-W9	60.0	82.0	71.0	78.8	77.5	64.5	72.6	50.8	45.8	48.3	54.1	104.8	38.2	58.8	65.7
Pioneer	P41T33R	70.2	76.9	73.6	81.6	68.4	72.0	73.8	44.7	54.2	49.5	56.2	95.9	33.0	56.8	65.3
Progeny	P 4516RXS	77.0	76.7	76.8	—	—	—	—	48.7	73.9	61.3	—	—	—	—	69.1
Progeny	P 4588RY	67.1	71.8	69.4	65.5	64.8	64.0	66.6	45.9	56.6	51.3	57.3	92.6	34.7	57.4	62.0
Progeny	P4 620RXS	67.6	73.7	70.7	—	—	—	70.7	45.0	59.1	52.0	—	—	—	—	61.4
Progeny	P 4613RYS	79.3	79.6	79.4	84.1	68.5	62.9	74.9	42.8	73.4	58.1	61.4	106.2	34.1	63.6	69.2
Progeny	P 4211RY	69.8	84.3	77.0	51.9	74.7	72.6	70.6	37.4	51.2	44.3	54.8	106.6	37.8	57.6	64.1
REV	45A46 *	76.0	86.4	81.2	86.5	67.7	68.3	77.0	45.2	71.0	58.1	66.9	96.0	38.6	63.6	70.3
Mean		70.4	76.1	73.2	77.8	66.6	65.6	72.0	46.5	61.2	53.8	59.4	98.9	37.7	59.0	65.5
LSD		5.7	8.5		7.2	7.4	7.4		5.5	7.8		9.4	11.5	6.2		
Error df		64	64		42	42	42		64	64		42	42	42		
CV		6	8.2		6.7	8.1	8.2		8.6	9.4		11.6	8.5	12		
R^2		70.8	51.7		76.9	74.1	64.3		72.6	81.4		38.9	45.5	73.1		

[1]Variety followed by an asterisk indicates an experimental entry.
[2]Indicates averages including Xtend varieties.
[3]Location does not include Xtend varieties.

Table 3. Summary of 2-Year Yield for Maturity Group IV Early Roundup Ready for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Stoneville nonirr. (clay)	Falkner nonirr.	Tippo nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Asgrow	AG4632	75.4	76.6	75.6	75.8	40.2	44.0	86.3	71.1	60.4	67.0
Credenz	CZ 4590 RY	64.8	84.3	69.0	72.7	45.2	40.1	72.3	54.8	53.1	61.5
Delta Grow	4670RR2	72.0	76.4	74.2	74.2	45.5	44.8	81.0	59.2	57.6	64.7
Dyna-Gro	31RY45	74.4	81.6	75.9	77.3	45.0	43.1	86.0	71.6	61.4	68.2
Dyna-Gro	S43RY95	73.5	77.1	72.5	74.4	43.5	45.4	76.1	72.3	59.3	65.8
Mycogen	5N433R2	72.6	78.5	72.8	74.6	40.0	46.1	73.1	66.6	56.5	64.3
Mycogen	5N452R2	77.0	79.6	72.8	76.5	46.2	45.8	79.4	77.8	62.3	68.4
Progeny	P 4613RYS	75.5	76.3	76.8	76.2	37.8	53.3	81.0	64.9	59.3	66.5
Progeny	P 4211RY	69.7	78.7	75.2	74.5	32.7	40.4	73.4	62.0	52.1	61.7
Overall Mean		72.8	78.8	73.9	75.1	41.8	44.8	78.7	66.7	58.0	65.3

Table 4. Summary of 3-Year Yield for Maturity Group IV Early Roundup Ready for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Stoneville nonirr. (clay)	Falkner nonirr.	Tippo nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Asgrow	AG4632	79.0	81.4	80.7	80.3	45.7	49.5	82.5	54.8	58.1	67.7
Delta Grow	4670RR2	76.0	79.4	75.9	77.1	47.8	51.6	74.4	54.0	57.0	65.6
Dyna-Gro	31RY45	77.0	85.2	78.8	80.3	50.1	51.8	83.5	59.1	61.1	69.4
Dyna-Gro	S43RY95	75.2	80.4	73.8	76.4	48.1	54.3	77.4	56.2	59.0	66.5
Mycogen	5N452R2	77.7	86.0	77.1	80.3	50.7	54.3	76.9	60.5	60.6	69.1
Progeny	P 4613RYS	76.6	81.9	78.2	78.9	44.2	57.9	74.8	55.7	58.2	67.0
Progeny	P 4211RY	71.9	81.0	72.9	75.3	38.5	50.6	71.8	48.7	52.4	62.2
Overall Mean		76.2	82.2	76.8	78.4	46.5	52.9	77.3	55.6	58.1	66.8

Table 5. Summary of Yield for Group IV Late Roundup Ready for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Stone-ville (clay) irr.	Stone-ville (loam) irr.	Xtend avg.[2]	Brooks-ville irr.[3]	Clarks-dale irr.[3]	Long-wood irr.[3]	Irr. avg.	Brooks-ville nonirr.	Stone-ville (clay)	Xtend avg.[2]	Falk-ner nonirr.[3]	Olive Branch nonirr.[3]	Tippo nonirr.[3]	Nonirr. avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AGS	GS47R216	57.1	76.7	66.9	83.3	59.6	62.3	67.8	59.8	66.7	63.2	59.5	106.4	46.6	67.8	67.8
AGS	GS48R216	57.7	75.6	66.7	67.1	77.1	69.2	69.3	50.0	56.0	53.0	63.2	108.5	50.4	65.6	67.5
AGS	GS4915R2	55.1	61.7	58.4	70.6	65.5	59.9	62.6	47.0	56.2	51.6	56.5	84.9	48.1	58.5	60.6
Armor	47-D17	63.7	78.4	71.0	—	—	—	—	42.8	70.3	56.6	—	—	—	—	63.8
Armor	47-R70	60.9	75.4	68.2	83.3	80.8	73.0	74.7	49.0	67.6	58.3	64.9	106.5	50.4	67.7	71.2
Armor	48-D24	58.3	78.7	68.5	—	—	—	68.5	40.9	60.2	50.5	—	—	—	—	59.5
Armor	48-D80	50.3	63.9	57.1	—	—	—	57.1	44.9	65.4	55.2	—	—	—	—	56.1
Armor	49-D66	54.9	63.0	58.9	—	—	—	58.9	46.5	66.2	56.4	—	—	—	—	57.7
Armor	ARX4706 *	60.0	72.0	66.0	—	—	—	66.0	48.7	63.8	56.2	—	—	—	—	61.1
Armor	ARX4906 *	50.6	59.5	55.0	—	—	—	55.0	51.4	75.4	63.4	—	—	—	—	59.2
Asgrow	AG47X6	61.6	74.9	68.3	—	—	—	68.3	42.0	55.0	48.5	—	—	—	—	58.4
Asgrow	AG48X7	49.8	61.7	55.8	—	—	—	55.8	44.9	60.0	52.5	—	—	—	—	54.1
Asgrow	AG49X6	57.6	68.6	63.1	—	—	—	—	41.8	58.1	50.0	—	—	—	—	56.6
Credenz	CZ 4898 RY	54.3	66.7	60.5	68.7	59.5	64.2	62.7	40.7	65.4	53.0	55.1	83.5	49.9	58.9	60.8
Credenz	CZ 4959 RY	51.4	75.7	63.6	70.3	69.6	57.6	64.9	41.9	52.3	47.1	49.5	106.2	43.8	58.8	61.8
Croplan	R2C4700S	61.0	74.8	67.9	79.0	73.7	69.4	71.6	44.4	58.7	51.5	57.1	97.4	42.1	59.9	65.7
Croplan	R2C4775	63.6	72.0	67.8	77.2	70.8	69.0	70.5	46.8	60.6	53.7	61.8	105.0	44.0	63.6	67.1
Delta Grow	DG 4790RR2	61.1	77.6	69.3	80.7	72.3	70.1	72.4	42.7	71.6	57.2	56.1	106.5	50.2	65.4	68.9
Delta Grow	DG 4825 RR2/STS	52.2	74.2	63.2	73.0	74.0	55.6	65.8	45.2	58.9	52.1	60.3	99.0	42.8	61.2	63.5
Delta Grow	DG 4880RR	59.6	69.0	64.3	76.7	66.7	76.6	69.7	36.2	60.4	48.3	55.0	95.1	37.6	56.9	63.3
Delta Grow	DG 4970RR	54.9	64.7	59.8	65.5	73.6	62.3	64.2	40.8	63.0	51.9	57.4	97.5	38.3	59.4	61.8
Delta Grow	DG 4995 RR	55.3	73.0	64.2	69.0	64.1	61.9	64.7	40.5	50.8	45.6	53.4	101.0	54.5	60.0	62.3
Delta Grow	DGX 4845RR2	60.8	76.7	68.8	—	—	—	—	48.2	60.1	54.1	—	—	—	—	61.5
Dixie Bell	DB 4787	55.9	69.0	62.4	66.5	61.1	56.5	61.8	40.4	45.2	42.8	46.9	90.6	52.3	55.1	58.4
Dixie Bell	DB 4911	59.4	72.6	66.0	61.0	66.8	71.0	66.2	51.5	68.4	59.9	56.2	100.7	55.9	66.5	66.3
Dixie Bell	DB 4965	60.7	70.8	65.7	77.6	66.1	60.6	67.1	49.4	66.6	58.0	58.5	104.5	57.8	67.4	67.3
Dyna-Gro	S48RS53	46.6	60.6	53.6	73.9	62.8	62.5	61.3	49.1	53.2	51.1	55.2	89.2	47.8	58.9	60.1
Dyna-Gro	S48XT56	59.6	69.9	64.7	—	—	—	—	44.2	61.1	52.6	—	—	—	—	58.7
Dyna-Gro	S49XT07	53.9	64.0	58.9	—	—	—	—	46.7	71.9	59.3	—	—	—	—	59.1
Go Soy	4814GTS	56.5	71.5	64.0	78.4	64.5	73.7	68.9	46.9	64.6	55.8	61.1	99.9	48.0	64.1	66.5
Go Soy	49G16	57.9	71.0	64.4	65.5	66.4	68.3	65.8	45.2	67.7	56.4	53.1	95.1	59.0	64.0	64.9
Great Heart Seed	GT-476CR2	62.1	74.5	68.3	80.8	72.4	64.0	70.8	41.6	58.7	50.1	59.1	111.6	37.4	61.7	66.2
Great Heart Seed	GT-477CR2	64.1	82.5	73.3	83.5	77.8	72.8	76.1	44.6	64.2	54.4	66.0	98.6	43.7	63.4	69.8
Great Heart Seed	GT-4860X	58.4	78.1	68.2	—	—	—	—	42.8	64.5	53.6	—	—	—	53.6	60.9
Mycogen	5N480R2	57.8	69.0	63.4	68.7	57.9	61.1	62.9	46.1	53.8	50.0	51.6	92.7	48.6	58.6	60.7
Mycogen	5N490R2	67.0	75.2	71.1	77.9	71.1	71.2	72.5	45.7	71.1	58.4	58.2	93.8	39.7	61.7	67.1
NK	S49-B1	62.5	70.7	66.6	86.8	74.0	65.7	71.9	40.4	51.5	46.0	59.4	104.4	41.7	59.5	65.7
NK	S47-K5	68.6	78.9	73.7	76.3	79.6	77.3	76.1	50.3	54.1	52.2	60.3	107.1	42.4	62.8	69.5
Pioneer	P47T36R	59.6	83.1	71.3	84.4	75.8	60.2	72.6	42.1	52.5	47.3	59.6	105.8	40.2	60.0	66.3
Pioneer	P47T89R	70.2	78.2	74.2	72.3	79.7	77.6	75.6	44.3	65.8	55.1	67.6	108.5	46.3	66.5	71.0
Progeny	P 4757RY	62.8	73.6	68.2	81.3	77.1	76.4	74.2	48.1	64.5	56.3	63.8	104.8	39.5	64.1	69.2
Progeny	P 4799RXS	59.6	79.0	69.3	—	—	—	—	43.5	62.5	53.0	—	—	—	—	61.1
Progeny	P 4816RX	60.7	73.7	67.2	—	—	—	—	42.7	60.5	51.6	—	—	—	—	59.4
Progeny	P 4944RX	58.5	63.9	61.2	—	—	—	—	45.2	72.4	58.8	—	—	—	—	60.0
Progeny	P 4788RY	58.2	81.2	69.7	81.7	76.8	69.4	73.5	46.1	67.6	56.9	58.8	117.2	44.4	66.8	70.1
Progeny	P 4900RY	65.9	69.2	67.5	82.0	81.4	75.5	74.8	44.0	74.1	59.1	57.3	94.8	50.3	64.1	69.4
REV	47R34	61.0	83.4	72.2	88.8	70.4	74.7	75.7	40.2	62.7	51.5	60.9	106.4	50.9	64.2	69.9
REV	48A26 *	68.8	84.0	76.4	81.3	81.0	72.5	77.5	47.1	67.4	57.3	68.8	104.4	42.2	66.0	71.7
REV	48A76 *	66.2	78.8	72.5	82.8	82.4	80.9	78.2	43.6	61.7	52.7	60.3	97.8	49.0	62.5	70.4
REV	49A75	62.3	73.5	67.9	81.2	74.0	69.7	72.2	44.2	60.6	52.4	61.4	108.2	43.0	63.5	67.8
REV	49R94	63.1	76.3	69.7	81.6	79.1	76.1	75.3	41.6	59.3	50.4	64.7	103.8	48.0	63.5	69.4
USG	7487XTS *	51.6	58.4	55.0	—	—	—	—	52.7	59.9	56.3	—	—	—	—	55.7
USG	7496XTS	60.2	81.5	70.9	—	—	—	—	46.5	62.5	54.5	—	—	—	—	62.7
USG	7497XT *	47.2	53.5	50.3	—	—	—	—	50.3	75.7	63.0	—	—	—	—	56.7
USG	74K95RS	57.3	64.3	60.8	68.9	61.3	58.2	62.0	46.6	57.6	52.1	55.1	80.6	53.5	58.7	60.3
Mean		58.8	72.2	65.5	76.3	71.3	68	67.5	45.2	62.2	53.8	58.7	100.5	46.7	59.9	63.7
LSD		5.7	8.7		6.7	7.5	6.9		6.6	7.4		7.2	10.3	7.7		
Error df		108	108		70	70	70		110	110		70	70	70		
CV		7.1	8.9		6.5	7.8	7.4		10.8	8.8		9	7.5	12.1		
R^2		70.4	64.6		74.9	72.5	74.5		50.3	71.4		57.1	64.4	70.3		

[1]Variety followed by an asterisk indicates an experimental entry.
[2]Indicates averages including Xtend varieties.
[3]Location does not include Xtend varieties.

Table 6. Summary of 2-Year Yield for Maturity Group IV Late Roundup Ready for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Stoneville nonirr. (clay)	Falkner nonirr.	Tippo nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Credenz	CZ 4959 RY	57.0	73.6	72.0	67.5	38.3	36.6	66.6	46.3	46.9	55.7
Delta Grow	DG 4790RR2	72.9	80.2	83.5	78.9	45.7	49.4	81.4	61.3	59.5	67.8
Delta Grow	DG 4825 RR2/STS	60.3	71.5	73.2	68.3	43.7	43.7	76.8	49.3	53.4	59.8
Delta Grow	DG 4880RR	64.5	71.1	74.1	69.9	34.5	43.1	76.6	40.4	48.7	57.8
Delta Grow	DG 4970RR	62.3	68.7	76.0	69.0	43.2	42.3	79.7	42.2	51.8	59.2
Delta Grow	DG 4995 RR	60.0	66.5	64.7	63.7	43.0	36.0	73.2	47.4	49.9	55.8
Dyna-Gro	S48RS53	60.4	64.9	74.4	66.6	50.6	40.2	83.2	55.1	57.3	61.2
Great Heart Seed	GT-476CR2	65.9	71.2	77.3	71.5	38.8	41.9	82.4	44.5	51.9	60.3
Great Heart Seed	GT-477CR2	74.1	82.1	85.3	80.5	44.1	47.9	87.8	46.6	56.6	66.9
Mycogen	5N490R2	67.9	73.3	72.9	71.4	42.9	48.3	77.3	49.7	54.5	61.8
NK	S47-K5	73.3	78.3	84.2	78.6	43.9	41.1	81.5	55.4	55.5	65.4
Progeny	P 4757RY	71.0	76.3	84.6	77.3	45.3	46.4	84.4	49.8	56.5	65.4
Progeny	P 4788RY	69.4	75.4	84.4	76.4	46.7	46.5	82.7	52.3	57.0	65.3
Progeny	P 4900RY	66.4	74.0	83.0	74.5	42.0	49.5	76.9	46.2	53.7	62.6
REV	47R34	69.2	75.6	79.7	74.8	43.8	49.7	85.9	58.8	59.5	66.1
REV	49A75	66.2	75.2	79.5	73.6	50.1	44.1	80.4	47.2	55.4	63.2
REV	49R94	72.2	74.6	83.7	76.8	42.8	40.7	81.8	55.4	55.2	64.4
USG	74K95RS	64.8	63.5	72.2	66.8	48.0	38.8	84.3	53.4	56.1	60.7
Overall Mean		66.5	73.1	78.0	72.6	43.7	43.7	80.2	50.1	54.4	62.2

Table 7. Summary of 3-Year Yield for Maturity Group IV Late Roundup Ready for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Stoneville nonirr. (clay)	Falkner nonirr.	Tippo nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Delta Grow	DG 4825 RR2/STS	67.0	78.5	71.7	72.4	45.5	54.1	74.7	57.3	57.9	64.1
Delta Grow	DG 4880RR	69.2	75.1	76.4	73.6	38.2	52.2	76.9	55.8	55.8	63.4
Delta Grow	DG 4970RR	65.6	71.3	74.9	70.6	45.2	52.7	77.4	51.2	56.6	62.6
Dyna-Gro	S48RS53	66.8	71.4	74.7	71.0	51.8	52.1	82.0	61.5	61.9	65.8
Great Heart Seed	GT-476CR2	71.1	74.9	77.2	74.4	45.6	54.6	79.8	49.6	57.4	64.7
Mycogen	5N490R2	71.9	75.1	73.1	73.4	49.3	56.7	80.5	51.5	59.5	65.4
NK	S47-K5	73.2	78.6	82.4	78.1	49.0	54.6	81.4	54.9	60.0	67.7
Progeny	P 4788RY	74.0	80.4	82.4	78.9	50.1	58.1	80.4	53.9	60.6	68.5
Progeny	P 4900RY	70.3	78.3	81.2	76.6	46.1	56.9	74.7	49.3	56.7	65.3
REV	47R34	73.0	75.5	79.0	75.8	51.1	60.4	81.9	65.8	64.8	69.5
REV	49R94	75.5	76.7	79.5	77.2	47.4	51.6	79.4	60.7	59.8	67.3
Overall Mean		70.7	76.0	77.5	74.7	47.2	54.9	79.0	55.6	59.2	65.8

Table 8. Summary of Yield for Group V Early Roundup Ready for the 2016 Mississippi Soybean Variety Trials

Brand	Variety[1]	Stoneville irr. (clay)	Stoneville irr. (loam)	Xtend avg.[2]	Brooks-ville irr.[3]	Clarks-dale irr.[3]	Long-wood irr.[3]	Irrigated avg.	Brooks-ville nonirr.[2]	Falkner nonirr.[3]	Olive Branch[3]	Nonirr. avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Armor	53-D04	66.6	69.2	67.9	—	—	—	—	42.3	—	—	—	59.4
Armor	55-R68	64.7	70.8	67.8	75.6	68.8	76.3	71.3	42.8	57.7	112.7	71.1	71.2
Armor	ARX5506 *	56.4	58.4	57.4	—	—	—	—	46.0	—	—	—	53.6
Asgrow	AG53X6	57.4	71.0	64.2	—	—	—	—	51.9	—	—	—	60.1
Asgrow	AG54X6	60.4	65.7	63.0	—	—	—	—	43.2	—	—	—	56.4
Credenz	CZ 5375 RY	63.2	69.3	66.3	59.5	68.0	62.8	64.6	36.2	51.1	89.5	58.9	62.5
Croplan	R2C5225S	79.5	84.0	81.8	74.1	71.7	80.9	78.0	47.8	59.9	106.0	71.2	75.5
Croplan	R2C5265	56.6	74.3	65.5	78.5	64.3	54.4	65.6	50.0	56.0	101.4	69.1	66.9
Delta Grow	DG 5170 RR2/STS	70.6	82.0	76.3	75.0	73.5	63.5	72.9	49.6	54.6	106.1	70.1	71.9
Delta Grow	DG 5230 RR2	63.5	75.1	69.3	74.8	60.7	50.3	64.9	48.0	55.3	93.9	65.7	65.2
Delta Grow	DG 5555RR	59.9	60.6	60.2	69.2	60.4	65.5	63.1	44.2	47.0	96.9	62.7	63.0
Delta Grow	DG 5625RR2	60.9	70.2	65.5	70.6	62.8	62.0	65.3	53.1	47.3	99.3	66.6	65.8
Delta Grow	DG 5580RR2	70.7	76.6	73.6	71.2	68.5	75.4	72.5	52.4	48.7	100.9	67.3	70.5
Dyna-Gro	S52RY75	62.2	78.4	70.3	72.8	66.9	56.2	67.3	52.6	53.3	105.3	70.4	68.5
Dyna-Gro	S56RY84	60.8	63.1	61.9	67.1	65.6	68.5	65.0	42.5	47.8	94.6	61.6	63.7
GoSoy	5214GTS	56.0	60.6	58.3	71.7	65.4	60.3	62.8	40.9	49.4	90.6	60.3	61.9
Mycogen	5N523R2	71.3	77.9	74.6	77.2	72.8	72.4	74.3	48.7	56.2	117.3	74.0	74.2
NK	S55-Q3	63.6	69.6	66.6	71.2	61.8	65.3	66.3	49.9	54.6	107.7	70.7	68.0
NK	S56-M8	44.6	66.5	55.6	67.5	48.1	48.5	55.0	41.4	49.2	99.9	63.5	58.2
Pioneer	P52T50R	57.6	73.8	65.7	73.0	66.1	59.8	66.1	50.3	52.6	98.8	67.2	66.5
Pioneer	P55T81R	61.0	63.0	62.0	67.0	59.2	60.9	62.2	40.1	49.6	99.9	63.2	62.6
Progeny	P 5016RXS	62.6	82.2	72.4	—	—	—	—	43.6	—	—	—	62.8
Progeny	P 5226RYS	69.9	81.0	75.5	74.7	71.0	74.6	74.3	52.7	55.0	101.6	69.8	72.6
Progeny	P 5417RX	66.4	66.9	66.7	—	—	—	—	45.4	—	—	—	59.6
Progeny	P 5555RY	64.1	69.9	67.0	70.9	67.1	69.3	68.2	45.7	51.0	104.6	67.1	67.8
Progeny	P 5631RX	55.7	58.4	57.1	—	—	—	—	43.9	—	—	—	52.7
REV	51A56	66.9	76.3	71.6	75.0	75.4	65.9	71.9	42.2	53.5	98.4	64.7	69.2
REV	52A94	63.8	61.3	62.5	73.2	66.3	67.9	66.5	46.3	50.6	90.8	62.6	65.0
REV	56R93	56.8	52.2	54.5	63.0	58.2	63.5	58.7	43.2	49.6	97.8	63.5	60.5
University of Arkansas	R101-89RY *	61.5	68.2	64.9	68.5	67.0	68.7	66.8	46.8	45.1	102.0	64.6	66.0
University of Arkansas	R10-197RY *	58.8	72.4	65.6	67.9	70.8	57.5	65.5	52.1	52.2	95.1	66.5	65.9
University of Arkansas	UA 5414RR	51.8	59.2	55.5	67.3	54.2	37.8	54.1	46.4	55.5	98.7	66.9	58.9
USG	7547XT *	61.7	64.5	63.1	—	—	—	—	44.5	—	—	—	56.9
USG	7506XTS	64.8	75.2	70.0	—	—	—	—	49.9	—	—	—	63.3
USG	7536XT *	56.0	73.7	64.8	—	—	—	—	43.8	—	—	—	57.8
USG	7557XT *	58.0	57.5	57.8	—	—	—	—	43.3	—	—	—	53.0
Mean		61.8	69.4	65.6	71.1	65.4	63.5	65.8	46.2	52.1	100.4	59.9	63.8
LSD		6	6.2		5.6	6.1	7.4		6.6	6.3	14		
Error df		70	70		48	48	48		70	48	48		
CV		7.1	6.6		5.7	6.8	8.4		10.5	8.8	10.2		
R^2		75.6	82.2		65.1	75.8	84.6		57.5	51.1	40.3		

[1]Variety followed by an asterisk indicates an experimental entry.
[2]Indicates averages including Xtend varieties.
[3]Location does not include Xtend varieties.

Table 9. Summary of 2-Year Yield for Maturity Group V Early Roundup Ready for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Delta Grow	DG 5170 RR2/STS	75.7	83.1	78.8	79.2	51.9	73.5	62.7	72.6
Delta Grow	DG 5230 RR2	78.9	81.8	67.7	76.1	43.0	78.4	60.7	69.9
Delta Grow	DG 5625RR2	72.1	72.9	64.2	69.7	43.7	71.7	57.7	64.9
Dyna-Gro	S52RY75	76.4	82.8	76.1	78.4	50.4	79.7	65.0	73.1
Dyna-Gro	S56RY84	76.2	67.2	73.0	72.1	39.0	80.6	59.8	67.2
NK	S55-Q3	73.4	72.6	70.6	72.2	50.4	81.7	66.0	69.7
Progeny	P 5226RYS	75.1	79.9	75.9	77.0	50.1	67.8	58.9	69.8
Progeny	P 5555RY	79.2	70.4	77.5	75.7	38.5	77.7	58.1	68.7
REV	51A56	73.9	81.6	73.5	76.3	53.1	70.3	61.7	70.5
REV	52A94	76.6	72.4	72.7	73.9	45.3	79.3	62.3	69.2
U. of Arkansas	R101-89RY *	69.5	72.4	72.2	71.4	37.4	65.7	51.5	63.4
U. of Arkansas	R10-197RY *	72.1	73.9	72.4	72.8	51.3	77.1	64.2	69.4
U. of Arkansas	UA 5414RR	65.0	67.1	56.4	62.8	32.4	73.5	53.0	58.9
Overall Mean		74.2	75.2	71.6	73.7	45.1	75.1	60.1	68.3

[1]Variety followed by an asterisk indicates an experimental entry.

Table 10. Summary of 3-Year Yield for the Maturity Group V Early Roundup Ready for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Delta Grow	DG 5230 RR2	81.0	84.6	69.5	78.4	48.6	72.2	60.4	71.2
Dyna-Gro	S52RY75	80.1	87.0	77.2	81.4	53.4	75.2	64.3	74.6
Dyna-Gro	S56RY84	80.5	75.9	73.5	76.6	43.2	78.0	60.6	70.2
NK	S55-Q3	77.5	79.2	74.8	77.1	53.1	77.8	65.4	72.5
Progeny	P 5555RY	81.5	76.5	80.3	79.5	43.8	73.0	58.4	71.0
REV	52A94	76.1	77.9	77.2	77.1	46.9	70.3	58.6	69.7.
U. of Arkansas	R10-197RY *	73.9	78.2	72.6	74.9	51.1	78.7	64.9	70.9
Overall Mean		78.7	79.9	75.0	77.9	48.6	75.0	61.8	71.4

[1]Variety followed by an asterisk indicates an experimental entry

Table 11. Summary of Yield for Group V Late Roundup Ready for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Stoneville irr. (clay)	Stoneville irr. (loam)	Xtend avg.[2]	Brooks-ville irr.[3]	Clarks-dale irr.[3]	Long-wood irr.[3]	Irrigated avg.	Brooks-ville nonirr.[2]	Falkner nonirr.[3]	Olive Branch[3]	Nonirr. avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Dyna-Gro	S57RY26	55.7	59.7	57.7	76.7	64.0	64.9	64.2	52.1	49.9	110.8	70.9	66.7
NK	S58-Z4	53.2	57.1	55.1	56.0	40.9	54.2	52.3	42.0	46.2	84.4	57.5	54.3
Progeny	P 5752RY	62.6	53.3	58.0	71.4	66.5	62.4	63.2	50.4	47.0	114.8	70.7	66.0
Progeny	P 5768RX	60.6	63.4	62.0	—	—	—	—	25.3	—	—	—	49.8
REV	57R21	48.4	58.8	53.6	64.5	57.1	68.7	59.5	44.8	45.8	100.6	63.7	61.1
University of Arkansas	R07-6614RR *	59.4	61.8	60.6	58.2	47.6	43.5	54.1	35.1	39.0	90.7	54.9	54.4
USG	7576XT *	58.2	61.2	59.7	—	—	—	—	26.0	—	—	—	48.5
USG	75B75R	61.1	67.9	64.5	74.8	55.6	56.5	63.2	50.6	44.1	103.4	66.0	64.3
Mean		57.4	60.4	58.9	66.9	55.3	58.4	59.8	40.8	45.3	100.8	54.4	58.1
LSD		9.2	9.5		6.8	6	7.2		6.4	5.8	11.8		
Error df		14	14		10	10	10		14	10	10		
CV		11.1	10.9		6.9	7.3	8.4		11.0	8.6	7.9		
R^2		53.6	44.4		84.6	90.1	87.2		89.9	64.3	77.5		

[1]Variety followed by an asterisk indicates an experimental entry.
[2]Indicates averages including Xtend varieties.
[3]Location does not include Xtend varieties.

Table 12. Summary of 2-Year Yield for Maturity Group V Late Roundup Ready for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Dyna-Gro	S57RY26	71.5	73.5	71.7	72.2	46.4	82.2	64.3	69.1
NK	S58-Z4	63.6	65.6	60.1	63.1	38.5	73.6	56.0	60.3
Progeny	P 5752RY	72.9	68.3	74.3	71.8	42.7	74.5	58.6	66.5
REV	57R21	68.9	74.1	67.8	70.2	44.0	73.2	58.6	65.6
USG	75B75R	74.4	77.8	65.2	72.5	47.4	78.9	63.1	68.7
Overall Mean		70.3	71.8	67.8	70.0	43.8	76.5	60.1	66.0

Table 13. Summary of 3-Year Yield for Maturity Group V Late Roundup Ready for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Stoneville irr. (loam)	Clarksdale irr.	Irrigated avg.	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
REV	57R21	73.5	81.9	74.5	76.6	46.3	82.3	64.3	71.7
Overall Mean		73.5	81.9	74.5	76.6	46.3	82.3	64.3	71.7

Table 14. Summary of Yield for Group IV Liberty Link for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Longwood irr. (Delta)	Stoneville irr. (Delta)	Irrigated avg.	Brooksville nonirr. (Hills)	Falkner nonirr. (Hills)	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Credenz	CZ 4044 LL	43.4	58.1	50.7	35.2	53.8	44.5	47.6
Credenz	CZ 4105 LL	47.1	53.4	50.3	30.0	49.4	39.7	45.0
Credenz	CZ 4222 LL	50.7	65.7	58.2	41.3	50.5	45.9	52.0
Credenz	CZ 4540 LL	67.0	67.5	67.3	50.0	56.2	53.1	60.2
Credenz	CZ 4748 LL	56.4	66.1	61.2	54.7	62.3	58.5	59.9
Credenz	CZ 4818 LL	58.5	66.1	62.3	61.3	58.3	59.8	61.0
Delta Grow	DG 4587LL/STS	60.1	70.9	65.5	47.3	53.5	50.4	58.0
Delta Grow	DG 4781LL	59.4	73.1	66.2	48.3	63.5	55.9	61.1
Delta Grow	DG 4967LL	67.5	94.3	80.9	52.1	50.3	51.2	66.0
Delta Grow	DG 4977LL/STS	61.3	68.4	64.8	55.5	47.6	51.5	58.2
Dyna-Gro	S49LL34	67.9	75.3	71.6	57.8	57.9	57.9	64.7
Go Soy	4714LL	63.4	70.9	67.2	55.3	58.1	56.7	61.9
Go Soy	4912LL	72.4	70.2	71.3	53.9	50.8	52.3	61.8
Go Soy	4913LL	69.7	77.2	73.5	57.8	52.6	55.2	64.4
Hornbeck	HBK LL 4953	70.3	72.6	71.4	56.9	55.6	56.2	63.8
Progeny	P 4247LL	54.5	69.8	62.1	44.6	56.1	50.4	56.3
Progeny	P 4814LLS	62.7	65.5	64.1	56.8	58.9	57.8	61.0
Progeny	P 4930LL	71.5	72.6	72.1	55.8	52.6	54.2	63.1
REV	48L63 *	67.3	64.5	65.9	47.8	48.7	48.3	57.1
REV	49L49	69.7	70.7	70.2	44.1	57.8	51.0	60.6
Mean		62.0	69.7	65.8	50.3	54.7	52.5	59.2
LSD		6.3	7.2		4.9	8.7		
Error df		38	38		38	38		
CV		7.3	7.6		7.1	11.6		
R^2		83.4	77.7		91	55.3		

[1]Variety followed by an asterisk indicates an experimental entry.

Table 15. Summary of 2-Year Yield for Maturity Group IV Liberty Link for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Credenz	CZ 4105 LL	57.7	26.0	64.5	45.2	49.4
Credenz	CZ 4540 LL	67.4	46.2	73.8	60.0	62.4
Credenz	CZ 4748 LL	74.3	51.6	72.1	61.9	66.0
Credenz	CZ 4818 LL	68.1	52.8	65.4	59.1	62.1
Delta Grow	DG 4781LL	79.2	48.1	74.6	61.3	67.3
Delta Grow	DG 4967LL	85.5	57.2	73.8	65.5	72.2
Delta Grow	DG 4977LL/STS	71.0	53.6	67.9	60.7	64.2
Dyna-Gro	S49LL34	81.3	59.5	88.3	73.9	76.4
Go Soy	4714LL	79.4	51.0	69.5	60.2	66.6
Hornbeck	HBK LL 4953	78.1	55.0	78.1	66.6	70.4
Progeny	P 4814LLS	72.1	51.9	80.4	66.1	68.1
Progeny	P 4930LL	76.4	53.1	84.1	68.6	71.2
Overall Mean		74.2	50.5	74.4	62.4	66.4

Table 16. Summary of 3-Year Yield for Maturity Group IV Liberty Link for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Delta Grow	DG 4967LL	82.1	53.8	72.0	62.9	69.3
Dyna-Gro	S49LL34	80.1	55.1	82.0	68.6	72.4
Hornbeck	HBK LL 4953	78.9	52.2	73.9	63.0	68.3
Progeny	P 4930LL	77.8	52.0	80.8	66.4	70.2
Overall Mean		79.7	53.3	77.2	65.2	70.1

Table 17. Summary of Yield for Group V Liberty Link for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Longwood irr. (Delta)	Stoneville irr. (Delta)	Irrigated avg.	Brooksville nonirr. (Hills)	Falkner nonirr. (Hills)	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Credenz	CZ 5147 LL	49.7	54.2	52.0	50.9	52.1	51.5	51.7
Credenz	CZ 5150 LL	68.8	53.8	61.3	51.2	55.2	53.2	57.2
Credenz	CZ 5225 LL	50.1	55.7	52.9	53.6	54.2	53.9	53.4
Credenz	CZ 5242 LL	70.9	52.1	61.5	52.4	49.4	50.9	56.2
Credenz	CZ 5445 LL	41.5	54.3	47.9	53.0	52.7	52.8	50.4
Credenz	CZ 5515 LL	53.7	44.3	49.0	45.7	62.6	54.1	51.6
Delta Grow	DG 5067LL	70.7	52.3	61.5	50.4	56.4	53.4	57.5
Dyna-Gro	S52LL66	72.4	54.4	63.4	51.7	55.9	53.8	58.6
Dyna-Gro	S55LS75	63.2	56.2	59.7	49.9	54.0	51.9	55.8
Go Soy	5115LL	68.7	55.7	62.2	53.1	53.3	53.2	57.7
Go Soy	5215LL	72.2	53.3	62.7	49.4	56.2	52.8	57.7
Go Soy	5515LL	57.8	53.4	55.6	50.1	50.3	50.2	52.9
Mean		61.6	53.3	57.5	50.9	54.4	52.6	55.1
LSD		5.2	5.4		6.5	7.2		
Error df		22	22		22	22		
CV		6.0	7.1		9.1	9.5		
R^2		92.6	54		36.5	65.5		

Table 18. Summary of 2-Year Yield for Maturity Group V Liberty Link for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Credenz	CZ 5147 LL	62.9	44.9	71.7	58.3	59.8
Credenz	CZ 5150 LL	66.8	51.1	76.9	64.0	65.0
Credenz	CZ 5242 LL	64.9	50.4	69.8	60.1	61.7
Credenz	CZ 5445 LL	50.8	52.4	75.3	63.9	59.5
Credenz	CZ 5515 LL	53.1	45.1	77.6	61.4	58.6
Delta Grow	DG 5067LL	65.9	48.8	76.8	62.8	63.8
Dyna-Gro	S52LL66	65.6	47.8	83.1	65.4	65.5
Dyna-Gro	S55LS75	63.6	45.3	70.1	57.7	59.7
Go Soy	5115LL	67.1	51.5	77.4	64.5	65.3
Go Soy	5215LL	65.8	46.0	76.1	61.1	62.6
Go Soy	5515LL	63.9	45.3	73.8	59.5	61.0
Overall Mean		62.8	48.0	75.3	61.7	62.1

Table 19. Summary of 3-Year Yield for Maturity Group V Liberty Link for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Brooksville nonirr.	Falkner nonirr.	Nonirrigated avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Credenz	CZ 5150 LL	68.2	46.3	73.4	59.9	62.6
Credenz	CZ 5242 LL	67.0	45.5	70.5	58.0	61.0
Overall Mean		67.6	45.9	72.0	58.9	61.8

Table 20. Summary of Yield for Maturity Group IV Conventional for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Longwood irr. (Delta)	Brooksville nonirr. (Hills)	Overall avg.
		bu/A	*bu/A*	*bu/A*
Go Soy	483.C	66.7	48.9	57.8
Go Soy	Irene	75.5	48.9	62.2
USG	Ellis	69.8	47.1	58.5
University of Missouri	S12-2418 *	57.2	58.9	58.0
University of Missouri	S12-3782 *	59.7	43.5	51.6
University of Missouri	S12-3791 *	46.0	45.9	46.0
Mean		62.5	48.9	55.7
LSD		4	6.5	
Error df		10	10	
CV		4.4	9	
R^2		95.9	79	

[1]Variety followed by an asterisk indicates an experimental entry.

Table 21. Summary of 2-Year Yield for Maturity Group IV Conventional for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Brooksville nonirr.
		bu/A
Go Soy	Irene	45.1
USG	Ellis	44.3
University of Missouri	S12-3791 *	35.2
Overall Mean		41.5

[1]Variety followed by an asterisk indicates an experimental entry.

Table 22. Summary of the 3-Year Yield for the Maturity Group IV Conventional for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Brooksville nonirr.
		bu/A
USG	Ellis	47.4
Overall Mean		47.4

Table 23. Summary of Yield for Group V Conventional for the 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Longwood irr. (Delta)	Brooksville nonirr. (Hills)	Overall avg.
		bu/A	*bu/A*	*bu/A*
Go Soy	Leland	68.7	59.8	64.3
University of Arkansas	Osage	67.7	65.5	66.6
University of Arkansas	R09-430 *	61.8	52.3	57.0
University of Arkansas	R10-230 *	66.5	58.3	62.4
University of Arkansas	UA 5014C	54.6	50.2	52.4
University of Arkansas	UA 5814	51.9	48.8	50.3
University of Arkansas	UA5213C	50.0	51.1	50.5
University of Arkansas	UA5612	69.3	57.9	63.6
University of Missouri	S11-17025 *	70.3	57.7	64.0
University of Missouri	S11-20214 *	68.8	54.9	61.9
University of Missouri	S12-4718 *	74.9	59.1	67.0
USDA-ARS	JTN-5110 *	54.5	46.2	50.4
Mean		63.3	55.2	59.2
LSD		8.4	8.3	
Error df		22	22	
CV		9.4	10.7	
R^2		76.1	70	

[1]Variety followed by an asterisk indicates an experimental entry.

Table 24. Summary of 2-Year Yield for Maturity Group V Conventional for the 2015 and 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Brooksville nonirr.	Overall avg.
		bu/A	*bu/A*
Go Soy	Leland	53.0	53.0
University of Arkansas	Osage	48.8	48.8
University of Arkansas	R09-430 *	49.1	49.1
University of Arkansas	R10-230 *	50.3	50.3
University of Arkansas	UA5213C	47.0	47.0
University of Arkansas	UA5612	53.3	53.3
University of Missouri	S11-17025 *	54.9	54.9
USDA-ARS	JTN-5110 *	49.6	49.6
Overall Mean		50.7	50.7

[1]Variety followed by an asterisk indicates an experimental entry.

Table 25. Summary of 3-Year Yield for Maturity Group V Conventional for the 2014, 2015, and 2016 Mississippi Soybean Variety Trials.

Brand	Variety[1]	Brooksville nonirr.	Overall avg.
		bu/A	*bu/A*
Go Soy	Leland	52.1	52.1
University of Arkansas	Osage	47.4	47.4
University of Arkansas	R09-430 *	50.5	50.5
University of Arkansas	UA5213C	47.5	47.5
University of Arkansas	UA5612	52.3	52.3
USDA-ARS	JTN-5110 *	52.0	52.0
Overall Mean		50.3	50.3

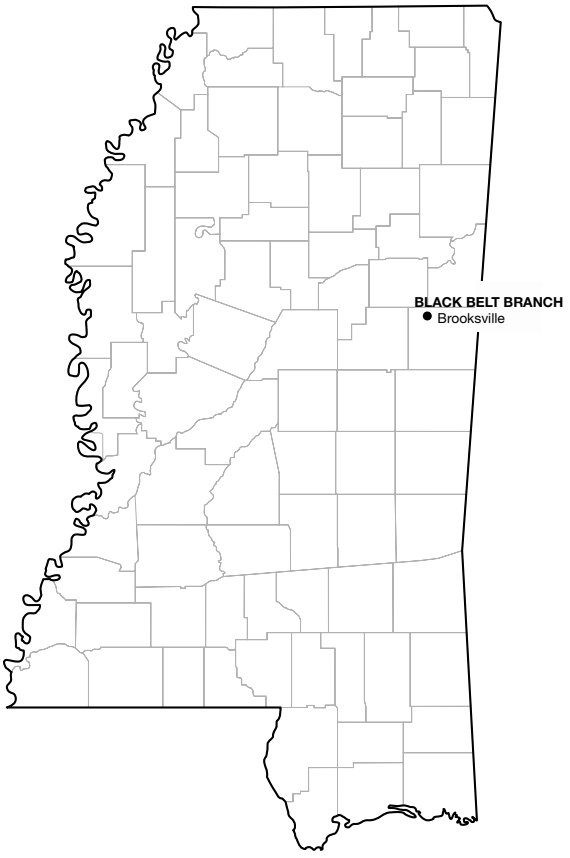
[1]Variety followed by an asterisk indicates an experimental entry.

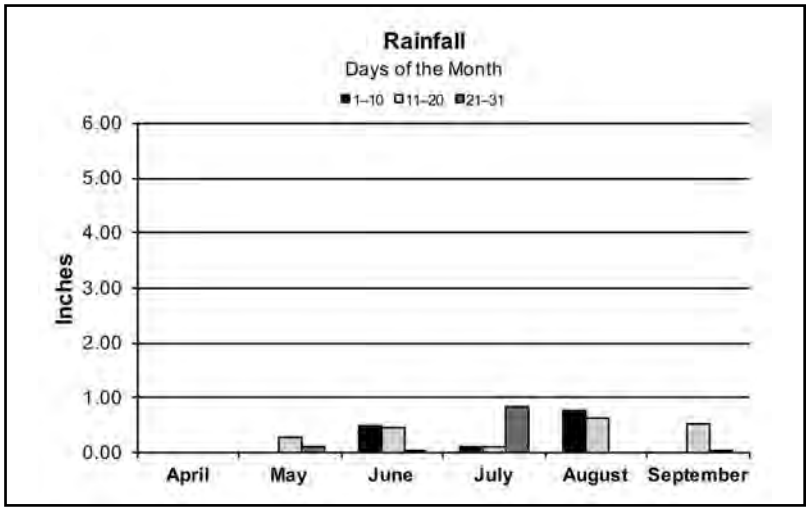
BROOKSVILLE, BLACK BELT BRANCH

Crop Summary

The soybean plots were planted into a freshly tilled seedbed. Moisture at planting was adequate for germination. All plots quickly emerged to a stand. Rainfall was limited, and temperatures were high during the growing season. A few timely rains supplied enough soil moisture to achieve respectable yield at this location. A warm, dry fall allowed for a timely harvest without difficulties.

Planting date ..... **May 9**
Harvest date ..... **IV Conventional and IV Liberty Link on September 16; IV Early and IV Late Roundup Ready, V Liberty Link, and V Conventional on September 26; and V Early and V Late Roundup Ready on September 27**
Soil type ..... **Brooksville silty clay**
Soil pH **6.2**
Soil fertility ..... **P=H, K=M**
Previous crop ..... **Corn**
Herbicide applications .... **Preemergence — Authority MTZ @ 12 oz/A and Dual II Magnum @ 32 oz/A on May 9**
Postemergence — Roundup Ready – Roundup PowerMAX @ 32 oz/A, FirstRate @ 0.6 oz/A, and Dual II Magnum @ 22 oz/A on June 27
Liberty Link – Liberty @ 30 oz/A, FirstRate @ 0.6 oz/A, and Dual II Magnum @ 22 oz/A on June 27
Conventional – Select @ 12 oz/A, FirstRate @ 0.6 oz/A, and Dual II Magnum @ 22 oz/A on June 24
Fertilizer added ..... **Preplant – 0-0-60 @ 200 lb/A (fall applied)**





Rainfall Summary

	Inches
April	0.00
May	0.39
June	0.95
July	1.01
August	1.38
September	0.58
Total	4.31

Table 26. Roundup Ready Maturity Group IV Early Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Mycogen	5N452R2	54.7	46.2	50.7	9/10	30	1
Credenz	CZ 4656 RY	54.4	—	—	9/11	25	1
Dyna-Gro	31RY45	52.0	45.0	50.1	9/10	28	1
Delta Grow	DG 4680RR2	51.5	—	—	9/12	30	1
Delta Grow	4670RR2	51.3	45.5	47.8	9/10	32	1
AGS	GS45R216	50.9	—	—	9/12	33	1
Dyna-Gro	S43RY95	50.9	43.5	48.1	9/10	29	1
NK	S45-W9	50.8	—	—	9/9	23	1
Dyna-Gro	S45XS66	50.8	—	—	9/11	22	1
Asgrow	AG44X6	50.4	—	—	9/11	28	1
Credenz	CZ 4590 RY	49.3	45.2	—	9/9	31	1
Progeny	P 4516RXS	48.7	—	—	9/13	30	1
Armor	46-D08	48.1	—	—	9/16	33	1
Great Heart Seed	GT-4540XS	47.9	—	—	9/14	30	1
Asgrow	AG46X7	46.8	—	—	9/14	28	1
Asgrow	AG46X6	46.1	—	—	9/13	30	1
Great Heart Seed	GT-4430XS	46.0	—	—	9/11	30	1
Progeny	P 4588RY	45.9	—	—	9/8	27	1
Mycogen	5N433R2	45.6	40.0	—	9/10	30	1
REV	45A46 *	45.2	—	—	9/13	30	1
Mycogen	5N414R2	45.1	—	—	9/9	30	1
Progeny	P 4620RXS	45.0	—	—	9/15	29	1
Pioneer	P41T33R	44.7	—	—	9/11	28	1
Asgrow	AG42X6	44.7	—	—	9/9	25	1
Asgrow	AG45X6	44.2	—	—	9/11	28	1
Asgrow	AG4632	43.5	40.2	45.7	9/14	29	1
Progeny	P 4613RYS	42.8	37.8	44.2	9/9	26	1
Mycogen	5N424R2	42.7	—	—	9/8	26	1
NK	S42-P6	42.7	—	—	9/9	27	1
Credenz	CZ 4181 RY	41.7	—	—	9/7	27	1
NK	S39-T3	41.3	—	—	8/31	20	1
Progeny	P 4211RY	37.4	32.7	38.5	9/10	24	1
NK	S39-C4	31.7	—	—	8/30	24	1
Mean		46.5					
LSD		5.5					
Error df		64					
CV		8.6					
R^2		72.6					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 27. Roundup Ready Maturity Group IV Late Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
AGS	GS47R216	59.8	—	—	9/16	30	1
USG	7487XTS *	52.7	—	—	9/14	37	1
Dixie Bell	DB 4911	51.5	—	—	9/19	27	1
Armor	ARX4906 *	51.4	—	—	9/11	30	1
USG	7497XT *	50.3	—	—	9/16	30	1
NK	S47-K5	50.3	43.9	49.0	9/18	24	1
AGS	GS48R216	50.0	—	—	9/17	22	1
Dixie Bell	DB 4965	49.4	—	—	9/14	28	1
Dyna-Gro	S48RS53	49.1	50.6	51.8	9/17	34	1
Armor	47-R70	49.0	—	—	9/11	32	1
Armor	ARX4706 *	48.7	—	—	9/17	30	1
Delta Grow	DGX 4845RR2	48.2	—	—	9/18	27	1
Progeny	P 4757RY	48.1	45.3	—	9/14	35	1
REV	48A26 *	47.1	—	—	9/18	29	1
AGS	GS4915R2	47.0	—	—	9/15	32	1
Go Soy	4814GTS	46.9	—	—	9/19	32	1
Croplan	R2C4775	46.8	—	—	9/18	27	1
Dyna-Gro	S49XT07	46.7	—	—	9/14	26	1
USG	74K95RS	46.6	48.0	—	9/16	31	1
Armor	49-D66	46.5	—	—	9/11	27	1
USG	7496XTS	46.5	—	—	9/14	26	1
Mycogen	5N480R2	46.1	—	—	9/15	30	1
Progeny	P 4788RY	46.1	46.7	50.1	9/14	32	1
Mycogen	5N490R2	45.7	42.9	49.3	9/17	24	1
Progeny	P 4944RX	45.2	—	—	9/14	28	1
Go Soy	49G16	45.2	—	—	9/20	24	1
Delta Grow	DG 4825 RR2/STS	45.2	43.7	45.5	9/16	23	1
Armor	48-D80	44.9	—	—	9/12	34	1
Asgrow	AG48X7	44.9	—	—	9/16	36	1
Great Heart Seed	GT-477CR2	44.6	44.1	—	9/13	25	1
Croplan	R2C4700S	44.4	—	—	9/17	32	1
Pioneer	P47T89R	44.3	—	—	9/13	32	1
REV	49A75	44.2	50.1	—	9/18	33	1
Dyna-Gro	S48XT56	44.2	—	—	9/20	26	1
Progeny	P 4900RY	44.0	42.0	46.1	9/17	28	1
REV	48A76 *	43.6	—	—	9/12	31	1
Progeny	P 4799RXS	43.5	—	—	9/14	36	1
Armor	47-D17	42.8	—	—	9/17	24	1
Great Heart Seed	GT-4860X	42.8	—	—	9/21	25	1
Delta Grow	DG 4790RR2	42.7	45.7	—	9/10	27	1
Progeny	P 4816RX	42.7	—	—	9/18	26	1
Pioneer	P47T36R	42.1	—	—	9/13	28	1
Asgrow	AG47X6	42.0	—	—	9/17	32	1
Credenz	CZ 4959 RY	41.9	38.3	—	9/20	24	1
Asgrow	AG49X6	41.8	—	—	9/18	30	1
REV	49R94	41.6	42.8	47.4	9/19	25	1
Great Heart Seed	GT-476CR2	41.6	38.8	45.6	9/14	27	1
Armor	48-D24	40.9	—	—	9/20	25	1
Delta Grow	DG 4970RR	40.8	43.2	45.2	9/17	30	1
Credenz	CZ 4898 RY	40.7	—	—	9/12	24	1
Delta Grow	DG 4995 RR	40.5	43.0	—	9/14	22	1
Dixie Bell	DB 4787	40.4	—	—	9/14	20	1
NK	S49-B1	40.4	—	—	9/10	29	1
REV	47R34	40.2	43.8	51.1	9/8	32	1
Delta Grow	DG 4880RR	36.2	34.5	38.2	9/17	26	1
Mean		45.2					
LSD		6.6					
Error df		110					
CV		10.8					
R^2		50.3					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 28. Roundup Ready Maturity Group V Early Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Delta Grow	DG 5625RR2	53.1	43.7	—	9/19	30	1
Progeny	P 5226RYS	52.7	50.1	—	9/23	33	1
Dyna-Gro	S52RY75	52.6	50.4	53.4	9/18	23	1
Delta Grow	DG 5580RR2	52.4	—	—	9/18	26	1
U. of Arkansas	R10-197RY *	52.1	51.3	51.1	9/19	25	1
Asgrow	AG53X6	51.9	—	—	9/16	18	1
Pioneer	P52T50R	50.3	—	—	9/14	24	1
Croplan	R2C5265	50.0	—	—	9/18	28	1
NK	S55-Q3	49.9	50.4	53.1	9/19	24	1
USG	7506XTS	49.9	—	—	9/18	31	1
Delta Grow	DG 5170 RR2/STS	49.6	51.9	—	9/22	30	1
Mycogen	5N523R2	48.7	—	—	9/20	35	1
Delta Grow	DG 5230 RR2	48.0	43.0	48.6	9/14	22	1
Croplan	R2C5225S	47.8	—	—	9/21	29	1
U. of Arkansas	R101-89RY *	46.8	37.4	—	9/20	20	1
U. of Arkansas	UA 5414RR	46.4	32.4	—	9/17	24	1
REV	52A94	46.3	45.3	46.9	9/18	30	1
Armor	ARX5506 *	46.0	—	—	9/17	28	1
Progeny	P 5555RY	45.7	38.5	43.8	9/19	23	1
Progeny	P 5417RX	45.4	—	—	9/19	20	1
USG	7547XT *	44.5	—	—	9/17	28	1
Delta Grow	DG 5555RR	44.2	—	—	9/19	27	1
Progeny	P 5631RX	43.9	—	—	9/25	31	1
USG	7536XT *	43.8	—	—	9/16	24	1
Progeny	P 5016RXS	43.6	—	—	9/17	27	1
USG	7557XT *	43.3	—	—	9/14	31	1
Asgrow	AG54X6	43.2	—	—	9/26	31	1
REV	56R93	43.2	—	—	9/19	30	1
Armor	55-R68	42.8	—	—	9/17	24	1
Dyna-Gro	S56RY84	42.5	39.0	43.2	9/21	28	1
Armor	53-D04	42.3	—	—	9/18	22	1
REV	51A56	42.2	53.1	—	9/21	32	1
NK	S56-M8	41.4	—	—	9/24	29	1
GoSoy	5214GTS	40.9	—	—	9/17	32	1
Pioneer	P55T81R	40.1	—	—	9/16	33	1
Credenz	CZ 5375 RY	36.2	—	—	9/21	22	1
Mean		46.2					
LSD		6.6					
Error df		70					
CV		10.5					
R^2		57.5					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 29. Roundup Ready Maturity Group V Late Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Dyna-Gro	S57RY26	52.1	46.4	—	9/25	26	1
USG	75B75R	50.6	47.4	—	9/25	24	1
Progeny	P 5752RY	50.4	42.7	—	9/25	26	1
REV	57R21	44.8	44.0	46.3	9/23	28	1
NK	S58-Z4	42.0	38.5	—	9/24	24	1
U. of Arkansas	R07-6614RR *	35.1	—	—	9/25	25	1
USG	7576XT *	26.0	—	—	9/24	28	1
Progeny	P 5768RX	25.3	—	—	9/25	26	1
Mean		40.8					
LSD		6.4					
Error df		14					
CV		11.0					
R^2		89.9					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 30. Maturity Group IV Liberty Link Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Credenz	CZ 4818 LL	61.3	52.8	—	9/11	35	1
Go Soy	4913LL	57.8	—	—	9/12	32	1
Dyna-Gro	S49LL34	57.8	59.5	55.1	9/13	30	1
Hornbeck	HBK LL 4953	56.9	55.0	52.2	9/12	30	1
Progeny	P 4814LLS	56.8	51.9	—	9/12	34	1
Progeny	P 4930LL	55.8	53.1	52.0	9/14	29	1
Delta Grow	DG 4977LL/STS	55.5	53.6	—	9/13	35	1
Go Soy	4714LL	55.3	51.0	—	9/13	26	1
Credenz	CZ 4748 LL	54.7	51.6	—	9/13	29	1
Go Soy	4912LL	53.9	—	—	9/15	31	1
Delta Grow	DG 4967LL	52.1	57.2	53.8	9/14	30	1
Credenz	CZ 4540 LL	50.0	46.2	—	9/14	28	1
Delta Grow	DG 4781LL	48.3	48.1	—	9/9	29	1
REV	48L63 *	47.8	—	—	9/14	29	1
Delta Grow	DG 4587LL/STS	47.3	—	—	9/14	26	1
Progeny	P 4247LL	44.6	—	—	9/6	25	1
REV	49L49	44.1	—	—	9/11	30	1
Credenz	CZ 4222 LL	41.3	—	—	9/3	18	1
Credenz	CZ 4044 LL	35.2	—	—	9/1	23	1
Credenz	CZ 4105 LL	30.0	26.0	—	9/1	22	1
Mean		50.3					
LSD		4.9					
Error df		38					
CV		7.1					
R^2		91					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 31. Maturity Group V Liberty Link Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Credenz	CZ 5225 LL	53.6	—	—	9/12	22	1
Go Soy	5115LL	53.1	51.5	—	9/14	30	1
Credenz	CZ 5445 LL	53.0	52.4	—	9/14	29	1
Credenz	CZ 5242 LL	52.4	50.4	45.5	9/14	29	1
Dyna-Gro	S52LL66	51.7	47.8	—	9/10	28	1
Credenz	CZ 5150 LL	51.2	51.1	46.3	9/13	27	1
Credenz	CZ 5147 LL	50.9	44.9	—	9/17	18	1
Delta Grow	DG 5067LL	50.4	48.8	—	9/13	36	1
Go Soy	5515LL	50.1	45.3	—	9/17	29	1
Dyna-Gro	S55LS75	49.9	45.3	—	9/17	27	1
Go Soy	5215LL	49.4	46.0	—	9/14	32	1
Credenz	CZ 5515 LL	45.7	45.1	—	9/23	40	1
Mean		50.9					
LSD		6.5					
Error df		22					
CV		9.1					
R^2		36.5					

Table 32. Maturity Group IV Conventional Nonirrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
U. of Missouri	S12-2418 *	58.9	—	—	9/12	32	1
Go Soy	483.C	48.9	—	—	9/13	34	1
Go Soy	Irene	48.9	45.1	—	9/13	18	1
USG	Ellis	47.1	44.3	47.4	9/15	14	1
U. of Missouri	S12-3791 *	45.9	35.2	—	9/7	27	1
U. of Missouri	S12-3782 *	43.5	—	—	9/12	27	1
Mean		48.9					
LSD		6.5					
Error df		10					
CV		9					
R^2		79					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 33. Maturity Group V Conventional Irrigated Soybean (Black Belt Branch Station, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
U. of Arkansas	Osage	65.5	48.8	47.4	9/15	27	1
Go Soy	Leland	59.8	53.0	52.1	9/14	27	1
U. of Missouri	S12-4718 *	59.1	—	—	9/15	18	1
U. of Arkansas	R10-230 *	58.3	50.3	—	9/17	25	1
U. of Arkansas	UA5612	57.9	53.3	52.3	9/15	28	1
U. of Missouri	S11-17025 *	57.7	54.9	—	9/4	24	1
U. of Missouri	S11-20214 *	54.9	—	—	9/12	30	1
U. of Arkansas	R09-430 *	52.3	49.1	50.5	9/15	20	1
U. of Arkansas	UA5213C	51.1	47.0	47.5	9/13	24	1
U. of Arkansas	UA 5014C	50.2	—	—	9/17	23	1
U. of Arkansas	UA 5814	48.8	—	—	9/18	29	1
USDA-ARS	JTN-5110 *	46.2	49.6	52.0	9/12	20	1
Mean		55.2					
LSD		8.3					
Error df		22					
CV		10.7					
R^2		70					

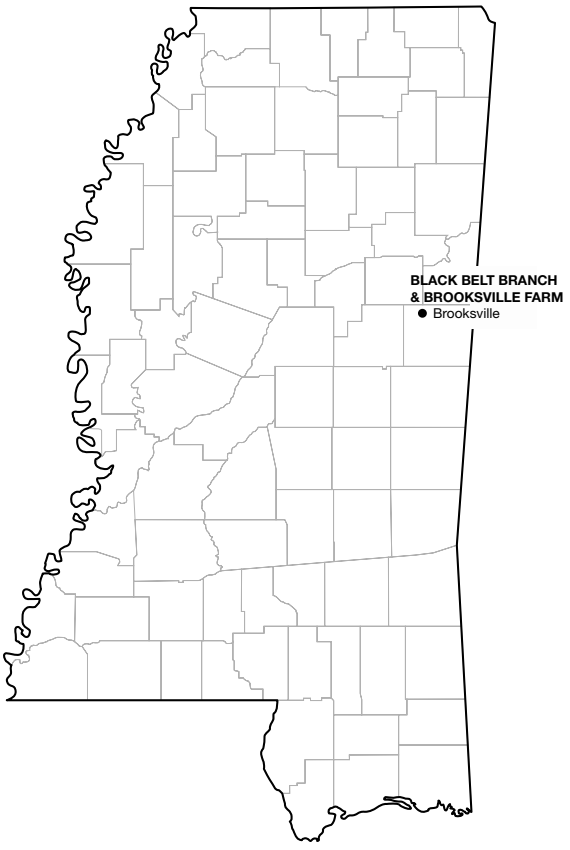
[1]Variety followed by an asterisk indicates an experimental entry.

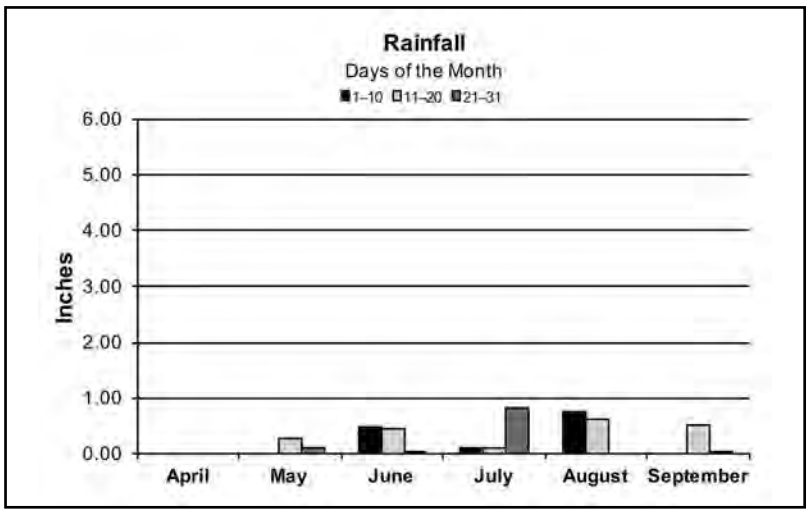
BROOKSVILLE, BROOKSVILLE FARM

Crop Summary

A very warm May allowed for a good root system development. June and July were somewhat stressful due to high temperatures and lack of consistent rainfall. Harvest conditions were great. Harvest was completed in a timely manner, and good yield was observed at this location.

Planting date . . . . . **April 30**
Harvest date . . . . . **IV Early Roundup Ready on September 16; IV Late Roundup Ready, IV Liberty Link on September 25; V Early, V Late Roundup Ready, IV Conventional on October 1; and V Liberty Link, V Conventional on October 8**
Soil type . . . . . **Brooksville silty clay**
Soil pH **6.2**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Corn**
Fertilizer added . . . . . **Poultry litter @ 2 tons/A, K @ 70 lb/A, and Boron @ 6 lb/A**
Herbicide applications . . . . **Preplant — Roundup @ 26 oz/A, Leadoff @ 1.5 oz/A, and Barrage @ 12.8 oz/A on March 16**
Preemergence — Authority MTZ @ 12 oz/A and Dual II Magnum @ 24 oz/A on April 25
Postemergence — Roundup @ 26 oz/A on May 16; Roundup @ 26 oz/A and Prefix @ 32 oz/A on May 30
Roundup Ready – Roundup PowerMAX @ 32 oz/A and FirstRate @ 0.6 oz/A on June 26
Liberty Link – Liberty @ 30 oz/A and FirstRate @ 0.6 oz/A on June 26
Conventional – Select @ 12 oz/A and FirstRate @ 0.6 oz/A on June 26
Fungicide/Insecticide . . . . . **Brigade @ 3.2 oz/A on July 12; Stratego YLD @ 4 oz/A on July 12**
Irrigations dates . . . . . **0.4" on May 31, 0.75" on June 25, 0.8" on July 6, 0.8" on July 17, 0.6" on August 5**





Rainfall Summary

	Inches
April	0.00
May	0.39
June	0.95
July	1.01
August	1.38
September	0.58
Total	4.31

Table 34. Roundup Ready Maturity Group IV Early Irrigated Soybean (Brooksville Farm, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Mycogen	5N433R2	87.7	—	—	9/8	42	1
REV	45A46 *	86.5	—	—	9/9	37	1
AGS	GS45R216	84.2	—	—	9/11	35	1
Progeny	P 4613RYS	84.1	—	—	9/10	38	1
Pioneer	P41T33R	81.6	—	—	9/11	36	1
Mycogen	5N414R2	81.6	—	—	9/7	39	1
Dyna-Gro	S43RY95	81.4	—	—	9/9	36	1
Mycogen	5N424R2	79.8	—	—	9/8	31	1
Credenz	CZ 4590 RY	79.7	—	—	9/11	41	1
Asgrow	AG4632	79.6	—	—	9/10	31	1
Mycogen	5N452R2	79.3	—	—	9/9	38	1
Delta Grow	DG 4680RR2	79.1	—	—	9/11	41	1
NK	S45-W9	78.8	—	—	9/9	38	1
Dyna-Gro	31RY45	78.4	—	—	9/9	38	1
NK	S39-C4	78.2	—	—	9/4	35	1
NK	S39-T3	77.2	—	—	9/7	27	1
NK	S42-P6	76.7	—	—	9/7	38	1
Delta Grow	4670RR2	76.6	—	—	9/11	35	1
Credenz	CZ 4181 RY	73.5	—	—	9/6	32	1
Credenz	CZ 4656 RY	70.9	—	—	9/6	37	1
Progeny	P 4588RY	65.5	—	—	9/8	34	1
Progeny	P 4211RY	51.9	—	—	9/5	41	1
Mean		77.8					
LSD		7.2					
Error df		42					
CV		6.7					
R^2		76.9					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

Table 35. Roundup Ready Maturity Group IV Late Irrigated Soybean (Brooksville Farm, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	47R34	88.8	—	—	9/8	40	1
NK	S49-B1	86.8	—	—	9/9	36	1
Pioneer	P47T36R	84.4	—	—	9/8	34	1
Great Heart Seed	GT-477CR2	83.5	—	—	9/13	40	1
Armor	47-R70	83.3	—	—	9/12	38	1
AGS	GS47R216	83.3	—	—	9/10	39	1
REV	48A76 *	82.8	—	—	9/10	32	1
Progeny	P 4900RY	82.0	—	—	9/12	30	1
Progeny	P 4788RY	81.7	—	—	9/11	37	1
REV	49R94	81.6	—	—	9/12	36	1
Progeny	P 4757RY	81.3	—	—	9/11	36	1
REV	48A26 *	81.3	—	—	9/11	37	1
REV	49A75	81.2	—	—	9/13	34	1
Great Heart Seed	GT-476CR2	80.8	—	—	9/9	34	1
Delta Grow	DG 4790RR2	80.7	—	—	9/12	35	1
Croplan	R2C4700S	79.0	—	—	9/10	35	1
Go Soy	4814GTS	78.4	—	—	9/12	45	1
Mycogen	5N490R2	77.9	—	—	9/10	35	1
Dixie Bell	DB 4965	77.6	—	—	9/12	36	1
Croplan	R2C4775	77.2	—	—	9/12	35	1
Delta Grow	DG 4880RR	76.7	—	—	9/11	31	1
NK	S47-K5	76.3	—	—	9/9	31	1
Dyna-Gro	S48RS53	73.9	—	—	9/6	42	1
Delta Grow	DG 4825 RR2/STS	73.0	—	—	9/10	32	1
Pioneer	P47T89R	72.3	—	—	9/9	35	1
AGS	GS4915R2	70.6	—	—	9/6	38	1
Credenz	CZ 4959 RY	70.3	—	—	9/12	37	1
Delta Grow	DG 4995 RR	69.0	—	—	9/13	29	1
USG	74K95RS	68.9	—	—	9/7	41	1
Credenz	CZ 4898 RY	68.7	—	—	9/6	42	1
Mycogen	5N480R2	68.7	—	—	9/9	40	1
AGS	GS48R216	67.1	—	—	9/11	33	1
Dixie Bell	DB 4787	66.5	—	—	9/7	29	1
Delta Grow	DG 4970RR	65.5	—	—	9/11	36	1
Go Soy	49G16	65.5	—	—	9/12	39	1
Dixie Bell	DB 4911	61.0	—	—	9/9	38	1
Mean		76.3					
LSD		6.7					
Error df		70					
CV		6.5					
R^2		74.9					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

Table 36. Roundup Ready Maturity Group V Early Irrigated Soybean (Brooksville Farm, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Croplan	R2C5265	78.5	—	—	9/4	39	1
Mycogen	5N523R2	77.2	—	—	9/16	36	1
Armor	55-R68	75.6	—	—	9/22	32	1
Delta Grow	DG 5170 RR2/STS	75.0	—	—	9/12	33	1
REV	51A56	75.0	—	—	9/23	36	1
Delta Grow	DG 5230 RR2	74.8	—	—	9/21	35	1
Progeny	P 5226RYS	74.7	—	—	9/20	37	1
Croplan	R2C5225S	74.1	—	—	9/20	33	1
REV	52A94	73.2	—	—	9/13	34	1
Pioneer	P52T50R	73.0	—	—	9/12	35	1
Dyna-Gro	S52RY75	72.8	—	—	9/23	42	1
GoSoy	5214GTS	71.7	—	—	9/22	26	1
NK	S55-Q3	71.2	—	—	9/22	34	1
Delta Grow	DG 5580RR2	71.2	—	—	9/20	38	1
Progeny	P 5555RY	70.9	—	—	9/24	44	1
Delta Grow	DG 5625RR2	70.6	—	—	9/23	33	1
Delta Grow	DG 5555RR	69.2	—	—	9/17	35	1
U. of Arkansas	R101-89RY *	68.5	—	—	9/22	39	1
U. of Arkansas	R10-197RY *	67.9	—	—	9/11	31	1
NK	S56-M8	67.5	—	—	9/16	33	1
U. of Arkansas	UA 5414RR	67.3	—	—	9/25	41	1
Dyna-Gro	S56RY84	67.1	—	—	9/20	35	1
Pioneer	P55T81R	67.0	—	—	9/22	40	1
REV	56R93	63.0	—	—	9/11	36	1
Credenz	CZ 5375 RY	59.5	—	—	9/23	37	1
Mean		71.1					
LSD		5.6					
Error df		48					
CV		5.7					
R^2		65.1					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

Table 37. Roundup Ready Maturity Group IV Late Irrigated Soybean (Brooksville Farm, Brooksville).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Dyna-Gro	S57RY26	76.7	—	—	9/23	35	1
USG	75B75R	74.8	—	—	9/20	36	1
Progeny	P 5752RY	71.4	—	—	9/21	34	1
REV	57R21	64.5	—	—	9/20	40	1
U. of Arkansas	R07-6614RR *	58.2	—	—	9/23	33	1
NK	S58-Z4	56.0	—	—	9/25	34	1
Mean		66.9					
LSD		6.8					
Error df		10					
CV		6.9					
R^2		84.6					

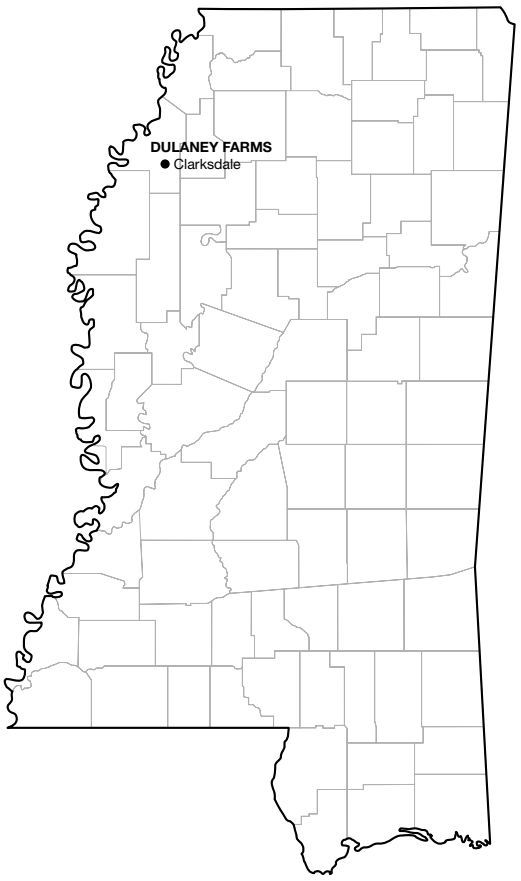
[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

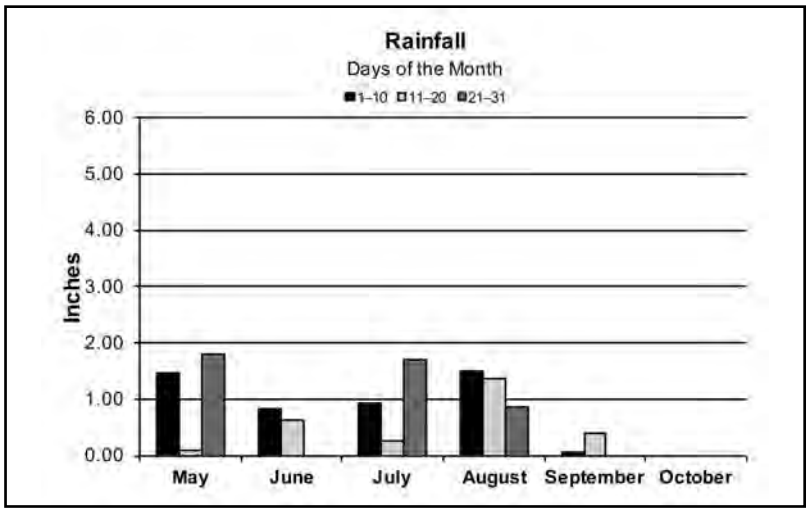
CLARKSDALE IRRIGATED, DULANEY FARMS

Crop Summary

The plots were planted into a stale seedbed with good soil moisture for germination. All plots quickly emerged to a stand. Furrow irrigation ensured adequate soil moisture throughout the growing season. Harvest was completed in a timely manner.

Planting date ..... **May 9**
Harvest date ..... **IV Early & IV Late Roundup Ready on September 22; V Early & V Late Roundup Ready on October 4**
Soil type ..... **Sharkey clay**
Soil pH **6.3**
Soil fertility ..... **P=M, K=H**
Previous crop ..... **Soybean**
Herbicide applications .... **Preemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 32 oz/A, and Roundup PowerMAX @ 32 oz/A**
Postemergence — Roundup PowerMAX @ 32 oz/A, Select @ 12 oz/A, and Resource @ 12 oz/A on June 10
Irrigation dates ..... **Furrow irrigated as needed**





Rainfall Summary

	Inches
May	3.38
June	1.46
July	2.88
August	3.72
September	0.44
October	0.00
Total	11.88

Table 38. Roundup Ready Maturity Group IV Early Irrigated Soybean (Dulaney Farms, Coahoma County).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
NK	S45-W9	77.5	—	—	9/18	27	1
Progeny	P 4211RY	74.7	75.2	72.9	9/19	32	1
Delta Grow	DG 4680RR2	72.6	—	—	9/18	38	1
AGS	GS45R216	70.0	—	—	9/19	37	1
Delta Grow	4670RR2	69.3	74.2	75.9	9/18	31	1
Dyna-Gro	31RY45	69.0	75.9	78.8	9/18	39	1
Mycogen	5N433R2	68.7	72.8	—	9/22	37	1
Progeny	P 4613RYS	68.5	76.8	78.2	9/22	26	1
Pioneer	P41T33R	68.4	—	—	9/19	30	1
Dyna-Gro	S43RY95	68.4	72.5	73.8	9/19	38	1
NK	S42-P6	67.8	—	—	9/22	31	1
REV	45A46 *	67.7	—	—	9/18	31	1
Asgrow	AG4632	66.8	75.6	80.7	9/21	35	1
Credenz	CZ 4656 RY	65.3	—	—	9/18	42	1
Credenz	CZ 4181 RY	65.1	—	—	9/19	33	1
Progeny	P 4588RY	64.8	—	—	9/15	37	1
NK	S39-T3	62.5	—	—	9/22	24	1
Mycogen	5N414R2	62.5	—	—	9/22	33	1
Mycogen	5N452R2	62.0	72.8	77.1	9/22	33	1
Credenz	CZ 4590 RY	60.0	69.0	—	9/19	36	1
Mycogen	5N424R2	59.5	—	—	9/16	23	1
NK	S39-C4	52.8	—	—	9/19	23	1
Mean		66.6					
LSD		7.4					
Error df		42					
CV		8.1					
R^2		74.1					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 39. Roundup Ready Maturity Group IV Late Irrigated Soybean (Dulaney Farms, Coahoma County).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	48A76 *	82.4	—	—	9/19	37	1
Progeny	P 4900RY	81.4	83.0	81.2	9/22	28	1
REV	48A26 *	81.0	—	—	9/20	42	1
Armor	47-R70	80.8	—	—	9/20	38	1
Pioneer	P47T89R	79.7	—	—	9/20	35	1
NK	S47-K5	79.6	84.2	82.4	9/19	34	1
REV	49R94	79.1	83.7	79.5	9/20	36	1
Great Heart Seed	GT-477CR2	77.8	85.3	—	9/20	40	1
AGS	GS48R216	77.1	—	—	9/18	35	1
Progeny	P 4757RY	77.1	84.6	—	9/19	40	1
Progeny	P 4788RY	76.8	84.4	82.4	9/20	36	1
Pioneer	P47T36R	75.8	—	—	9/20	40	1
NK	S49-B1	74.0	—	—	9/20	40	1
Delta Grow	DG 4825 RR2/STS	74.0	73.2	71.7	9/22	31	1
REV	49A75	74.0	79.5	—	9/20	40	1
Croplan	R2C4700S	73.7	—	—	9/19	41	1
Delta Grow	DG 4970RR	73.6	76.0	74.9	9/22	42	1
Great Heart Seed	GT-476CR2	72.4	77.3	77.2	9/22	36	1
Delta Grow	DG 4790RR2	72.3	83.5	—	9/19	38	1
Mycogen	5N490R2	71.1	72.9	73.1	9/21	36	1
Croplan	R2C4775	70.8	—	—	9/22	36	1
REV	47R34	70.4	79.7	79.0	9/21	30	1
Credenz	CZ 4959 RY	69.6	72.0	—	9/20	39	1
Dixie Bell	DB 4911	66.8	—	—	9/20	33	1
Delta Grow	DG 4880RR	66.7	74.1	76.4	9/21	36	1
Go Soy	49G16	66.4	—	—	9/20	35	1
Dixie Bell	DB 4965	66.1	—	—	9/21	29	1
AGS	GS4915R2	65.5	—	—	9/15	35	1
Go Soy	4814GTS	64.5	—	—	9/20	40	1
Delta Grow	DG 4995 RR	64.1	64.7	—	9/21	28	1
Dyna-Gro	S48RS53	62.8	74.4	74.7	9/18	36	1
USG	74K95RS	61.3	72.2	—	9/21	41	1
Dixie Bell	DB 4787	61.1	—	—	9/19	28	1
AGS	GS47R216	59.6	—	—	9/21	38	1
Credenz	CZ 4898 RY	59.5	—	—	9/16	42	1
Mycogen	5N480R2	57.9	—	—	9/19	36	1
Mean		71.3					
LSD		7.5					
Error df		70					
CV		7.8					
R^2		72.5					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 40. Roundup Ready Maturity Group V Early Irrigated Soybean (Dulaney Farms, Coahoma County).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	51A56	75.4	73.5	—	9/20	38	1
Delta Grow	DG 5170 RR2/STS	73.5	78.8	—	9/26	39	1
Mycogen	5N523R2	72.8	—	—	9/27	42	1
Croplan	R2C5225S	71.7	—	—	9/25	45	1
Progeny	P 5226RYS	71.0	75.9	—	9/26	42	1
U. of Arkansas	R10-197RY *	70.8	72.4	72.6	9/23	33	1
Armor	55-R68	68.8	—	—	9/26	28	1
Delta Grow	DG 5580RR2	68.5	—	—	9/24	31	1
Credenz	CZ 5375 RY	68.0	—	—	9/24	33	1
Progeny	P 5555RY	67.1	77.5	80.3	9/26	33	1
U. of Arkansas	R101-89RY *	67.0	72.2	—	9/23	27	1
Dyna-Gro	S52RY75	66.9	76.1	77.2	9/22	35	1
REV	52A94	66.3	72.7	77.2	9/22	31	1
Pioneer	P52T50R	66.1	—	—	9/22	31	1
Dyna-Gro	S56RY84	65.6	73.0	73.5	9/26	37	1
GoSoy	5214GTS	65.4	—	—	9/23	36	1
Croplan	R2C5265	64.3	—	—	9/24	32	1
Delta Grow	DG 5625RR2	62.8	64.2	—	9/26	38	1
NK	S55-Q3	61.8	70.6	74.8	9/26	36	1
Delta Grow	DG 5230 RR2	60.7	67.7	69.5	9/23	33	1
Delta Grow	DG 5555RR	60.4	—	—	9/27	42	1
Pioneer	P55T81R	59.2	—	—	9/24	34	1
REV	56R93	58.2	—	—	9/24	36	1
U. of Arkansas	UA 5414RR	54.2	56.4	—	9/23	30	1
NK	S56-M8	48.1	—	—	9/29	31	1
Mean		65.4					
LSD		6.1					
Error df		48					
CV		6.8					
R^2		75.8					

[1]Variety followed by an asterisk indicates an experimental entry.

Table 41. Roundup Ready Maturity Group V Late Irrigated Soybean (Dulaney Farms, Coahoma County).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Progeny	P 5752RY	66.5	74.3	—	9/27	31	1
Dyna-Gro	S57RY26	64.0	71.7	—	9/27	32	1
REV	57R21	57.1	67.8	74.5	9/27	38	1
USG	75B75R	55.6	65.2	—	9/28	30	1
U. of Arkansas	R07-6614RR *	47.6	—	—	9/27	29	1
NK	S58-Z4	40.9	60.1	—	9/30	33	1
Mean		55.3					
LSD		6					
Error df		10					
CV		7.3					
R^2		90.1					

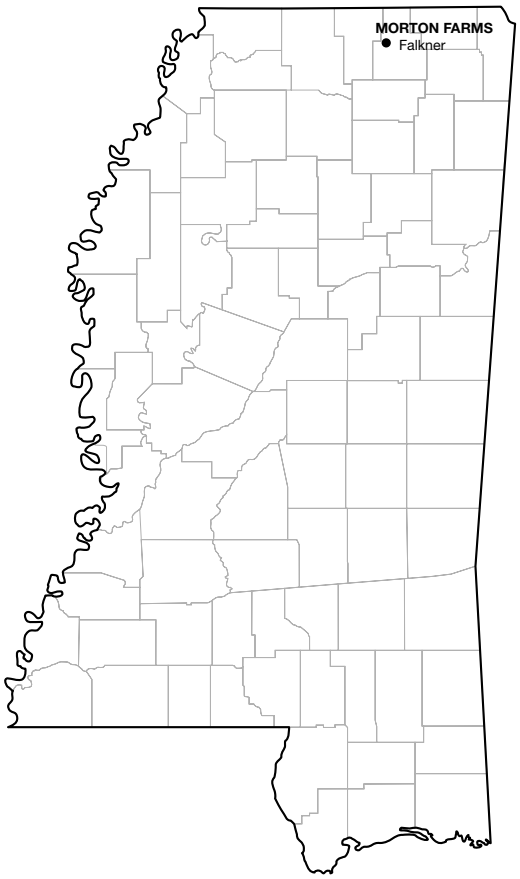
[1]Variety followed by an asterisk indicates an experimental entry.

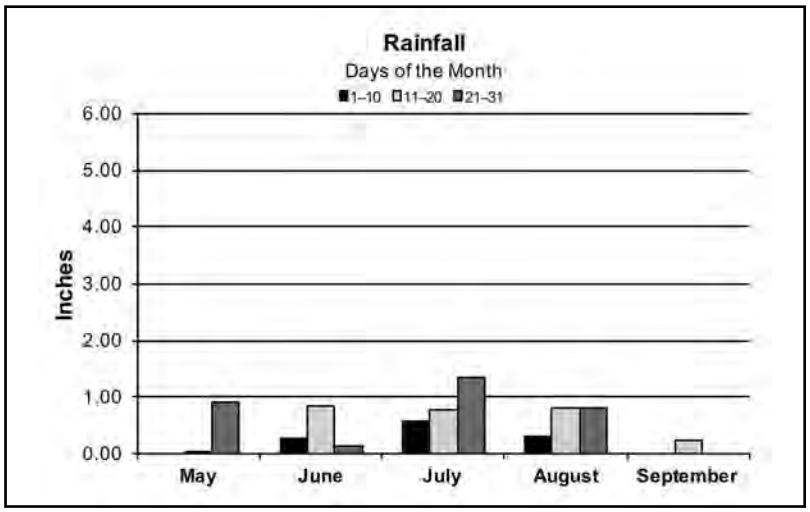
FALKNER, MORTON FARMS

Crop Summary

The soybean plots were planted no-till in early May into a seedbed with adequate moisture for germination. All plots quickly emerged to a good stand. Timely rains allowed for adequate soil moisture throughout most of the growing season. A warm, dry fall allowed all maturity groups to dry down quickly, allowing for an early harvest.

Planting date ..... **May 7**
Harvest date ..... **IV and V Roundup Ready and Liberty Link on September 23**
Soil type ..... **Bude silt loam**
Soil pH **6.1**
Soil fertility ..... **P=M, K=M**
Previous crop ..... **Soybean**
Fertilizer added ..... **0-46-0 @ 110 lb/A and 0-0-60 @ 190 lb/A (fall applied)**
Herbicide application ..... **Preplant – Gramoxone @ 3 pt/A, Valor @ 2 oz/A, and Dual II Magnum @ 1 pt/A**
Preemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 24 oz/A, and Gramoxone @ 32 oz/A on May 7
Postemergence — Roundup Ready – Roundup PowerMAX @ 32 oz/A, FirstRate @ 0.3 oz/A, and Select @ 12 oz/A on July 8
Liberty Link – Liberty @ 30 oz/A, FirstRate @ 0.3 oz/A, and Select @ 12 oz/A on July 8





Rainfall Summary

	Inches
May	0.95
June	1.25
July	2.69
August	1.92
September	0.23
Total	7.04

Table 42. Roundup Ready Maturity Group IV Early Nonirrigated Soybean (Morton Farms, Falkner).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	45A46 *	66.9	—	—	—	36	1
Credenz	CZ 4181 RY	65.4	—	—	—	36	1
Dyna-Gro	31RY45	64.3	86.0	83.5	—	36	1
NK	S42-P6	63.4	—	—	—	29	1
Mycogen	5N452R2	61.8	79.4	76.9	—	30	1
Credenz	CZ 4656 RY	61.8	—	—	—	36	1
Dyna-Gro	S43RY95	61.8	76.1	77.4	—	33	1
Delta Grow	DG 4680RR2	61.5	—	—	—	35	1
Progeny	P 4613RYS	61.4	81.0	74.8	—	35	1
Mycogen	5N414R2	61.2	—	—	—	30	1
NK	S39-T3	60.0	—	—	—	30	1
Asgrow	AG4632	59.5	86.3	82.5	—	36	1
AGS	GS45R216	59.2	—	—	—	34	1
Mycogen	5N433R2	57.6	73.1	—	—	29	1
Delta Grow	4670RR2	57.6	81.0	74.4	—	36	1
Progeny	P 4588RY	57.3	—	—	—	34	1
Pioneer	P41T33R	56.2	—	—	—	32	1
Credenz	CZ 4590 RY	54.9	72.3	—	—	37	1
Progeny	P 4211RY	54.8	73.4	71.8	—	27	1
Mycogen	5N424R2	54.2	—	—	—	25	1
NK	S45-W9	54.1	—	—	—	28	1
NK	S39-C4	51.6	—	—	—	26	1
Mean		59.4					
LSD		9.4					
Error df		42					
CV		11.6					
R^2		38.9					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 43. Roundup Ready Maturity Group IV Late Nonirrigated Soybean (Morton Farms, Falkner).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	48A26 *	68.8	—	—	—	36	1
Pioneer	P47T89R	67.6	—	—	—	38	1
Great Heart Seed	GT-477CR2	66.0	87.8	—	—	33	1
Armor	47-R70	64.9	—	—	—	36	1
REV	49R94	64.7	81.8	79.4	—	34	1
Progeny	P 4757RY	63.8	84.4	—	—	35	1
AGS	GS48R216	63.2	—	—	—	30	1
Croplan	R2C4775	61.8	—	—	—	37	1
REV	49A75	61.4	80.4	—	—	38	1
Go Soy	4814GTS	61.1	—	—	—	35	1
REV	47R34	60.9	85.9	81.9	—	30	1
NK	S47-K5	60.3	81.5	81.4	—	32	1
REV	48A76 *	60.3	—	—	—	35	1
Delta Grow	DG 4825 RR2/STS	60.3	76.8	74.7	—	32	1
Pioneer	P47T36R	59.6	—	—	—	31	1
AGS	GS47R216	59.5	—	—	—	35	1
NK	S49-B1	59.4	—	—	—	30	1
Great Heart Seed	GT-476CR2	59.1	82.4	79.8	—	37	1
Progeny	P 4788RY	58.8	82.7	80.4	—	36	1
Dixie Bell	DB 4965	58.5	—	—	—	32	1
Mycogen	5N490R2	58.2	77.3	80.5	—	33	1
Delta Grow	DG 4970RR	57.4	79.7	77.4	—	34	1
Progeny	P 4900RY	57.3	76.9	74.7	—	31	1
Croplan	R2C4700S	57.1	—	—	—	38	1
AGS	GS4915R2	56.5	—	—	—	35	1
Dixie Bell	DB 4911	56.2	—	—	—	34	1
Delta Grow	DG 4790RR2	56.1	81.4	—	—	34	1
Dyna-Gro	S48RS53	55.2	83.2	82.0	—	34	1
USG	74K95RS	55.1	84.3	—	—	40	1
Credenz	CZ 4898 RY	55.1	—	—	—	36	1
Delta Grow	DG 4880RR	55.0	76.6	76.9	—	34	1
Delta Grow	DG 4995 RR	53.4	73.2	—	—	35	1
Go Soy	49G16	53.1	—	—	—	35	1
Mycogen	5N480R2	51.6	—	—	—	39	1
Credenz	CZ 4959 RY	49.5	66.6	—	—	29	1
Dixie Bell	DB 4787	46.9	—	—	—	29	1
Mean		58.7					
LSD		7.2					
Error df		70					
CV		9					
R^2		57.1					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 44. Roundup Ready Maturity Group V Early Nonirrigated Soybean (Morton Farms, Falkner).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Croplan	R2C5225S	59.9	—	—	—	33	1
Armor	55-R68	57.7	—	—	—	31	1
Mycogen	5N523R2	56.2	—	—	—	35	1
Croplan	R2C5265	56.0	—	—	—	35	1
U. of Arkansas	UA 5414RR	55.5	73.5	—	—	32	1
Delta Grow	DG 5230 RR2	55.3	78.4	72.2	—	30	1
Progeny	P 5226RYS	55.0	67.8	—	—	37	1
NK	S55-Q3	54.6	81.7	77.8	—	37	1
Delta Grow	DG 5170 RR2/STS	54.6	73.5	—	—	34	1
REV	51A56	53.5	70.3	—	—	29	1
Dyna-Gro	S52RY75	53.3	79.7	75.2	—	35	1
Pioneer	P52T50R	52.6	—	—	—	32	1
U. of Arkansas	R10-197RY *	52.2	77.1	78.7	—	36	1
Credenz	CZ 5375 RY	51.1	—	—	—	33	1
Progeny	P 5555RY	51.0	77.7	73.0	—	34	1
REV	52A94	50.6	79.3	70.3	—	29	1
Pioneer	P55T81R	49.6	—	—	—	32	1
REV	56R93	49.6	—	—	—	34	1
GoSoy	5214GTS	49.4	—	—	—	38	1
NK	S56-M8	49.2	—	—	—	30	1
Delta Grow	DG 5580RR2	48.7	—	—	—	33	1
Dyna-Gro	S56RY84	47.8	80.6	78.0	—	35	1
Delta Grow	DG 5625RR2	47.3	71.7	—	—	34	1
Delta Grow	DG 5555RR	47.0	—	—	—	34	1
U. of Arkansas	R101-89RY *	45.1	65.7	—	—	32	1
Mean		52.1					
LSD		6.3					
Error df		48					
CV		8.8					
R^2		51.1					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 45. Roundup Ready Maturity Group V Late Nonirrigated Soybean (Morton Farms, Falkner).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Dyna-Gro	S57RY26	49.9	82.2	—	—	34	1
Progeny	P 5752RY	47.0	74.5	—	—	36	1
NK	S58-Z4	46.2	73.6	—	—	32	1
REV	57R21	45.8	73.2	82.3	—	30	1
USG	75B75R	44.1	78.9	—	—	31	1
U. of Arkansas	R07-6614RR *	39.0	—	—	—	35	1
Mean		45.3					
LSD		5.8					
Error df		10					
CV		8.6					
R^2		64.3					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 46. Maturity Group IV Liberty Link Nonirrigated Soybean (Morton Farms, Falkner).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Delta Grow	DG 4781LL	63.5	74.6	—	—	34	1
Credenz	CZ 4748 LL	62.3	72.1	—	—	32	1
Progeny	P 4814LLS	58.9	80.4	—	—	34	1
Credenz	CZ 4818 LL	58.3	65.4	—	—	36	1
Go Soy	4714LL	58.1	69.5	—	—	33	1
Dyna-Gro	S49LL34	57.9	88.3	82.0	—	33	1
REV	49L49	57.8	—	—	—	33	1
Credenz	CZ 4540 LL	56.2	73.8	—	—	40	1
Progeny	P 4247LL	56.1	—	—	—	28	1
Hornbeck	HBK LL 4953	55.6	78.1	73.9	—	33	1
Credenz	CZ 4044 LL	53.8	—	—	—	29	1
Delta Grow	DG 4587LL/STS	53.5	—	—	—	30	1
Progeny	P 4930LL	52.6	84.1	80.8	—	34	1
Go Soy	4913LL	52.6	—	—	—	30	1
Go Soy	4912LL	50.8	—	—	—	37	1
Credenz	CZ 4222 LL	50.5	—	—	—	32	1
Delta Grow	DG 4967LL	50.3	73.8	72.0	—	36	1
Credenz	CZ 4105 LL	49.4	64.5	—	—	26	1
REV	48L63 *	48.7	—	—	—	36	1
Delta Grow	DG 4977LL/STS	47.6	67.9	—	—	31	1
Mean		54.7					
LSD		8.7					
Error df		38					
CV		11.6					
R^2		55.3					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 47. Maturity Group V Liberty Link Nonirrigated Soybean (Morton Farms, Falkner).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Credenz	CZ 5515 LL	62.6	77.6	—	—	35	1
Delta Grow	DG 5067LL	56.4	76.8	—	—	31	1
Go Soy	5215LL	56.2	76.1	—	—	32	1
Dyna-Gro	S52LL66	55.9	83.1	—	—	36	1
Credenz	CZ 5150 LL	55.2	76.9	73.4	—	35	1
Credenz	CZ 5225 LL	54.2	—	—	—	30	1
Dyna-Gro	S55LS75	54.0	70.1	—	—	38	1
Go Soy	5115LL	53.3	77.4	—	—	34	1
Credenz	CZ 5445 LL	52.7	75.3	—	—	47	1
Credenz	CZ 5147 LL	52.1	71.7	—	—	28	1
Go Soy	5515LL	50.3	73.8	—	—	36	1
Credenz	CZ 5242 LL	49.4	69.8	70.5	—	33	1
Mean		54.4					
LSD		7.2					
Error df		22					
CV		9.5					
R^2		65.5					

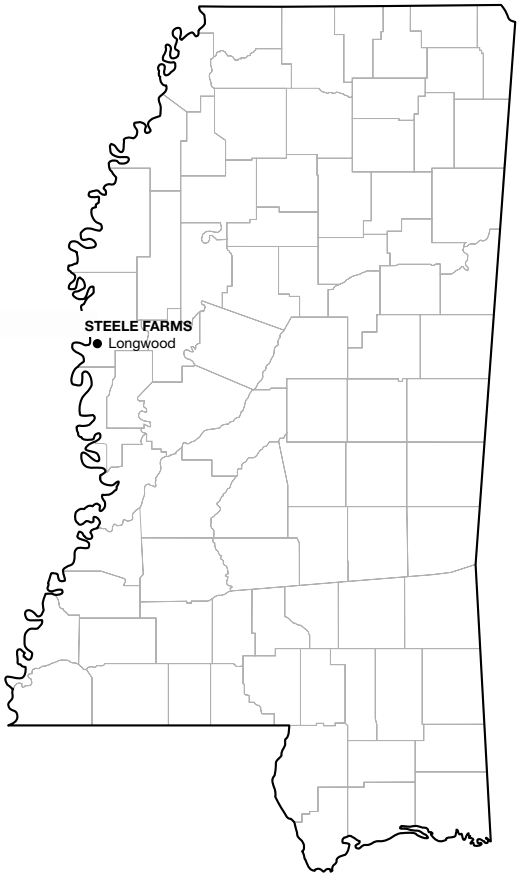
[1]No maturity dates taken.

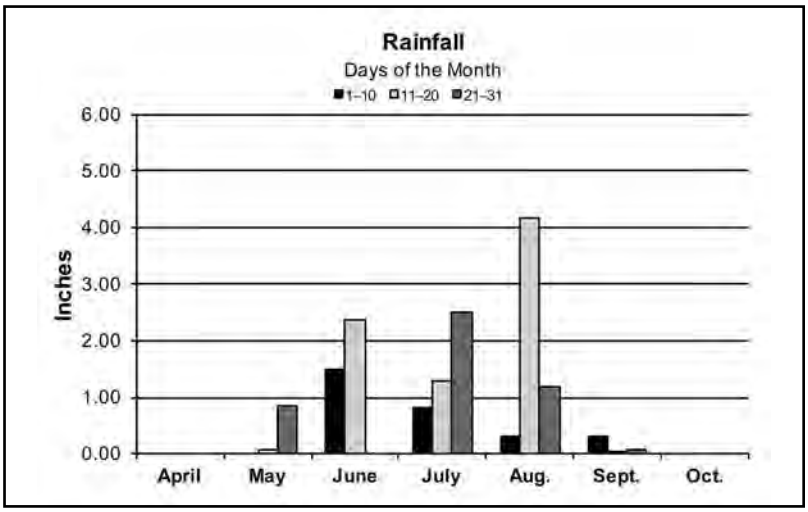
LONGWOOD, STEELE FARMS

Crop Summary

The soybean plots were planted into a stale seedbed following the previous season's rice crop. Soil moisture at planting was ideal for quick germination. All plots quickly emerged to a good stand. A dry fall allowed for ease of harvest. As a result, all plots were harvested in a timely manner. Good yield was observed from this location.

Planting date ..... **April 26**
Harvest date ..... **IV Early and IV Late Roundup Ready on September 21; IV and V Conventional on September 21; IV Liberty Link on September 21; V Early and V Late Roundup Ready on October 3**
Soil type ..... **Sharkey clay**
Soil pH **7.1**
Soil fertility ..... **P=H, K=H$^+$**
Previous crop ..... **Rice**
Herbicide application ..... **Preemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 32 oz/A, and Gramoxone @ 32 oz/A on April 26**
Postemergence — Select @ 12 oz/A, Ultra Blazer @ 16 oz/A, and FirstRate @ 0.3 oz/A on June 27
Roundup Ready – Roundup PowerMAX @ 32 oz/A, Dual @ 24 oz/A, and FirstRate @ 0.3 oz/A on July 18
Liberty Link – Liberty @ 30 oz/A, Dual @ 24 oz/A, and FirstRate @ 0.3 oz/A on July 18
Conventional – Select @ 12 oz/A, Dual II Magnum @ 24 oz/A, and FirstRate @ 0.3 oz/A on July 18
Irrigation ..... **Furrow irrigated on July 2 and July 8**





Rainfall Summary

	Inches
April	0.00
May	0.91
June	3.84
July	4.58
August	5.67
September	0.38
October	0.00
Total	15.38

Table 48. Roundup Ready Maturity Group IV Early Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Dyna-Gro	31RY45	73.8	—	—	—	32	1
AGS	GS45R216	73.0	—	—	—	32	1
Progeny	P 4211RY	72.6	—	—	—	26	1
Pioneer	P41T33R	72.0	—	—	—	28	1
Mycogen	5N433R2	70.3	—	—	—	28	1
Delta Grow	DG 4680RR2	70.2	—	—	—	31	1
Delta Grow	4670RR2	69.9	—	—	—	25	1
REV	45A46 *	68.3	—	—	—	26	1
Mycogen	5N452R2	67.8	—	—	—	27	1
Asgrow	AG4632	67.0	—	—	—	30	1
NK	S45-W9	64.5	—	—	—	20	1
Dyna-Gro	S43RY95	64.5	—	—	—	32	1
Mycogen	5N424R2	64.4	—	—	—	20	1
Credenz	CZ 4181 RY	64.1	—	—	—	28	1
Progeny	P 4588RY	64.0	—	—	—	25	1
Progeny	P 4613RYS	62.9	—	—	—	31	1
NK	S42-P6	62.8	—	—	—	26	1
Mycogen	5N414R2	61.9	—	—	—	28	1
Credenz	CZ 4656 RY	61.5	—	—	—	34	1
NK	S39-T3	61.0	—	—	—	24	1
NK	S39-C4	55.3	—	—	—	24	1
Credenz	CZ 4590 RY	50.9	—	—	—	31	1
Mean		65.6					
LSD		7.4					
Error df		42					
CV		8.2					
R^2		64.3					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]Indicates averages including Xtend varieties.
[3]Location does not include Xtend varieties.
[4]No maturity dates taken.

Table 49. Roundup Ready Maturity Group IV Late Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	48A76 *	80.9	—	—	—	35	1
Pioneer	P47T89R	77.6	—	—	—	31	1
NK	S47-K5	77.3	—	—	—	31	1
Delta Grow	DG 4880RR	76.6	—	—	—	28	1
Progeny	P 4757RY	76.4	—	—	—	33	1
REV	49R94	76.1	—	—	—	33	1
Progeny	P 4900RY	75.5	—	—	—	25	1
REV	47R34	74.7	—	—	—	35	1
Go Soy	4814GTS	73.7	—	—	—	38	1
Armor	47-R70	73.0	—	—	—	31	1
Great Heart Seed	GT-477CR2	72.8	—	—	—	29	1
REV	48A26 *	72.5	—	—	—	28	1
Mycogen	5N490R2	71.2	—	—	—	33	1
Dixie Bell	DB 4911	71.0	—	—	—	30	1
Delta Grow	DG 4790RR2	70.1	—	—	—	31	1
REV	49A75	69.7	—	—	—	35	1
Croplan	R2C4700S	69.4	—	—	—	29	1
Progeny	P 4788RY	69.4	—	—	—	34	1
AGS	GS48R216	69.2	—	—	—	20	1
Croplan	R2C4775	69.0	—	—	—	30	1
Go Soy	49G16	68.3	—	—	—	29	1
NK	S49-B1	65.7	—	—	—	25	1
Credenz	CZ 4898 RY	64.2	—	—	—	38	1
Great Heart Seed	GT-476CR2	64.0	—	—	—	37	1
Dyna-Gro	S48RS53	62.5	—	—	—	32	1
Delta Grow	DG 4970RR	62.3	—	—	—	31	1
AGS	GS47R216	62.3	—	—	—	28	1
Delta Grow	DG 4995 RR	61.9	—	—	—	25	1
Mycogen	5N480R2	61.1	—	—	—	32	1
Dixie Bell	DB 4965	60.6	—	—	—	30	1
Pioneer	P47T36R	60.2	—	—	—	36	1
AGS	GS4915R2	59.9	—	—	—	35	1
USG	74K95RS	58.2	—	—	—	32	1
Credenz	CZ 4959 RY	57.6	—	—	—	26	1
Dixie Bell	DB 4787	56.5	—	—	—	20	1
Delta Grow	DG 4825 RR2/STS	55.6	—	—	—	16	1
Mean		68					
LSD		6.9					
Error df		70					
CV		7.4					
R^2		74.5					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

Table 50. Roundup Ready Maturity Group V Early Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Croplan	R2C5225S	80.9	—	—	—	38	1
Armor	55-R68	76.3	—	—	—	19	1
Delta Grow	DG 5580RR2	75.4	—	—	—	23	1
Progeny	P 5226RYS	74.6	—	—	—	30	1
Mycogen	5N523R2	72.4	—	—	—	33	2
Progeny	P 5555RY	69.3	—	—	—	28	1
U. of Arkansas	R101-89RY *	68.7	—	—	—	19	1
Dyna-Gro	S56RY84	68.5	—	—	—	27	1
REV	52A94	67.9	—	—	—	22	1
REV	51A56	65.9	—	—	—	31	1
Delta Grow	DG 5555RR	65.5	—	—	—	24	1
NK	S55-Q3	65.3	—	—	—	22	1
REV	56R93	63.5	—	—	—	26	1
Delta Grow	DG 5170 RR2/STS	63.5	—	—	—	35	1
Credenz	CZ 5375 RY	62.8	—	—	—	17	1
Delta Grow	DG 5625RR2	62.0	—	—	—	26	1
Pioneer	P55T81R	60.9	—	—	—	25	1
GoSoy	5214GTS	60.3	—	—	—	30	1
Pioneer	P52T50R	59.8	—	—	—	21	1
U. of Arkansas	R10-197RY *	57.5	—	—	—	16	1
Dyna-Gro	S52RY75	56.2	—	—	—	27	1
Croplan	R2C5265	54.4	—	—	—	21	1
Delta Grow	DG 5230 RR2	50.3	—	—	—	21	1
NK	S56-M8	48.5	—	—	—	19	1
U. of Arkansas	UA 5414RR	37.8	—	—	—	24	1
Mean		63.5					
LSD		7.4					
Error df		48					
CV		8.4					
R^2		84.6					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

Table 51. Roundup Ready Maturity Group V Late Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	57R21	68.7	—	—	—	30	1
Dyna-Gro	S57RY26	64.9	—	—	—	24	1
Progeny	P 5752RY	62.4	—	—	—	22	1
USG	75B75R	56.5	—	—	—	19	1
NK	S58-Z4	54.2	—	—	—	20	1
U. of Arkansas	R07-6614RR *	43.5	—	—	—	24	1
Mean		58.4					
LSD		7.2					
Error df		10					
CV		8.4					
R^2		87.2					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

Table 52. Maturity Group IV Liberty Link Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Go Soy	4912LL	72.4	—	—	—	27	1
Progeny	P 4930LL	71.5	—	—	—	36	1
Hornbeck	HBK LL 4953	70.3	—	—	—	24	1
Go Soy	4913LL	69.7	—	—	—	26	1
REV	49L49	69.7	—	—	—	38	1
Dyna-Gro	S49LL34	67.9	—	—	—	32	1
Delta Grow	DG 4967LL	67.5	—	—	—	28	1
REV	48L63 *	67.3	—	—	—	38	1
Credenz	CZ 4540 LL	67.0	—	—	—	30	1
Go Soy	4714LL	63.4	—	—	—	40	1
Progeny	P 4814LLS	62.7	—	—	—	44	1
Delta Grow	DG 4977LL/STS	61.3	—	—	—	33	1
Delta Grow	DG 4587LL/STS	60.1	—	—	—	21	1
Delta Grow	DG 4781LL	59.4	—	—	—	27	1
Credenz	CZ 4818 LL	58.5	—	—	—	33	1
Credenz	CZ 4748 LL	56.4	—	—	—	31	1
Progeny	P 4247LL	54.5	—	—	—	41	1
Credenz	CZ 4222 LL	50.7	—	—	—	38	1
Credenz	CZ 4105 LL	47.1	—	—	—	31	1
Credenz	CZ 4044 LL	43.4	—	—	—	33	1
Mean		62.0					
LSD		6.3					
Error df		38					
CV		7.3					
R^2		83.4					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

Table 53. Maturity Group V Liberty Link Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety	Yield			Maturity date[3]	Plant height	Lodging score
		2016	2-yr. avg.[1]	3-yr. avg.[2]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Dyna-Gro	S52LL66	72.4	—	—	—	43	1
Go Soy	5215LL	72.2	—	—	—	37	1
Credenz	CZ 5242 LL	70.9	—	—	—	42	1
Delta Grow	DG 5067LL	70.7	—	—	—	38	1
Credenz	CZ 5150 LL	68.8	—	—	—	37	1
Go Soy	5115LL	68.7	—	—	—	36	1
Dyna-Gro	S55LS75	63.2	—	—	—	26	1
Go Soy	5515LL	57.8	—	—	—	26	1
Credenz	CZ 5515 LL	53.7	—	—	—	49	1
Credenz	CZ 5225 LL	50.1	—	—	—	19	1
Credenz	CZ 5147 LL	49.7	—	—	—	15	1
Credenz	CZ 5445 LL	41.5	—	—	—	18	1
Mean		61.6					
LSD		5.2					
Error df		22					
CV		6.0					
R^2		92.6					

[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

Table 54. Maturity Group IV Conventional Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Go Soy	Irene	75.5	—	—	—	22	1
USG	Ellis	69.8	—	—	—	20	1
Go Soy	483.C	66.7	—	—	—	32	1
U. of Missouri	S12-3782 *	59.7	—	—	—	35	1
U. of Missouri	S12-2418 *	57.2	—	—	—	29	1
U. of Missouri	S12-3791 *	46.0	—	—	—	25	1
Mean		62.5					
LSD		4					
Error df		10					
CV		4.4					
R^2		95.9					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

Table 55. Maturity Group V Conventional Irrigated Soybean (Steele Farms, Longwood).

Brand	Variety[1]	Yield			Maturity date[4]	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
U. of Missouri	S12-4718 *	74.9	—	—	—	23	1
U. of Missouri	S11-17025 *	70.3	—	—	—	19	1
U. of Arkansas	UA5612	69.3	—	—	—	24	1
U. of Missouri	S11-20214 *	68.8	—	—	—	30	1
Go Soy	Leland	68.7	—	—	—	24	1
U. of Arkansas	Osage	67.7	—	—	—	22	1
U. of Arkansas	R10-230 *	66.5	—	—	—	23	1
U. of Arkansas	R09-430 *	61.8	—	—	—	21	1
U. of Arkansas	UA 5014C	54.6	—	—	—	23	1
USDA-ARS	JTN-5110 *	54.5	—	—	—	24	1
U. of Arkansas	UA 5814	51.9	—	—	—	27	1
U. of Arkansas	UA5213C	50.0	—	—	—	16	1
Mean		63.3					
LSD		8.4					
Error df		22					
CV		9.4					
R^2		76.1					

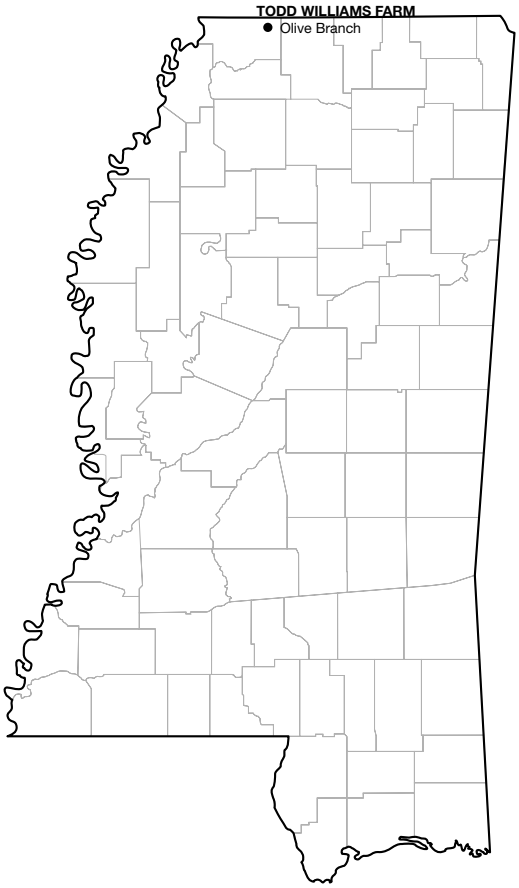
[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.
[4]No maturity dates taken.

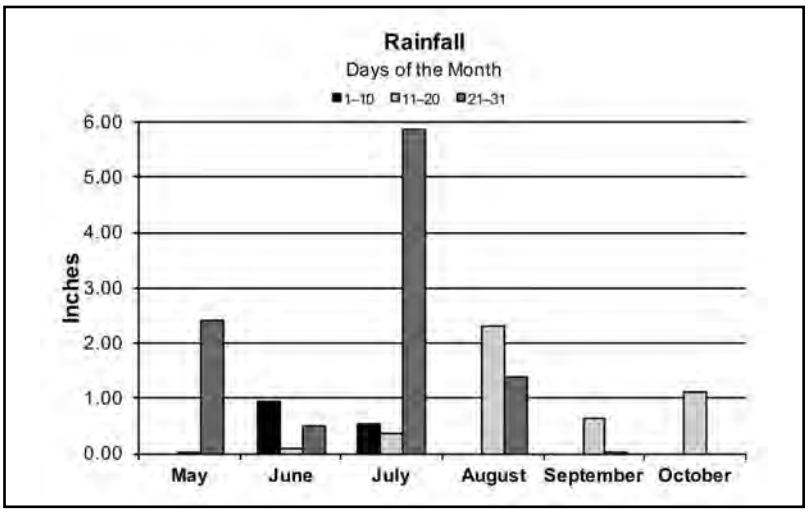
OLIVE BRANCH, TODD WILLIAMS FARM

Crop Summary

The soybean plots were planted into a well-prepared seedbed that had been tilled just before planting. Adequate soil moisture at planting was present for germination. All plots quickly emerged to a good stand. Timely rains fell at this location, never allowing for any stress to the plants. A warm, dry fall allowed for a timely harvest of all maturity groups. Excellent yields were observed at this location.

Planting date . . . . . **May 14**
Harvest date . . . . . **October 6**
Soil type . . . . . **Collins and Richland silt loam**
Soil pH **5.6**
Soil fertility . . . . . **P=M, K=H**
Previous crop . . . . . **Corn**
Herbicide applications . . . . **Preemergence — Authority MTZ @ 12 oz/A and Dual II Magnum @ 24 oz/A on May 14**
Postemergence — Roundup PowerMAX @ 32 oz/A and Select @ 12 oz/A on June 23
Fungicide/Insecticide . . . . . **Tilt fungicide @ 4 oz/A on August 11; Bifenthrin insecticide @ 4 oz/A on August 11**





Rainfall Summary

	Inches
May	2.43
June	1.54
July	6.77
August	3.67
September	0.66
October	1.13
Total	16.20

Table 56. Roundup Ready Maturity Group IV Early Nonirrigated Soybean (Todd Williams Farm, Olive Branch).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Credenz	CZ 4590 RY	107.0	—	—	9/15	43	1
Dyna-Gro	S43RY95	107.0	—	—	9/8	37	2
Progeny	P 4211RY	106.6	—	—	9/21	35	1
Progeny	P 4613RYS	106.2	—	—	9/8	37	1
Asgrow	AG4632	105.2	—	—	9/21	37	1
NK	S45-W9	104.8	—	—	9/15	31	1
Delta Grow	4670RR2	104.3	—	—	9/8	37	1
Mycogen	5N433R2	102.5	—	—	9/21	43	3
Mycogen	5N414R2	101.4	—	—	9/15	38	1
Dyna-Gro	31RY45	101.4	—	—	9/8	38	1
AGS	GS45R216	100.1	—	—	9/15	38	2
NK	S42-P6	99.1	—	—	9/8	37	1
NK	S39-T3	97.6	—	—	9/8	34	1
REV	45A46 *	96.0	—	—	9/8	36	1
Pioneer	P41T33R	95.9	—	—	9/8	33	1
Delta Grow	DG 4680RR2	95.3	—	—	9/15	38	2
Mycogen	5N452R2	94.6	—	—	9/21	39	3
Progeny	P 4588RY	92.6	—	—	9/8	35	1
Credenz	CZ 4656 RY	91.3	—	—	9/21	37	1
Credenz	CZ 4181 RY	90.6	—	—	9/21	39	1
NK	S39-C4	89.3	—	—	9/15	30	1
Mycogen	5N424R2	88.1	—	—	9/15	34	1
Mean		98.9					
LSD		11.5					
Error df		42					
CV		8.5					
R^2		45.5					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

Table 57. Roundup Ready Maturity Group IV Late Nonirrigated Soybean (Todd Williams Farm, Olive Branch).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Progeny	P 4788RY	117.2	—	—	9/29	41	2
Great Heart Seed	GT-476CR2	111.6	—	—	9/21	43	1
AGS	GS48R216	108.5	—	—	9/21	44	1
Pioneer	P47T89R	108.5	—	—	9/21	41	1
REV	49A75	108.2	—	—	9/21	41	1
NK	S47-K5	107.1	—	—	9/21	33	1
Delta Grow	DG 4790RR2	106.5	—	—	9/21	43	2
Armor	47-R70	106.5	—	—	9/21	34	2
AGS	GS47R216	106.4	—	—	9/21	39	1
REV	47R34	106.4	—	—	9/21	42	3
Credenz	CZ 4959 RY	106.2	—	—	9/29	42	2
Pioneer	P47T36R	105.8	—	—	9/21	48	2
Croplan	R2C4775	105.0	—	—	9/21	50	2
Progeny	P 4757RY	104.8	—	—	9/29	42	1
Dixie Bell	DB 4965	104.5	—	—	9/29	38	2
NK	S49-B1	104.4	—	—	9/21	39	1
REV	48A26 *	104.4	—	—	9/29	44	1
REV	49R94	103.8	—	—	9/21	40	1
Delta Grow	DG 4995 RR	101.0	—	—	9/21	39	3
Dixie Bell	DB 4911	100.7	—	—	9/21	41	1
Go Soy	4814GTS	99.9	—	—	9/21	46	1
Delta Grow	DG 4825 RR2/STS	99.0	—	—	9/29	35	1
Great Heart Seed	GT-477CR2	98.6	—	—	9/21	44	2
REV	48A76 *	97.8	—	—	9/21	41	3
Delta Grow	DG 4970RR	97.5	—	—	9/29	48	2
Croplan	R2C4700S	97.4	—	—	9/21	46	1
Delta Grow	DG 4880RR	95.1	—	—	9/29	46	3
Go Soy	49G16	95.1	—	—	9/29	47	2
Progeny	P 4900RY	94.8	—	—	9/21	49	1
Mycogen	5N490R2	93.8	—	—	9/29	44	2
Mycogen	5N480R2	92.7	—	—	9/21	41	1
Dixie Bell	DB 4787	90.6	—	—	9/21	37	1
Dyna-Gro	S48RS53	89.2	—	—	9/29	40	1
AGS	GS4915R2	84.9	—	—	9/21	40	1
Credenz	CZ 4898 RY	83.5	—	—	9/21	45	1
USG	74K95RS	80.6	—	—	9/21	43	1
Mean		100.5					
LSD		10.3					
Error df		70					
CV		7.5					
R^2		64.4					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

Table 58. Roundup Ready Maturity Group V Early Nonirrigated Soybean (Todd Williams Farm, Olive Branch).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Mycogen	5N523R2	117.3	—	—	10/6	38	1
Armor	55-R68	112.7	—	—	9/29	36	1
NK	S55-Q3	107.7	—	—	10/6	41	2
Delta Grow	DG 5170 RR2/STS	106.1	—	—	10/6	44	2
Croplan	R2C5225S	106.0	—	—	9/29	45	2
Dyna-Gro	S52RY75	105.3	—	—	9/29	40	1
Progeny	P 5555RY	104.6	—	—	9/29	41	1
U. of Arkansas	R101-89RY *	102.0	—	—	9/29	33	1
Progeny	P 5226RYS	101.6	—	—	9/29	47	2
Croplan	R2C5265	101.4	—	—	9/29	36	1
Delta Grow	DG 5580RR2	100.9	—	—	9/29	39	1
Pioneer	P55T81R	99.9	—	—	9/29	34	1
NK	S56-M8	99.9	—	—	10/6	37	1
Delta Grow	DG 5625RR2	99.3	—	—	9/29	39	1
Pioneer	P52T50R	98.8	—	—	9/21	35	1
U. of Arkansas	UA 5414RR	98.7	—	—	9/29	34	1
REV	51A56	98.4	—	—	9/21	43	1
REV	56R93	97.8	—	—	9/29	42	2
Delta Grow	DG 5555RR	96.9	—	—	9/29	41	2
U. of Arkansas	R10-197RY *	95.1	—	—	9/29	40	1
Dyna-Gro	S56RY84	94.6	—	—	9/29	36	1
Delta Grow	DG 5230 RR2	93.9	—	—	9/29	37	1
REV	52A94	90.8	—	—	9/21	37	3
GoSoy	5214GTS	90.6	—	—	9/29	46	2
Credenz	CZ 5375 RY	89.5	—	—	10/6	37	1
Mean		100.4					
LSD		14					
Error df		48					
CV		10.2					
R^2		40.3					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

Table 59. Roundup Ready Maturity Group V Late Nonirrigated Soybean (Todd Williams Farm, Olive Branch).

Brand	Variety[1]	Yield			Maturity date	Plant height	Lodging score
		2016	2-yr. avg.[2]	3-yr. avg.[3]			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Progeny	P 5752RY	114.8	—	—	9/29	39	1
Dyna-Gro	S57RY26	110.8	—	—	9/29	38	1
USG	75B75R	103.4	—	—	9/29	39	1
REV	57R21	100.6	—	—	10/6	50	2
U. of Arkansas	R07-6614RR *	90.7	—	—	10/6	41	1
NK	S58-Z4	84.4	—	—	10/6	38	1
Mean		100.8					
LSD		11.8					
Error df		10					
CV		7.9					
R^2		77.5					

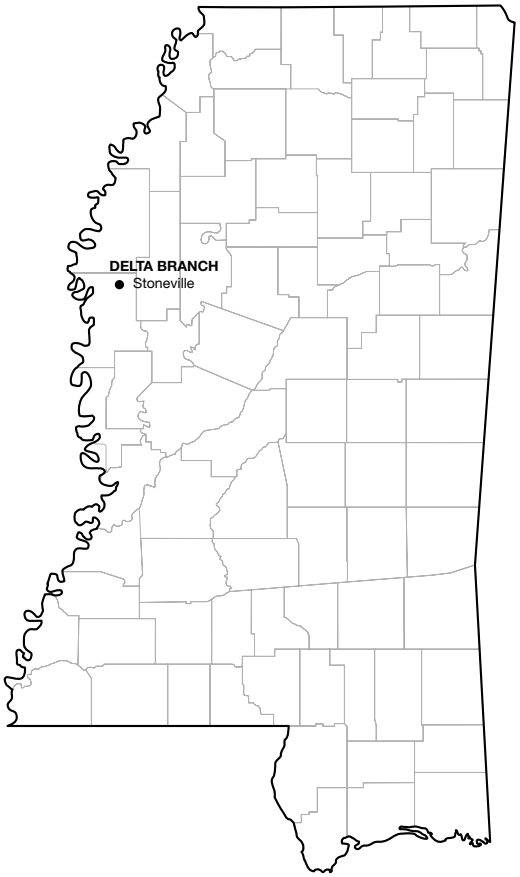
[1]Variety followed by an asterisk indicates an experimental entry.
[2]No 2-year average.
[3]No 3-year average.

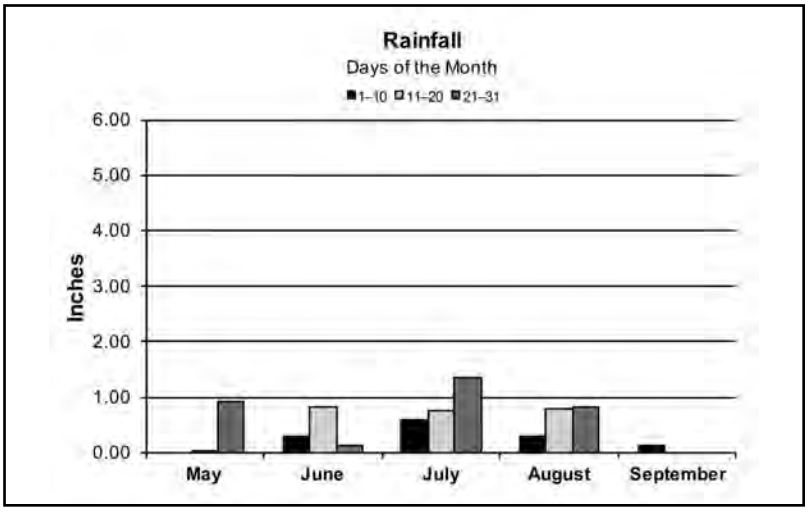
STONEVILLE (clay) IRR. AND NONIRRIGATED, DELTA BRANCH

Crop Summary

The plots were planted beyond the desired planting date due to the frequency of spring rains. All plots quickly emerged to a good stand. Frequent rains occurred during mid to late summer, supplying ample soil moisture throughout the growing season. This moisture prevented these plants from ever becoming stressed, and good dryland yields were achieved at this location. The frequency of rain that followed furrow irrigation of the irrigated trial probably reduced the yield potential of the irrigated beans due to saturated soil conditions.

Planting date ..... **Nonirrigated, May 6; Irrigated, May 5**
Harvest date ..... **IV Early and IV Late Nonirrigated Roundup Ready on September 20; IV Early Roundup Ready and IV Liberty Link Irrigated on September 15; IV Late Roundup Ready Irrigated on September 20; V Early and V Late Roundup Ready and V Liberty Link Irrigated on September 21**
Soil type ..... **Sharkey clay**
Soil pH **6.9**
Soil fertility ..... **P=H, K=H**
Previous crop ..... **Soybean**
Irrigation ..... **Furrow irrigated on July 19 (Irrigated only)**
Fertilizer added ..... **None**
Herbicide applications .... **Preemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 32 oz/A, and Gramoxone @ 32 oz/A on May 5 and 6 (Irrigated and Nonirrigated)**
Postemergence — Roundup Ready – Roundup PowerMAX @ 32 oz/A, Select @ 12 oz/A, and Resource @ 12 oz/A on June 10 (Nonirrigated)
Roundup Ready – Roundup PowerMAX @ 32 oz/A, Resource @ 12 oz/A, and Prefix @ 24 oz/A on June 29 (Irrigated)
Liberty Link – Liberty @ 30 oz/A, Resource @ 12 oz/A, and Prefix @ 24 oz/A on June 29 (Irrigated)





Rainfall Summary

	Inches
May	0.95
June	1.25
July	2.69
August	1.92
September	0.12
Total	6.93

Table 60. Roundup Ready Maturity Group IV Early Nonirrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Asgrow	AG46X6	76.0	—	—	—	32	1
Asgrow	AG46X7	74.3	—	—	—	27	1
Progeny	P 4516RXS	73.9	—	—	—	32	1
Progeny	P 4613RYS	73.4	53.3	57.9	—	26	1
Great Heart Seed	GT-4540XS	73.2	—	—	—	29	1
Credenz	CZ 4656 RY	72.8	—	—	—	31	1
REV	45A46 *	71.0	—	—	—	31	1
Great Heart Seed	GT-4430XS	70.2	—	—	—	29	1
Dyna-Gro	S45XS66	69.9	—	—	—	30	1
AGS	GS45R216	68.8	—	—	—	30	1
Mycogen	5N452R2	66.8	45.8	54.3	—	29	1
Delta Grow	4670RR2	65.5	44.8	51.6	—	26	1
Asgrow	AG44X6	63.8	—	—	—	23	1
Asgrow	AG45X6	61.8	—	—	—	24	1
Dyna-Gro	31RY45	61.8	43.1	51.8	—	29	1
Mycogen	5N433R2	60.8	46.1	—	—	30	1
Armor	46-D08	60.8	—	—	—	31	1
Asgrow	AG4632	60.5	44.0	49.5	—	24	1
Dyna-Gro	S43RY95	59.3	45.4	54.3	—	27	1
Progeny	P 4620RXS	59.1	—	—	—	28	1
Credenz	CZ 4590 RY	58.7	40.1	—	—	32	1
Mycogen	5N414R2	58.0	—	—	—	30	1
Delta Grow	DG 4680RR2	57.9	—	—	—	31	1
Progeny	P 4588RY	56.6	—	—	—	23	1
Pioneer	P41T33R	54.2	—	—	—	18	1
Credenz	CZ 4181 RY	53.5	—	—	—	27	1
NK	S42-P6	53.3	—	—	—	29	1
Progeny	P 4211RY	51.2	40.4	50.6	—	22	1
Mycogen	5N424R2	49.1	—	—	—	22	1
Asgrow	AG42X6	47.9	—	—	—	26	1
NK	S45-W9	45.8	—	—	—	24	1
NK	S39-T3	45.7	—	—	—	29	1
NK	S39-C4	42.9	—	—	—	26	1
Mean		61.2					
LSD		7.8					
Error df		64					
CV		9.4					
R^2		81.4					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 61. Roundup Ready Maturity Group IV Late Nonirrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
USG	7497XT *	75.7	—	—	—	35	1
Armor	ARX4906 *	75.4	—	—	—	36	1
Progeny	P 4900RY	74.1	49.5	56.9	—	24	1
Progeny	P 4944RX	72.4	—	—	—	31	1
Dyna-Gro	S49XT07	71.9	—	—	—	29	1
Delta Grow	DG 4790RR2	71.6	49.4	—	—	29	1
Mycogen	5N490R2	71.1	48.3	56.7	—	31	1
Armor	47-D17	70.3	—	—	—	30	1
Dixie Bell	DB 4911	68.4	—	—	—	22	1
Go Soy	49G16	67.7	—	—	—	23	1
Armor	47-R70	67.6	—	—	—	31	1
Progeny	P 4788RY	67.6	46.5	58.1	—	34	1
REV	48A26 *	67.4	—	—	—	30	1
AGS	GS47R216	66.7	—	—	—	34	1
Dixie Bell	DB 4965	66.6	—	—	—	15	1
Armor	49-D66	66.2	—	—	—	30	1
Pioneer	P47T89R	65.8	—	—	—	33	1
Credenz	CZ 4898 RY	65.4	—	—	—	34	1
Armor	48-D80	65.4	—	—	—	35	1
Go Soy	4814GTS	64.6	—	—	—	34	1
Progeny	P 4757RY	64.5	46.4	—	—	29	1
Great Heart Seed	GT-4860X	64.5	—	—	—	27	1
Great Heart Seed	GT-477CR2	64.2	47.9	—	—	30	1
Armor	ARX4706 *	63.8	—	—	—	38	1
Delta Grow	DG 4970RR	63.0	42.3	52.7	—	32	1
REV	47R34	62.7	49.7	60.4	—	29	1
USG	7496XTS	62.5	—	—	—	29	1
Progeny	P 4799RXS	62.5	—	—	—	36	1
REV	48A76 *	61.7	—	—	—	27	1
Dyna-Gro	S48XT56	61.1	—	—	—	29	1
Croplan	R2C4775	60.6	—	—	—	28	1
REV	49A75	60.6	44.1	—	—	26	1
Progeny	P 4816RX	60.5	—	—	—	24	1
Delta Grow	DG 4880RR	60.4	43.1	52.2	—	29	1
Armor	48-D24	60.2	—	—	—	25	1
Delta Grow	DGX 4845RR2	60.1	—	—	—	28	1
Asgrow	AG48X7	60.0	—	—	—	27	1
USG	7487XTS *	59.9	—	—	—	32	1
REV	49R94	59.3	40.7	51.6	—	28	1
Delta Grow	DG 4825 RR2/STS	58.9	43.7	54.1	—	27	1
Croplan	R2C4700S	58.7	—	—	—	33	1
Great Heart Seed	GT-476CR2	58.7	41.9	54.6	—	28	1
Asgrow	AG49X6	58.1	—	—	—	32	1
USG	74K95RS	57.6	38.8	—	—	23	1
AGS	GS4915R2	56.2	—	—	—	27	1
AGS	GS48R216	56.0	—	—	—	27	1
Asgrow	AG47X6	55.0	—	—	—	29	1
NK	S47-K5	54.1	41.1	54.6	—	26	1
Mycogen	5N480R2	53.8	—	—	—	30	1
Dyna-Gro	S48RS53	53.2	40.2	52.1	—	28	1
Pioneer	P47T36R	52.5	—	—	—	32	1
Credenz	CZ 4959 RY	52.3	36.6	—	—	28	1
NK	S49-B1	51.5	—	—	—	28	1
Delta Grow	DG 4995 RR	50.8	36.0	—	—	22	1
Dixie Bell	DB 4787	45.2	—	—	—	17	1
Mean		62.2					
LSD		7.4					
Error df		110					
CV		8.8					
R^2		71.4					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 62. Roundup Ready Maturity Group IV Early Irrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Great Heart Seed	GT-4540XS	80.5	—	—	—	38	1
Progeny	P 4613RYS	79.3	75.5	76.6	—	33	1
Asgrow	AG46X6	79.1	—	—	—	36	1
Asgrow	AG46X7	78.4	—	—	—	39	1
Progeny	P 4516RXS	77.0	—	—	—	36	1
REV	45A46 *	76.0	—	—	—	32	1
Mycogen	5N452R2	74.6	77.0	77.7	—	32	1
Delta Grow	DG 4680RR2	74.5	—	—	—	35	1
Dyna-Gro	S45XS66	73.9	—	—	—	35	1
AGS	GS45R216	73.5	—	—	—	37	1
Great Heart Seed	GT-4430XS	72.3	—	—	—	34	1
Dyna-Gro	S43RY95	72.0	73.5	75.2	—	37	1
Credenz	CZ 4656 RY	71.9	—	—	—	37	1
Pioneer	P41T33R	70.2	—	—	—	31	1
Asgrow	AG4632	69.9	75.4	79.0	—	29	1
Asgrow	AG42X6	69.8	—	—	—	27	1
Progeny	P 4211RY	69.8	69.7	71.9	—	29	1
Asgrow	AG45X6	69.7	—	—	—	28	1
Mycogen	5N414R2	69.6	—	—	—	29	1
Dyna-Gro	31RY45	69.3	74.4	77.0	—	29	1
Asgrow	AG44X6	68.4	—	—	—	33	1
Mycogen	5N433R2	68.2	72.6	—	—	28	1
Armor	46-D08	67.9	—	—	—	30	1
Progeny	P 4620RXS	67.6	—	—	—	30	1
Progeny	P 4588RY	67.1	—	—	—	24	1
Credenz	CZ 4590 RY	66.8	64.8	—	—	35	1
Delta Grow	4670RR2	66.7	72.0	76.0	—	31	1
Credenz	CZ 4181 RY	66.7	—	—	—	34	1
NK	S42-P6	65.0	—	—	—	25	1
Mycogen	5N424R2	63.2	—	—	—	25	1
NK	S39-T3	62.1	—	—	—	28	1
NK	S39-C4	60.9	—	—	—	26	1
NK	S45-W9	60.0	—	—	—	23	1
Mean		70.4					
LSD		5.7					
Error df		64					
CV		6					
R^2		70.8					
R^2		71.4					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 63. Roundup Ready Maturity Group IV Late Irrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Pioneer	P47T89R	70.2	—	—	—	36	1
REV	48A26 *	68.8	—	—	—	28	1
NK	S47-K5	68.6	73.3	73.2	—	33	1
Mycogen	5N490R2	67.0	67.9	71.9	—	35	1
REV	48A76 *	66.2	—	—	—	34	2
Progeny	P 4900RY	65.9	66.4	70.3	—	31	1
Great Heart Seed	GT-477CR2	64.1	74.1	—	—	36	1
Armor	47-D17	63.7	—	—	—	33	1
Croplan	R2C4775	63.6	—	—	—	38	1
REV	49R94	63.1	72.2	75.5	—	33	2
Progeny	P 4757RY	62.8	71.0	—	—	28	1
NK	S49-B1	62.5	—	—	—	30	1
REV	49A75	62.3	66.2	—	—	35	1
Great Heart Seed	GT-476CR2	62.1	65.9	71.1	—	33	1
Asgrow	AG47X6	61.6	—	—	—	36	1
Delta Grow	DG 4790RR2	61.1	72.9	—	—	32	1
Croplan	R2C4700S	61.0	—	—	—	35	1
REV	47R34	61.0	69.2	73.0	—	35	1
Armor	47-R70	60.9	—	—	—	33	1
Delta Grow	DGX 4845RR2	60.8	—	—	—	33	1
Progeny	P 4816RX	60.7	—	—	—	31	1
Dixie Bell	DB 4965	60.7	—	—	—	24	1
USG	7496XTS	60.2	—	—	—	30	1
Armor	ARX4706 *	60.0	—	—	—	38	1
Pioneer	P47T36R	59.6	—	—	—	36	1
Progeny	P 4799RXS	59.6	—	—	—	39	1
Dyna-Gro	S48XT56	59.6	—	—	—	28	1
Delta Grow	DG 4880RR	59.6	64.5	69.2	—	37	1
Dixie Bell	DB 4911	59.4	—	—	—	29	1
Progeny	P 4944RX	58.5	—	—	—	40	1
Great Heart Seed	GT-4860X	58.4	—	—	—	30	1
Armor	48-D24	58.3	—	—	—	35	1
Progeny	P 4788RY	58.2	69.4	74.0	—	39	1
Go Soy	49G16	57.9	—	—	—	23	1
Mycogen	5N480R2	57.8	—	—	—	36	1
AGS	GS48R216	57.7	—	—	—	25	1
Asgrow	AG49X6	57.6	—	—	—	35	1
USG	74K95RS	57.3	64.8	—	—	34	1
AGS	GS47R216	57.1	—	—	—	34	1
Go Soy	4814GTS	56.5	—	—	—	38	2
Dixie Bell	DB 4787	55.9	—	—	—	26	1
Delta Grow	DG 4995 RR	55.3	60.0	—	—	25	1
AGS	GS4915R2	55.1	—	—	—	35	1
Armor	49-D66	54.9	—	—	—	36	1
Delta Grow	DG 4970RR	54.9	62.3	65.6	—	36	1
Credenz	CZ 4898 RY	54.3	—	—	—	38	1
Dyna-Gro	S49XT07	53.9	—	—	—	34	1
Delta Grow	DG 4825 RR2/STS	52.2	60.3	67.0	—	25	1
USG	7487XTS *	51.6	—	—	—	39	3
Credenz	CZ 4959 RY	51.4	57.0	—	—	30	1
Armor	ARX4906 *	50.6	—	—	—	41	1
Armor	48-D80	50.3	—	—	—	37	1
Asgrow	AG48X7	49.8	—	—	—	36	1
USG	7497XT *	47.2	—	—	—	39	1
Dyna-Gro	S48RS53	46.6	60.4	66.8	—	33	1
Mean		58.8					
LSD		5.7					
Error df		108					
CV		7.1					
R^2		70.4					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 64. Roundup Ready Maturity Group V Early Irrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Croplan	R2C5225S	79.5	—	—	—	40	1
Mycogen	5N523R2	71.3	—	—	—	39	2
Delta Grow	DG 5580RR2	70.7	—	—	—	25	1
Delta Grow	DG 5170 RR2/STS	70.6	75.7	—	—	40	1
Progeny	P 5226RYS	69.9	75.1	—	—	38	2
REV	51A56	66.9	73.9	—	—	35	1
Armor	53-D04	66.6	—	—	—	22	1
Progeny	P 5417RX	66.4	—	—	—	26	1
USG	7506XTS	64.8	—	—	—	33	1
Armor	55-R68	64.7	—	—	—	23	1
Progeny	P 5555RY	64.1	79.2	81.5	—	22	1
REV	52A94	63.8	76.6	76.1	—	26	1
NK	S55-Q3	63.6	73.4	77.5	—	28	1
Delta Grow	DG 5230 RR2	63.5	78.9	81.0	—	25	1
Credenz	CZ 5375 RY	63.2	—	—	—	19	1
Progeny	P 5016RXS	62.6	—	—	—	32	1
Dyna-Gro	S52RY75	62.2	76.4	80.1	—	21	1
USG	7547XT *	61.7	—	—	—	22	1
U. of Arkansas	R101-89RY *	61.5	69.5	—	—	21	1
Pioneer	P55T81R	61.0	—	—	—	24	1
Delta Grow	DG 5625RR2	60.9	72.1	—	—	23	1
Dyna-Gro	S56RY84	60.8	76.2	80.5	—	22	1
Asgrow	AG54X6	60.4	—	—	—	41	1
Delta Grow	DG 5555RR	59.9	—	—	—	29	1
U. of Arkansas	R10-197RY *	58.8	72.1	73.9	—	24	1
USG	7557XT *	58.0	—	—	—	45	1
Pioneer	P52T50R	57.6	—	—	—	21	1
Asgrow	AG53X6	57.4	—	—	—	23	1
REV	56R93	56.8	—	—	—	30	1
Croplan	R2C5265	56.6	—	—	—	24	1
Armor	ARX5506 *	56.4	—	—	—	46	1
USG	7536XT *	56.0	—	—	—	21	1
GoSoy	5214GTS	56.0	—	—	—	32	1
Progeny	P 5631RX	55.7	—	—	—	38	1
U. of Arkansas	UA 5414RR	51.8	65.0	—	—	26	1
NK	S56-M8	44.6	—	—	—	22	1
Mean		61.8					
LSD		6					
Error df		70					
CV		7.1					
R^2		75.6					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 65. Roundup Ready Maturity Group V Late Irrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Progeny	P 5752RY	62.6	72.9	—	—	—	—
USG	75B75R	61.1	74.4	—	—	—	—
Progeny	P 5768RX	60.6	—	—	—	—	—
U. of Arkansas	R07-6614RR *	59.4	—	—	—	—	—
USG	7576XT *	58.2	—	—	—	—	—
Dyna-Gro	S57RY26	55.7	71.5	—	—	—	—
NK	S58-Z4	53.2	63.6	—	—	—	—
REV	57R21	48.4	68.9	73.5	—	—	—
Mean		57.4					
LSD		9.2					
Error df		14					
CV		11.1					
R^2		53.6					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 66. Maturity Group IV Liberty Link Irrigated Soybean (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Delta Grow	DG 4967LL	94.3	85.5	82.1	—	46	2
Go Soy	4913LL	77.2	—	—	—	40	1
Dyna-Gro	S49LL34	75.3	81.3	80.1	—	44	1
Delta Grow	DG 4781LL	73.1	79.2	—	—	36	1
Progeny	P 4930LL	72.6	76.4	77.8	—	40	1
Hornbeck	HBK LL 4953	72.6	78.1	78.9	—	34	1
Delta Grow	DG 4587LL/STS	70.9	—	—	—	34	1
Go Soy	4714LL	70.9	79.4	—	—	38	1
REV	49L49	70.7	—	—	—	41	1
Go Soy	4912LL	70.2	—	—	—	34	1
Progeny	P 4247LL	69.8	—	—	—	31	1
Delta Grow	DG 4977LL/STS	68.4	71.0	—	—	42	2
Credenz	CZ 4540 LL	67.5	67.4	—	—	37	1
Credenz	CZ 4748 LL	66.1	74.3	—	—	39	1
Credenz	CZ 4818 LL	66.1	68.1	—	—	40	1
Credenz	CZ 4222 LL	65.7	—	—	—	31	1
Progeny	P 4814LLS	65.5	72.1	—	—	44	2
REV	48L63 *	64.5	—	—	—	40	1
Credenz	CZ 4044 LL	58.1	—	—	—	24	1
Credenz	CZ 4105 LL	53.4	57.7	—	—	23	1
Mean		69.7					
LSD		7.2					
Error df		38					
CV		7.6					
R^2		77.7					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 67. Maturity Group V Liberty Link Irrigated Soybean (Delta Branch Experiment station, Stoneville, clay).

Brand	Variety	Yield			Maturity date[1]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Dyna-Gro	S55LS75	56.2	63.6	—	—	27	1
Go Soy	5115LL	55.7	67.1	—	—	43	1
Credenz	CZ 5225 LL	55.7	—	—	—	23	1
Dyna-Gro	S52LL66	54.4	65.6	—	—	46	1
Credenz	CZ 5445 LL	54.3	50.8	—	—	25	1
Credenz	CZ 5147 LL	54.2	62.9	—	—	20	1
Credenz	CZ 5150 LL	53.8	66.8	68.2	—	40	1
Go Soy	5515LL	53.4	63.9	—	—	25	1
Go Soy	5215LL	53.3	65.8	—	—	49	1
Delta Grow	DG 5067LL	52.3	65.9	—	—	43	1
Credenz	CZ 5242 LL	52.1	64.9	67.0	—	45	1
Credenz	CZ 5515 LL	44.3	53.1	—	—	47	1
Mean		53.3					
LSD		5.4					
Error df		22					
CV		7.1					
R^2		54					

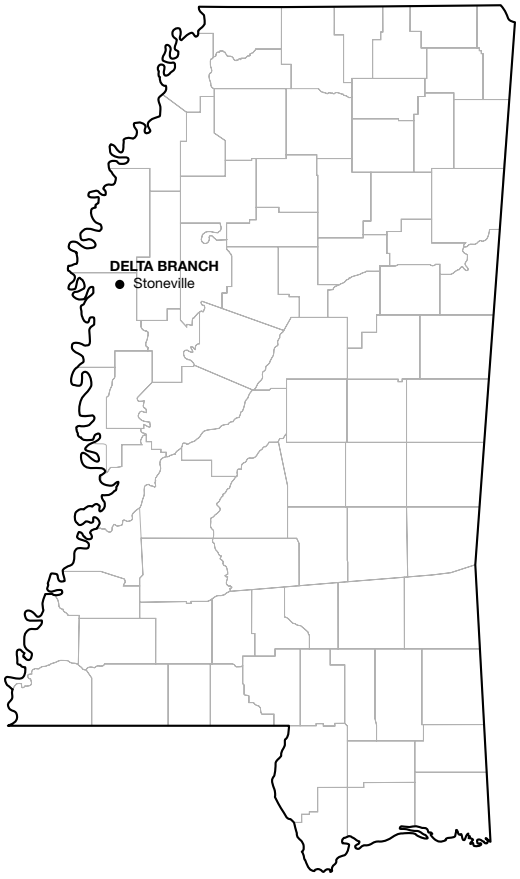
[1]No maturity dates taken.

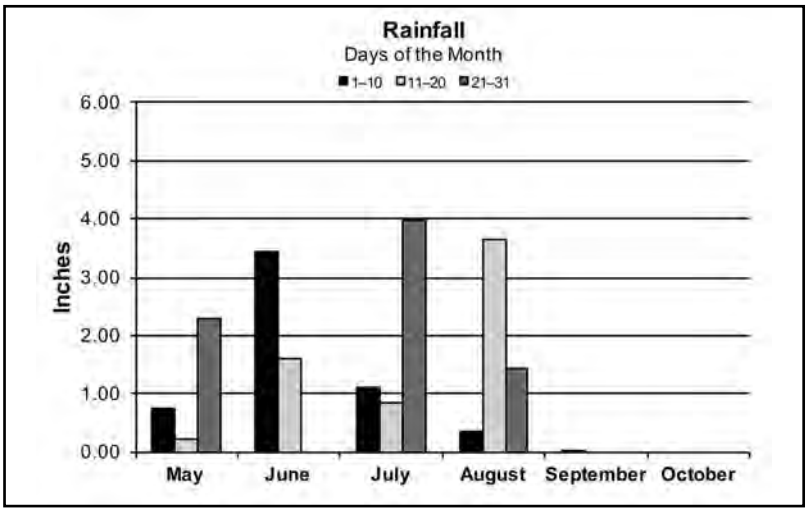
STONEVILLE (loam), DELTA BRANCH

Crop Summary

The plots were planted into a seedbed that had been disked and hipped just before planting. Soil moisture at planting was adequate for germination. All plots quickly emerged to a good stand. Timely summer rains, in combination with a couple of furrow irrigations, allowed for ample soil moisture throughout the growing season. Harvest was made in a timely manner, and good yield was observed.

Planting date ..... **May 5**
Harvest date ..... **IV Early and IV Late Roundup Ready on September 20; V Early and V Late Roundup Ready on October 3**
Soil type ..... **Bosket and Commerce very fine sandy loam**
Soil pH **6.8**
Soil fertility ..... **P=H, K=H^{+}**
Previous crop ..... **Cotton**
Herbicide applications .... **Preemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 32 oz/A, and Gramoxone @ 32 oz/A on May 5**
Postemergence — Roundup PowerMAX @ 32 oz/A and Prefix @ 24 oz/A on June 29
Irrigation ..... **Furrow irrigated on June 30 and July 18**





Rainfall Summary

	Inches
May	3.26
June	5.06
July	5.96
August	5.44
September	0.03
October	0.00
Total	19.75

Table 68. Roundup Ready Maturity Group IV Early Irrigated Soybean (Delta Branch Experiment Station, Stoneville, loam).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	45A46 *	86.4	—	—	—	39	1
Credenz	CZ 4590 RY	86.3	84.3	—	—	43	3
Progeny	P 4211RY	84.3	78.7	81.0	—	37	1
Credenz	CZ 4181 RY	82.1	—	—	—	40	1
NK	S45-W9	82.0	—	—	—	29	2
NK	S39-T3	81.5	—	—	—	32	1
Mycogen	5N414R2	81.4	—	—	—	40	2
AGS	GS45R216	80.1	—	—	—	38	1
Progeny	P 4613RYS	79.6	76.3	81.9	—	40	1
Asgrow	AG42X6	79.3	—	—	—	34	1
Dyna-Gro	31RY45	78.0	81.6	85.2	—	40	1
Armor	46-D08	77.3	—	—	—	32	1
Dyna-Gro	S43RY95	77.3	77.1	80.4	—	42	1
Pioneer	P41T33R	76.9	—	—	—	28	1
Progeny	P 4516RXS	76.7	—	—	—	43	1
NK	S39-C4	76.6	—	—	—	33	1
Great Heart Seed	GT-4540XS	76.3	—	—	—	38	1
Mycogen	5N452R2	75.6	79.6	86.0	—	32	2
Asgrow	AG46X6	75.3	—	—	—	38	1
Asgrow	AG4632	75.2	76.6	81.4	—	34	2
Mycogen	5N424R2	74.5	—	—	—	31	1
Progeny	P 4620RXS	73.7	—	—	—	34	2
Delta Grow	DG 4680RR2	73.6	—	—	—	39	2
Dyna-Gro	S45XS66	72.8	—	—	—	39	2
Mycogen	5N433R2	72.7	78.5	—	—	42	2
Asgrow	AG46X7	71.9	—	—	—	38	1
Progeny	P 4588RY	71.8	—	—	—	34	1
Asgrow	AG45X6	70.6	—	—	—	32	1
Asgrow	AG44X6	70.4	—	—	—	38	1
Delta Grow	4670RR2	69.7	76.4	79.4	—	26	1
Great Heart Seed	GT-4430XS	67.7	—	—	—	46	2
NK	S42-P6	66.1	—	—	—	34	1
Credenz	CZ 4656 RY	65.1	—	—	—	41	3
Mean		76.1					
LSD		8.5					
Error df		64					
CV		8.2					
R^2		51.7					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 69. Roundup Ready Maturity Group IV Late Irrigated Soybean (Delta Branch Experiment Station, Stoneville, loam).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
REV	48A26 *	84.0	—	—	—	38	1
REV	47R34	83.4	75.6	75.5	—	42	2
Pioneer	P47T36R	83.1	—	—	—	43	1
Great Heart Seed	GT-477CR2	82.5	82.1	—	—	46	1
USG	7496XTS	81.5	—	—	—	35	1
Progeny	P 4788RY	81.2	75.4	80.4	—	42	1
Progeny	P 4799RXS	79.0	—	—	—	37	1
NK	S47-K5	78.9	78.3	78.6	—	40	3
REV	48A76 *	78.8	—	—	—	35	2
Armor	48-D24	78.7	—	—	—	32	1
Armor	47-D17	78.4	—	—	—	40	2
Pioneer	P47T89R	78.2	—	—	—	37	1
Great Heart Seed	GT-4860X	78.1	—	—	—	44	1
Delta Grow	DG 4790RR2	77.6	80.2	—	—	38	2
Delta Grow	DGX 4845RR2	76.7	—	—	—	34	1
AGS	GS47R216	76.7	—	—	—	33	1
REV	49R94	76.3	74.6	76.7	—	40	2
Credenz	CZ 4959 RY	75.7	73.6	—	—	41	1
AGS	GS48R216	75.6	—	—	—	38	1
Armor	47-R70	75.4	—	—	—	38	1
Mycogen	5N490R2	75.2	73.3	75.1	—	43	1
Asgrow	AG47X6	74.9	—	—	—	45	1
Croplan	R2C4700S	74.8	—	—	—	42	1
Great Heart Seed	GT-476CR2	74.5	71.2	74.9	—	43	1
Delta Grow	DG 4825 RR2/STS	74.2	71.5	78.5	—	43	2
Progeny	P 4816RX	73.7	—	—	—	39	2
Progeny	P 4757RY	73.6	76.3	—	—	38	1
REV	49A75	73.5	75.2	—	—	36	2
Delta Grow	DG 4995 RR	73.0	66.5	—	—	29	1
Dixie Bell	DB 4911	72.6	—	—	—	32	1
Armor	ARX4706 *	72.0	—	—	—	41	1
Croplan	R2C4775	72.0	—	—	—	42	1
Go Soy	4814GTS	71.5	—	—	—	45	2
Go Soy	49G16	71.0	—	—	—	27	1
Dixie Bell	DB 4965	70.8	—	—	—	29	1
NK	S49-B1	70.7	—	—	—	36	1
Dyna-Gro	S48XT56	69.9	—	—	—	34	1
Progeny	P 4900RY	69.2	74.0	78.3	—	39	1
Mycogen	5N480R2	69.0	—	—	—	43	1
Delta Grow	DG 4880RR	69.0	71.1	75.1	—	43	2
Dixie Bell	DB 4787	69.0	—	—	—	22	1
Asgrow	AG49X6	68.6	—	—	—	37	1
Credenz	CZ 4898 RY	66.7	—	—	—	42	2
Delta Grow	DG 4970RR	64.7	68.7	71.3	—	42	3
USG	74K95RS	64.3	63.5	—	—	43	1
Dyna-Gro	S49XT07	64.0	—	—	—	39	1
Armor	48-D80	63.9	—	—	—	44	1
Progeny	P 4944RX	63.9	—	—	—	38	1
Armor	49-D66	63.0	—	—	—	45	1
Asgrow	AG48X7	61.7	—	—	—	42	1
AGS	GS4915R2	61.7	—	—	—	39	1
Dyna-Gro	S48RS53	60.6	64.9	71.4	—	43	1
Armor	ARX4906 *	59.5	—	—	—	42	2
USG	7487XTS *	58.4	—	—	—	37	1
USG	7497XT *	53.5	—	—	—	39	1
Mean		72.2					
LSD		8.7					
Error df		108					
CV		8.9					
R^2		64.6					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 70. Roundup Ready Maturity Group V Early Irrigated Soybean (Delta Branch Experiment Station, Stoneville, loam).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Croplan	R2C5225S	84.0	—	—	—	52	2
Progeny	P 5016RXS	82.2	—	—	—	46	1
Delta Grow	DG 5170 RR2/STS	82.0	83.1	—	—	42	1
Progeny	P 5226RYS	81.0	79.9	—	—	46	2
Dyna-Gro	S52RY75	78.4	82.8	87.0	—	28	1
Mycogen	5N523R2	77.9	—	—	—	52	2
Delta Grow	DG 5580RR2	76.6	—	—	—	25	1
REV	51A56	76.3	81.6	—	—	44	1
USG	7506XTS	75.2	—	—	—	42	1
Delta Grow	DG 5230 RR2	75.1	81.8	84.6	—	25	1
Croplan	R2C5265	74.3	—	—	—	27	1
Pioneer	P52T50R	73.8	—	—	—	30	1
USG	7536XT *	73.7	—	—	—	28	1
U. of Arkansas	R10-197RY *	72.4	73.9	78.2	—	30	1
Asgrow	AG53X6	71.0	—	—	—	26	1
Armor	55-R68	70.8	—	—	—	32	1
Delta Grow	DG 5625RR2	70.2	72.9	—	—	27	1
Progeny	P 5555RY	69.9	70.4	76.5	—	33	1
NK	S55-Q3	69.6	72.6	79.2	—	28	1
Credenz	CZ 5375 RY	69.3	—	—	—	34	1
Armor	53-D04	69.2	—	—	—	28	1
U. of Arkansas	R101-89RY *	68.2	72.4	—	—	26	1
Progeny	P 5417RX	66.9	—	—	—	29	1
NK	S56-M8	66.5	—	—	—	31	1
Asgrow	AG54X6	65.7	—	—	—	46	1
USG	7547XT *	64.5	—	—	—	25	1
Dyna-Gro	S56RY84	63.1	67.2	75.9	—	33	1
Pioneer	P55T81R	63.0	—	—	—	34	1
REV	52A94	61.3	72.4	77.9	—	28	1
Delta Grow	DG 5555RR	60.6	—	—	—	34	1
GoSoy	5214GTS	60.6	—	—	—	38	2
U. of Arkansas	UA 5414RR	59.2	67.1	—	—	29	1
Progeny	P 5631RX	58.4	—	—	—	47	1
Armor	ARX5506 *	58.4	—	—	—	55	1
USG	7557XT *	57.5	—	—	—	58	2
REV	56R93	52.2	—	—	—	38	1
Mean		69.4					
LSD		6.2					
Error df		70					
CV		6.6					
R^2		82.2					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 71. Roundup Ready Maturity Group V Late Irrigated Soybean (Delta Branch Experiment Station, Stoneville, loam).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
USG	75B75R	67.9	77.8	—	—	31	1
Progeny	P 5768RX	63.4	—	—	—	27	1
U. of Arkansas	R07-6614RR *	61.8	—	—	—	30	1
USG	7576XT *	61.2	—	—	—	28	1
Dyna-Gro	S57RY26	59.7	73.5	—	—	33	1
REV	57R21	58.8	74.1	81.9	—	35	1
NK	S58-Z4	57.1	65.6	—	—	30	1
Progeny	P 5752RY	53.3	68.3	—	—	29	1
Mean		60.4					
LSD		9.5					
Error df		14					
CV		10.9					
R^2		44.4					

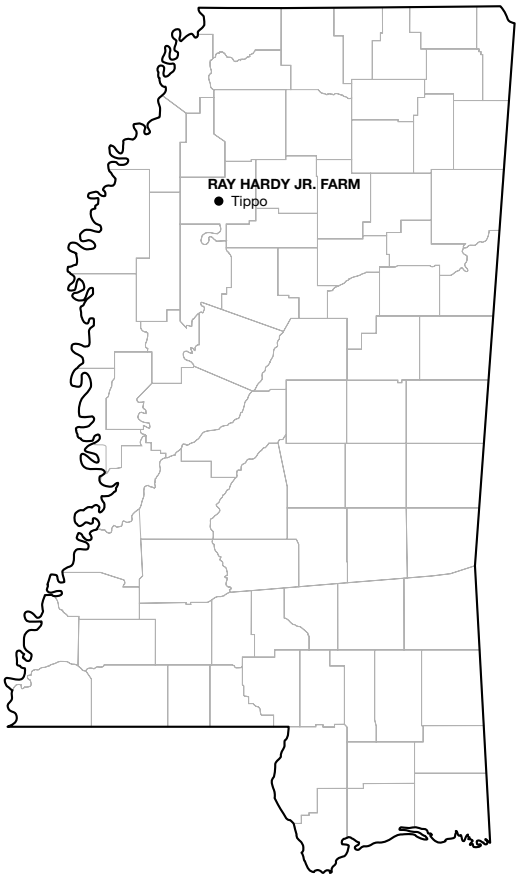
[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

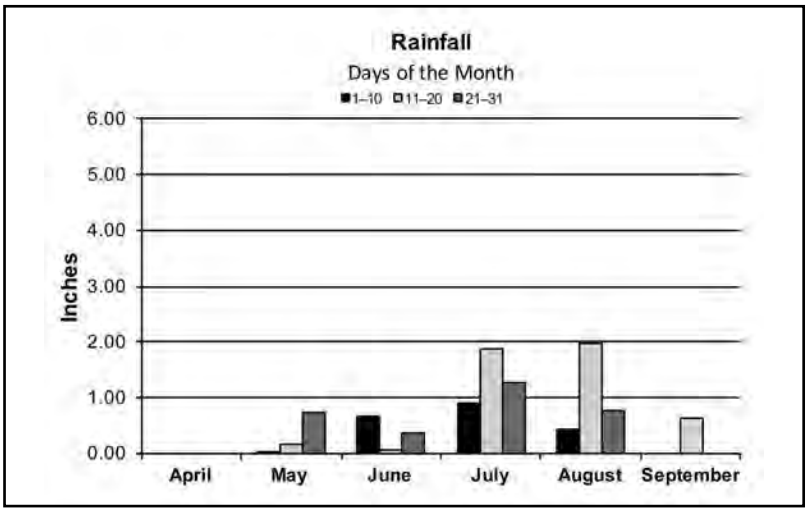
TIPPO, RAY HARDY JR. FARM

Crop Summary

The soybean plots were planted in late April due to the frequency of rainfall events during the early spring. Soil moisture at planting was optimum for germination. All plots quickly emerged to a good stand. The growing season was hot and very dry. However, a few timely rains allowed for respectable yield at a dryland location. Harvest was completed in a timely manner.

Planting date . . . . . **April 27**
Harvest date . . . . . **IV Early and IV Late Roundup Ready on September 14**
Soil type . . . . . **Dundee and Tensas silt loam**
Soil pH **6.3**
Soil fertility . . . . . **P=H, K=H**
Previous crop . . . . . **Soybean**
Fertilizer added . . . . . **None**
Herbicide applications . . . . **Preemergence — Authority MTZ @ 12 oz/A and Dual II Magnum @ 24 oz/A on April 27**





Rainfall Summary

	Inches
April	0.00
May	0.93
June	1.08
July	4.02
August	3.18
September	0.62
Total	9.83

Table 72. Roundup Ready Maturity Group IV Early Nonirrigated Soybean (Ray Hardy Jr. Farm, Tippo).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Mycogen	5N452R2	48.1	77.8	60.5	—	23	1
Dyna-Gro	S43RY95	46.0	72.3	56.2	—	26	1
Asgrow	AG4632	44.0	71.1	54.8	—	25	1
Dyna-Gro	31RY45	43.6	71.6	59.1	—	24	1
AGS	GS45R216	42.5	—	—	—	27	1
NK	S39-T3	41.3	—	—	—	21	1
Mycogen	5N433R2	40.3	66.6	—	—	25	1
Credenz	CZ 4656 RY	40.3	—	—	—	26	1
Delta Grow	DG 4680RR2	40.0	—	—	—	23	1
REV	45A46 *	38.6	—	—	—	29	1
NK	S45-W9	38.2	—	—	—	22	1
Mycogen	5N414R2	37.8	—	—	—	21	1
Progeny	P 4211RY	37.8	62.0	48.7	—	24	1
Credenz	CZ 4181 RY	35.1	—	—	—	23	1
Progeny	P 4588RY	34.7	—	—	—	22	1
Progeny	P 4613RYS	34.1	64.9	55.7	—	24	1
Pioneer	P41T33R	33.0	—	—	—	23	1
Mycogen	5N424R2	31.5	—	—	—	19	1
NK	S39-C4	31.2	—	—	—	23	1
NK	S42-P6	30.9	—	—	—	24	1
Delta Grow	4670RR2	30.9	59.2	54.0	—	25	1
Credenz	CZ 4590 RY	30.0	54.8	—	—	24	1
Mean		37.7					
LSD		6.2					
Error df		42					
CV		12					
R^2		73.1					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

Table 73. Roundup Ready Maturity Group IV Late Nonirrigated Soybean (Ray Hardy Jr. Farm, Tippo).

Brand	Variety[1]	Yield			Maturity date[2]	Plant height	Lodging score
		2016	2-yr. avg.	3-yr. avg.			
		bu/A	*bu/A*	*bu/A*		*in*	*1-5*
Go Soy	49G16	59.0	—	—	—	28	1
Dixie Bell	DB 4965	57.8	—	—	—	22	1
Dixie Bell	DB 4911	55.9	—	—	—	26	1
Delta Grow	DG 4995 RR	54.5	47.4	—	—	28	1
USG	74K95RS	53.5	53.4	—	—	24	1
Dixie Bell	DB 4787	52.3	—	—	—	24	1
REV	47R34	50.9	58.8	65.8	—	23	1
Armor	47-R70	50.4	—	—	—	28	1
AGS	GS48R216	50.4	—	—	—	24	1
Progeny	P 4900RY	50.3	46.2	49.3	—	24	1
Delta Grow	DG 4790RR2	50.2	61.3	—	—	27	1
Credenz	CZ 4898 RY	49.9	—	—	—	29	1
REV	48A76 *	49.0	—	—	—	25	1
Mycogen	5N480R2	48.6	—	—	—	28	1
AGS	GS4915R2	48.1	—	—	—	27	1
Go Soy	4814GTS	48.0	—	—	—	35	1
REV	49R94	48.0	55.4	60.7	—	28	1
Dyna-Gro	S48RS53	47.8	55.1	61.5	—	28	1
AGS	GS47R216	46.6	—	—	—	28	1
Pioneer	P47T89R	46.3	—	—	—	27	1
Progeny	P 4788RY	44.4	52.3	53.9	—	33	1
Croplan	R2C4775	44.0	—	—	—	28	1
Credenz	CZ 4959 RY	43.8	46.3	—	—	25	1
Great Heart Seed	GT-477CR2	43.7	46.6	—	—	28	1
REV	49A75	43.0	47.2	—	—	25	1
Delta Grow	DG 4825 RR2/STS	42.8	49.3	57.3	—	23	1
NK	S47-K5	42.4	55.4	54.9	—	23	1
REV	48A26 *	42.2	—	—	—	26	1
Croplan	R2C4700S	42.1	—	—	—	26	2
NK	S49-B1	41.7	—	—	—	23	1
Pioneer	P47T36R	40.2	—	—	—	24	1
Mycogen	5N490R2	39.7	49.7	51.5	—	26	1
Progeny	P 4757RY	39.5	49.8	—	—	27	1
Delta Grow	DG 4970RR	38.3	42.2	51.2	—	27	1
Delta Grow	DG 4880RR	37.6	40.4	55.8	—	24	1
Great Heart Seed	GT-476CR2	37.4	44.5	49.6	—	26	1
Mean		46.7					
LSD		7.7					
Error df		70					
CV		12.1					
R^2		70.3					

[1]Variety followed by an asterisk indicates an experimental entry.
[2]No maturity dates taken.

RAYMOND, BROWN LOAM BRANCH

Data Not Reported at Raymond

Soybean harvest data and variety performance are not published from the Brown Loam Branch Experiment Station near Raymond due to substantial variability with the trial. This condition was likely caused by multiple factors. However, heavy insect pressure and environmental conditions probably contributed the most to the decision to leave out this trial. We determined it was best not to harvest and publish data from this location to ensure that no entry would be given a false sense of yield potential due to the variability both within the replications and the varieties themselves.

2016 SOYBEAN VARIETY TRIAL STEM CANKER REPORT

All of the entries in the 2016 Mississippi State University variety trials were evaluated for their reaction to the stem canker fungus. Trials consisted of single rows of each cultivar planted in 10-foot plots and replicated four times. Within each row, a total of eight plants were inoculated with a single toothpick that contained the fungus that causes stem canker. Plants were inoculated approximately eight weeks after planting. Evaluations of stem canker severity were conducted between R6 and R6.5 by observing the stem of each inoculated plant for the presence of a canker. Observations of each variety were conducted using a modified 0–9 scale. Information in each table (Tables 74–83) contains the analyzed stem canker rating as an average of all inoculated plants within a single plot. In addition, each cultivar includes a stem canker designation: R = resistant, MR = moderately resistant, MS = moderately susceptible, and S = susceptible. In field situations where stem canker has been observed, plant cultivars that have been observed to contain resistance to stem canker. In addition, keep in mind that observations of stem canker tend to be more obvious when the environment is conducive for disease development. Therefore, over time, and in years when the environment may not be conducive for the development of stem canker, it is possible that stem canker designations could change between years.

Table 74. Response of Maturity Group IV Early Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
Dyna-Gro 39RY43 (Check)	4.75 a	MS
AGS GS45R216	0.31 de	R
Asgrow AG4632	0.59 cde	R
Credenz CZ 4181 RY	0.41 de	R
Credenz CZ 4590 RY	1.66 b-e	R
Credenz CZ 4656 RY	2.53 a-e	R
Delta Grow DG 4670RR2	3.00 a-d	MR
Delta Grow DG 4680RR2	0.94 b-e	R
Dyna-Gro 31RY45	0.56 de	R
Dyna-Gro S43RY95	0.47 de	R
Mycogen 5N414R2	1.00 b-e	R
Mycogen 5N424R2	1.69 b-e	R
Mycogen 5N433R2	0.28 e	R
Mycogen 5N452R2	0.88 b-e	R
NK S39-C4	3.34 ab	MR
NK S39-T3	4.97 a	MS
NK S42-P6	0.41 de	R
NK S45-W9	1.19 b-e	R
Pioneer P41T33R	0.34 de	R
Progeny Ag Products P 4211RY	3.28 abc	MR
Progeny Ag Products P 4588RY	1.09 b-e	R
Progeny Ag Products P 4613RYS	0.38 de	R
Terral® REV 45A46™	0.06 e	R
LSD (0.05)	2.7	—
CV (%)	127.6	—
P-value for F-statistic	0.0045	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 75. Response of Maturity Group IV Late Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
Dyna-Gro 39RY43 (Check)	5.59 ab	MS
AGS GS47R216	1.06 ghi	R
AGS GS48R216	2.28 d-g	R
AGS GS4915R2	0.72 ghi	R
Armor 47-R70 (AR4705)	0.66 ghi	R
Credenz CZ 4898 RY	4.13 bcd	MR
Credenz CZ 4959 RY	0.03 i	R
Croplan R2C4700S	0.72 ghi	R
Croplan R2C4775	3.09 c-f	MR
Delta Grow DG 4790RR2	0.66 ghi	R
Delta Grow DG 4825RR2/STS	0.25 i	R
Delta Grow DG 4880RR	0.56 ghi	R
Delta Grow DG 4970RR	0.13 i	R
Delta Grow DG 4995RR	2.19 e-h	R
Dixie Bell DB 4787	4.88 abc	MR
Dixie Bell DB 4911	6.34 a	MS
Dixie Bell DB 4965	1.78 f-i	R
Dyna-Gro S48RS53	0.66 ghi	R
Go Soy 4814GTS	0.38 ghi	R
Go Soy 49G16	3.81 b-e	MR
Great Heart Seed GT-476CR2	1.72 f-i	R
Great Heart Seed GT-477CR2	0.00 i	R
Mycogen 5N480R2	0.31 hi	R
Mycogen 5N490R2	0.25 i	R
NK S47-K5	0.28 hi	R
NK S49-B1	0.34 hi	R
Pioneer P47T36R	0.00 i	R
Pioneer P47T89R	0.09 i	R
Progeny Ag Products P 4757RY	0.06 i	R
Progeny Ag Products P 4788RY	1.28 f-i	R
Progeny Ag Products P 4900RY	0.00 i	R
Terral® REV 47R34™	0.00 i	R
Terral® REV 48A26™	0.72 ghi	R
Terral® REV 48A76™	0.06 i	R
Terral® REV 49A75™	1.06 ghi	R
Terral® REV 49R94™	0.00 i	R
USG 74K95RS	0.22 i	R
LSD (0.05)	1.9	—
CV (%)	109.9	—
P-value for F-statistic	<0.0001	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 76. Response of Maturity Group V Early Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
DG 5128 (Check)	5.56 a	MS
Armor 55-R68	0.50 cd	R
Credenz CZ 5375 RY	0.03 d	R
Croplan R2C5225S	0.56 cd	R
Croplan R2C5265	0.00 d	R
Delta Grow DG 5170RR2/STS	0.06 d	R
Delta Grow DG 5230RR2	0.28 cd	R
Delta Grow DG 5555RR	0.84 cd	R
Delta Grow DG 5580RR2	0.13 d	R
Delta Grow DG 5625RR2	0.22 cd	R
Dyna-Gro S52RY75	1.06 cd	R
Dyna-Gro S56RY84	0.78 cd	R
GoSoy 5214GTS	2.06 bc	R
Mycogen 5N523R2	0.59 cd	R
NK S55-Q3	0.59 cd	R
NK S56-M8	0.00 d	R
Pioneer P52T50R	0.88 cd	R
Pioneer P55T81R	0.84 cd	R
Progeny Ag Products P 5226RYS	0.06 d	R
Progeny Ag Products P 5555RY	0.38 cd	R
Terral® REV 51A56™	0.00 d	R
Terral® REV 52A94™	3.34 b	MR
Terral® REV 56R93™	0.03 d	R
Univ. of Arkansas R10-197RY	0.59 cd	R
Univ. of Arkansas R11-89RY	1.31 cd	R
Univ. of Arkansas UA 5414RR(R04-1268RR)	0.66 cd	R
LSD (0.05)	1.8	—
CV (%)	159.4	—
P-value for F-statistic	<0.0001	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 77. Response of Maturity Group V Late Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
NK 59-V9 (Check)	0.06	R
Dyna-Gro S57RY26	1.91	R
NK S58-Z4	1.06	R
Progeny Ag Products P 5752RY	0.34	R
Univ. of Arkansas R07-6614RR	0.94	R
Terral® REV 57R21™	1.84	R
USG 75B75R	0.66	R
LSD (0.05)	1.8	—
CV (%)	124.2	—
P-value for F-statistic	0.2862	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 78. Response of Maturity Group IV Xtend Soybean Cultivars to Stem Canker, 2016.		
Cultivar	**Stem canker rating[1,2]**	**Cultivar designation[3]**
Dyna-Gro 39RY43 (Check)	4.75 a	MS
Armor 46-D08	0.72 d-g	R
Armor 47-D17	1.19 b-f	R
Armor 48-D24	0.33 fg	R
Armor 48-D80	0.72 d-g	R
Armor 49-D66	0.44 efg	R
Armor 49-D90	0.06 fg	R
Armor ARX4706	0.09 fg	R
Armor ARX4906	0.25 fg	R
Asgrow AG42X6	1.58 b-e	R
Asgrow AG44X6	0.19 fg	R
Asgrow AG45X6	3.59 a	MR
Asgrow AG46X6	0.03 fg	R
Asgrow AG46X7	0.31 fg	R
Asgrow AG47X6	0.03 fg	R
Asgrow AG48X7	0.47 efg	R
Asgrow AG49X6	1.72 bcd	R
Delta Grow DGX 4845RR2	0.00 g	R
Dyna-Gro S45XS66	0.34 fg	R
Dyna-Gro S48XT56	0.06 fg	R
Dyna-Gro S49XT07	2.28 b	R
Great Heart Seed GT-4430XS	1.53 b-e	R
Great Heart Seed GT-4540XS	0.06 fg	R
Great Heart Seed GT-4860X	0.00 g	R
Progeny Ag Products P 4516RXS	0.69 d-g	R
Progeny Ag Products P 4620RXS	0.22 fg	R
Progeny Ag Products P 4799RXS	0.00 g	R
Progeny Ag Products P 4816RX	0.00 g	R
Progeny Ag Products P 4944RX	0.69 d-g	R
USG 7487XTS	0.84 c-g	R
USG 7496XTS	0.06 fg	R
USG 7497XT	1.91 bc	R
LSD (0.05)	1.2	—
CV (%)	104.6	—
P-value for F-statistic	<0.0001	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 79. Response of Maturity Group V Xtend Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
Delta Grow DG 5128 (Check)	5.56 a	MS
Armor 53-D04	0.09 b	R
Armor ARX5506	0.72 b	R
Asgrow AG53X6	0.84 b	R
Asgrow AG54X6	0.25 b	R
Progeny Ag Products P 5016RXS	0.56 b	R
Progeny Ag Products P 5417RX	0.63 b	R
Progeny Ag Products P 5631RX	0.06 b	R
Progeny Ag ProductsP 5768RX	0.34 b	R
USG 7506XTS	0.22 b	R
USG 7536XT	0.31 b	R
USG 7547XT	0.59 b	R
USG 7557XT	0.03 b	R
USG7576XT	0.00 b	R
LSD (0.05)	1.2	—
CV (%)	113.6	—
P-value for F-statistic	<0.0001	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 80. Response of Maturity Group IV Liberty Link Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
Delta Grow DG 4567 (Check)	8.72 a	S
Credenz CZ 4044 LL	3.97 c	MR
Credenz CZ 4105 LL	3.03 cd	MR
Credenz CZ 4222 LL	1.44 cd	R
Credenz CZ 4540 LL	2.97 cd	R
Credenz CZ 4748 LL	0.53 d	R
Credenz CZ 4818 LL	3.84 c	MR
Credenz HBK LL 4953	1.47 cd	R
Delta Grow DG 4587LL/STS	2.44 cd	R
Delta Grow DG 4967LL	2.84 cd	R
Delta Grow DG 4977LL/STS	2.06 cd	R
Delta Grow DG 4781LL	2.25 cd	R
Dyna-Gro S49LL34	3.47 cd	MR
GoSoy 4714LL	4.31 bc	MR
GoSoy 4912LL	8.22 a	S
GoSoy 4913LL	7.53 ab	S
Progeny Ag Products P 4247LL	7.72 a	S
Progeny Ag Products P 4814LLS	2.84 cd	R
Progeny Ag Products P 4930LL	2.44 cd	R
Terral® REV 49L49™	1.19 cd	R
Terral® REV 48L63™	2.22 cd	R
LSD (0.05)	3.2	—
CV (%)	63.9	—
P-value for F-statistic	<0.0001	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 81. Response of Maturity Group V Liberty Link Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
Delta Grow DG 4567 (Check)	4.00	MR
Credenz CZ 5147 LL	4.44	MR
Credenz CZ 5150 LL	3.38	MR
Credenz CZ 5225 LL	1.06	R
Credenz CZ 5242 LL	3.50	MR
Credenz CZ 5445 LL	3.91	MR
Credenz CZ 5515 LL	0.19	R
Delta Grow DG5067LL	3.25	MR
Dyna-Gro S52LL66	1.84	R
Dyna-Gro S55LS75	2.47	R
Go Soy 5115LL	4.19	MR
Go Soy 5215LL	0.94	R
Go Soy 5515LL	0.75	R
LSD (0.05)	4.2	—
CV (%)	111.6	—
P-value for F-statistic	0.4385	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 82. Response of Maturity Group IV Conventional Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
J77-339 (Check)	3.47 ab	MR
GoSoy 483.C	2.47 bc	R
GoSoy Irene	0.00 d	R
Univ. of Missouri S12-2418	0.09 d	R
Univ. of Missouri S12-3782	0.94 cd	R
Univ. of Missouri S12-3791	5.53 a	MS
USG Ellis	1.22 cd	R
LSD (0.05)	2.2	—
CV (%)	74.5	—
P-value for F-statistic	0.0004	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 83. Response of Maturity Group V Conventional Soybean Cultivars to Stem Canker, 2016.

Cultivar	Stem canker rating[1,2]	Cultivar designation[3]
J77-339 (Check)	3.13	MR
GoSoy Leland	4.00	MR
Univ. of Arkansas Osage	6.44	MS
Univ. of Arkansas R09-430	3.94	MR
Univ. of Arkansas R10-230	3.78	MR
Univ. of Arkansas UA 5014C (R05-3239)	2.69	R
Univ. of Arkansas UA 5213C	1.97	R
Univ. of Arkansas UA 5612	3.47	MR
Univ. of Arkansas UA 5814HP (R09-3789)	2.41	R
Univ. of Missouri S11-17025	0.44	R
Univ. of Missouri S11-20214	4.56	MR
Univ. of Missouri S12-4718	2.44	R
USDA-ARS JTN-5110	1.31	R
LSD (0.05)	3.9	—
CV (%)	86.6	—
P-value for F-statistic	0.2715	—

[1]Stem Canker Reaction — eight plants per plot were inoculated with infested toothpicks. Ratings were given by individual plant reaction using a modified 0–9 scale based on lesion severity and are presented as the average for the eight plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length received a score of 9.
[2]Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).
[3]By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

PLANT CHARACTERISTICS

Table 84. Plant Characteristics of Maturity Group IV Early Roundup Ready Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
AGS	GS45R216	Purple	Brown	Tawny	Black	2983	—	4.5
Armor	46-D08	—	—	—	—	4400	—	4.6
Asgrow	AG42X6	Purple	Brown	Gray	Imp. Black	3020	—	4.2
Asgrow	AG44X6	White	Brown	Light Tawny	Black	2690	—	4.4
Asgrow	AG45X6	Purple	Tan	Gray	Imp. Black	2700	—	4.5
Asgrow	AG46X6	Purple	Brown	Tawny	Black	2540	—	4.6
Asgrow	AG46X7	Purple	Brown	Light Tawny	Black	3410	—	4.6
Asgrow	AG4632	Purple	Brown	Light Tawny	Black	2855	—	4.6
Credenz	CZ 4181 RY	Purple	Brown	Light Tawny	Black	2750	I	4.1
Credenz	CZ 4590 RY	Purple	Tan	Tawny	Black	3565	I	4.5
Credenz	CZ 4656 RY	—	—	—	—	2500	I	4.6
Delta Grow	DG 4670RR2	Purple	Brown	Light Tawny	Black	3066	I	4.6
Delta Grow	DG 4680RR2	Purple	Brown	Tawny	Black	3117	I	4.6
Dyna-Gro	31RY45	Purple	Brown	Light Tawny	Black	2978	—	4.5
Dyna-Gro	S43RY95	Purple	Brown	Tawny	Black	2910	—	4.3
Dyna-Gro	S45XS66	Purple	Brown	Light Tawny	Black	2894	—	4.5
Great Heart Seed	GT-4540XS	Purple	Brown	Light Tawny	Black	3120	I	4.5
Great Heart Seed	GT-4430XS	Purple	Brown	Light Tawny	Black	3150	I	4.4
Mycogen	5N414R2	Purple	Brown	Light Tawny	Black	2550	—	4.1
Mycogen	5N433R2	Purple	Brown	Tawny	Black	3057	—	4.3
Mycogen	5N452R2	Purple	Brown	Light Tawny	Black	2406	—	4.5
Mycogen	5N424R2	Purple	Brown	Light Tawny	Black	2900	—	4.2
NK Brand	S39-T3	White	Tan	Light Tawny	Black	2518	—	3.9
NK Brand	S39-C4	Purple	Brown	Light Tawny	Black	2471	—	3.9
NK Brand	S42-P6	White	Tan	Light Tawny	Black	2850	—	4.2
NK Brand	S45-W9	White	Tan	Light Tawny	Black	3276	—	4.5
Pioneer	P41T33R	Purple	Tan	Light Tawny	Black	2956	—	4.1
Progeny Ag Products	P 4211RY	—	—	—	—	3087	—	4.2
Progeny Ag Products	P 4613RYS	—	—	—	—	2652	—	4.6
Progeny Ag Products	P 4588RY	—	—	—	—	3326	—	4.5
Progeny Ag Products	P 4516RXS	—	—	—	—	2925	—	4.5
Progeny Ag Products	P 4620RXS	—	—	—	—	3680	—	4.6
REV	45A46	Purple	Brown	Light	Black	3059	I	4.5

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 85. Plant Characteristics of Maturity Group IV Late Roundup Ready Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
AGS	GS47R216	White	Brown	Light Tawny	Black	2818	—	4.7
AGS	GS48R216	White	Tan	Light Tawny	Black	2737	—	4.8
AGS	GS4915R2	Purple	Tan	Gray	Imp. Black	2536	—	4.9
Armor	ARX4906	—	—	—	—	3414	—	4.9
Armor	49-D66	—	—	—	—	3390	—	4.9
Armor	47-R70	—	—	—	—	2650	—	4.7
Armor	47-D17	—	—	—	—	3002	—	4.7
Armor	ARX4706	—	—	—	—	2800	—	4.7
Armor	48-D24	—	—	—	—	2600	—	4.8
Armor	48-D80	—	—	—	—	2920	—	4.8
Asgrow	AG47X6	White	Brown	Light Tawny	Black	2900	—	4.7
Asgrow	AG48X7	Purple	Tan	Gray	Imp. Black	3000	—	4.8
Asgrow	AG49X6	Purple	Brown	Light Tawny	Black	3120	—	4.9
Credenz	CZ 4898 RY	—	—	—	—	2850	I	4.8
Credenz	CZ 4959 RY	Purple	Tan	Light Tawny	Black	2800	I	4.9
Croplan	R2C4775	White	Brown	Light Tawny	Black	2737	I	4.7
Croplan	R2C4700S	Purple	Tan	Light Tawny	Black	3200	I	4.7
Delta Grow	DG 4825RR2/STS	White	Tan	Light Tawny	Black	3558	I	4.8
Delta Grow	DG 4880RR	White	Brown	Tawny	Black	3189	—	4.8
Delta Grow	DG 4970RR	Purple	Brown	Light Tawny	Black	2650	—	4.9
Delta Grow	DG 4995RR	Purple	Tan	Tawny	Black	3468	—	4.9
Delta Grow	DG 4790RR2	White	Brown	Light Tawny	Black	3164	I	4.7
Delta Grow	DGX 4845RR2	Purple	Tan	Light Tawny	Black	2721	I	4.8
Dixie Bell	DB 4911	White	Tan	Tawny	Black	3975	—	4.7
Dixie Bell	DB 4965	Purple	Tan	Tawny	Black	3576	—	4.9
Dixie Bell	DB 4787	Purple	Tan	Tawny	Black	3593	—	4.9
Dyna-Gro	S49XT07	Purple	Brown	Light Tawny	Black	3193	—	4.9
Dyna-Gro	S48RS53	Purple	Tan	Gray	Imp. Black	2771	—	4.8
Dyna-Gro	S48XT56	Purple	Tan	Light Tawny	Black	2577	—	4.8
GoSoy	49G16	Purple	Tan	Tawny	Black	3939	—	4.9
GoSoy	4814GTS	Purple	Tan	Light Tawny	Imp. Black	3762	—	4.8
Great Heart Seed	GT-4860X	Purple	Tan	Light Tawny	Black	2673	I	4.8
Great Heart Seed	GT-476CR2	Purple	Brown	Light Tawny	Black	3176	I	4.7
Great Heart Seed	GT-477CR2	White	Brown	Light Tawny	Black	3000	I	4.7
Mycogen	5N490R2	—	—	—	—	3130	—	4.9
Mycogen	5N480R2	Purple	Brown	Light Tawny	Black	3450	—	4.8
NK Brand	S47-K5	White	Tan	Light Tawny	Black	3058	—	4.7
NK Brand	S49-B1	White	Tan	Light Tawny	Black	3147	—	4.9
Pioneer	P47T36R	White	Brown	Light Tawny	Black	3255	—	4.7
Pioneer	P47T89R	Purple	Brown	Light Tawny	Black	2728	—	4.7
Progeny Ag Products	P4757RY	—	—	—	—	3186	—	4.7
Progeny Ag Products	P4788RY	—	—	—	—	2673	—	4.7
Progeny Ag Products	P 4900RY	—	—	—	—	3059	—	4.9
Progeny Ag Products	P 4799RXS	—	—	—	—	2628	—	4.7
Progeny Ag Products	P 4816RX	—	—	—	—	2528	—	4.8
Progeny Ag Products	P 4944RX	—	—	—	—	3213	—	4.9
REV	47R34	Purple	Brown	Light Tawny	Black	3233	I	4.7
REV	48A76	Purple	Tan	Light Tawny	Black	3120	I	4.8
REV	49R94	Purple	Brown	Tan	Black	2753	I	4.9
REV	49A75	Purple	Brown	Tan	Black	2930	I	4.9
REV	48A26	Purple	Brown	Light Tawny	Black	2530	I	4.8
USG	7487XTS	Purple	Tan	Gray	Imp. Black	2882	—	4.8
USG	74K95RS	Purple	Tan	Gray	Imp. Black	3054	—	4.9
USG	7497XT	White	Tan	Gray	Imp. Black	3395	—	4.9
USG	7496XTS	Purple	Brown	Light Tawny	Black	2650	—	4.9

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 86. Plant Characteristics of Maturity Group V Early Roundup Ready Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
Armor	55-R68	—	—	—	—	3237	—	5.5
Armor	ARX5506	—	—	—	—	3292	—	5.5
Armor	53-D04	—	—	—	—	3120	—	5.3
Asgrow	AG53X6	White	Tan	Tawny	Brown	2760	—	5.3
Asgrow	AG54X6	Purple	Brown	Tawny	Black	2950	—	5.4
Credenz	CZ 5375 RY	—	—	—	—	2800	D	5.3
Croplan	R2C5225S	Purple	Tan	Light Tawny	Black	2565	I	5.2
Croplan	R2C5265	White	Tan	Light Tawny	Brown	3129	D	5.2
Delta Grow	DG 5170RR2/STS	Purple	Tan	Light Tawny	Black	3298	I	5.1
Delta Grow	DG 5230RR2	White	Tan	Light Tawny	Brown	3277	—	5.2
Delta Grow	DG 5580RR2	Purple	Tan	Light Tawny	Black	3251	—	5.5
Delta Grow	DG 5625RR2	Purple	Tan	Tawny	Black	2661	—	5.6
Delta Grow	DG 5555RR	White	Brown	Gray	Imp. Black	2892	—	5.5
Dyna-Gro	S52RY75	White	Tan	Light Tawny	Brown	3095	—	5.2
Dyna-Gro	S56RY84	Purple	Tan	Tawny	Brown	3106	—	5.6
GoSoy	5214GTS	Purple	Tan	Tawny	Black	3192	—	5.2
Mycogen	5N523R2	Purple	Tan	Light Tawny	Black	2900	—	5.2
NK Brand	S55-Q3	Purple	Tan	Tawny	Black	2687	—	5.5
NK Brand	S56-M8	Purple	Tan	Tawny	Black	3640	—	5.6
Pioneer	P52T50R	White	Tan	Tan	Black	3549	—	5.2
Pioneer	P55T81R	Purple	Tan	Tan	Black	3096	—	5.5
Progeny Ag Products	P 5226RYS	—	—	—	—	2810	—	5.2
Progeny Ag Products	P 5555RY	—	—	—	—	2822	—	5.5
Progeny Ag Products	P 5016RXS	—	—	—	—	2708	—	5.0
Progeny Ag Products	P 5417RX	White	Tan	Gray	Imp. Black	3275	—	5.4
Progeny Ag Products	P 5631RX	Purple	Tan	Gray	Imp. Black	3244	—	5.6
REV	51A56	Purple	Brown	Light Tawny	Black	2840	I	5.1
REV	52A94	Purple	Tan	Gray	Imp. Black	2874	D	5.2
REV	56R63	White	Tan	Gray	Buff	3047	D	5.6
U. of Arkansas	UA 5414RR	White	Tan	Gray	Buff	3142	—	5.4
U. of Arkansas	R10-197RY	Purple	Tan	Gray	—	3374	—	5.6
U. of Arkansas	R101-89RY	Purple	Tan	Gray	Imp. Black	3051	—	5.4
USG	7547XT	White	Tan	Gray	Buff	3311	—	5.4
USG	7557XT	Purple	Tan	Gray	Imp. Black	3181	—	5.5
USG	7536XT	White	Tan	Tawny	Brown	2786	—	5.3
USG	7506XTS	Purple	Tan	Light Tawny	Black	2729	—	5.0

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 87. Plant Characteristics of Maturity Group V Late Roundup Ready Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
Dyna-Gro	S57RY26	Purple	Tan	Tawny	Brown	2886	—	5.7
NK Brand	S58-Z4	White	Tan	Gray	Imp. Black	2555	—	5.8
Progeny Ag Products	P5752RY	—	—	—	—	2867	—	5.7
Progeny Ag Products	P 5768RX	—	—	—	—	3597	—	5.7
REV	57R21	Purple	Tan	Tawny	Brown	2898	D	5.7
U. of Arkansas	R07-6614RR	White	Tan	Gray	Brown	3093	—	5.7
USG	75B75R	Purple	Tan	Gray	Imp. Black	3412	—	5.7
USG	7576XT	Purple	Tan	Gray	Imp. Black	4152	—	5.7

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 88. Plant Characteristics of Maturity Group IV Liberty Link Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
Credenz	CZ 4044 LL	—	—	—	—	3200	I	4.0
Credenz	CZ 4105 LL	White	Brown	Light Tawny	Brown	2350	I	4.1
Credenz	CZ 4222 LL	—	—	—	—	3550	I	4.2
Credenz	CZ 4540 LL	White	Tan	Light Tawny	Black	3165	I	4.5
Credenz	CZ 4748 LL	White	Brown	Light Tawny	Black	2995	I	4.7
Credenz	CZ 4818 LL	White	Tan	Light Tawny	Brown	3020	I	4.8
Credenz	HBK LL 4953	Purple	Tan	Gray	Imp. Black	3275	I	4.9
Delta Grow	DG 4587LL/STS	Purple	Brown	Light Tawny	Black	3284	I	4.5
Delta Grow	DG 4967LL	White	Tan	Gray	Imp. Black	3434	I	4.9
Delta Grow	DG 4977LL/STS	Purple	Tan	Gray	Imp. Black	2989	I	4.9
Delta Grow	DG 4781LL	White	Brown	Light Tawny	Black	2599	I	4.7
Dyna-Gro	S49LL34	Purple	Tan	Gray	Imp. Black	2999	—	4.9
GoSoy	4714LL	White	Brown	Light Tawny	Black	2517	—	4.7
GoSoy	4912LL	White/Purple	Tan	Tawny	Imp. Black	2681	—	4.9
GoSoy	4913LL	Purple	Tan	Gray	Imp. Black	2892	—	4.9
Progeny Ag Products	P 4247LL	—	—	—	—	2854	—	4.2
Progeny Ag Products	P 4814LLS	—	—	—	—	3316	—	4.8
Progeny Ag Products	P 4930LL	—	—	—	—	3014	—	4.9
REV	48L63	Purple	Brown	Gray	Imp. Black	2834	—	4.8
REV	49L49	Purple	Tan	Gray	Imp. Black	3120	—	4.9

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 89. Plant Characteristics of Maturity Group V Liberty Link Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
Credenz	CZ 5150 LL	Purple	Tan	Gray	Imp. Black	2875	D	5.1
Credenz	CZ 5147 LL	Purple	Tan	Tawny	Black	3125	D	5.1
Credenz	CZ 5242 LL	Purple	Tan	Gray	Imp. Black	4100	D	5.2
Credenz	CZ 5225 LL	White	Tan	Tawny	Brown	2950	D	5.2
Credenz	CZ 5445 LL	White	Tan	Tawny	Brown	2900	D	5.4
Credenz	CZ 5515 LL	White	Tan	Light Tawny	Black	2800	I	5.5
Delta Grow	DG 5067LL	Purple	Tan	Gray	Imp. Black	3278	I	5.0
GoSoy	5155LL	Purple	Tan	Gray	Imp. Black	2958	—	5.1
GoSoy	5215LL	Purple	Tan	Gray	Imp. Black	3105	—	5.2
GoSoy	5515LL	White	Tan	Tawny	Black	2699	—	5.5
Dyna-Gro	S52LL66	Purple	Tan	Gray	Imp. Black	3382	—	5.2
Dyna-Gro	S55LS75	White	Tan	Tawny	Black	2582	—	5.5

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 90. Plant Characteristics of Maturity Group IV Conventional Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
GoSoy	Irene	White	Tan	Tawny	Black	3454	—	4.9
GoSoy	483.C	White	Tan	Light Tawny	Black	2309	—	4.8
U. of Missouri	S12-3782	White	Tan	Light Tawny	Black	2685	I	4.6
U. of Missouri	S12-3791	White	Tan	Light Tawny	Black	2773	I	4.5
U. of Missouri	S12-2418	White	Tan	Light Tawny	Black	2539	I	4.8
USG	ELLIS	White	Tan	Gray	Buff	3921	—	4.9

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Table 91. Plant Characteristics of Maturity Group V Conventional Soybean.

Brand	Variety	Color				Seeds[1]	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]
GoSoy	Leland	White	Tan	Gray	Buff	3258	—	5.0
U. of Arkansas	Osage	Purple	Tan	Gray	Imp. Black	3118	—	5.6
U. of Arkansas	UA 5612	Purple	Tan	Gray	Imp. Black	3352	—	5.6
U. of Arkansas	UA 5213C	Purple	Tan	Tawny	Imp. Black	3351	—	5.2
U. of Arkansas	UA 5014C	Purple	Tan	Gray	Black	2700	—	5.0
U. of Arkansas	R09-430	Purple	Tan	Gray	—	2876	—	5.1
U. of Arkansas	R10-230	White	Tan	Gray	Buff	3366	—	5.6
U. of Arkansas	UA 5814HP	Purple	Tan	Tawny	Brown	2951	—	5.8
U. of Missouri	S12-4718	White	Tan	Gray	Buff	3223	D	5.3
U. of Missouri	S11-20214	White	Tan	Tawny	Black	3299	I	5.3
U. of Missouri	S11-17025	White	Tan	Tawny	Black	3227	D	5.2
USDA-ARS	JTN-5110	Purple	—	Tawny	Black	2924	—	5.5

[1]Represents an average number of seed per pound, seed may vary according to season and location.
[2]D = determinate; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV and V. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.

Public Varieties Entered

University of Arkansas

UA 5014C
R10-230
UA 5814HP
Osage
UA 5612
UA 5213C
R09-430
UA 5414RR
R10-197RY
R101-89RY
R07-6614RR

Seed Treatment – ApronMaxx

University of Missouri

S11-20214
S11-17025
S12-3791
S12-4718
S12-2418
S12-3782

Seed Treatment – Poncho/VOTiVO + lLeVO

USDA Agricultural Research Service – Tennessee

JTN-5110

Seed Treatment – ApronMaxx + moly

Commercial Varieties Entered

Company	Variety				Seed treatment
Armor Seed, LLC	Armor	46-D08	Armor	ARX5506	
183 Pennsylvania Ave.	Armor	47-D17	Armor	55-R68	
Waldenburg, AR 72475	Armor	48-D24	Armor	49-D66	
	Armor	ARX4706	Armor	ARX4906	
	Armor	47-R70	Armor	53-D04	
	Armor	48-D80			
Bayer CropScience	Credenz	CZ4044LL	Credenz	HBK LL 4953	Poncho Votivo + Trilex 2000 + ILeVO
392 CR 83	Credenz	CZ4105LL	Credenz	CZ5150LL	
McCarley, MS 38943	Credenz	CZ4181RY	Credenz	CZ5147LL	
	Credenz	CZ4222LL	Credenz	CZ5242LL	
	Credenz	CZ4590RY	Credenz	CZ5225LL	
	Credenz	CZ4540LL	Credenz	CZ5375RY	
	Credenz	CZ4656RY	Credenz	CZ5445LL	
	Credenz	CZ4748LL	Credenz	CZ5515LL	
	Credenz	CZ4898RY	Credenz	CZ4959RY	
	Credenz	CZ4818LL			
B&S Seed Company Inc.	Dixie Bell	DB 4911			CruiserMAXX + Vibrance
1283 Hwy. 444	Dixie Bell	DB 4965			
Duncan, MS 38740	Dixie Bell	DB 4787			
Delta Grow Seed	Delta Grow	4670 RR2	Delta Grow	5625 RR2	
P.O. Box 219	Delta Grow	4790 RR2	Delta Grow	5555 RR	
England, AR 72046	Delta Grow	4845RR2X	Delta Grow	4680RR2	
	Delta Grow	4995 RR	Delta Grow	5580RR2	
	Delta Grow	5170 RR2/STS	Delta Grow	5555 RR	
	Delta Grow	4967LL	Delta Grow	4587 LL/STS	
	Delta Grow	4825 RR2/STS	Delta Grow	4977 LL/STS	
	Delta Grow	5230 RR2	Delta Grow	5067LL	
	Delta Grow	4970 RR	Delta Grow	4781LL	
	Delta Grow	4880 RR			
Dyna-Gro Seed	Dyna-Gro	S43RY95	Dyna-Gro	S48XT56	CruiserMAXX + Vibrance
125 Robinson Rd.	Dyna-Gro	31RY45	Dyna-Gro	S49XT07	
Houston, MS 38851	Dyna-Gro	S48RS53	Dyna-Gro	S49LL34	
	Dyna-Gro	S52RY75	Dyna-Gro	S52LL66	
	Dyna-Gro	S56RY84	Dyna-Gro	S55LS75	
	Dyna-Gro	S57RY26	Dyna-Gro	S45XS66	
Great Heart	Great Heart Seed	GT-4860X	Great Heart Seed	GT-4430XS	Great Start Max
Seed 220 West Washington St.	Great Heart Seed	GT-476CR2	Great Heart Seed	GT-477CR2	
Paris, IL 61944	Great Heart Seed	GT-4540XS			
Monsanto	Asgrow	AG4632	Asgrow	AG47X6	Acceleron FI
800 N. Lindbergh Blvd.	Asgrow	AG42X6	Asgrow	AG48X7	
St. Louis, MO 63167	Asgrow	AG44X6	Asgrow	AG49X6	
	Asgrow	AG45X6	Asgrow	AG53X6	
	Asgrow	AG46X6	Asgrow	AG54X6	
	Asgrow	AG46X7			
Mycogen Seeds	Mycogen	5N414R2	Mycogen	5N490R2	CruiserMAXX
107 Meritt Cove	Mycogen	5N433R2	Mycogen	5N480R2	
Marion, AR 72364	Mycogen	5N452R2	Mycogen	5N523R2	
	Mycogen	5N424R2	Mycogen		
Progeny Ag Products	Progeny	4211 RY	Progeny	5226RYS	
1529 Hwy. 193	Progeny	4516RXS	Progeny	5555RY	
Wynne, AR 72396	Progeny	4613RYS	Progeny	5752RY	
	Progeny	4620RXS	Progeny	5768RX	
	Progeny	4757RY	Progeny	4247LL	
	Progeny	4788RY	Progeny	4814LLS	
	Progeny	4799RXS	Progeny	4930LL	
	Progeny	4816RX	Progeny	5417RX	
	Progeny	4900RY	Progeny	5631RX	
	Progeny	4944RX	Progeny		
	Progeny	5016RXS	Progeny		
DuPont Pioneer	Pioneer	P41T33R	Pioneer	P52T50R	Apron + Gaucho
59 Greif Parkway, Suite 200	Pioneer	P47T36R	Pioneer	P55T81R	
Delaware, OH 43015	Pioneer	P47T89R			

Company	Variety				Seed treatment
Stratton Seed Company	Go Soy	4714LL	Go Soy	49G16	CruiserMAXX + Vibrance
1530 Hwy. 79 South	Go Soy	5115LL	Go Soy	Leland	
Stuttgart, AR 72160	Go Soy	5215LL	Go Soy	Irene	
	Go Soy	4912LL	Go Soy	5214GTS	
	Go Soy	4913LL	AGS	GS45R216	
	Go Soy	483.C	AGS	GS47R216	
	Go Soy	5515LL	AGS	GS48R216	
	Go Soy	4814GTS	AGS	GS4915R2	
Syngenta	NK Brand	39T3	NK Brand	47K5	Avicta Complete
3760 Business Drive Suite 105	NK Brand	39C4	NK Brand	49B1	
Memphis, TN 38125	NK Brand	58Z4	NK Brand	55Q3	
	NK Brand	42P6	NK Brand	56M8	
	NK Brand	45W9			
Terral Seed Inc.	REV®	45A46	REV®	51A56	Apron+EvergolEnergy
111 Ellington Dr.	REV®	47R34	REV®	52A94	+Gaucho+PPST2030
Rayville, LA 71269	REV®	48A76	REV®	56R63	
	REV®	48A26	REV®	57R21	
	REV®	49R94	REV®	49L49	
	REV®	49A75	REV®	48L63	
UniSouth Genetics Inc.	USG	7487XTS	USG	7547XT	Ipconazole/Metalaxyl/Thiabendazole
3205-C Hwy. 46	USG	7496XTS	USG	7557XT	
South Dickson, TN 37055	USG	7497XT	USG	7576XT	
	USG	ELLIS	USG	74K95RS	
	USG	7506XTS	USG	75B75R	
	USG	7536XT			
Land O' Lakes/Winfield/Croplan	Croplan	R2C4700S	Croplan	R2C5225S	Warden CX
P.O. Box 64131	Croplan	R2C4775	Croplan	R2C5265	
St. Paul, MN 55164-0131					

MS AGRICULTURAL AND
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The mission of the Mississippi Agricultural and Forestry Experiment Station and the College of Agriculture and Life Sciences is to advance agriculture and natural resources through teaching and learning, research and discovery, service and engagement which will enhance economic prosperity and environmental stewardship, to build stronger communities and improve the health and well-being of families, and to serve people of the state, the region and the world.

George M. Hopper, Director

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