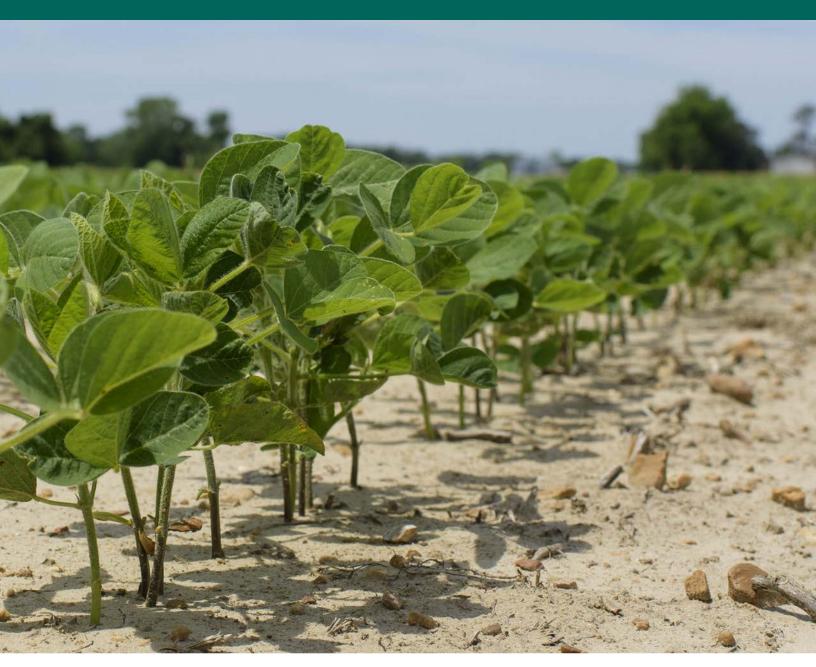
MISSISSIPPI SOYBEAN

VARIETY TRIALS, 2018

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS



Mississippi Soybean Variety Trials, 2018

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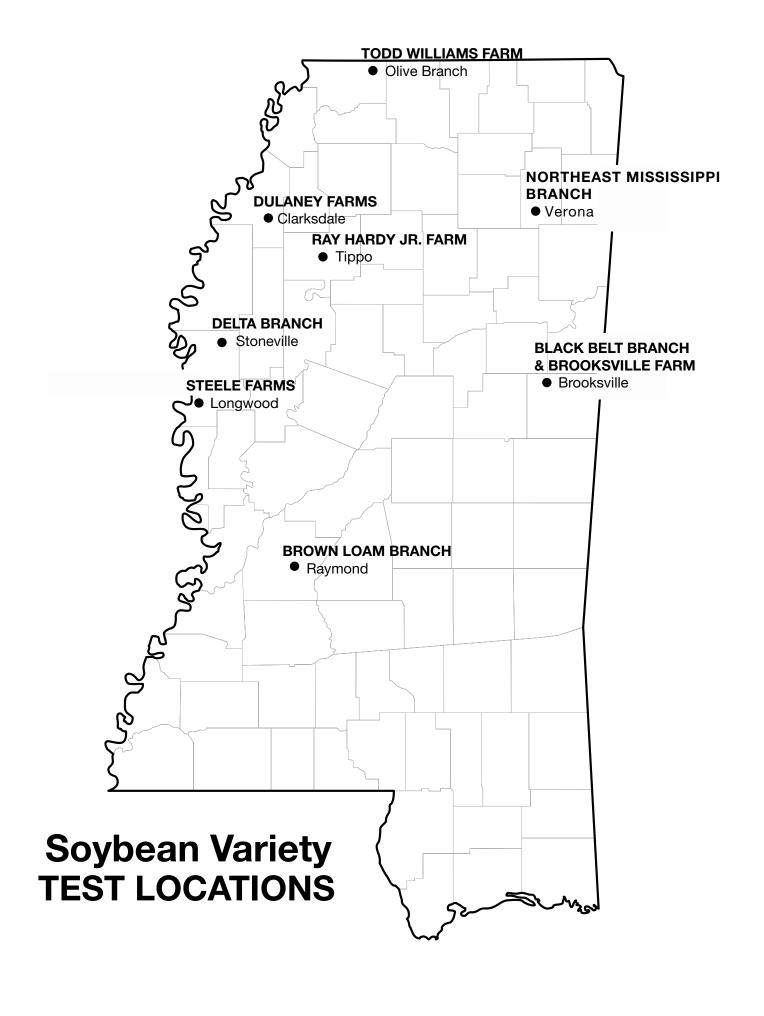
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Find variety trial information online at *mafes.msstate.edu/variety-trials*.



Contents

Introduction	1
Summary of Locations	4
Summary of Roundup Ready Yields by Maturity Group	
Roundup Ready Group IV — 1-, 2-, and 3-year	5
Roundup Ready Group V — 1-, 2-, and 3-year	
Summary of LibertyLink Yields by Maturity Group	
LibertyLink Group IV — 1-, 2-, and 3-year	11
LibertyLink Group V — 1-, 2-, and 3-year	
Summary of Conventional Yields by Maturity Group	
Conventional Group IV — 1-, 2-, and 3-year	
Conventional Group v — 1-, 2-, and 3-year	. 14
Results	
Brooksville, Black Belt Branch	
Location 1. Brooksville silty clay nonirrigated 19" rows	
Roundup Ready Group IV	
Roundup Ready Group V	
LibertyLink Group IV and V	
Brooksville, Brooksville Farm	. 20
Location 2. Brooksville silty clay irrigated 30" rows	. 21
Roundup Ready Group IV	
Roundup Ready Group V	
Clarksdale, Dulaney Farms	
Location 3. Alligator clay, Sharkey clay, and Forestdale silty clay irrigated 30" rows	
Roundup Ready Group IV	
Roundup Ready Group V	. 28
Longwood, Steele Farms Location 4. Sharkey clay irrigated 19" rows	20
Roundup Ready Group IV and V	
LibertyLink Group IV and V	
Olive Branch, Todd Williams Farm	.00
Location 5. Collins silt loam nonirrigated 19" rows	.34
Roundup Ready Group IV	
Roundup Ready Group V	.37
Raymond, Brown Loam Branch	
Location 6. Loring silt loam nonirrigated 19" rows	
Roundup Ready Group IV and V	
LibertyLink Group IV and V	.4
Location 7. Sharkey clay nonirrigated 19" Rows and irrigated 30" rows	1/
Roundup Ready Group IV nonirrigated	
Roundup Ready Group IV and V irrigated	
LibertyLink Group IV and V irrigated	.50
Conventional Group IV and V irrigated	.51
Stoneville (loam), Delta Branch	
Location 7. Bosket very fine sandy loam irrigated 30" rows	
Roundup Ready Group IV	
Roundup Ready Group V	.or
Location 8. Dundee and Tensas silt loam nonirrigated 19" rows	57
Roundup Ready Group IV Early	
Roundup Ready Group IV Late	
Verona, Northeast Mississippi Branch	
Location 9. Leeper silty clay loam	
Roundup Ready Group IV and V	.61
LibertyLink Group IV and V	.64
2018 Soybean Variety Trial Stem Canker Report	.65
Plant Characteristics	. 72
Public Varieties Entered	.77
Commercial Varieties Entered	78

Mississippi Soybean Variety Trials, 2018

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 2018 (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.

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 79 to 86 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 87 to 94, 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:

U	•	•
	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	
	LibertyLink	
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. 2018 Soyl	pean Locations.		
Location	Planting date	Harvest dates	Soil type	Row spacing	Irrigation
1. Brooksville Station	4/20	All groups on September 18	Brooksville silty clay	19"	No
2. Brooksville Farm	5/4	All groups on September 20	Brooksville silty clay	30"	Yes
3. Clarksdale	5/2	All groups on October 5	Alligator clay and Sharkey clay	30"	Yes
4. Longwood	5/1	All groups on October 4	Sharkey clay	19"	Yes
5. Olive Branch	5/10	All groups on October 12	Collins silt loam	19"	No
6. Raymond	4/20	IVE, IVL RR, and IV LL on September 19; VE, VL RR, and V LL on October 3	Loring silt loam	19"	No
7. Stoneville (clay)	5/1	IVE RR on September 21; IVL RR on October 8	Sharkey clay	19"	No
8. Stoneville (clay)	5/8	All groups on October 8	Sharkey clay	30"	Yes
9. Stoneville (loam)	4/19	All groups on October 2	Bosket and Commerce very fine sandy loam	30"	Yes
10. Tippo	5/1	All groups on September 20	Dundee, and Tensas silt loam	19"	No
11. Verona	5/3	IVE RR, and IV LL on September 21; IVL, VE, VL RR and V LL on October 3	Leeper silty clay	19"	No

Brand	Variety ¹	Brooks- ville irr. (clay)	Clarks- dale irr. (clay)²	Long- wood irr. (clay)	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr. (clay)	Olive Branch not irr. (loam) ²	Ray- mond not irr. (loam)	Stone- ville not irr. (clay)	Tippo not irr (loam)	Verona not irr. (clay)	Not irr. 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
AgriGold	G4440RX	86.6	98.9	65.2	83.0	75.5	81.8	58.9	78.1	79.7	50.0	38.3	88.7	65.6	73.0
AgriGold	G4579RX	82.3	89.4	91.4	77.6	80.6	84.3	65.9	81.6	81.8	57.1	44.2	81.9	68.8	75.8
AgriGold	G4605RX	81.7	91.9	79.0	77.6	75.4	81.1	61.4	81.1	81.6	61.9	39.0	87.7	68.8	74.4
AGS	GS46X17	81.5	86.1	93.0	82.3	80.6	84.7	51.2	83.4	69.6	50.1	43.7	82.1	63.4	73.1
Armor	42-D27	83.1	81.6	87.5	74.4	75.3	80.4	55.8	86.2	62.3	39.1	44.1	89.3	62.8	70.8
Armor	X45D50 *	84.8	101.7	97.1	84.6	76.3	88.9	65.5	86.5	83.7	60.0	40.2	88.0	70.7	78.9
Armor	X46D63 *	82.9	88.8	84.0	75.7	77.6	81.8	62.7	82.9	70.0	58.0	43.8	78.1	65.9	73.1
Asgrow	AG42X9	83.5	93.7	72.7	82.0	66.5	79.7	55.8	97.5	73.1	53.7	36.8	91.5	68.0	73.3
Asgrow	AG43X7	86.9	94.2	88.9	81.8	73.5	85.0	58.8	85.9	82.0	52.3	45.5	87.3	68.6	76.1
Asgrow	AG43X8	77.7	95.1	96.2	81.3	70.8	84.2	54.3	85.4	69.6	56.4	40.4	74.0	63.3	72.8
Asgrow	AG45X8	91.0	96.3	88.5	81.8	80.4	87.6	58.7	97.4	75.6	38.2	40.8	92.8	67.2	76.5
Asgrow	AG46X6	93.6	103.5	84.9	91.9	85.8	92.0	64.2	88.9	75.0	59.1	45.0	82.7	69.2	79.5
Croplan	RX 4217 S	69.4	81.9	81.0	69.6	66.1	73.6	47.6	70.8	65.8	39.2	31.9	72.9	54.7	63.3
Croplan	RX 4500 S	86.7	99.5	89.2	88.9	88.2	90.5	63.5	89.0	79.2	52.8	44.9	92.3	70.3	79.5
Croplan	RX4687S	92.1	89.4	97.0	81.1	79.6	87.8	58.4	89.0	78.4	68.0	43.3	100.1	72.9	79.7
Delta Grow	4670RR2	85.3	_	85.8	81.7	81.3	83.5	61.6	_	78.1	56.9	40.3	74.6	62.3	71.7
Delta Grow	DG 46X25RF Xtend	32 81.8	100.8	99.8	82.5	88.6	90.7	66.8	82.0	101.2	65.5	39.8	83.3	73.1	81.1
Dyna-Gro	S41XS98	85.0	89.2	81.0	81.1	72.4	81.7	51.9	103.0	55.0	39.2	38.4	78.1	60.9	70.4
Dyna-Gro	S45XS37	84.2	94.4	94.7	83.7	83.0	88.0	61.7	94.8	81.4	46.2	36.7	88.7	68.3	77.2
Dyna-Gro	S45XS66	85.6	98.2	67.3	84.5	81.0	83.3	56.6	84.0	68.3	64.1	39.3	83.6	66.0	73.9
Dyna-Gro	SX18845XT	* 87.7	102.1	76.4	86.8	84.1	87.5	67.0	88.5	75.2	53.1	39.9	90.6	69.1	77.4
Great Heart	GT-4628X	80.1	92.9	65.6	75.3	75.3	77.8	57.4	78.5	78.9	58.8	35.0	80.6	64.9	70.8
Great Heart	GT-4685X	S 83.7	88.1	87.3	79.5	73.8	82.5	56.7	74.7	59.2	54.9	40.9	83.1	61.6	71.1
Local Seed Co	LS4487XS	83.4	95.9	73.1	84.3	80.5	83.5	61.8	93.3	81.4	62.2	45.8	82.1	71.1	76.7
Local Seed Co	LS4565XS	87.7	87.4	86.7	78.6	89.5	86.0	53.8	102.3	85.3	58.6	47.9	97.6	74.3	79.6
Local Seed Co	LS4583X	90.5	104.3	81.0	84.4	87.3	89.5	60.7	89.6	89.5	63.2	41.1	86.8	71.8	79.9
Local Seed Co	LS4677X	83.7	98.0	93.9	84.9	89.2	89.9	63.2	94.7	80.9	55.9	42.6	104.1	73.6	81.0
Local Seed Co	LS4689X	80.6	94.6	84.0	80.0	77.0	83.2	50.6	83.7	81.9	53.0	42.6	80.6	65.4	73.5
Mission Seed Solutions	S A4447NSXR	2 82.6	95.7	91.7	80.3	76.6	85.4	60.8	84.1	76.6	71.1	48.8	97.8	73.2	78.7
Mission Seed Solutions	s A4608X	86.9	93.9	84.8	82.1	77.3	85.0	55.0	79.9	82.5	59.8	38.2	93.5	68.1	75.8
Mission Seed Solutions	s A4637NSXR	2 86.4	94.2	85.7	85.1	83.0	86.9	58.1	80.9	70.2	52.2	36.9	82.7	63.5	74.1
Mission Seed Solutions	s A4618X	82.7	86.4	88.9	78.0	75.7	82.4	59.3	90.1	92.6	56.0	46.3	85.3	71.6	76.5
MorSoy	MS 4426 RX	T 85.2	94.8	89.8	84.0	79.8	86.7	52.5	82.6	75.9	54.3	37.2	82.9	64.2	74.5
MorSoy	MS 4616 RX	T 88.9	99.0	73.8	88.2	77.1	85.4	63.4	79.0	94.9	58.0	49.0	89.4	72.3	78.3
NK Brand	S43-V3X	82.2	90.2	89.1	78.6	70.5	82.1	50.8	90.3	58.7	44.4	35.3	89.3	61.5	70.9
NK Seeds	S45-J3X	87.7	95.6	85.0	86.0	78.8	86.6	57.1	85.8	81.7	50.6	47.6	91.8	69.1	77.1
NK Seeds	S45-K5X	82.5	95.8	87.9	83.7	87.7	87.5	59.4	90.7	78.5	54.5	46.6	95.6	70.9	78.4
Pioneer	P42A96X	78.4	96.1	94.9	78.4	81.9	85.9	52.2	85.3	75.2	48.3	42.8	83.6	64.6	74.3
Pioneer	P46A16R	86.4	_	95.5	87.8	85.5	88.8	54.6	_	76.1	64.4	34.4	97.3	65.3	75.8
Pioneer	P46A57BX		99.8	95.8	83.2	84.0	89.8	60.5	92.7	78.6	54.7	41.4	84.8	68.8	78.3
Progeny	P4255RX	81.1	85.6	82.3	76.0	73.2	79.6	52.1	83.1	72.0	45.6	41.6	87.8	63.7	70.9
Progeny	P4444RXS	81.9	99.1	101.6	79.8	75.8	87.7	54.8	82.5	77.1	53.4	36.7	86.1	65.1	75.4
Progeny	P4620RXS		95.1	62.2	85.1	81.8	82.8	62.6	79.8	87.7	59.3	41.3	87.3	69.7	75.6
Progeny	P4570RXS	86.1	88.5	83.7	76.8	75.9	82.2	51.3	78.5	78.8	61.7	42.2	79.6	65.3	73.0
Progeny	P4318RX	72.6	82.5	77.4	66.2	61.6	72.1	42.7	71.1	60.4	39.8	34.1	79.7	54.6	62.5
Terral	REV 4679X *		96.3	83.9	85.2	88.7	87.5	53.5	82.3	70.4	55.7	39.2	89.1	65.0	75.3
U. of Missouri	S14-15146F	R* 73.1	_	98.1	73.5	72.3	79.3	49.0	_	68.1	50.5	40.7	81.8	58.0	67.5
USG	7447XTS	87.7	93.5	71.2	77.7	76.4	81.3	54.7	82.2	69.6	58.4	38.8	73.5	62.9	71.2
Mean		84.0	93.8	85.6	81.1	78.7	84.5	57.4	85.8	76.4	54.7	41.1	86.2	66.7	74.8
CV		4.9	5.3	10.2	5.3	9.5		11.7	11.9	13.1	11.5	11.7	13.8		
LSD (0.05)		6.7	8.1	14.1	6.9	12.1		10.9	NS	16.2	10.2	7.8	19.3		
R ²		65.9	67.1	71.7	67.1	56.5		57.6	72.7	59.8	69.7	52.8	35.8		
Error DF		94	88	94	94	94		94	88	94	94	94	94		

¹Variety followed by an asterisk indicates an experimental entry.
²Varieties lacking the Xtend trait were omitted from these locations due to uncertainty of exposure and timing of dicamba drift occurrence.

		Rour			ary of 2-1 he 2017 a					arly ety Trials.				
Brand	Variety	Brooks- ville irr.	Clarks- dale ¹	Long- wood	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr.	Olive Branch not irr. ¹	Raymond not irr.	Stone- ville not irr.	Tippo not irr.	Not irr. 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
AgriGold	G4440RX	70.3	69.2	77.8	84.3	75.6	75.4	63.8	85.4	80.6	68.2	36.4	66.9	71.2
AGS	GS46X17	58.6	75.1	91.8	83.5	81.3	78.1	55.3	78.6	79.5	71.4	37.2	64.4	71.2
Asgrow	AG43X7	68.9	86.4	90.6	84.5	72.2	80.5	62.9	84.9	80.3	71.5	37.2	67.4	73.9
Asgrow	AG45X8	69.4	86.1	93.1	84.6	80.6	82.8	59.7	93.6	79.5	59.8	36.2	65.8	74.3
Asgrow	AG46X6	67.2	89.6	91.7	92.1	82.4	84.6	64.0	87.9	85.8	77.4	38.4	70.7	77.7
Delta Grow	4670RR2	65.4		87.1	83.4	80.7	79.1	64.4		82.2	74.4	38.3	64.9	72.0
Dyna-Gro	S45XS37	66.2	85.9	94.9	82.8	81.2	82.2	61.6	90.9	85.9	67.8	34.2	68.1	75.1
Dyna-Gro	S45XS66	70.5	90.3	81.9	86.2	76.0	81.0	69.9	81.6	84.0	76.6	36.6	69.7	75.4
MorSoy	MS 4616 RXT	71.2	86.3	85.1	85.9	75.3	80.8	64.4	85.2	95.2	73.0	40.8	71.7	76.2
NK Brand	S43-V3X	62.4	79.4	91.1	81.2	71.8	77.2	57.8	81.9	62.5	62.6	29.3	58.8	68.0
NK Seeds	S45-K5X	61.6	83.3	89.7	85.2	82.2	80.4	58.6	87.0	86.5	67.3	38.9	67.7	74.0
Progeny	P4255RX	62.6	57.1	84.3	83.7	72.4	72.0	55.7	83.8	75.4	63.7	35.0	62.7	67.4
Progeny	P4444RXS	66.7	84.2	93.3	82.6	77.5	80.9	66.8	84.7	80.7	70.7	32.7	67.1	74.0
Progeny	P4620RXS	69.1	85.6	83.0	85.0	78.7	80.3	66.6	82.6	92.9	74.9	39.1	71.2	75.8
Overall Mean		66.4	81.4	88.2	84.6	77.7	79.7	62.3	85.2	82.2	70.0	36.5	66.9	73.3

	Rou	Table Indup Read		•	3-Year Yie 017, and 2		•	•	•	Trials.			
Brand	Variety ¹	Brooks- ville irr.	Clarks- dale irr.	Long- wood irr.	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr.	Olive Branch not irr.	Stone- ville not irr.	Tippo not irr.	Not irr. 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
Asgrow	AG46X6	_	_	_	87.8	80.0	83.9	58.1	_	76.9	_	67.5	75.7
Delta Grow	4670RR2	68.5	_	84.7	77.8	77.0	77.0	60.0	_	71.4	35.8	55.8	67.9
Dyna-Gro	S45XS66	_	_	_	82.1	74.9	78.5	63.5	_	74.4	_	69.0	73.7
Progeny	P4620RXS	_		_	79.2	77.0	78.1	59.4	_	69.7	_	64.5	71.3
Overall Mean		68.5		84.7	81.7	77.3		60.3		73.1	35.8	64.2	72.2

¹No 2-year averages for Xtend varieties at these locations.

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Brand	Variety ¹	Brooks- ville irr. (clay)	Clarks- dale irr. (clay)²	Long- wood irr. (clay)	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr. (clay)	Olive Branch not irr. (loam) ²	Ray- mond not irr. (loam)	Stone- ville not irr. (clay)	Tippo not irr (loam)	Verona not irr. (clay)	Not irr. 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
AgriGold	G4995RX	86.7	99.5	83.1	88.3	93.1	90.1	66.6	92.3	79.9	70.0	42.3	94.3	74.3	81.5
AGS	GS 48X18	86.6	96.5	85.7	84.3	92.2	89.1	63.5	93.1	68.0	61.2	46.6	95.4	71.3	79.4
Armor	X47D22 *	89.3	82.4	82.7	88.1	92.2	86.9	60.3	91.7	66.0	61.6	44.8	99.1	70.6	78.0
Armor	X48D02 *	87.5	98.1	96.6	76.5	84.2	88.6	63.1	98.7	86.4	77.1	42.9	101.1	78.2	82.9
Armor	X49D31 *	86.2	90.2	112.5	91.7	77.6	91.6	68.5	90.1	80.1	75.7	40.7	93.9	74.8	82.5
Asgrow	AG47X9	86.6	91.1	91.2	90.1	91.3	90.1	72.8	89.5	63.2	53.6	42.3	87.7	68.2	78.1
Asgrow	AG48X9	95.3	96.9	94.5	90.2	83.7	92.1	60.2	93.1	77.8	69.2	41.7	95.9	73.0	81.7
Asgrow	AG49X9	97.0	91.5	93.6	92.1	81.4	91.1	55.5	89.3	79.8	64.9	40.5	92.7	70.5	79.8
Croplan	RX4825	96.8	98.9	93.3	90.7	80.2	92.0	59.8	100.6	67.2	76.0	46.6	98.4	74.8	82.6
Croplan	RX4927	89.6	95.6	98.1	84.4	77.1	89.0	65.8	93.8	79.1	69.9	45.1	99.5	75.6	81.7
Delta Grow	DG 4790RF		_	81.6	80.6	84.1	84.5	70.5		76.5	66.3	42.5	91.6	69.5	76.1
Delta Grow	DG 48X45RI Xtend	R2 88.8	91.2	104.3	88.2	85.6	91.6	59.2	87.3	70.0	75.4	46.1	89.4	71.2	80.5
Dyna-Gro	S48XT56	92.8	94.9	91.5	84.1	80.6	88.8	65.0	89.9	53.6	69.7	39.7	94.0	68.6	77.8
Dyna-Gro	S49XT39	92.3	95.5	107.5	84.6	83.4	92.7	65.4	90.5	74.3	70.2	44.0	98.8	73.9	82.4
GoSoy	49G16	75.6	_	89.1	79.2	90.6	83.6	62.6	_	78.9	83.9	48.2	92.7	73.3	77.9
Great Heart Seed	GT-4809X	87.4	93.4	94.7	85.4	81.3	88.4	61.5	86.1	78.1	62.8	37.8	83.6	68.3	77.5
Great Heart Seed	GT-4833X	S 86.8	96.6	99.3	68.8	74.3	85.2	73.4	82.8	77.5	72.7	43.9	102.6	75.5	79.9
Great Heart Seed	GT-4979X	92.0	100.8	105.8	86.4	80.9	93.2	64.6	84.2	75.3	74.6	40.6	95.5	72.5	81.9
Great Heart Seed	GT-4721X	93.5	96.0	86.9	86.2	82.9	89.1	59.9	80.8	70.8	64.3	44.0	96.0	69.3	78.3
Local Seed Co	AV47W2X	86.7	97.6	85.3	83.1	88.9	88.3	60.2	82.9	76.5	61.3	41.3	93.1	69.2	77.9
Local Seed Co	AV49W3X	91.2	97.4	87.6	86.9	78.4	88.3	65.5	87.2	83.5	66.6	47.0	103.6	75.5	81.3
Local Seed Co	LS4889XS	84.2	98.2	101.7	76.9	88.6	89.9	70.5	90.2	97.3	78.0	49.1	105.9	81.8	85.5
Local Seed Co	LS4966X	87.3	88.5	88.9	87.5	92.7	89.0	69.3	87.8	68.2	77.5	48.0	99.8	75.1	81.4
Local Seed Co	LS4968XS	87.4	81.3	89.3	81.2	94.0	86.6	59.2	92.8	81.4	72.2	45.1	89.7	73.4	79.4
Local Seed Co	LS4988X	82.2	96.2	92.1	80.9	78.9	86.1	67.4	87.9	84.3	65.7	39.5	93.8	73.1	79.0
Mission Seed Solutions	A4828X	88.1	89.9	102.4	71.3	88.7	88.1	66.9	88.3	72.2	75.3	39.2	96.0	73.0	79.8
Mission Seed Solutions		93.8	99.6	86.5	87.3	87.0	90.8	64.7	81.7	91.7	76.4	38.1	96.2	74.8	82.1
MorSoy	MS 4846 R	XT 96.9	90.3	93.9	90.7	81.7	90.7	53.2	97.6	71.2	79.6	47.5	86.1	72.5	80.8
NK Brand	S48-R2X	85.0	87.3	76.1	78.6	87.1	82.8	62.1	94.5	64.0	52.4	40.2	90.5	67.3	74.3
Petrus Seed	479 GTS	67.4	_	61.3	70.7	84.6	71.0	48.8	_	59.1	51.5	37.3	81.7	55.7	62.5
Petrus Seed	4916 GT	76.5	_	86.2	79.0	71.0	78.2	67.3	_	64.0	75.3	48.4	87.5	68.5	72.8
Pioneer	P48A60X	92.3	93.8	85.0	90.7	82.3	88.8	66.2	96.2	76.6	64.7	42.0	93.7	73.2	80.3
Progeny	P4757RY	88.4		87.6	86.4	83.7	86.5	60.8	_	74.6	59.3	43.4	94.5	66.5	75.4
Progeny	P4799RXS	87.4	92.8	90.2	79.4	85.4	87.1	67.1	83.0	72.8	66.7	46.7	90.0	71.0	78.3
Progeny	P4816RX	90.2	95.0	95.7	90.5	80.6	90.4	62.4	91.8	63.3	75.5	46.2	89.1	71.4	80.0
Progeny	P4944RX	88.7	90.3	87.3	80.1	83.3	85.9	64.9	77.5	77.0	60.9	36.9	96.7	69.0	76.7
Progeny	P4851RX	94.2	100.7	103.1	80.5	92.8	94.2	71.9	90.7	73.5	60.7	38.3	95.3	71.7	82.0
Progeny	P4955RX	89.4	99.3	98.8	86.5	92.1	93.2	73.1	87.5	76.8	70.7	36.3	103.6	74.7	83.1
Terral	REV 48A2			92.2	82.9	87.6	86.6	61.0		70.5	64.1	43.0	100.3	67.8	76.1
Terral	REV 47A9		_	88.2	90.6	82.3	88.0	57.5	_	71.6	60.9	43.3	90.3	64.7	75.1
Terral	REV 4857		93.2	95.2	84.8	79.6	87.8	58.9	79.2	68.2	58.3	37.0	85.4	64.5	75.1
Terral	REV 4927		107.1	88.2	87.5	85.5	91.9	77.6	97.5	75.6	64.5	43.3	98.4	76.1	83.3
U. of Missouri	S14-9051F			66.5	74.1	81.0	74.0	62.0		60.4	47.1	42.9	78.2	58.1	65.2
U. of Missouri	S14-9051			85.0	79.1	82.1	80.4	61.1		75.1	66.1	43.8	82.6	65.7	72.3
USG	7489XT	85.3	91.3	93.8	90.2	82.7	88.7	66.1	90.0	58.4	76.2	48.8	86.1	70.9	79.0
USG	7496XTS	93.9	97.6	98.6	82.2	85.1	91.5	73.8	95.9	84.4	72.5	40.0	86.3	75.5	82.8
Mean		87.9	94.5	91.5	83.8	84.2	87.9	64.3	89.0	73.7	67.8	42.9	93.4	71.2	
CV		5.5	9.8	8.1	6.0	11.9		12.8	9.5	14.2	7.3	10.3	8.6		
LSD (0.05)		7.9	NS	11.9	8.2	NS		NS	NS	17.0	8.0	7.2	13.0		
R ²		72.2	34.7	78.2	67.3	30.9		45.0	79.6	58.5	82.2	60.8	57.9		
Error DF		90	72	90	90	90		90	72	90	90	90	90		
LITOI DI		30	1 2	50	30	50		30	12	50	50	30	50		

¹Variety followed by an asterisk indicates an experimental entry.
²Varieties lacking the Xtend trait were omitted from these locations due to uncertainty of exposure and timing of dicamba drift occurrence.

Table 6. Summary of 2-Year Yields for Maturity Group IV Late
Roundup Ready for the 2017 and 2018 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks- ville irr.	Clarks- dale¹	Long- wood	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr.	Olive Branch not irr. ¹	Raymond not irr.	Stone- ville not irr.	Tippo not irr.	Not irr. 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
Croplan	RX4825	73.3	92.4	97.2	85.3	79.2	85.5	61.4	97.2	89.2	82.2	41.0	74.2	79.8
Delta Grow	DG 4790RR2	67.1	_	87.8	79.2	79.6	78.4	67.7	_	93.3	71.6	38.7	67.8	73.1
Delta Grow	DG 48X45RR2 Xtend	75.4	90.1	103.9	86.4	82.3	87.6	65.1	91.5	86.0	80.0	43.3	73.2	80.4
Dyna-Gro	S48XT56	72.8	91.3	98.4	80.3	78.5	84.3	63.0	89.3	73.4	82.9	35.2	68.7	76.5
GoSoy	49G16	65.1		91.0	77.9	81.7	78.9	66.1		87.7	85.8	46.3	71.5	75.2
Great Heart Seed	GT-4721X	76.2	91.4	92.0	84.1	82.8	85.3	63.0	88.3	84.9	81.9	38.1	71.2	78.3
MorSoy	MS 4846 RXT	77.4	89.9	103.6	88.2	77.7	87.4	62.2	98.9	91.6	88.2	40.9	76.3	81.9
NK Brand	S48-R2X	65.1	81.7	83.2	74.7	84.9	77.9	61.5	97.9	79.0	69.8	35.0	68.6	73.3
Petrus Seed	479 GTS	50.2	_	69.7	71.2	75.8	66.7	52.6	_	70.5	63.0	34.2	55.1	60.9
Petrus Seed	4916 GT	66.9	_	90.9	79.2	71.4	77.1	71.6	_	83.5	78.4	44.2	69.4	73.3
Progeny	P4757RY	63.9	_	90.2	81.8	83.2	79.8	65.8	_	89.1	70.0	41.9	66.7	73.2
Progeny	P4799RXS	67.9	88.1	89.3	76.7	81.4	80.7	65.0	92.2	88.2	75.2	42.8	72.7	76.7
Progeny	P4816RX	66.6	90.7	102.4	84.4	80.9	85.0	62.0	96.5	83.8	82.6	42.6	73.5	79.2
Progeny	P4851RX	75.5	93.2	105.2	83.7	88.2	89.2	69.9	94.6	96.1	74.2	31.8	73.3	81.2
Terral	REV 48A26	64.3	_	89.1	78.2	84.0	78.9	66.9	_	85.6	79.4	38.2	67.5	73.2
Terral	REV 4857X	71.5	88.4	99.7	83.9	79.1	84.5	65.2	86.2	89.8	73.1	30.8	69.0	76.8
Terral	REV 4927X	71.9	90.7	91.6	85.4	85.1	84.9	75.8	93.1	91.5	81.7	39.3	76.3	80.6
USG	7496XTS	66.5	86.6	89.4	78.1	79.5	80.0	74.4	91.9	85.8	69.1	43.3	72.9	76.5
Overall Mean		68.8	89.5	93.0	81.0	80.9	81.8	65.5	93.1	86.0	77.2	39.3	70.4	76.1

Table 7. Summary of 3-Year Yields for Maturity Group IV Late
Roundup Ready for the 2016, 2017, and 2018 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)¹	Stoneville irr. (clay)	Stoneville irr. (loam)	Irrigated avg.	Brooksville not irr.	Stoneville not irr.	Tippo not irr.	Not irr. avg.	Overall avg.
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Delta Grow	DG 4790RR2	71.7	73.1	78.9	74.6	59.3	71.6	42.5	57.8	66.2
Delta Grow	DG 48X45RR2 Xtend	_	77.8	80.5	79.1	59.4	73.4	_	66.4	72.8
Dyna-Gro	S48XT56	_	73.4	75.6	74.5	56.7	75.6	_	66.2	70.3
GoSoy	49G16	65.2	71.2	78.2	71.5	59.1	79.7	50.5	63.1	67.3
Progeny	P4757RY	69.7	75.5	80.0	75.1	59.9	68.2	41.1	56.4	65.7
Progeny	P4799RXS	_	71.0	80.6	75.8	57.8	71.0	_	64.4	70.1
Progeny	P4816RX	_	76.5	78.5	77.5	55.6	75.2	_	65.4	71.4
Terral	REV 48A26	70.0	75.1	84.0	76.4	60.3	75.4	39.5	58.4	67.4
USG	7496XTS		72.2	80.2	76.2	65.1	66.9		66.0	71.1
Overall Mean	69.1	74.0	79.6	75.6	59.3	73.0	43.4	62.7	69.2	

¹No 2-year averages for Xtend varieties at these locations.

Brand	Variety¹	Brooks- ville irr.	Clarks- dale irr.²	Long- wood irr.	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigation avg.	Brooks- ville not irr.	Olive Branch not irr. ²	Ray- mond not irr.	Verona not irr.	Not irr. 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
AgriGold	G5000RX	81.4	94.5	98.4	79.8	91.6	89.2	72.0	94.7	59.6	88.5	78.7	84.5
AgriGold	G5288RX	84.6	91.2	96.3	84.0	98.0	90.8	66.4	88.4	70.6	93.2	79.6	85.8
AGS	GS 51X18S	77.2	94.4	99.4	85.3	88.0	88.9	56.2	84.7	76.6	93.2	77.7	83.9
Armor	X50D13	71.9	88.1	116.8	79.3	85.4	88.3	67.8	87.2	82.8	88.1	81.5	85.3
Armor	X51D77	92.7	74.8	116.9	80.2	80.8	89.1	80.4	95.0	107.4	84.7	91.9	90.3
Armor	X52D71	79.6	89.5	99.3	79.8	85.7	86.8	77.4	90.3	82.0	91.2	85.2	86.1
Armor	X55D57	85.5	82.5	109.3	90.9	90.5	91.7	67.0	91.7	83.0	86.7	82.1	87.5
Asgrow	AG52X9	91.2	91.9	102.2	83.0	105.2	94.7	66.1	93.3	84.4	87.3	82.8	89.4
Asgrow	AG53X9	71.1	94.5	95.2	83.7	84.4	85.8	70.1	87.4	65.9	82.3	76.4	81.6
Asgrow	AG54X9	86.3	89.5	94.0	85.0	78.8	86.7	60.1	86.5	64.4	76.2	71.8	80.1
Asgrow	AG55X7	72.6	88.3	86.7	86.0	82.8	83.3	58.2	87.7	49.6	59.4	63.8	74.6
Croplan	RX 5016 S	79.9	92.6	92.1	75.0	78.4	83.6	64.3	89.9	58.1	77.7	72.5	78.7
Delta Grow	DG 5170 RR2/STS	82.3		116.9	84.2	94.9	94.6	70.1	_	82.7	84.0	78.9	87.9
Delta Grow	DG 52X15 Xtend	88.6	94.4	103.5	79.9	92.3	91.7	67.9	90.8	74.5	87.7	80.2	86.6
Dyna-Gro	S52XT08	70.1	90.1	100.3	86.4	85.7	86.5	64.5	91.7	62.0	78.8	74.2	81.1
Dyna-Gro	S56XT99	73.9	87.2	103.1	89.0	83.7	87.4	70.0	95.1	70.6	84.3	80.0	84.1
Dyna-Gro	SX18652XS	76.5	84.8	107.8	81.7	79.0	86.0	68.6	89.1	93.9	97.9	87.4	86.6
Dyna-Gro	SX18854XT	83.5	77.9	82.0	76.0	76.3	79.1	58.2	87.1	72.6	74.8	73.2	76.5
GoSov	50G17	85.7		113.6	86.2	87.2	93.1	67.0		81.9	84.0	77.6	86.5
GoSoy	54G16	62.6		89.1	73.7	66.2	72.9	56.8	_	56.2	67.1	60.0	67.4
Great Heart Seed	GT-5324X	83.1	87.3	97.8	84.5	90.8	88.7	57.1	86.0	62.0	73.1	69.5	80.2
Local Seed Co	LS5087X	89.5	96.0	113.2	88.7	87.6	95.0	66.4	102.2	80.5	90.3	84.9	90.5
NK Seeds	S50-G9XS	83.7	93.6	95.1	84.4	84.5	88.3	62.5	84.6	58.5	85.5	72.8	81.4
Pioneer	P54A75X	66.9	85.0	96.8	82.6	83.7	83.0	60.5	77.0	44.7	63.6	61.5	73.4
Progeny Ag	P 5016RXS	64.1	90.1	95.6	77.3	87.3	82.9	71.1	99.6	70.9	80.7	80.6	81.8
Progeny Ag	P5688RX	87.4	80.2	106.2	85.2	84.6	88.7	58.9	97.1	69.1	85.5	77.7	83.8
Progeny Ag	P5018RX	82.9	88.5	108.9	83.0	85.2	89.7	64.4	90.1	63.4	92.7	77.6	84.3
Progeny Ag	P5226RYS	70.7	_	111.4	88.7	95.6	91.6	75.7	_	87.3	90.2	84.4	88.5
Progeny Ag	P5252RX	76.6	78.1	114.5	83.5	87.4	88.0	68.9	95.0	101.9	86.4	88.1	88.0
Progeny Ag	P5279RXS	81.2	85.8	103.1	79.2	87.5	87.4	65.0	94.0	82.5	89.1	82.6	85.3
Progeny Ag	P5554RX	86.0	89.3	107.7	89.2	83.8	91.2	68.7	86.8	65.7	76.7	74.5	83.8
Terral Seed	REV 51A56	81.2	_	93.0	77.3	75.0	81.6	64.2	_	68.4	86.9	73.2	78.0
Terral Seed	REV 55A67	82.5		104.4	84.0	94.1	91.3	71.7	_	61.8	82.1	71.8	82.9
Terral Seed	REV 56A58	83.9		100.0	88.2	84.1	89.1	60.1		75.8	76.3	70.7	81.2
erral Seed	REV 52A98	84.6		101.2	87.7	87.8	90.3	64.8		73.7	84.6	74.4	83.5
J. of Arkansas	R14-14797 RR	80.9		97.6	80.5	86.9	86.5	78.7		85.5	96.7	87.0	86.7
J. of Missouri	S14-9017R	75.3	_	83.2	79.7	83.6	80.4	67.7	_	54.8	73.1	65.2	73.9
Mean		79.9	87.8	101.5	83.1	85.9		66.2	90.4	72.9	83.1		
CV		8.9	5.0	7.7	5.4	8.7		9.9	12.8	14.2	12.2		
LSD (0.05)		11.5	7.2	12.7	7.3	12.2		10.8	NS	16.8	16.5		
R^2		62.1	73.2	70.9	58.1	60.7		58.1	28.5	76.0	61.5		
Error DF		72	52	72	72	72		72	52	72	72		

¹Variety followed by an asterisk indicates an experimental entry.
²Varieties lacking the Xtend trait were omitted from these locations due to uncertainty of exposure and timing of dicamba drift occurrence.

Table 9. Summary of 2-Year Yields for Maturity Group V Early
Roundup Ready for the 2017 and 2018 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks- ville irr.	Clark- dale irr.¹	Long- wood irr.	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr.	Olive Branch not irr.¹	Raymond not irr.	Not irr. 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
AgriGold	G5000RX	66.0	80.2	90.2	73.6	84.1	78.8	68.7	86.7	74.7	76.7	78.0
Asgrow	AG55X7	69.0	80.2	94.5	82.3	77.4	80.7	62.1	87.2	66.7	72.0	77.4
Delta Grow	DG 5170 RR2/STS	68.1	_	103.6	79.5	91.5	85.7	68.3	_	84.2	76.3	82.5
GoSoy	54G16	57.0	_	81.3	66.9	64.3	67.4	53.7	_	62.7	58.2	64.3
Great Heart Seed	GT-5324X	67.7	78.4	92.4	77.3	83.6	79.9	59.1	82.3	70.8	70.7	76.5
Progeny Ag	P 5016RXS	57.6	77.4	78.4	73.6	81.4	73.7	68.5	91.9	81.1	80.5	76.2
Progeny Ag	P5688RX	77.0	54.5	94.7	77.2	81.7	77.0	55.7	95.6	77.5	76.2	76.7
Terral Seed	REV 51A56	66.2	_	87.0	75.1	74.9	75.8	51.5	_	83.3	67.4	73.0
Terral Seed	REV 55A67	72.2	_	97.5	75.9	78.9	81.1	68.3	_	69.1	68.7	77.0
Terral Seed	REV 56A58	73.5	_	88.1	81.6	80.6	81.0	62.9	_	89.0	75.9	79.3
U. of Arkansas	R14-14797 RR	63.7	_	89.1	75.3	80.9	77.2	64.9		92.2	78.6	77.7
Overall Mean		67.1	74.2	90.6	76.2	79.9	78.0	62.2	88.7	77.4	72.8	76.2

¹No 2-year averages for Xtend varieties at these locations.

Table 10. Summary of 3-Year Yields for the Maturity Group V Early	
Roundup Ready for the 2016, 2017, and 2018 Mississippi Soybean Variety Trials.	

Brand	Variety	Brooksville irr. (clay)	Clarksdale irr. (clay)¹	Longwood irr. (clay)	Stoneville irr. (clay)	Stoneville irr. (loam)	Irrigated avg.	Brooksville not irr.	Olive Branch not irr. ¹	Not irr. 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 5170 RR2/STS	70.4	_	90.2	76.5	88.4	81.4	62.1	_	62.1	77.5
Progeny Ag	P 5016RXS	_	_	_	70.0	81.7	75.8	60.2	_	60.2	70.6
Terral Seed	REV 51A56	69.1	_	79.9	72.4	75.4	74.2	48.4	_	48.4	69.0
Overall Mean		69.8		85.1	73.0	81.8	77.1	56.9		56.9	72.4

¹No 3-year average for certain varieties at these locations.

Table 11. Summary of Yield for Group V Late Roundup Ready for the 2018 Mississippi Soybean V	ariety Trials.
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Brand	Variety	Brooks- ville irr.	Clarks- dale irr.1	Long- wood irr.	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigation avg.	Brooks- ville not irr.	Olive Branch not irr. ¹	Ray- mond not irr.	Verona not irr.	Not irr. 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
USG	75B75R	93.4	67.7	110.3	83.1	81.4	87.2	72.7	97.6	96.5	84.9	87.9	87.5
Progeny	P5752RY	90.8	_	92.6	82.1	85.4	87.7	66.7		72.3	78.6	72.5	81.2
Mean		92.1	67.7	101.5	82.6	83.4	87.5	69.7	97.6	84.4	81.7		84.4
CV		7.1	_	3.2	3.4	5.0		8.6	_	13.9	5.5		
LSD		NS	_	11.5	NS	NS		NS	_	NS	NS		
R ²		58.8	_	97.3	82.8	81.1		65.7	_	80.0	69.3		
Error DF		2	_	2	2	2		2	_	2	2		

Varieties lacking the Xtend trait were omitted from these locations due to uncertainty of exposure and timing of dicamba drift occurrence.

					of 2-Year Yi 7 and 2018				rials.			
Brand	Variety	Brooks- ville irr.	Clark- dale irr.¹	Long- wood irr.	Stone- ville irr. (clay)	Stone- ville irr. (loam)	Irrigated avg.	Brooks- ville not irr.	Olive Branch not irr.¹	Raymond not irr.	Not irr. 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
USG	75B75R	77.5	66.0	98.2	71.6	77.9	78.3	68.2	90.4	89.8	82.8	80.0
Progeny	P5752RY	73.9		90.6	72.3	77.7	78.6	61.6	_	80.5	71.0	76.1
												1
Overall Mean		75.7	66.0	94.4	71.9	77.8	78.4	64.9	90.4	85.1	76.9	78.0
¹No 2-year ave	¹ No 2-year averages for Xtend varieties at these locations.											

		Table 1 Roundup Ready				Maturity G ssissippi So					
Brand	Variety	Brooksville irr. (clay)	Clarksdale irr. (clay)¹	Longwood irr. (clay)	Stoneville irr. (clay)	Stoneville irr. (loam)	Irrigated avg.	Brooksville not irr.	Olive Branch not irr.¹	Not irr. avg.	Overall avg.
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
USG	75B75R	76.6	62.6	84.3	68.1	74.6	73.2	62.3	94.7	78.5	74.8
Progeny	P5752RY	73.0	_	81.2	69.0	69.6	73.2	57.9	_	57.9	70.1
Overall Mean		74.8	62.6	82.8	68.6	72.1	73.2	60.1	94.7	68.2	72.5
¹ No 2-year aver	ages for Xtend variet	ies at these locations	i.								

Brand	Variety ¹	Longwood irr. (clay)	Stoneville irr. (clay)	Irr. avg.	Brooksville not irr. (clay)	Raymond not irr. (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Credenz	CZ 3601 LL	58.3	72.2	65.3	38.2	48.1	64.6	50.3	56.3
Credenz	CZ 3841 LL	57.2	66.4	61.8	41.0	45.8	70.2	52.4	56.1
Credenz	CZ 4105 LL	56.8	68.9	62.8	39.6	53.5	70.1	54.4	57.8
Credenz	CZ 4222 LL	82.6	78.0	80.3	50.0	51.4	77.4	59.6	67.9
Credenz	CZ 4308 LL	74.0	79.5	76.8	51.4	61.5	89.0	67.3	71.1
Credenz	CZ 4540LL	86.7	73.8	80.2	55.2	66.1	81.1	67.5	72.6
Credenz	CZ 4548 LL	85.4	70.9	78.1	52.1	74.8	87.8	71.6	74.2
Credenz	CZ 4649 LL	107.6	76.9	92.2	62.4	95.5	96.4	84.7	87.7
Credenz	CZ 4748 LL	105.5	68.5	87.0	63.2	86.7	100.4	83.4	84.9
Credenz	CZ 4820 LL	104.6	73.5	89.0	58.1	87.8	105.0	83.6	85.8
Credenz	CZ 4918 LL	97.1	84.7	90.9	56.7	79.7	90.8	75.8	81.8
Credenz	CZ 4938 LL	110.5	70.1	90.3	55.0	95.9	85.2	78.7	83.4
Delta Grow	DG 4582 LL/STS	78.7	74.6	76.7	51.8	72.0	85.4	69.7	72.5
Delta Grow	DG 4977LL/STS	95.9	72.0	84.0	52.0	85.1	76.0	71.0	76.2
Dyna-Gro	S45LL97	89.8	76.1	82.9	52.0	71.3	87.5	70.3	75.3
Dyna-Gro	S49LL34	106.7	80.0	93.4	54.2	107.3	83.2	81.6	86.3
Pioneer	P44A08L	68.8	78.7	73.8	54.5	65.0	91.0	70.1	71.6
Pioneer	P47A76L	87.7	79.7	83.7	60.8	79.7	90.2	76.9	79.6
Terral	REV 46L99 *	91.8	75.6	83.7	60.2	67.6	102.7	76.8	79.6
Terral	REV 47L38	82.1	81.2	81.6	53.0	78.3	100.3	77.2	79.0
Terral	REV 49L88 *	87.9	85.5	86.7	77.2	83.0	101.1	87.1	86.9
Mean		87.9	75.7	81.8	55.0	75.4	88.5	73.0	76.5
CV		7.5	8.6		12.8	12.8	8.7		
LSD (0.05)		10.7	10.8		11.5	15.7	12.5		
R ²		91.3	50.2		70.5	8.3	79.1		
Error DF		40	40		40	40	40		

Table 15. Summary of 2-Year Yields for Maturity Group IV
LibertyLink for the 2017 and 2018 Mississippi Soybean Variety Trials.

Brand	Variety¹	Longwood irr. (clay)	Stoneville irr. (clay)	Irrigated average	Brooksville not irr. (clay)	Raymond not irr. (loam)	Not irr. average	Overall average
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Credenz	CZ 3841 LL	65.1	68.7	66.9	37.8	56.2	47.0	56.9
Credenz	CZ 4105 LL	64.6	68.0	66.3	36.8	59.8	48.3	57.3
Credenz	CZ 4222 LL	82.2	75.5	78.9	44.8	65.7	55.2	67.1
Credenz	CZ 4308 LL	78.8	77.6	78.2	44.1	76.3	60.2	69.2
Credenz	CZ 4540LL	83.0	70.5	76.7	49.3	80.0	64.6	70.7
Credenz	CZ 4548 LL	82.0	70.5	76.2	47.4	88.3	67.8	72.0
Credenz	CZ 4748 LL	91.2	66.3	78.8	51.2	90.1	70.6	74.7
Credenz	CZ 4820 LL	92.2	70.8	81.5	54.3	83.6	68.9	75.2
Credenz	CZ 4918 LL	90.3	80.6	85.5	54.4	87.0	70.7	78.1
Credenz	CZ 4938 LL	93.5	65.8	79.7	53.5	92.7	73.1	76.4
Delta Grow	DG 4977LL/STS	82.2	68.8	75.5	52.9	92.5	72.7	74.1
Dyna-Gro	S45LL97	86.8	74.3	80.5	48.6	73.5	61.1	70.8
Dyna-Gro	S49LL34	98.0	75.7	86.9	57.6	110.5	84.1	85.5
Terral	REV 49L88 *	86.9	81.2	84.1	70.2	91.8	81.0	82.5
Overall Mean		84.1	72.5	78.3	50.2	82.0	66.1	72.2

Table 16. Summary of 3-Year Yields for Maturity Group IV
LibertyLink for the 2016, 2017, and 2018 Mississippi Soybean Variety Trials.

Brand	Variety	Longwood irr. (clay)	Stoneville irr. (clay)	Irrigated average	Brooksville not irr. (clay)	Overall average
		bu/A	bu/A	bu/A	bu/A	bu/A
Credenz	CZ 4105 LL	58.7	63.1	60.9	34.5	52.1
Credenz	CZ 4222 LL	71.7	72.3	72.0	43.6	62.5
Credenz	CZ 4540 LL	77.6	69.5	73.6	49.5	65.6
Credenz	CZ 4748 LL	79.6	66.3	72.9	52.4	66.1
Delta Grow	DG 4977LL/STS	75.2	68.7	72.0	53.8	65.9
Dyna-Gro	S49LL34	88.0	75.6	81.8	57.7	73.7
Overall Mean		75.2	69.2	72.2	48.6	64.3

Brand	Variety	Longwood irr. (clay)	Stoneville irr. (clay)	Irr. avg.	Brooksville not irr. (clay)	Raymond not irr. (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Credenz	CZ 5147 LL	89.6	76.9	83.3	70.4	83.2	93.3	82.3	82.7
Credenz	CZ 5242 LL	96.7	76.5	86.6	70.5	103.9	96.2	90.2	88.8
Credenz	CZ 5150 LL	107.1	76.6	91.8	65.5	77.6	89.5	77.5	83.2
Credenz	CZ 5445 LL	86.8	80.0	83.4	69.5	81.4	91.9	80.9	81.9
Credenz	CZ 5225 LL	95.6	79.8	87.7	75.0	92.8	90.2	86.0	86.7
Credenz	CZ 5328 LL	91.7	80.6	86.1	67.1	66.4	88.8	74.1	78.9
Mean		94.6	78.4	86.5	69.7	84.2	91.7	81.9	83.7
CV		15.0	2.8		6.5	16.2	6.4		
LSD (0.05)		NS	NS		NS	NS	NS		
R ²		31.6	74.2		49.1	60.4	58.8		
Error DF		10	10		10	10	10		

	Table 18. Summary of 2-Year Yields for Maturity Group V LibertyLink for the 2017 and 2018 Mississippi Soybean Variety Trials.								
Brand	Variety	Longwood irr. (clay)	Stoneville irr. (clay)	Irrigated average	Brooksville not irr. (clay)	Raymond not irr. (loam)	Not irr. average	Overall average	
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	
Credenz	CZ 5147 LL	82.7	71.7	77.2	64.7	74.3	69.5	73.4	
Credenz	CZ 5242 LL	85.8	69.5	77.6	59.1	90.3	74.7	76.2	
Credenz	CZ 5150 LL	88.0	69.3	78.6	59.8	70.0	64.9	71.8	
Overall Mean		85.5	70.2	77.8	61.2	78.2	69.7	73.8	

Table 19. Summary of 3-Year Yields for Maturity Group V LibertyLink for the 2016, 2017, and 2018 Mississippi Soybean Variety Trials.								
Brand	Variety	Longwood irr. (clay)	Stoneville irr. (clay)	Irrigated average	Brooksville not irr. (clay)	Overall average		
		bu/A	bu/A	bu/A	bu/A	bu/A		
Credenz	CZ 5147 LL	71.7	98.9	85.3	60.1	76.9		
Credenz	CZ 5242 LL	80.8	95.5	88.2	56.9	77.7		
Credenz	CZ 5150 LL	81.6	96.2	88.9	56.9	78.2		
Overall Mean		78.0	96.8	87.4	58.0	77.6		

Brand	Variety ¹	Stoneville irr. (clay)	Brooksville not irr.	Overall average
		bu/A	bu/A	bu/A
GoSoy	43C17S	65.9	43.7	54.8
GoSoy	E4510S	72.8	49.0	60.9
GoSoy	Ireane	79.7	66.7	73.2
U. of Missouri	S13-10590C *	74.2	57.3	65.7
U. of Missouri	S13-10592C *	74.1	63.9	69.0
U. of Missouri	S13-2743C *	62.7	52.3	57.5
U. of Missouri	S13-3851C	82.4	63.5	72.9
VIRTUE EX203	2987331	90.0	67.0	78.5
VIRTUE EX206	2987416	88.8	59.8	74.3
Mean		76.7	58.1	67.4
CV		6.7	12.1	
LSD (0.05)		8.9	12.2	
R ²		84.2	70.5	
Error DF		16	16	

Table 21. Summary of 2-Year Yields for Maturity Group IV Conventional for the 2017 and 2018 Mississippi Soybean Variety Trials.							
Brand	Variety¹	Stoneville (Delta) irr.	Brooksville (Hills) not irr.	Overall average			
		bu/A	bu/A	bu/A			
GoSoy	Ireane	74.5	57.7	66.1			
U. of Missouri	S13-10590C *	68.7	46.3	57.5			
U. of Missouri	S13-2743C *	67.1	40.5	53.8			
U. of Missouri	S13-3851C	77.9	58.4	68.1			
Overall Mean		72.1	50.7	61.4			

Table 22. Summary of the 3-Year Yields for the Maturity Group IV Conventional for the 2016, 2017, and 2018 Mississippi Soybean Variety Trials.						
Brand	Variety	Stoneville irr. (clay)	Brooksville not irr. (clay)	Overall average		
GoSoy	Ireane	<i>bu/A</i> 74.9	bu/A 54.7	<i>bu/A</i> 64.8		

Brand	Variety ¹	Stoneville irr. (clay)	Brooksville not irr. (clay)	Overall average
		bu/A	bu/A	bu/A
GoSoy	51C17	82.9	59.9	71.4
GoSoy	53C16	83.5	63.1	73.3
GoSoy	56C16	88.1	71.3	79.7
U. of Missouri	M05201D CONV	90.3	77.7	84.0
U. of Missouri	S11-20242C	84.5	73.7	79.1
U. of Missouri	S13-1955C *	82.6	75.1	78.8
U. of Missouri	S15-10434C *	92.7	72.4	82.5
Mean		87.0	72.2	78.4
CV		3.1	10.7	
LSD		4.8	NS	
R ²		77.7	61.9	
Error DF		12	12	

Table 24. Summary of 2-Year Yields for Maturity Group V Conventional for the 2017 and 2018 Mississippi Soybean Variety Trials.						
Brand	Variety¹	Stoneville irr. (clay)	Brooksville not irr. (clay)	Overall average		
		bu/A	bu/A	bu/A		
GoSoy	56C16	79.2	59.6	69.4		
U. of Missouri	S13-1955C *	77.5	69.2	73.4		
Overall Mean		78.4	64.4	71.4		
¹ Variety followed by an a	sterisk indicates an experimenta	entry.		•		

BROOKSVILLE, BLACK BELT BRANCH

Crop Summary

Soybean plots were planted into a stale seedbed that had been prepared the previous fall. Adequate soil moisture was present at the time of planting to allow for germination. All plots emerged to a good stand. Despite a

dry period during the midseason, good dryland yields were seen at this location due to some timely rainfall that occurred during the growing season. Harvest was completed in a timely manner with no difficulties.

Planting date ... April 20

Harvest dateSeptember 18

Soil typeBrooksville silty clay

Soil pH 6.9

Soil fertilityP=M, K=M Previous crop ...Wheat

HerbicidePreemergence — Authority MTZ @ 12 oz/A, Gramoxone @ 32 oz/A, Dual II Magnum

@ 24 oz/A, and Zidua @ 2 oz/A on April 20

Postemergence -

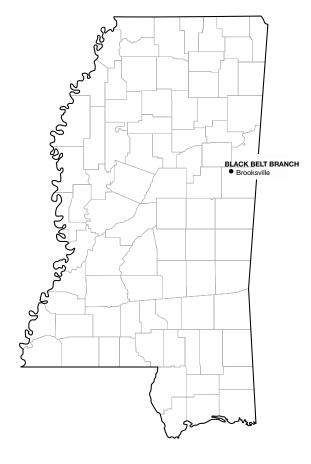
Roundup Ready – Roundup Powermax @ 32 oz/A, Prefix @ 24 oz/A, and Firstrate @ 0.4 oz/A on June 4

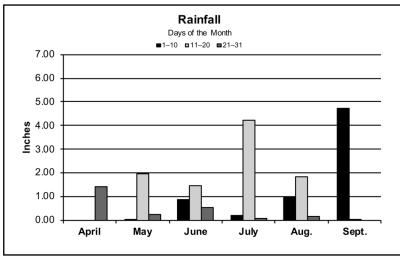
LibertyLink - Liberty @ 32 oz/A, Prefix @ 24 oz/A, and Firstrate @ 0.4 oz/A on June 4

Conventional – Section (clethodim) @ 12 oz/A, Prefix @ 24 oz/A, and Firstrate

@ 0.4 oz/A on June 4

FertilizerPreplant - 0-20-20 @ 300 lb/A





	Inches
April	1.41
May	2.20
June	2.84
July	4.52
August	2.99
September	4.77
Total	18.73

Table 25. Roundup Ready Maturity Group IV Early Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville). Yield **Brand** Variety¹ **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Dyna-Gro SX18845XT * 67.0 9/1 32 DG 46X25RR2 Xtend 9/1 33 **Delta Grow** 66.8 1 AgriGold G4579RX 65.9 9/2 34 Armor X45D50 * 65.5 9/1 32 Asgrow AG46X6 64.2 64.0 58.1 9/3 28 1 Croplan RX 4500 S 63.5 9/4 37 9/4 MorSoy MS 4616 RXT 63.4 64.4 34 1 Local Seed Co LS4677X 63.2 9/3 34 Armor X46D63 3 62.7 9/1 33 P4620RXS 62.6 66.6 59.4 9/4 32 Progeny 1 Local Seed Co LS4487XS 61.8 9/4 30 1 9/1 S45XS37 61.7 61.6 36 Dyna-Gro **Delta Grow** 4670RR2 61.6 64.4 60.0 8/29 36 42 AgriGold G4605RX 61.4 8/29 Mission Seed Solutions A4447NSXR2 60.8 9/2 35 1 Local Seed Co LS4583X 60.7 9/3 32 8/22 Pioneer P46A57BX 60.5 31 1 NK Seeds S45-K5X 59.4 58.6 8/25 30 Mission Seed Solutions A4618X 59.3 9/3 31 G4440RX 58.9 63.8 9/1 32 1 AgriGold Asgrow AG43X7 58.8 62.9 8/28 33 AG45X8 58.7 8/28 33 Asgrow 59.7 1 Croplan RX4687S 58.4 9/2 33 A4637NSXR2 Mission Seed Solutions 58.1 8/29 33 Great Heart GT-4628X 57.4 8/28 41 1 NK Seeds S45-J3X 57.1 8/26 26 1 **Great Heart** GT-4685XS 56.7 8/28 37 Dyna-Gro S45XS66 56.6 69.9 63.5 9/1 33 42-D27 55.8 8/21 Armor 32 1 Asgrow AG42X9 55.8 8/28 36 1 Mission Seed Solutions A4608X 55.0 8/28 41 P4444RXS 54.8 66.8 8/26 26 Progeny 1 USG 7447XTS 54.7 8/29 33 Pioneer P46A16R 54.6 8/27 34 Asgrow AG43X8 54.3 8/29 34 1 Local Seed Co LS4565XS 53.8 9/4 31 REV 4679X * 8/24 Terral 53.5 29 MS 4426 RXT 52.5 34 MorSoy 9/3 Pioneer P42A96X 52.2 8/18 30 P4255RX 52.1 8/22 29 1 Progeny 55.7 Dyna-Gro S41XS98 51.9 8/19 31 1 51.3 9/4 27 Progeny P4750 RYS AGS GS46X17 51.2 55.3 8/28 25 NK Brand 50.8 28 S43-V3X 57.8 8/25 1 Local Seed Co LS4689X 50.6 8/28 38 1 U. of Missouri S14-15146R * 49.0 9/2 28 RX 4217 S 47.6 8/24 33 Croplan 1 P4318RX 42.7 8/23 31 Progeny Mean 57.4 CV 11.7 LSD (0.05) 10.89 57.55 Error DF 94 ¹Variety followed by an asterisk indicates an experimental entry.

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

Brand	Variety ¹		Yield		Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Terral	REV 4927X	77.6	75.8	_	9/1	36	1
USG	7496XTS	73.8	74.4	65.1	9/1	34	1
Great Heart Seed	GT-4833XS	73.4	_	_	8/30	35	1
Progeny	P4955RX	73.1	_	_	9/1	38	1
Asgrow	AG47X9	72.8	_	_	9/4	31	1
Progeny	P4851RX	71.9	69.9	_	9/1	38	1
Delta Grow	DG 4790RR2	70.5	67.7	59.3	9/11	36	1
Local Seed Co	LS4889XS	70.5	_	_	9/5	34	1
Local Seed Co	LS4966X	69.3	_	_	9/2	29	1
Armor	X49D31 *	68.5	_	_	9/3	32	1
Local Seed Co	LS4988X	67.4			9/2	29	1
Petrus Seed	4916 GT	67.3	71.6		9/6	31	1
Progeny	P4799RXS	67.1	65.0	57.8	9/1	38	1
Mission Seed Solutions	A4828X	66.9			9/6	36	1
AgriGold	G4995RX	66.6			9/16	35	1
Pioneer	P48A60X	66.2			8/27	29	1
JSG			_				
	7489XT	66.1			9/5	30	1
Croplan	RX4927	65.8		_	9/1	33	1
Local Seed Co	AV49W3X	65.5	_		9/1	31	11
Dyna-Gro	S49XT39	65.4			9/5	37	1
Dyna-Gro	S48XT56	65.0	63.0	56.7	9/11	28	1
Progeny	P4944RX	64.9			9/1	28	1
Mission Seed Solutions	A4950X	64.7	_		9/4	33	1
Great Heart Seed	GT-4979X	64.6	_		9/6	37	1
AGS	GS 48X18	63.5	_	_	9/3	33	1
Armor	X48D02 *	63.1	_	_	9/4	33	1
GoSoy	49G16	62.6	66.1	59.1	9/8	29	1
Progeny	P4816RX	62.4	62.0	55.6	9/2	26	1
NK Brand	S48-R2X	62.1	61.5	_	9/3	34	1
J. of Missouri	S14-9051R *	62.0	_	_	8/25	30	1
Great Heart Seed	GT-4809X	61.5	_	_	9/6	34	1
J. of Missouri	S14-9051R	61.1	_	_	9/2	33	1
Terral	REV 48A26	61.0	66.9	60.3	9/1	30	1
Progeny	P4757RY	60.8	65.8	59.9	9/7	29	1
Armor	X47D22 *	60.3		_	9/3	31	<u> </u>
ocal Seed Co	AV47W2X	60.2			9/3	29	<u>'</u>
Asgrow	AG48X9	60.2			9/1	27	1
Great Heart Seed	GT-4721X	59.9	63.0		8/29	35	1
Croplan	RX4825	59.8	61.4		9/1	27	1
ocal Seed Co	LS4968XS	59.2	— 01.4 —		9/6	33	1
Delta Grow	DG 48X45RR2 Xtend	59.2	<u>—</u> 65.1		9/5	29	1
				59.4			
[erral	REV 4857X	58.9	65.2	_	9/1	33	1
Terral	REV 47A98	57.5			9/2	32	1
Asgrow	AG49X9	55.5			9/5	27	11
MorSoy	MS 4846 RXT	53.2	62.2		9/3	27	1
Petrus Seed	479 GTS	48.8	52.6	_	8/23	32	1
Mean		64.3					
CV		12.84					
LSD (0.05)		NS					
R ²		45					
Error DF		90					

Table 27. Roundup Ready Maturity Group V Early Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville). **Brand** Yield **Maturity date** Plant height Variety¹ **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 X51D77 80.4 9/13 39 Armor 1 U. of Arkansas R14-14797 RR 78.7 64.9 9/13 33 77.4 9/11 35 Armor X52D71 1 75.7 9/9 36 Progeny Ag P5226RYS 1 AgriGold G5000RX 72.0 68.7 9/1 34 9/13 Terral Seed **REV 55A67** 71.7 68.3 26 1 Progeny Ag P 5016RXS 71.1 68.5 60.2 9/3 33 9/4 28 Asgrow AG53X9 70.1 DG 5170 RR2/STS 62.1 Delta Grow 70.1 68.3 9/5 42 1 Dyna-Gro S56XT99 70.0 9/7 33 1 P5252RX 68.9 9/10 33 Progeny Ag 1 Progeny Ag P5554RX 68.7 9/13 26 34 SX18652XS 68.6 9/5 Dyna-Gro Delta Grow DG 52X15 Xtend 67.9 9/3 35 1 X50D13 Armor 67.8 9/5 36 1 U. of Missouri S14-9017R 9/12 23 67.7 50G17 67.0 9/6 26 GoSoy X55D57 67.0 9/10 30 Armor 1 Local Seed Co 9/4 37 LS5087X 66.4 1 AgriGold G5288RX 66.4 9/5 34 9/3 30 Asgrow AG52X9 66.1 1 Progeny Ag P5279RXS 65.0 9/11 33 Terral Seed **REV 52A98** 64.8 9/1 33 8/30 Dyna-Gro S52XT08 64.5 26 1 Progeny Ag P5018RX 64.4 9/6 31 1 RX 5016 S 8/30 Croplan 64.3 31 Terral Seed **REV 51A56** 64.2 51.5 48.4 9/2 29 9/4 33 **NK Seeds** S50-G9XS 62.5 Pioneer P54A75X 60.5 9/14 19 1 Terral Seed **REV 56A58** 60.1 62.9 9/6 27 1 AG54X9 60.1 9/4 26 Asgrow P5688RX 58.9 55.7 9/13 31 Progeny Ag AG55X7 58.2 62.1 9/5 23 1 Asgrow SX18854XT 58.2 9/4 22 Dyna-Gro 1 Great Heart Seed GT-5324X 57.1 59.1 8/30 22 56.8 9/9 27 GoSoy 54G16 53.7 AGS GS 51X18S 56.2 9/2 30 66.4 Mean CV 9.94 LSD (0.05) 10.75 58.12 Error DF 72 ¹Variety followed by an asterisk indicates an experimental entry.

Brand Variety		Yield			Plant height	Lodging score
	2018	2-yr. avg.	3-yr. avg.			
	bu/A	bu/A	bu/A		in	1-5
75B75R	72.65	68.2	62.3	9/13	32	1
P5752RY	66.71	61.6	57.9	9/12	29	1
	69.7					
	8.64					
	NS					
	65.72					
	75B75R	2018 bu/A 75B75R 72.65 P5752RY 66.71 69.7 8.64 NS	2018 2-yr. avg. bu/A bu/A 75B75R 72.65 68.2 P5752RY 66.71 61.6 69.7 8.64 NS	2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A 75B75R 72.65 68.2 62.3 P5752RY 66.71 61.6 57.9 69.7 8.64 NS	2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A 75B75R 72.65 68.2 62.3 9/13 P5752RY 66.71 61.6 57.9 9/12 69.7 8.64 NS	2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 75B75R 72.65 68.2 62.3 9/13 32 P5752RY 66.71 61.6 57.9 9/12 29 69.7 8.64 NS NS NS NS NS

Table 29. Maturity Group IV LibertyLink Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville). **Brand** Variety¹ Yield **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A in 1-5 bu/A bu/A 9/1 Terral REV 49L88 * 77.2 70.2 32 Credenz CZ 4748 LL 63.2 51.2 52.4 8/25 33 1 Credenz CZ 4649 LL 62.4 8/30 32 29 Pioneer P47A76L 60.8 8/29 REV 46L99 * 60.2 31 Terral 8/30 1 54.3 Credenz CZ 4820 LL 58.1 8/25 33 Credenz CZ 4918 LL 56.7 54.4 8/25 32 1 Credenz CZ 4540 LL 55.2 49.3 49.5 8/29 34 Credenz CZ 4938 LL 55.0 53.5 9/1 36 P44A08L 54.5 29 Pioneer 8/24 Dyna-Gro S49LL34 54.2 57.6 57.7 8/28 36 Terral **REV 47L38** 27 53.0 8/25 47.4 Credenz CZ 4548 LL 52.1 8/26 35 52.0 32 S45LL97 48.6 8/27 1 Dyna-Gro Delta Grow DG 4977LL/STS 52.0 52.9 53.8 9/5 38 27 Delta Grow DG 4582 LL/STS 51.8 8/24 CZ 4308 LL Credenz 51.4 44.1 9/1 35 1 Credenz CZ 4222 LL 50.0 44.8 43.6 8/24 29 Credenz CZ 3841 LL 41.0 37.8 8/24 30 34.5 CZ 4105 LL 39.6 28 Credenz 36.8 8/24 1 Credenz CZ 3601 LL 38.2 8/24 28 Mean 54.2 CV 12.8 LSD (0.05) 11.45 70.53 Error DF 40 ¹Variety followed by an asterisk indicates an experimental entry.

Brand Variety	Variety	Yield			Maturity date	Plant height	Lodging score
	2018	2-yr. avg.	3-yr. avg.				
		bu/A	bu/A	bu/A		in	1-5
Credenz	CZ 5225 LL	75.0	_	_	9/6	26	1
Credenz	CZ 5242 LL	70.5	59.1	56.9	9/11	43	1
Credenz	CZ 5147 LL	70.4	64.7	60.1	9/6	24	1
Credenz	CZ 5445 LL	69.5	_	_	9/9	28	1
Credenz	CZ 5328 LL	67.1	_	_	9/9	31	1
Credenz	CZ 5150 LL	65.5	59.8	56.9	9/3	33	1
Mean		69.7					
CV		6.5					
LSD (0.05)		NS					
R ²		49.1					
Error DF		10					

Table 31. Maturity Group IV Conventional Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville). Brand Yield Variety¹ **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 VIRTUE EX203 2987331 67.0 8/18 19 GoSoy 66.7 57.7 54.7 9/6 23 Ireane S13-10592C * U. of Missouri 8/29 30 63.9 U. of Missouri S13-3851C 63.5 58.4 8/28 27 1 VIRTUE EX206 2987416 59.8 9/2 29 1 S13-10590C * U. of Missouri 57.3 46.3 9/27 28 U. of Missouri S13-2743C * 52.3 8/19 32 40.5 1 GoSoy E4510S 49.0 8/29 28 43C17S GoSoy 43.7 8/19 28 58.1 Mean CV 12.1 LSD (0.05) 12.2 70.5 Error DF 16 ¹Variety followed by an asterisk indicates an experimental entry.

Brand Variety¹	Variety ¹	Yield			Maturity date	Plant height	Lodging score
	2018	2-yr. avg.	3-yr. avg.²				
		bu/A	bu/A	bu/A		in	1-5
U. of Missouri	M05201D CONV	77.7	_	_	9/10	25	1
U. of Missouri	S13-1955C *	75.1	69.2	_	9/11	33	1
U. of Missouri	S11-20242C	73.7	_	_	9/2	38	1
U. of Missouri	S15-10434C *	72.4	_	_	9/14	24	1
GoSoy	56C16	71.3	59.6	_	9/13	35	1
GoSoy	53C16	63.1	_	_	9/9	25	1
GoSoy	51C17	59.9	_		9/2	27	1
Mean		70.5					
CV		10.7					
LSD		NS					
R ²		61.9					
Error DF		12					

Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

BROOKSVILLE, BROOKSVILLE FARM

Crop Summary

Soybean plots were planted into a stale seedbed with adequate moisture for germination. All plots came up to a good stand. Midsummer was hot and very dry at this location. Timely irrigation events allowed for ample soil moisture throughout the season. Harvest was completed in a timely manner and good yields were observed at this location.

Planting dateMay 4

Harvest dateSeptember 20

Soil typeBrooksville silty clay

Soil fertilityP=M, K=M Previous cropCotton

FertilizerPreplant — 0-0-60 @ 125 lb/A, and Broiler litter @ 2 tons/A

HerbicideBurndown — Roundup PowerMAX @ 25.6 oz/A, Barrage @ 12.8 oz/A, and Leadoff

@ 1.5 oz/A on February 23

Preemergence - Authority MTZ @ 12 oz/A, Gramoxone @ 32 oz/A, Dual II

Magnum @ 24 oz/A, and Zidua @ 2 oz/A on May 4

Postemergence — Roundup PowerMAX @ 25.6 oz/A and Resource @ 3.5 oz/A

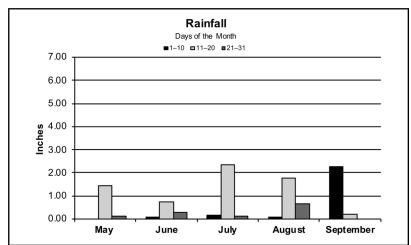
on May 15; Roundup PowerMAX @ 32 oz/A and Prefix @ 32 oz/A on May 31

Fungicide/Insecticide ...Dimilin @ 2 oz/A and Avaris @ 10 oz/A on July 20

Irrigation June 11 (1/2"), June 26 (3/4"), July 2 (3/4"), July 6 (3/4"), July 13 (3/4"),

July 30 (3/4"), August 6 (3/4")





	Inches
May	
June	1.08
July	2.60
August	2.48
September	2.44
Total	10.16

Brand	Variety ¹	Yield ²		Maturity date	Plant height	Lodging score	
	-	2018	2-yr. avg.	3-yr. avg.	-	_	
		bu/A	bu/A	bu/A		in	1-5
Asgrow	AG46X6	93.6	67.2	_	9/12	37	1
Croplan	RX4687S	92.1	_	_	9/7	44	1
Asgrow	AG45X8	91.0	69.4	_	9/9	36	1
Local Seed Co	LS4583X	90.5	_	_	9/9	43	1
Progeny	P4620RXS	89.7	69.1		9/13	42	1
MorSoy	MS 4616 RXT	88.9	71.2		9/5	42	1
Dyna-Gro	SX18845XT *	87.7			9/8	38	1
USG	7447XTS	87.7			9/11	43	1
Local Seed Co	LS4565XS	87.7			9/6	42	<u> </u>
NK Seeds	S45-J3X	87.7			9/3	30	<u>·</u> 1
Mission Seed Solutions	A4608X	86.9			9/6	52	1
Asgrow	AG43X7	86.9	68.9		9/4	38	<u>'</u> 1
Croplan	RX 4500 S	86.7	— 00.9 —		9/6	44	<u>'</u>
AgriGold	G4440RX	86.6	70.3	_	9/6	44	1
Agriciola Pioneer	P46A16R	86.4	70.3		9/6	40 41	1 1
Mission Seed Solutions	A4637NSXR2	86.4			9/5	41	11
Pioneer	P46A57BX	86.2			9/4	43	11
Progeny	P4750 RYS	86.1			9/2	41	1
Dyna-Gro	S45XS66	85.6	70.5		9/11	37	1
Delta Grow	4670RR2	85.3	65.4	68.5	9/5	45	1
MorSoy	MS 4426 RXT	85.2			9/3	40	1
Dyna-Gro	S41XS98	85.0			9/2	32	1
Armor	X45D50 *	84.8	_		9/10	38	1
Dyna-Gro	S45XS37	84.2	66.2	_	9/11	43	1
Local Seed Co	LS4677X	83.7	_	_	9/3	43	1
Great Heart	GT-4685XS	83.7	_	_	9/7	43	1
Terral	REV 4679X *	83.5	_	_	9/5	39	1
Asgrow	AG42X9	83.5	_	_	9/4	40	1
Local Seed Co	LS4487XS	83.4	_	_	9/6	41	1
Armor	42-D27	83.1	_	_	9/2	32	1
Armor	X46D63 *	82.9	_	_	9/13	40	1
Mission Seed Solutions	A4618X	82.7	_	_	9/13	43	1
Mission Seed Solutions	A4447NSXR2	82.6	_	_	9/11	43	1
NK Seeds	S45-K5X	82.5	61.6	_	9/2	33	1
AgriGold	G4579RX	82.3	_	_	9/11	42	1
NK Brand	S43-V3X	82.2	62.4		9/6	36	1
Progeny	P4444RXS	81.9	66.7		9/3	34	1
Delta Grow	DG 46X25RR2 Xtend	81.8	_		9/7	38	<u>·</u> 1
AgriGold	G4605RX	81.7	_	_	9/6	51	<u>.</u>
AGS	GS46X17	81.5	58.6		9/8	32	<u> </u>
Progeny	P4255RX	81.1	62.6		9/3	39	<u>'</u> 1
Local Seed Co	LS4689X	80.6	—	_	9/8	50	<u>.</u> 1
Great Heart	GT-4628X	80.1	_	<u>_</u>	9/5	52	<u>'</u> 1
Pioneer	P42A96X	78.4			9/5	38	1
Asgrow	AG43X8	77.7			9/4	41	1
Asgrow U. of Missouri		73.1	_			33	
	S14-15146R * P4318RX			_	9/6	45	1
Progeny		72.6	_	_	9/3		1
Croplan	RX 4217 S	69.4	_		9/3	44	2
Mean		84.0					
CV		4.9					
LSD (0.05) R ²		6.7 65.9					

¹Variety followed by an asterisk indicates an experimental entry. ²Varieties lacking the Xtend trait were omitted from these locations due to uncertainty of exposure and timing of dicamba drift occurrence.

Table 34. Roundup Ready Maturity Group IV Late Irrigated Soybean Varieties (Brooksville Farm, Brooksville). **Brand** Variety1 Yield Maturity date Plant height Lodging score 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 AG49X9 97.0 9/15 37 Asgrow MorSoy MS 4846 RXT 96.9 77.4 9/15 35 Croplan RX4825 96.8 73.3 9/16 38 1 AG48X9 95.3 9/11 39 Asgrow Progeny P4851RX 94.2 75.5 9/10 39 7496XTS 44 93.9 USG 66.5 9/14 1 Mission Seed Solutions MEX4908 3 44 93.8 9/16 76.2 Great Heart Seed 40 3 GT-4721X 93.5 9/6 Dyna-Gro S48XT56 92.8 72.8 9/14 38 1 Dyna-Gro S49XT39 92.3 9/11 43 P48A60X 92.3 9/7 39 Pioneer **Great Heart Seed** 43 GT-4979X 92.0 9/15 1 **Delta Grow** DG 4790RR2 91.6 67.1 71.7 9/7 41 Terral **REV 4927X** 91.3 71.9 9/4 43 Local Seed Co AV49W3X 91.2 9/4 44 37 Terral **REV 47A98** 91.0 9/6 P4816RX 90.2 66.6 9/15 37 Progeny Croplan RX4927 89.6 9/7 42 1 P4955RX 89.4 9/12 43 Progeny Armor X47D22 * 89.3 9/6 38 36 DG 48X45RR2 Xtend 88.88 75.4 Delta Grow 9/15 1 P4944RX 37 Progeny 88.7 9/11 P4757RY 88.4 63.9 69.7 42 Progeny 9/7 1 Mission Seed Solutions MEX4808 3 88.1 9/12 46 1 _ X48D02 * 87.5 9/11 43 P4799RXS 87.4 67.9 40 9/12 Progeny Local Seed Co LS4968XS 38 87.4 9/14 1 **Great Heart Seed** GT-4809X 87.4 9/1 45 39 Local Seed Co LS4966X 87.3 9/16 **Great Heart Seed** GT-4833XS 86.8 9/12 50 2 Local Seed Co AV47W2X 86.7 9/12 39 AgriGold G4995RX 86.7 9/13 43 2 2 AGS GS 48X18 86.6 9/6 42 Asgrow AG47X9 86.6 9/11 39 Armor X49D31 3 86.2 9/13 50 2 86.2 71.5 9/6 41 **REV 4857X** Terral 1 USG 7489XT 85.3 38 9/15 NK Brand 65.1 38 S48-R2X 85.0 9/7 Local Seed Co LS4889XS 84.2 9/12 42 2 Terral **REV 48A26** 83.7 64.3 70.0 9/5 36 Local Seed Co 82.2 39 LS4988X 9/6 Petrus Seed 4916 GT 76.5 66.9 31 9/14 65.2 GoSoy 49G16 75.6 65.1 9/8 35 1 9/7 36 U. of Missouri S14-9051R 75.5 U. of Missouri S14-9051R * 74.4 9/4 35 Petrus Seed 479 GTS 67.4 50.2 9/4 41 Mean 87.8 CV 5.51 LSD (0.05) 7.85 R² 72.15 ¹Variety followed by an asterisk indicates an experimental entry.

Mississippi Agricultural and Forestry Experiment Station

Brand	Variety ¹	Yield			Maturity date	Plant height	Lodging score
	·	2018	2-yr. avg.	3-yr. avg.	•	-	
		bu/A	bu/A	bu/A		in	1-5
Armor	X51D77	92.7	_	_	9/16	48	1
Asgrow	AG52X9	91.2	_	_	9/15	42	1
Local Seed Co	LS5087X	89.5	_	_	9/13	43	2
Delta Grow	DG 52X15 Xtend	88.6	_	_	9/13	42	1
Progeny Ag	P5688RX	87.4	77.0	_	9/19	30	1
Asgrow	AG54X9	86.3	_	_	9/18	30	1
Progeny Ag	P5554RX	86.0	_	_	9/18	30	1
GoSoy	50G17	85.7	_	_	9/14	35	1
Armor	X55D57	85.5	_	_	9/19	33	1
AgriGold	G5288RX	84.6	_	_	9/17	48	2
Terral Seed	REV 52A98	84.6	_	_	9/3	35	1
Terral Seed	REV 56A58	83.9	73.5	_	9/18	39	1
NK Seeds	S50-G9XS	83.7	_	_	9/14	43	2
Dyna-Gro	SX18854XT	83.5	_	_	9/15	27	1
Great Heart Seed	GT-5324X	83.1	67.7	_	9/12	25	1
Progeny Ag	P5018RX	82.9	_	_	9/12	45	1
Terral Seed	REV 55A67	82.5	72.2	_	9/18	34	1
Delta Grow	DG 5170 RR2/STS	82.3	68.1	70.4	9/18	44	2
AgriGold	G5000RX	81.4	66.0	_	9/14	46	1
Terral Seed	REV 51A56	81.2	66.2	69.1	9/5	38	1
Progeny Ag	P5279RXS	81.2	_	_	9/9	45	1
U. of Arkansas	R14-14797 RR	80.9	63.7		9/17	39	1
Croplan	RX 5016 S	79.9	_	_	9/13	41	1
Armor	X52D71	79.6	_	_	9/15	42	1
AGS	GS 51X18S	77.2	_	_	9/13	37	1
Progeny Ag	P5252RX	76.6			9/17	48	1
Dyna-Gro	SX18652XS	76.5	_		9/13	50	1
J. of Missouri	S14-9017R	75.3	_		9/18	32	1
Dyna-Gro	S56XT99	73.9			9/17	37	1
Asgrow	AG55X7	72.6	69.0		9/18	26	1
Armor	X50D13	71.9	_		9/14	46	2
Asgrow	AG53X9	71.1	_		9/12	41	1
Progeny Ag	P5226RYS	70.7	_		9/14	48	2
Dyna-Gro	S52XT08	70.1	_	_	9/14	27	1
Pioneer	P54A75X	66.9		_	9/14	31	<u> </u>
Progeny Ag	P 5016RXS	64.1	57.6	_	9/13	46	1
GoSoy	54G16	62.6	57.0	_	9/13	29	1
Mean		79.9					
CV		8.86					
LSD (0.05)		11.53					
R ²		62.06					
Error DF		72					

Brand Variety		Yield			Plant height	Lodging score	
	2018	2-yr. avg.	3-yr. avg.				
		bu/A	bu/A	bu/A		in	1-5
USG	75B75R	93.4	77.5	76.6	9/22	30	1
Progeny	P5752RY	90.8	73.9	73.0	9/22	32	1
Mean		92.1					
CV		7.1					
LSD		NS					
R ²		58.8					

CLARKSDALE IRRIGATED, DULANEY FARMS

Crop Summary

Plots were planted into a stale seedbed prepared the previous fall. There was adequate moisture at planting for germination and seedling emergence. All plots emerged to a good stand. Herbicide drift during the season caused considerable visual damage to all varieties that did not possess the Xtend trait. As a result of this uncontrollable

damage, all non-Xtend varieties were excluded from the harvest results. Rainfall and furrow irrigation allowed sufficient soil moisture throughout the growing season, and good yields were observed on the varieties not affected by herbicide drift. Harvest was completed without difficulty and in a timely manner.

Planting date ...May 2 Harvest dateOctober 5

Soil typeAlligator clay, Sharkey clay, and Forestdale silty clay

Soil pH7.0
Soil fertilityP=M, K=H
Previous crop ...Soybeans

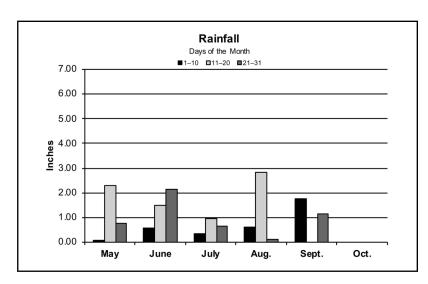
HerbicidePreemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 24 oz/A, and Zidua

@ 2 oz/A on May 2

Postemergence - Select @ 16 oz/A on July 2

IrrigationFurrow irrigated as needed





	Inches
May	3.14
June	4.20
July	1.97
August	3.56
September	2.92
October	0.00
Total	15.79

Table 37. Roundup Ready Maturity Group IV Early Irrigated Soybean Varieties (Dulaney Farms, Coahoma County). Yield² **Brand** Variety1 Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Local Seed Co LS4583X 104.3 38 1 AG46X6 103.5 89.6 39 Asgrow 1 Dyna-Gro SX18845XT * 102.1 38 1 Armor X45D50 * 101.7 40 DG 46X25RR2 Xtend 38 **Delta Grow** 100.8 1 Pioneer P46A57BX 99.8 36 1 Croplan RX 4500 S 99.5 37 1 Progeny P4444RXS 99.1 84.2 32 MorSoy MS 4616 RXT 99.0 86.3 39 G4440RX 38 AgriGold 98.9 69.2 1 Dyna-Gro S45XS66 98.2 90.3 38 40 2 Local Seed Co LS4677X 98.0 Terral **REV 4679X** 96.3 31 1 86.1 Asgrow AG45X8 96.3 35 Pioneer P42A96X 36 96.1 Local Seed Co LS4487XS 95.9 44 1 **NK Seeds** S45-K5X 83.3 30 95.8 1 Mission Seed Solutions A4447NSXR2 95.7 43 1 NK Seeds S45-J3X 95.6 32 85.6 Progeny P4620RXS 95.1 39 AG43X8 37 Asgrow 95.1 1 MS 4426 RXT MorSoy 94.8 40 1 Local Seed Co LS4689X 94.6 48 Dyna-Gro S45XS37 94.4 85.9 33 94.2 39 AG43X7 86.4 1 Asgrow Mission Seed Solutions A4637NSXR2 94.2 42 Mission Seed Solutions A4608X 93.9 44 1 Asgrow AG42X9 93.7 43 1 USG 7447XTS 93.5 38 Great Heart GT-4628X 929 41 2 AgriGold G4605RX 91.9 43 2 79.4 NK Brand S43-V3X 35 90.2 1 AgriGold G4579RX 89.4 39 1 Croplan RX4687S 89.4 43 2 Dyna-Gro S41XS98 35 1 89.2 Armor X46D63 * 88.8 38 Progeny P4750 RYS 88.5 40 1 GT-4685XS 37 **Great Heart** 88.1 Local Seed Co LS4565XS 87.4 39 Mission Seed Solutions 42 A4618X 86.4 1 AGS GS46X17 86.1 75.1 32 Progeny P4255RX 85.6 57.1 38 1 Progeny P4318RX 82.5 39 2 Croplan RX 4217 S 81.9 38 3 42-D27 32 Armor 81.6 1 U. of Missouri S14-15146R * 27 1 P46A16R 19 Pioneer 1 Delta Grow 4670RR2 19 Mean 93.8 5.3 LSD (0.05) 8.1 R² 67.1

¹Variety followed by an asterisk indicates an experimental entry.

²Varieties lacking the Xtend trait were omitted from this location in 2018 due to uncertainty of exposure and timing of dicamba drift.

88

Table 38. Roundup Ready Maturity Group IV Late Irrigated Soybean Varieties (Dulaney Farms, Coahoma County). **Brand** Variety¹ Yield² Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 **REV 4927X** Terral 107.1 90.7 36 **Great Heart Seed** GT-4979X 100.8 41 1 93.2 Progeny P4851RX 100.7 40 2 Mission Seed Solutions MEX4908 99.6 44 2 AgriGold G4995RX 99.5 43 P4955RX 99.3 38 Progeny 1 RX4825 98.9 41 2 Croplan 92.4 Local Seed Co LS4889XS 98.2 40 X48D02 * 40 2 98.1 Armor USG 7496XTS 97.6 86.6 43 Local Seed Co 37 AV47W2X 97.6 1 AV49W3X 97.4 35 2 Local Seed Co Asgrow AG48X9 96.9 49 2 Great Heart Seed GT-4833XS 96.6 39 1 AGS GS 48X18 96.5 39 2 96.2 2 Local Seed Co LS4988X 43 **Great Heart Seed** GT-4721X 96.0 91.4 35 Croplan RX4927 95.6 39 Dyna-Gro S49XT39 95.5 38 Progeny P4816RX 95.0 90.7 36 Dyna-Gro S48XT56 94.9 43 91.3 1 Pioneer P48A60X 93.8 32 **Great Heart Seed** GT-4809X 93.4 37 2 **REV 4857X** 93.2 88.4 48 Terral 1 Progeny P4799RXS 92.8 88.1 32 Asgrow AG49X9 91.5 43 1 7489XT 91.3 39 USG 1 DG 48X45RR2 Xtend Delta Grow 91.2 90.1 33 AG47X9 91.1 39 3 Asgrow MorSoy MS 4846 RXT 90.3 89.9 28 P4944RX 90.3 28 Progeny 1 X49D31 * 90.2 37 Armor Mission Seed Solutions A4828X 89.9 34 2 88.5 Local Seed Co LS4966X 43 2 NK Brand S48-R2X 87.3 81.7 40 Armor X47D22 * 82.4 37 2 Local Seed Co LS4968XS 81.3 40 2 Mean 94.5 CV 9.77 LSD (0.05) NS R^2 34.69 Error DF 72

Variety followed by an asterisk indicates an experimental entry.

2No 3-year average.

Table 39. Roundup Ready Maturity Group V Early Irrigated Soybean Varieties (Dulaney Farms, Coahoma County). **Brand** Variety1 Yield Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. 1-5 bu/A bu/A bu/A in LS5087X 2 Local Seed Co 96.0 49 AgriGold G5000RX 94.5 80.2 43 1 Asgrow AG53X9 94.5 39 1 GS 51X18S 94.4 38 AGS 1 Delta Grow DG 52X15 Xtend 94.4 48 3 93.6 3 **NK Seeds** S50-G9XS 39 Croplan RX 5016 S 92.6 46 1 AG52X9 2 Asgrow 91.9 46 AgriGold G5288RX 91.2 47 2 Dyna-Gro S52XT08 90.1 32 P 5016RXS 77.4 44 90.1 1 Progeny Ag Asgrow AG54X9 89.5 31 Armor X52D71 89.5 43 1 P5554RX 89.3 33 Progeny Ag 1 45 3 Progeny Ag P5018RX 88.5 80.2 25 Asgrow AG55X7 88.3 Armor X50D13 88.1 45 2 Great Heart Seed GT-5324X 87.3 78.4 23 1 Dyna-Gro S56XT99 87.2 34 1 Progeny Ag P5279RXS 85.8 47 2 Pioneer P54A75X 28 1 85.0 Dyna-Gro SX18652XS 84.8 45 1 X55D57 82.5 36 Armor 1 P5688RX 80.2 54.5 33 Progeny Ag Progeny Ag P5252RX 78.1 50 3 Dyna-Gro SX18854XT 77.9 31 1 Armor X51D77 74.8 47 2 Mean 88.2 CV 4.97 LSD (0.05) 7.18 73.23 Error DF 52 ¹Variety followed by an asterisk indicates an experimental entry.

Brand	Variety ¹		Yield	Plant height	Lodging score	
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
USG	75B75R	67.73	66.0	62.6	20	1
Progeny	P5752RY	_	_	_	_	-
Mean		67.73				
CV		_				
.SD		_				
R ²		_				
Error DF		_				

LONGWOOD, STEELE FARMS

Crop Summary

Soybean plots were planted into a stale seedbed. Soil moisture at planting was sufficient for seed to germinate. All plots emerged to a good stand. The combination of rainfall and furrow irrigation supplied sufficient soil moisture throughout the growing season. Harvest was completed in a timely manner without difficulties, and good yields were recorded for this location.

Planting dateMay 1
Harvest dateOctober 4
Soil typeSharkey clay

Soil pH 8.0

Soil fertilityP=H⁺, K=H⁺ Previous crop ...Rice

Herbicide Preemergence — Authority MTZ @ 12 oz/A, Gramoxone @ 32 oz/A, Dual II Magnum

@ 32 oz/A, and Zidua @ 2 oz/A on May 1

Postemergence -

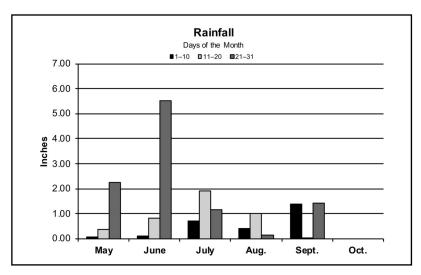
Roundup Ready – Roundup PowerMAX @ 32 oz/A, Prefix @ 24 oz/A, and Firstrate @ 0.3 oz/A on June 6

LibertyLink - Liberty @ 32 oz/A, Prefix @ 24 oz/A, and Firstrate @ 0.3 oz/A on June 6 Roundup Ready and LibertyLink - Section (clethodim) @ 12 oz/A and Firstrate

@ 0.3 oz/A on June 29

IrrigationFurrow irrigated as needed





	Inches
May	2.70
June	
July	
August	
September	
October	
Total	17.34

Brand	Variety ¹		Yield		Plant height	Lodging score	Shattering
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A	in	1-5	%
Progeny	P4444RXS	101.6	93.3	_	26	1	0
Delta Grow	DG 46X25RR2 Xtend	99.8	_	_	26	1	0
J. of Missouri	S14-15146R *	98.1	_	_	23	1	0
Armor	X45D50 *	97.1	_	_	30	1	0
Croplan	RX4687S	97.0	_	_	31	2	0
Asgrow	AG43X8	96.2	_	_	35	2	0
Pioneer	P46A57BX	95.8	_	_	26	1	0
Pioneer	P46A16R	95.5	_	_	27	1	0
Pioneer	P42A96X	94.9		_	25	1	0
Dyna-Gro	S45XS37	94.7	94.9		25	1	0
Local Seed Co	LS4677X	93.9	-		25	<u> </u>	0
AGS	GS46X17	93.0	91.8	_	28	<u>'</u> 1	0
Mission Seed Solutions	A4447NSXR2	91.7	— J1.0		30	<u> </u>	0
AgriGold	G4579RX	91.4		_	29	1	0
MorSoy	MS 4426 RXT	89.8		_	26	2	0
Croplan	RX 4500 S	89.2	<u>_</u>	_	28	1	0
NK Brand	S43-V3X	89.1	91.1		28	1	0
Mission Seed Solutions	A4618X	88.9	-		28	1	0
Asgrow	AG43X7	88.9	90.6		26	<u> </u>	0
Asgrow Asgrow	AG45X8	88.5	93.1		26	1	0
			89.7	<u> </u>	24	1	
NK Seeds	S45-K5X	87.9		_			0
Armor	42-D27 GT-4685XS	87.5			28	2	0
Great Heart		87.3			27	1	0
Local Seed Co	LS4565XS	86.7	<u> </u>		32	1	0
Delta Grow	4670RR2	85.8	87.1	84.7	26	1	0
Mission Seed Solutions	A4637NSXR2	85.7			28	1	0
NK Seeds	S45-J3X	85.0			25	1	0
Asgrow	AG46X6	84.9	91.7		31	1	0
Mission Seed Solutions	A4608X	84.8			31	1	0
Armor	X46D63 *	84.0			33	1	0
Local Seed Co	LS4689X	84.0			37	2	0
Terral	REV 4679X *	83.9			26	1	0
Progeny	P4750 RYS	83.7			29	1	0
Progeny	P4255RX	82.3	84.3		32	1	0
Dyna-Gro	S41XS98	81.0		_	21	1	0
Local Seed Co	LS4583X	81.0		_	26	1	0
Croplan	RX 4217 S	81.0			27	1	0
AgriGold	G4605RX	79.0			35	2	0
Progeny	P4318RX	77.4	_		28	2	10
Dyna-Gro	SX18845XT *	76.4		_	25	1	0
MorSoy	MS 4616 RXT	73.8	85.1		28	1	0
_ocal Seed Co	LS4487XS	73.1	_	_	24	1	0
Asgrow	AG42X9	72.7		_	32	1	0
JSG	7447XTS	71.2	_		32	1	0
Oyna-Gro	S45XS66	67.3	81.9		28	1	0
Great Heart	GT-4628X	65.6	_	_	36	2	0
AgriGold	G4440RX	65.2	77.8	_	28	1	0
Progeny	P4620RXS	62.2	83.0	_	27	1	0
Vlean		85.3					
CV		10.2					
LSD (0.05)		14.1					
\mathbb{R}^2		71.7					
Frror DF		94					

Brand	Variety¹	Yield ²			Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Armor	X49D31 *	112.5	_	_	31	1
Dyna-Gro	S49XT39	107.5	_	_	30	1
Great Heart Seed	GT-4979X	105.8	_	_	26	1
Delta Grow	DG 48X45RR2 Xtend	104.3	103.9	_	28	1
Progeny	P4851RX	103.1	105.2	_	29	1
Mission Seed Solutions	MEX4808 *	102.4			36	2
Local Seed Co	LS4889XS	101.7			30	<u>-</u> 1
Great Heart Seed	GT-4833XS	99.3			29	1
Progeny	P4955RX	98.8			30	1
JSG	7496XTS	98.6	89.4		30	<u>'</u>
Croplan	RX4927	98.1	— US.4		29	<u>;</u> 1
Armor	X48D02 *	96.6			31	1
	P4816RX	95.7	102.4		27	1
Progeny Terral	REV 4857X	95.7 95.2	99.7	_	31	<u> </u>
				_		
Great Heart Seed	GT-4809X	94.7		_	29	1
Asgrow	AG48X9	94.5	100.0	_	28	1
MorSoy	MS 4846 RXT	93.9	103.6		28	1
JSG	7489XT	93.8		_	29	1
Asgrow	AG49X9	93.6			23	1
Croplan	RX4825	93.3	97.2		27	1
Terral	REV 48A26	92.2	89.1		27	1
Local Seed Co	LS4988X	92.1		_	25	1
Dyna-Gro	S48XT56	91.5	98.4	_	25	1
Asgrow	AG47X9	91.2	_	_	26	1
Progeny	P4799RXS	90.2	89.3	_	32	1
Local Seed Co	LS4968XS	89.3	_	_	30	1
GoSoy	49G16	89.1	91.0	_	26	1
Local Seed Co	LS4966X	88.9	_	_	28	1
Terral	REV 47A98	88.2	_	_	26	1
Terral	REV 4927X	88.2	91.6	_	32	1
Progeny	P4757RY	87.6	90.2	_	27	1
Local Seed Co	AV49W3X	87.6	_	_	29	1
Progeny	P4944RX	87.3	_	_	25	1
Great Heart Seed	GT-4721X	86.9	92.0		28	1
Mission Seed Solutions	MEX4908 *	86.5			31	1
Petrus Seed	4916 GT	86.2	90.9		24	1
AGS	GS 48X18	85.7	-		27	<u>'</u>
Local Seed Co	AV47W2X	85.3			30	<u>;</u> 1
J. of Missouri	S14-9051R	85.0			22	1
Pioneer	P48A60X	85.0			26	1
AgriGold	G4995RX	83.1			27	1
	X47D22 *			-		· · · · · · · · · · · · · · · · · · ·
Armor		82.7	— 07.0		25	1
Delta Grow	DG 4790RR2	81.6	87.8	_	25	1
NK Brand	S48-R2X	76.1	83.2	_	28	1
J. of Missouri	S14-9051R *	66.5	<u> </u>	_	20	11
Petrus Seed	479 GTS	61.3	69.7	-	24	1
Mean		91.3				
CV		8.06				
LSD (0.05)		11.93				
R ²		78.15				
Error DF		90				

 $^{\text{1}}\text{Variety}$ followed by an asterisk indicates an experimental entry. $^{\text{2}}\text{No}$ 3-year average.

Brand	Variety ¹		Yield		Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Armor	X51D77	116.9	_	_	38	1
Delta Grow	DG 5170 RR2/STS	116.9	103.6	90.2	28	1
Armor	X50D13	116.8	_	_	33	1
Progeny Ag	P5252RX	114.5	_	_	35	1
GoSoy	50G17	113.6	_	_	26	1
Local Seed Co	LS5087X	113.2	_	_	28	1
Progeny Ag	P5226RYS	111.4	_	_	32	1
Armor	X55D57	109.3			27	1
Progeny Ag	P5018RX	108.9	_	_	32	1
Dyna-Gro	SX18652XS	107.8			37	1
Progeny Ag	P5554RX	107.7		_	27	<u>'</u> 1
Progeny Ag	P5688RX	106.2	94.7	_	27	<u>'</u> 1
Terral Seed	REV 55A67	104.4	97.5		21	<u>'</u> 1
Delta Grow	DG 52X15 Xtend	103.5	-		32	1
Progeny Ag	P5279RXS	103.1			32	1
Dyna-Gro	S56XT99	103.1	_		23	1
Asgrow	AG52X9	103.1	_	_	32	1
erral Seed	REV 52A98	102.2	_	_	21	1
	S52XT08	101.2		-		<u> </u> 1
Dyna-Gro		100.3			21	•
Terral Seed	REV 56A58		88.1		25	1
AGS	GS 51X18S	99.4			31	1
Armor	X52D71	99.3	_		31	11
AgriGold	G5000RX	98.4	90.2		31	11
Great Heart Seed	GT-5324X	97.8	92.4	_	24	1
J. of Arkansas	R14-14797 RR	97.6	89.1		22	1
Pioneer	P54A75X	96.8	_		19	1
AgriGold	G5288RX	96.3			29	1
Progeny Ag	P 5016RXS	95.6	78.4		30	1
Asgrow	AG53X9	95.2	_	_	28	1
NK Seeds	S50-G9XS	95.1	_	_	29	1
Asgrow	AG54X9	94.0	_	_	23	1
Terral Seed	REV 51A56	93.0	87.0	79.9	29	1
Croplan	RX 5016 S	92.1	_	_	28	1
GoSoy	54G16	89.1	81.3	_	23	1
Asgrow	AG55X7	86.7	94.5	_	17	1
J. of Missouri	S14-9017R	83.2			20	1
Oyna-Gro	SX18854XT	82.0	_	_	18	1
Mean		101.5				
CV		7.68				
.SD (0.05)		12.68				
3 ²		70.91				
Error DF		70.51				

Brand	Variety		Yield			Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
USG	75B75R	110.3	98.2	84.3	24	1
Progeny	P5752RY	92.6	90.6	81.2	22	1
Mean		101.5				
CV		3.22				
LSD		11.495				
R ²		97.26				
Error DF		2				

Brand	Variety ¹		Yield		Plant height	Lodging score	Shattering
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A	in	1-5	%
Credenz	CZ 4938 LL	110.5	93.5	_	33	1	_
Credenz	CZ 4649 LL	107.6	_	_	38	1	_
Dyna-Gro	S49LL34	106.7	98.0	88.0	32	1	_
Credenz	CZ 4748 LL	105.5	91.2	79.6	26	1	_
Credenz	CZ 4820 LL	104.6	92.2	_	29	1	_
Credenz	CZ 4918 LL	97.1	90.3	_	26	1	_
Delta Grow	DG 4977LL/STS	95.9	82.2	75.2	36	2	_
Terral	REV 46L99 *	91.8	_	_	29	1	_
Dyna-Gro	S45LL97	89.8	86.8	_	29	1	_
Terral	REV 49L88 *	87.9	86.9	_	26	1	_
Pioneer	P47A76L	87.7	_	_	25	1	_
Credenz	CZ 4540 LL	86.7	83.0	77.6	26	1	_
Credenz	CZ 4548 LL	85.4	82.0	_	25	1	_
Credenz	CZ 4222 LL	82.6	82.2	71.7	26	1	_
Terral	REV 47L38	82.1	_	_	26	1	_
Delta Grow	DG 4582 LL/STS	78.7	_	_	27	1	_
Credenz	CZ 4308 LL	74.0	78.8	_	23	1	10
Pioneer	P44A08L	68.8	_	_	28	1	_
Credenz	CZ 3601 LL	58.3	_	_	23	1	10
Credenz	CZ 3841 LL	57.2	65.1		24	1	10
Credenz	CZ 4105 LL	56.8	64.6	58.7	24	1	10
Mean		86.5					
CV		7.5					
LSD (0.05)		10.7					
R ²		91.3					
Error DF		40					

Brand	Variety		Yield			Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Credenz	CZ 5150 LL	107.1	88.0	81.6	35	1
Credenz	CZ 5242 LL	96.7	85.8	80.8	38	1
Credenz	CZ 5225 LL	95.6	_	_	22	1
Credenz	CZ 5328 LL	91.7	_	_	28	1
Credenz	CZ 5147 LL	89.6	82.7	71.7	18	1
Credenz	CZ 5445 LL	86.8		_	25	1
Mean		94.6				
CV		14.96				
LSD (0.05)		NS				
R ²		31.55				
Error DF		10				

OLIVE BRANCH, TODD WILLIAMS FARM

Crop Summary

Plots were planted into a well-prepared seedbed that had been tilled just before planting. Soil moisture was optimum at the time of planting, and all plots quickly germinated and emerged to a good stand. This location experienced a dicamba drift event during the middle of the growing season. As a result of this chemical drift, all

varieties that lacked the Xtend trait were excluded from the final results. Timely rains during the growing season allowed for the remaining plots to show excellent yield potential. Harvest was completed in a timely manner, and good yields were observed.

Planting dateMay 10
Harvest dateOctober 12
Soil typeCollins silt loam

Soil pH5.7 Soil fertilityP=H, K=H Previous crop ...Corn

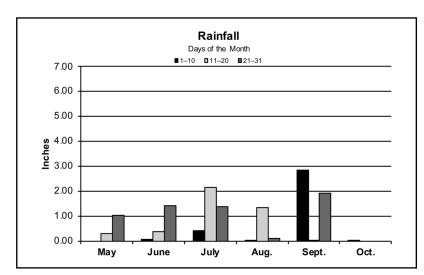
FertilizerPreplant - 0-30-90-15S-1B

Herbicide Preemergence — Gramoxone @ 32 oz/A, Zidua @ 2 oz/A, Dual II Magnum @ 24 oz/A,

and Authority MTZ @ 12 oz/A on May 10

Postemergence - Glyphosate @ 32 oz/A, Dual @ 16 oz/A, and Fomesafen @ 16 oz/A





	Inches
May	1.37
June	1.87
July	3.94
August	1.48
September	4.79
October	0.01
Total	13.46

Table 47. Roundup Ready Maturity Group IV Early Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch). Yield² **Brand** Variety¹ **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Dyna-Gro S41XS98 103.0 9/11 40 2 Local Seed Co 102.3 9/17 48 LS4565XS 1 Asgrow AG42X9 97.5 9/11 47 1 93.6 Asgrow AG45X8 97.4 9/11 37 Dyna-Gro S45XS37 94.8 90.9 9/17 44 1 Local Seed Co LS4677X 94.7 9/11 43 2 47 Local Seed Co LS4487XS 93.3 9/17 Pioneer P46A57BX 92.7 9/11 41 NK Seeds S45-K5X 90.7 87.0 9/11 35 1 NK Brand S43-V3X 90.3 9/17 43 81.9 Mission Seed Solutions A4618X 90.1 9/17 39 Local Seed Co LS4583X 89.6 9/17 42 2 Croplan RX4687S 89.0 9/17 41 43 Croplan RX 4500 S 89.0 9/17 Asgrow AG46X6 88.9 87.9 9/17 41 2 Dyna-Gro SX18845XT * 88.5 9/17 39 9/11 40 2 X45D50 * 86.5 Armor 42-D27 40 Armor 86.2 9/11 84.9 Asgrow AG43X7 85.9 9/11 41 2 NK Seeds S45-J3X 85.8 9/11 36 AG43X8 85.4 9/11 40 2 Asgrow P42A96X 38 Pioneer 85.3 9/11 Mission Seed Solutions A4447NSXR2 84.1 9/17 43 Dyna-Gro S45XS66 84.0 81.6 9/17 40 1 Local Seed Co LS4689X 83.7 9/17 49 1 AGS GS46X17 83.4 78.6 9/17 36 2 Progeny P4255RX 39 83.1 83.8 9/17 1 Armor X46D63 * 82.9 9/17 43 MS 4426 RXT 2 82.6 35 MorSoy 9/11 Progeny P4444RXS 82.5 84.7 9/11 40 1 Terral **REV 4679X *** 82.3 9/17 39 2 7447XTS 82.2 9/17 43 2 USG Delta Grow DG 46X25RR2 Xtend 40 82.0 9/17 AgriGold G4579RX 81.6 9/17 41 AgriGold G4605RX 81.1 9/11 48 1 Mission Seed Solutions A4637NSXR2 80.9 9/17 44 1 Mission Seed Solutions 50 A4608X 79.9 9/17 P4620RXS 79.8 82.6 9/17 42 Progeny MorSoy MS 4616 RXT 79.0 85.2 9/17 36 1 Great Heart GT-4628X 78.5 9/11 49 Progeny P4750 RYS 78.5 9/11 40 78.1 85.4 9/17 42 2 AgriGold G4440RX **Great Heart** GT-4685XS 74.7 9/17 41 P4318RX 71.1 42 Progeny 9/11 Croplan RX 4217 S 70.8 9/11 42 2 U. of Missouri S14-15146R * 9/11 36 P46A16R 9/17 40 2 Pioneer Delta Grow 4670RR2 9/17 38 85.6 Mean CV 11.9 LSD (0.05) NS 72.7

¹Variety followed by an asterisk indicates an experimental entry.

Error DF

²Varieties lacking the Xtend trait were omitted from this location in 2018 due to uncertainty of exposure and timing of dicamba drift.

88

Table 48. Roundup Ready Maturity Group IV Late Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch). Yield² **Brand** Variety¹ **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 RX4825 Croplan 100.6 97.2 9/21 41 2 X48D02 98.7 9/21 47 Armor MS 4846 RXT 97.6 98.9 9/21 41 MorSoy 1 **REV 4927X** 97.5 Terral 93.1 9/17 43 P48A60X 96.2 9/17 42 Pioneer 1 USG 7496XTS 95.9 91.9 9/21 40 1 NK Brand S48-R2X 94.5 97.9 9/21 49 1 Croplan RX4927 93.8 9/21 45 3 Asgrow AG48X9 93.1 9/17 43 GS 48X18 93.1 9/17 43 AGS Local Seed Co LS4968XS 92.8 9/21 45 AgriGold G4995RX 92.3 9/21 46 1 Progeny P4816RX 91.8 96.5 9/17 40 Armor X47D22 * 91.7 9/17 39 Progeny P4851RX 90.7 94.6 9/17 46 4 Dyna-Gro S49XT39 90.5 9/17 44 2 9/21 2 Local Seed Co LS4889XS 90.2 50 X49D31 * 90.1 9/21 2 Armor 45 USG 7489XT 90.0 9/17 38 89.3 Dyna-Gro S48XT56 89.9 38 9/21 1 Asgrow AG47X9 89.5 9/17 46 1 AG49X9 89.3 9/21 40 Asgrow 1 Mission Seed Solutions MEX4808 3 88.3 9/21 47 2 Local Seed Co LS4988X 87.9 9/21 43 2 Local Seed Co LS4966X 87.8 9/17 41 1 Progeny P4955RX 87.5 9/17 45 2 DG 48X45RR2 Xtend 91.5 Delta Grow 87.3 9/21 40 1 Local Seed Co AV49W3X 87.2 9/17 49 3 GT-4809X **Great Heart Seed** 86.1 9/17 45 2 **Great Heart Seed** GT-4979X 84.2 9/21 43 1 Progeny P4799RXS 83.0 92.2 9/17 47 1 Local Seed Co AV47W2X 82.9 9/17 45 1 GT-4833XS 82.8 9/21 49 **Great Heart Seed** 1 MEX4908 * Mission Seed Solutions 81.7 9/21 47 2 Great Heart Seed GT-4721X 80.8 88.3 9/17 45 4 Terral **REV 4857X** 79.2 86.2 9/21 40 2 P4944RX 9/17 42 77.5 Progeny Mean 89.6 CV 9.5 LSD (0.05) NS R^2 79.6 Error DF 72

Variety followed by an asterisk indicates an experimental entry.

2No 3-year average.

Brand	Variety ¹	Yield ²			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Local Seed Co	LS5087X	102.2	_	_	9/25	47	1
Progeny Ag	P 5016RXS	99.6	91.9	_	10/1	47	1
Progeny Ag	P5688RX	97.1	95.6	_	10/5	35	1
Dyna-Gro	S56XT99	95.1	_	_	9/25	36	1
Progeny Ag	P5252RX	95.0	_	_	10/1	45	1
Armor	X51D77	95.0	_	_	9/25	45	1
AgriGold	G5000RX	94.7	86.7	_	9/25	41	1
Progeny Ag	P5279RXS	94.0	_	_	9/21	48	2
Asgrow	AG52X9	93.3	_	_	9/21	45	1
Armor	X55D57	91.7	_	_	10/1	37	1
Dyna-Gro	S52XT08	91.7	_	_	9/21	33	1
Delta Grow	DG 52X15 Xtend	90.8	_		9/21	45	1
Armor	X52D71	90.3	_	_	10/1	46	1
Progeny Ag	P5018RX	90.1	_	_	9/21	46	1
Croplan	RX 5016 S	89.9	_	_	9/25	44	1
Dyna-Gro	SX18652XS	89.1	_	_	9/21	45	1
AgriGold	G5288RX	88.4	_	_	9/25	47	1
Asgrow	AG55X7	87.7	87.2	_	9/25	29	1
Asgrow	AG53X9	87.4	_	_	9/21	35	1
Armor	X50D13	87.2	_	_	9/21	43	1
Dyna-Gro	SX18854XT	87.1	_	_	10/1	31	1
Progeny Ag	P5554RX	86.8	_	_	10/5	38	1
Asgrow	AG54X9	86.5	_	_	9/25	33	1
Great Heart Seed	GT-5324X	86.0	82.3	_	9/21	30	1
AGS	GS 51X18S	84.7	_	_	9/21	42	1
NK Seeds	S50-G9XS	84.6	_	_	9/21	44	3
Pioneer	P54A75X	77.0	_	_	10/1	29	1
Mean		90.5					
CV		12.8					
LSD (0.05)		NS					
R^2		28.5					
Error DF		52					

²No 3-year average.

Brand Variety	Variety	Yield¹			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
USG	75B75R	97.6	90.4	94.7	10/5	36	1
Progeny	P5752RY	_	_	_	10/5	37	1
Mean		97.6					
CV		_					
LSD		_					
R^2		_					
Error DF		_					

RAYMOND, BROWN LOAM BRANCH

Crop Summary

Soybean plots were planted into a stale seedbed that had been prepared the previous fall. Soil moisture at planting was adequate for germination. All plots emerged to a good stand. Timely rainfall occurred at critical points during the growing season. Harvest was completed in a timely manner, and good yields were observed at this location.

Planting dateApril 20

Harvest dateIVE and IVL Roundup Ready, and IV LibertyLink on September 19; VE and VL

Roundup Ready and V LibertyLink on October 3

Soil typeLoring silt loam

Soil pH5.9

HerbicidePreemergence — Authority MTZ @ 12 oz/A, Gramoxone @ 32 oz/A, Dual II

Magnum @ 24 oz/A, and Zidua @ 2 oz/A on April 20

Postemergence — Section (clethodim) @ 12 oz/A and Firstrate @ 0.6 oz/A

on May 30

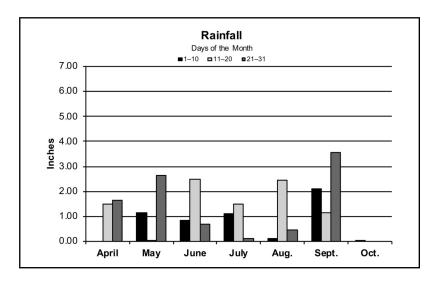
Roundup Ready — Roundup PowerMAX @ 32 oz/A and Prefix @ 24 oz/A

on June 20

LibertyLink — Liberty @ 32 oz/A and Prefix @ 24 oz/A on June 20

Fungicide/Insecticide . . . Acephate @ 0.75 lb/A and Bifenthrin @ 6.4 oz/A





	Inches
April	3.15
May	3.81
June	4.00
July	2.73
August	3.03
September	6.82
October	0.05
Total	.23.59

Table 51. Roundup Ready Maturity Group IV Early Nonirrigated Soybean Varieties (MAFES Brown Loam Branch, Raymond). Yield **Brand** Variety¹ **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 DG 46X25RR2 Xtend Delta Grow 101.2 9/4 40 1 MS 4616 RXT 94.9 95.2 9/3 32 MorSoy 1 Mission Seed Solutions A4618X 92.6 9/12 37 Local Seed Co LS4583X 89.5 9/4 30 P4620RXS 87.7 92.9 9/4 36 Progeny 1 Local Seed Co LS4565XS 85.3 35 9/4 Armor X45D50 * 83.7 9/4 38 1 Mission Seed Solutions A4608X 82.5 9/4 46 Asgrow AG43X7 82.0 80.3 9/4 37 Local Seed Co 81.9 42 LS4689X 9/4 1 AgriGold G4579RX 81.8 9/4 39 NK Seeds 9/4 S45-J3X 81.7 30 1 AgriGold G4605RX 81.6 9/4 37 85.9 Dyna-Gro S45XS37 81.4 9/4 37 Local Seed Co LS4487XS 81.4 9/4 38 1 Local Seed Co LS4677X 80.9 9/4 36 AgriGold G4440RX 80.6 9/4 40 79.7 1 Croplan RX 4500 S 79.2 9/4 34 Great Heart GT-4628X 78.9 9/4 38 78.8 P4750 RYS 9/12 37 Progeny P46A57BX 78.6 32 Pioneer 9/4 NK Seeds S45-K5X 78.5 86.5 9/4 33 1 Croplan RX4687S 78.4 9/4 40 **Delta Grow** 4670RR2 78.1 82.2 9/4 43 77.1 80.7 31 P4444RXS 9/4 Progeny 1 Mission Seed Solutions A4447NSXR2 76.6 9/4 30 Pioneer P46A16R 76.1 9/4 39 MorSoy MS 4426 RXT 75.9 9/4 34 79.5 Asgrow AG45X8 75.6 9/4 32 SX18845XT * 75.2 9/4 34 Dyna-Gro Pioneer P42A96X 75.2 9/4 30 AG46X6 75.0 85.8 9/4 29 Asgrow 1 Asgrow AG42X9 73.1 9/4 40 Progeny P4255RX 72.0 75.4 9/4 35 REV 4679X * 70.4 9/4 34 Terral 1 Mission Seed Solutions A4637NSXR2 70.2 35 9/4 Armor X46D63 * 70.0 9/12 37 1 AGS GS46X17 69.6 9/4 35 79.5 Asgrow AG43X8 69.6 9/4 36 7447XTS 69.6 9/4 33 USG 1 Dyna-Gro S45XS66 68.3 84.0 9/4 39 U. of Missouri S14-15146R * 68.1 9/4 36 1 Croplan RX 4217 S 65.8 9/4 39 9/4 Armor 42-D27 62.3 37 P4318RX 60.4 9/4 41 Progeny 1 Great Heart GT-4685XS 59.2 9/12 40 S43-V3X 62.5 NK Brand 58.7 9/4 36 1 33 Dyna-Gro S41XS98 55.0 9/4 Mean 76.4 13.08 LSD (0.05) 16.21 R² 59.83 Error DF 94 Variety followed by an asterisk indicates an experimental entry.

Table 52. Roundup Ready Maturity Group IV Late Nonirrigated Soybean Varieties (MAFES Brown Loam Branch, Raymond). **Brand** Yield² **Maturity date** Lodging score Variety1 Plant height 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Local Seed Co LS4889XS 97.3 9/4 33 Mission Seed Solutions A4950X 91.7 9/4 28 1 Armor X48D02 * 86.4 9/12 42 1 USG 7496XTS 84.4 85.8 9/12 38 1 Local Seed Co LS4988X 84.3 9/4 35 83.5 Local Seed Co 9/4 35 AV49W3X 1 Local Seed Co LS4968XS 9/12 30 81.4 1 Armor X49D31 * 80.1 9/4 34 1 AgriGold G4995RX 79.9 9/4 37 1 Asgrow AG49X9 79.8 9/4 32 79.1 9/4 RX4927 28 Croplan 49G16 87.7 9/12 31 GoSoy 78.9 1 **Great Heart Seed** GT-4809X 78.1 9/4 36 1 9/4 Asgrow AG48X9 77.8 28 1 Great Heart Seed GT-4833XS 77.5 9/12 41 36 P4944RX 77.0 9/4 Progeny P4955RX 76.8 9/4 37 Progeny Pioneer P48A60X 76.6 9/4 37 1 Local Seed Co AV47W2X 76.5 9/4 43 Delta Grow DG 4790RR2 76.5 93.3 9/12 35 75.6 **REV 4927X** 9/4 35 Terral 91.5 1 Great Heart Seed GT-4979X 9/4 35 75.3 S14-9051R 75.1 9/12 36 U. of Missouri 1 Progeny P4757RY 74.6 89.1 9/12 37 1 Dyna-Gro S49XT39 74.3 9/14 35 73.5 P4851RX 96.1 9/14 34 1 Progeny P4799RXS 72.8 9/4 38 Progeny 88.2 1 Mission Seed Solutions A4828X 72.2 9/4 32 1 Terral **REV 47A98** 71.6 9/12 31 MorSoy MS 4846 RXT 71.2 91.6 9/14 34 Great Heart Seed GT-4721X 70.8 84 9 9/12 37 **REV 48A26** 70.5 9/12 31 Terral 85.6 DG 48X45RR2 Xtend **Delta Grow** 70.0 86.0 9/12 30 1 Local Seed Co LS4966X 68.2 9/4 31 Terral **REV 4857X** 68.2 89.8 9/4 34 31 GS 48X18 68.0 9/4 AGS 1 RX4825 67.2 89.2 9/14 28 Croplan X47D22 3 66.0 9/4 Armor 31 1 Petrus Seed 4916 GT 64.0 83.5 9/12 26 1 NK Brand S48-R2X 64.0 79.0 9/4 36 P4816RX 9/14 27 63.3 Progeny 83.8 AG47X9 63.2 9/14 33 Asgrow 1 S14-9051R * U. of Missouri 60.49/12 29 1 70.5 9/4 38

1

27

28

9/14

9/12

Variety followed by an asterisk indicates an experimental entry.

479 GTS

7489XT

S48XT56

59.1

58.4

53.6

73.8

14.18

16.98

58.45

73.4

2No 3-year average.

Petrus Seed

Dyna-Gro

LSD (0.05)

USG

Mean

CV

R²

Table 53. Roundup Ready Maturity Group V Early Nonirrigated Soybean Varieties (MAFES Brown Loam Branch, Raymond). **Brand** Variety¹ Yield² Plant height Lodging score 2018 2-yr. avg. 3-yr. avg. in 1-5 bu/A bu/A bu/A Armor X51D77 107.4 38 Progeny Ag P5252RX 101.9 39 SX18652XS Dyna-Gro 93.9 38 1 36 Progeny Ag P5226RYS 87.3 2 R14-14797 RR U. of Arkansas 85.5 92.2 28 34 AG52X9 84.4 Asgrow 1 Armor X55D57 83.0 19 2 X50D13 38 Armor 82.8 Delta Grow DG 5170 RR2/STS 82.7 84.2 36 1 Progeny Ag P5279RXS 82.5 41 X52D71 35 82.0 Armor 50G17 81.9 19 GoSoy Local Seed Co LS5087X 80.5 37 38 AGS GS 51X18S 76.6 Terral Seed **REV 56A58** 75.8 89.0 17 Delta Grow DG 52X15 Xtend 74.5 31 Terral Seed **REV 52A98** 73.7 28 Dyna-Gro SX18854XT 72.6 16 1 Progeny Ag P 5016RXS 70.9 81.1 32 Dyna-Gro S56XT99 70.6 21 70.6 34 G5288RX AgriGold 1 Progeny Ag P5688RX 69.1 77.5 18 Terral Seed **REV 51A56** 68.4 83.3 32 1 30 Asgrow AG53X9 65.9 1 Progeny Ag P5554RX 65.7 18 15 AG54X9 64.4 Asgrow Progeny Ag P5018RX 63.4 30 **Great Heart Seed** GT-5324X 62.0 70.8 20 21 Dyna-Gro S52XT08 62.0 Terral Seed **REV 55A67** 61.8 69.1 21 AgriGold G5000RX 59.6 74.7 36 NK Seeds S50-G9XS 58.5 31 Croplan RX 5016 S 58.1 33 1 54G16 19 GoSoy 56.2 62.7 S14-9017R U. of Missouri 54.8 27 66.7 16 AG55X7 49.6 Asgrow 1 Pioneer P54A75X 44.7 17 72.6 Mean 14.2

16.8 76.0

72

Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

LSD (0.05)

Error DF

Table 54. Roundup Ready Maturity Group V Late Nonirrigated Soybean Varieties (MAFES Brown Loam Branch, Raymond). **Brand** Variety Yield1 Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A in 1-5 bu/A USG 75B75R 96.5 89.8 21 Progeny P5752RY 72.3 80.5 23 1 Mean 84.4 CV 13.92 LSD NS R^2 79.97 Error DF 2 ¹No 3-year average.

Brand	Variety ¹	Variety ¹ Yield ²			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Dyna-Gro	S49LL34	107.3	110.5	_	9/12	39	1
Credenz	CZ 4938 LL	95.9	92.7	_	9/4	37	1
Credenz	CZ 4649 LL	95.5	_	_	9/4	36	1
Credenz	CZ 4820 LL	87.8	83.6	_	9/4	32	1
Credenz	CZ 4748 LL	86.7	90.1	_	9/4	34	1
Delta Grow	DG 4977LL/STS	85.1	92.5	_	9/4	41	1
Terral	REV 49L88 *	83.0	91.8	_	9/4	33	1
Credenz	CZ 4918 LL	79.7	87.0	_	9/4	32	1
Pioneer	P47A76L	79.7	_	_	9/4	30	1
Terral	REV 47L38	78.3	_	_	9/4	32	1
Credenz	CZ 4548 LL	74.8	88.3	_	9/4	39	1
Delta Grow	DG 4582 LL/STS	72.0	_	_	9/4	35	1
Dyna-Gro	S45LL97	71.3	73.5	_	9/4	38	1
Terral	REV 46L99 *	67.6	_	_	9/4	33	1
Credenz	CZ 4540 LL	66.1	80.0	_	9/4	37	1
Pioneer	P44A08L	65.0	_	_	9/12	30	1
Credenz	CZ 4308 LL	61.5	76.3	_	9/12	34	1
Credenz	CZ 4105 LL	53.5	59.8	_	9/4	28	1
Credenz	CZ 4222 LL	51.4	65.7	_	9/12	30	1
Credenz	CZ 3601 LL	48.1	_	_	9/4	29	1
Credenz	CZ 3841 LL	45.8	56.2	_	9/1	24	1
Mean		74.1					
CV		12.8					
LSD (0.05)		15.7					
R ²		8.3					
Error DF		40					

Brand	Variety	Yield ¹			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Credenz	CZ 5242 LL	103.9	90.3	_	9/6	46	1
Credenz	CZ 5225 LL	92.8	_	_	9/6	21	1
Credenz	CZ 5147 LL	83.2	74.3	_	9/4	22	1
Credenz	CZ 5445 LL	81.4	_	_	9/12	20	1
Credenz	CZ 5150 LL	77.6	70.0	_	9/8	36	1
Credenz	CZ 5328 LL	66.4			9/11	21	1
Mean		84.2					
CV		16.2					
LSD (0.05)		NS					
R ²		60.4					
Error DF		10					

STONEVILLE (clay) IRR. AND NONIRRIGATED, DELTA BRANCH

Crop Summary

Plots were planted into a stale seedbed prepared the previous fall. There was sufficient soil moisture at planting for quick germination and seedling emergence. All plots came up to a good stand. Timely rainfall combined

with furrow irrigation supplied sufficient soil moisture throughout the growing season. Harvest was completed in a timely manner, and good yields were observed at the location.

Planting date ... Nonirrigated, May 1; Irrigated, May 8

Harvest date IV Early Nonirrigated Roundup Ready on September 21; Nonirrigated IV Late Roundup Ready on October 8; IV Early and IV Late Roundup Ready, IV LibertyLink, V Early and V Late Roundup Ready, IV Conventional, V LibertyLink, and V Conventional on October 8

Soil typeSharkey clay

Soil pH6.9

Soil fertilityP=H, K=H

Previous crop . . . Corn (Nonirrigated), Soybean (Irrigated) Irrigation June 8, July 5, July 16, July 25, August 7

HerbicidePreemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 24 oz/A, Gramoxone

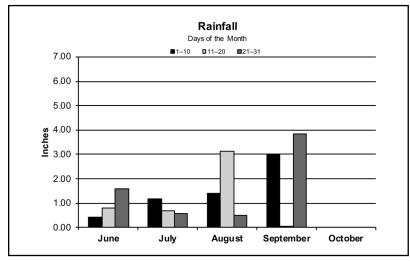
@ 32 oz/A, and Zidua @ 2 oz/A on May 1 (not irrigated) and May 8 (irrigated)

Postemergence - Roundup Ready - Roundup PowerMAX @ 32 oz/A, Prefix @ 24 oz/A,

and Resource @ 12 oz/A on June 28 (irrigated)

LibertyLink and Conventional — Section (clethodim) @ 12 oz/A, Prefix @ 24 oz/A, and Resource @ 12 oz/A on June 28





	Inches
May	
June	2.79
July	2.43
August	5.01
September	6.86
October	0.00
Total	18.70

Table 57. Roundup Ready Maturity Group IV Early Nonirrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety¹		Yield		Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Mission Seed Solutions	A4447NSXR2	71.1	_	_	35	1
Croplan	RX4687S	68.0	_	_	29	1
Delta Grow	DG 46X25RR2 Xtend	65.5	_	_	33	1
Pioneer	P46A16R	64.4			29	1
Dyna-Gro	S45XS66	64.1	76.6	74.4	32	<u>.</u>
Local Seed Co	LS4583X	63.2			32	1
Local Seed Co	LS4487XS	62.2			30	<u>'</u> 1
AgriGold	G4605RX	61.9			39	<u>'</u> 1
	P4750 RYS	61.7			31	1
Progeny Armor	X45D50 *	60.0		_	28	1
				_		1
Mission Seed Solutions	A4608X	59.8			31	· · · · · · · · · · · · · · · · · · ·
Progeny	P4620RXS	59.3	74.9	69.7	33	1
Asgrow	AG46X6	59.1	77.4	76.9	32	1
Great Heart	GT-4628X	58.8			39	1
Local Seed Co	LS4565XS	58.6		_	33	1
JSG	7447XTS	58.4	_	_	29	1
MorSoy	MS 4616 RXT	58.0	73.0	_	27	1
rmor	X46D63 *	58.0	_	_	29	1
AgriGold	G4579RX	57.1	_	_	29	1
Delta Grow	4670RR2	56.9	74.4	71.4	26	1
Asgrow	AG43X8	56.4	_	_	31	1
Mission Seed Solutions	A4618X	56.0	_	_	29	1
ocal Seed Co	LS4677X	55.9	_	_	31	1
Terral	REV 4679X *	55.7			26	1
Great Heart	GT-4685XS	54.9			33	<u>;</u>
Pioneer	P46A57BX	54.7			32	<u>:</u>
IK Seeds	S45-K5X	54.5	67.3		23	<u>'</u> 1
MorSoy	MS 4426 RXT	54.3	07.3	_	28	1
	AG42X9	53.7		_	32	<u>'</u> 1
Asgrow				_		·
Progeny	P4444RXS	53.4	70.7		30	11
Dyna-Gro	SX18845XT *	53.1		_	25	11
Local Seed Co	LS4689X	53.0			36	1
Croplan	RX 4500 S	52.8			28	1
Asgrow	AG43X7	52.3	71.5		31	1
Mission Seed Solutions	A4637NSXR2	52.2	_	_	28	1
IK Seeds	S45-J3X	50.6	_	_	25	1
J. of Missouri	S14-15146R *	50.5		_	26	1
IGS	GS46X17	50.1	71.4	_	23	1
AgriGold	G4440RX	50.0	68.2	_	32	1
rioneer	P42A96X	48.3	_	_	26	1
Oyna-Gro	S45XS37	46.2	67.8	_	26	1
Progeny	P4255RX	45.6	63.7	_	23	1
IK Brand	S43-V3X	44.4	62.6		28	1
Progeny	P4318RX	39.8	— OZ.0	_	31	<u>;</u> 1
Croplan	RX 4217 S	39.2			28	<u>'</u> 1
Dyna-Gro	S41XS98	39.2	_	_	25	1
rmor	42-D27	39.1			22	1
				_		
sgrow	AG45X8	38.2	59.8	_	27	1
Mean		54.6				
CV		11.5				
SD (0.05)		10.2				
R ²		69.7				
rror DF		94				

Table 58. Roundup Ready Maturity Group IV Late Nonirrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, clay).

Brand	Variety¹		Yield	Plant height	Lodging score	
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
GoSoy	49G16	83.9	85.8	79.7	28	1
MorSoy	MS 4846 RXT	79.6	88.2	_	30	1
Local Seed Co	LS4889XS	78.0	_	_	34	2
Local Seed Co	LS4966X	77.5	_	_	28	1
Armor	X48D02 *	77.1	_	_	36	1
Mission Seed Solutions	A4950X	76.4	_	_	36	1
USG	7489XT	76.2	_	_	29	1
Croplan	RX4825	76.0	82.2	_	27	1
Armor	X49D31 *	75.7	_	_	35	1
Progeny	P4816RX	75.5	82.6	75.2	30	1
Delta Grow	DG 48X45RR2 Xtend	75.4	80.0	73.4	31	1
Petrus Seed	4916 GT	75.3	78.4	_	26	1
Mission Seed Solutions	A4828X	75.3	_	_	40	2
Great Heart Seed	GT-4979X	74.6	_	_	35	1
Great Heart Seed	GT-4833XS	72.7	_	_	39	2
USG	7496XTS	72.5	69.1	66.9	33	1
Local Seed Co	LS4968XS	72.2	-	_	29	1
Progeny	P4955RX	70.7	_	_	33	1
Dyna-Gro	S49XT39	70.2	_	_	33	1
AgriGold	G4995RX	70.0	_		30	1
Croplan	RX4927	69.9	_		35	2
Dyna-Gro	S48XT56	69.7	82.9	75.6	28	<u>-</u> 1
Asgrow	AG48X9	69.2	— —		32	<u> </u>
Progeny	P4799RXS	66.7	75.2	71.0	32	<u>.</u>
Local Seed Co	AV49W3X	66.6			32	<u> </u>
Delta Grow	DG 4790RR2	66.3	71.6	71.6	32	1
U. of Missouri	S14-9051R	66.1			27	<u>.</u>
Local Seed Co	LS4988X	65.7			26	<u>.</u> 1
Asgrow	AG49X9	64.9			25	<u>'</u>
Pioneer	P48A60X	64.7			30	<u>'</u> 1
Terral	REV 4927X	64.5	81.7		31	<u>'</u> 1
Great Heart Seed	GT-4721X	64.3	81.9		31	2
Terral	REV 48A26	64.1	79.4	75.4	30	1
Great Heart Seed	GT-4809X	62.8	— 75.4 —	7 3.4	33	<u>'</u> 1
Armor	X47D22 *	61.6			29	<u> </u>
Local Seed Co	AV47W2X	61.3			36	1
AGS	GS 48X18	61.2		_	28	<u></u>
	P4944RX	60.9		_	32	1
Progeny Terral	REV 47A98	60.9			28	1
	P4851RX	60.7	74.2		33	1
Progeny	P4757RY	59.3	70.0	60.0	31	
Progeny	REV 4857X	58.3	73.1	68.2	32	1
Terral				-	29	1
Asgrow NV Brond	AG47X9	53.6	<u> </u>	_		1
NK Brand	S48-R2X	52.4	69.8	_	29	1
Petrus Seed	479 GTS	51.5	63.0	_	30	1
J. of Missouri	S14-9051R *	47.1	_	-	25	1
Mean		67.8				
CV		7.27				
LSD (0.05)		8				
\mathbb{R}^2		82.15				
Error DF		90				
Error DF	indicates an experimental entry.					

Table 59. Roundup Ready Maturity Group IV Early Irrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, clay). Yield **Brand** Variety¹ Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Asgrow AG46X6 91.9 92.1 87.8 37 1 40 Croplan RX 4500 S 88.9 2 MorSoy MS 4616 RXT 88.2 85.9 38 1 Pioneer P46A16R 87.8 38 SX18845XT 39 Dyna-Gro 86.8 1 NK Seeds S45-J3X 86.0 35 1 Terral REV 4679X * 85.2 39 1 Mission Seed Solutions A4637NSXR2 85.1 40 2 Progeny P4620RXS 85.1 85.0 79.2 43 Local Seed Co 41 LS4677X 84.9 1 Armor X45D50 * 84.6 37 S45XS66 84.5 40 2 Dyna-Gro 86.2 82.1 Local Seed Co LS4583X 84.4 36 1 Local Seed Co LS4487XS 84.3 40 MorSoy MS 4426 RXT 84.0 38 2 NK Seeds S45-K5X 83.7 85.2 34 Dyna-Gro S45XS37 39 83.7 82.8 1 Pioneer P46A57BX 83.2 40 2 84.3 AgriGold G4440RX 83.0 37 DG 46X25RR2 Xtend 40 2 Delta Grow 82.5 AGS GS46X17 82.3 34 83.5 Mission Seed Solutions A4608X 82.1 45 2 Asgrow AG42X9 82.0 43 Asgrow AG45X8 81.8 84.6 36 AG43X7 39 2 81.8 84.5 Asgrow Delta Grow 4670RR2 81.7 83.4 77.8 37 Asgrow AG43X8 81.3 38 Croplan RX4687S 81.1 40 2 Dyna-Gro S41XS98 81.1 32 Mission Seed Solutions A4447NSXR2 43 80.3 Local Seed Co LS4689X 80.0 44 2 36 Progeny P4444RXS 79.8 82.6 Great Heart GT-4685XS 79.5 44 Local Seed Co LS4565XS 78.6 35 NK Brand S43-V3X 78.6 81.2 37 1 Pioneer P42A96X 78.4 37 Mission Seed Solutions A4618X 78.0 41 1 USG 7447XTS 38 77.7 AgriGold G4605RX 77.6 47 2 G4579RX 77.6 43 AgriGold 1 Progeny P4750 RYS 76.8 41 Progeny P4255RX 76.0 83.7 37 2 Armor X46D63 75.7 41 1 **Great Heart** GT-4628X 75.3 43 2 42-D27 74.4 31 Armor 1 U. of Missouri S14-15146R * 73.5 33 1 69.6 40 3 Croplan RX 4217 S Progeny 40 P4318RX 66.2 2 Mean 81.2 5.3 LSD (0.05) 6.9 R2 67.1 Error DF 94 Variety followed by an asterisk indicates an experimental entry.

Table 60. Roundup Ready Maturity Group IV Late Irrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, clay). **Brand** Variety¹ Yield Plant height Lodging score 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 AG49X9 92.1 39 Asgrow Armor X49D31 91.7 45 2 Croplan RX4825 90.7 85.3 38 1 Pioneer P48A60X 90.7 39 1 MorSoy MS 4846 RXT 90.7 88.2 37 2 **REV 47A98** 38 Terral 90.6 P4816RX 84.4 76.5 38 Progeny 90.5 1 Asgrow AG48X9 90.2 41 1 USG 7489XT 90.2 36 1 Asgrow AG47X9 90.1 38 AgriGold G4995RX 41 88.3 Delta Grow DG 48X45RR2 Xtend 86.4 77.8 37 88.2 1 Armor X47D22 * 88.1 38 2 37 Local Seed Co LS4966X 87.5 1 Terral **REV 4927X** 87.5 85.4 37 2 Mission Seed Solutions 2 MEX4908 3 87.3 35 Local Seed Co AV49W3X 86.9 41 2 Progeny P4955RX 86.5 41 1 Great Heart Seed GT-4979X 86.4 42 2 Progeny P4757RY 86.4 81.8 75.5 39 **Great Heart Seed** GT-4721X 38 4 86.2 84.1 Great Heart Seed GT-4809X 42 85.4 2 **REV 4857X** 83.9 40 Terral 84.8 2 Dyna-Gro S49XT39 84.6 43 Croplan RX4927 84.4 37 2 GS 48X18 39 AGS 84.3 1 S48XT56 80.3 73.4 38 1 Dyna-Gro 84.1 Local Seed Co AV47W2X 83.1 41 1 78.2 75.1 38 Terral **REV 48A26** 82.9 USG 7496XTS 82.2 78.1 72.2 41 Local Seed Co LS4968XS 81.2 42 Local Seed Co LS4988X 80.9 36 79.2 **Delta Grow** DG 4790RR2 80.6 73.1 35 1 Progeny P4851RX 80.5 83.7 38 3 Progeny P4944RX 80.1 35 2 76.7 71.0 Progeny P4799RXS 79.4 46 1 GoSoy 49G16 79.2 71.2 33 77.9 U. of Missouri S14-9051R 79.1 34 1 79.2 Petrus Seed 4916 GT 79.0 31 1 NK Brand S48-R2X 78.6 74.7 37 2 Local Seed Co 76.9 42 2 LS4889XS X48D02 * 76.5 42 3 Armor U. of Missouri S14-9051R * 74.1 30 1 Mission Seed Solutions 43 2 MEX4808 * 71.3 Petrus Seed 479 GTS 70.7 71.2 38 **Great Heart Seed** GT-4833XS 68.8 40 3 Mean 83.9 CV 6.0 LSD (0.05) 8.2 R² 67.3 90 Error DF ¹Variety followed by an asterisk indicates an experimental entry.

Table 61. Roundup Ready Maturity Group V Early Irrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, clay). Variety¹ Yield **Brand** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Armor X55D57 90.9 33 1 35 Progeny Ag P5554RX 89.2 1 Dyna-Gro S56XT99 89.0 34 1 Progeny Ag P5226RYS 88.7 40 Local Seed Co 43 2 LS5087X 88.7 Terral Seed **REV 56A58** 88.2 81.6 29 1 Terral Seed **REV 52A98** 87.7 33 1 Dyna-Gro S52XT08 86.4 29 GoSoy 50G17 86.2 29 82.3 25 AG55X7 86.0 Asgrow 1 AGS GS 51X18S 85.3 39 33 Progeny Ag P5688RX 85.2 77.2 1 Asgrow AG54X9 85.0 26 1 77.3 **Great Heart Seed** GT-5324X 84.5 26 NK Seeds S50-G9XS 84.4 43 2 Delta Grow DG 5170 RR2/STS 84.2 79.5 76.5 40 2 29 Terral Seed 84.0 1 REV 55A67 75.9 41 AgriGold G5288RX 84.0 Asgrow AG53X9 83.7 39 Progeny Ag P5252RX 48 2 83.5 Asgrow AG52X9 83.0 44 Progeny Ag P5018RX 83.0 40 2 Pioneer P54A75X 82.6 23 Dyna-Gro SX18652XS 81.7 45 U. of Arkansas R14-14797 RR 75.3 34 80.5 1 Armor X51D77 80.2 46 DG 52X15 Xtend Delta Grow 79.9 40 3 Armor X52D71 79.8 40 1 73.6 AgriGold G5000RX 79.8 40 U. of Missouri S14-9017R 79.7 28 1 Armor X50D13 79.3 41 2 49 Progeny Ag P5279RXS 79.2 1 72.4 38 Terral Seed **REV 51A56** 77.3 75.1 1 Progeny Ag P 5016RXS 77.3 73.6 70.0 40 29 Dyna-Gro SX18854XT 76.0 1 Croplan RX 5016 S 75.0 38 66.9 25 GoSoy 54G16 73.7 1 Mean 83.0 CV 5.42 LSD (0.05) 7.32 R² 58.12 72 Variety followed by an asterisk indicates an experimental entry.

in 30	<i>1-5</i> 1
	1-5 1
30	1
27	1
_	

Brand	Variety ¹		Yield		Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Terral	REV 49L88 *	85.5	81.2	_	34	1
Credenz	CZ 4918 LL	84.7	80.6	_	37	1
Terral	REV 47L38	81.2	_	_	34	1
Dyna-Gro	S49LL34	80.0	75.7	75.6	44	1
Pioneer	P47A76L	79.7	_	_	42	1
Credenz	CZ 4308 LL	79.5	77.6	_	35	2
Pioneer	P44A08L	78.7	_	_	36	1
Credenz	CZ 4222 LL	78.0	75.5	72.3	34	1
Credenz	CZ 4649 LL	76.9	_	_	49	1
Dyna-Gro	S45LL97	76.1	74.3	_	43	1
Terral	REV 46L99 *	75.6	_	_	35	1
Delta Grow	DG 4582 LL/STS	74.6	_	_	38	2
Credenz	CZ 4540 LL	73.8	70.5	69.5	36	2
Credenz	CZ 4820 LL	73.5	70.8	_	41	1
Credenz	CZ 3601 LL	72.2	_	_	31	1
Delta Grow	DG 4977LL/STS	72.0	68.8	68.7	46	2
Credenz	CZ 4548 LL	70.9	70.5	_	34	1
Credenz	CZ 4938 LL	70.1	65.8	_	32	1
Credenz	CZ 4105 LL	68.9	68.0	63.1	40	2
Credenz	CZ 4748 LL	68.5	66.3	66.3	38	1
Credenz	CZ 3841 LL	66.4	68.7		32	1
Mean		75.6				
CV		8.6				
LSD (0.05)		10.8				
R ²		50.2				
Error DF		40				

Brand Variety	Variety		Yield			Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Credenz	CZ 5328 LL	80.6	_	_	30	1
Credenz	CZ 5445 LL	80.0	_	_	27	1
Credenz	CZ 5225 LL	79.8	_	_	25	1
Credenz	CZ 5147 LL	76.9	71.7	98.9	25	1
Credenz	CZ 5150 LL	76.6	69.3	96.2	44	2
Credenz	CZ 5242 LL	76.5	69.5	95.5	49	1
Mean		78.4				
CV		2.8				
LSD (0.05)		NS				
\mathbb{R}^2		74.2				
Error DF		10				

Brand	Variety¹	Yield			Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
VIRTUE EX203	2987331	90.0	_	_	37	1
VIRTUE EX206	2987416	88.8	_	_	38	1
U. of Missouri	S13-3851C	82.4	77.9	_	34	1
GoSoy	Ireane	79.7	74.5	74.9	21	1
U. of Missouri	S13-10590C *	74.2	68.7	_	35	1
U. of Missouri	S13-10592C *	74.1	_	_	34	1
GoSoy	E4510S	72.8	_	_	32	1
GoSoy	43C17S	65.9	_	_	31	1
U. of Missouri	S13-2743C *	62.7	67.1	_	33	1
Mean		76.7				
CV		6.7				
LSD (0.05)		8.9				
R^2		84.2				
Error DF		16				

Table 66. Maturity Group V Conventional Irrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, clay). Yield² **Brand** Variety¹ Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. in 1-5 bu/A bu/A bu/A U. of Missouri S15-10434C * 92.7 31 1 U. of Missouri M05201D CONV 90.3 28 1 GoSoy U. of Missouri 56C16 88.1 79.2 29 S11-20242C 37 84.5 25 GoSoy 53C16 83.5 1 GoSoy 51C17 82.9 26 1 77.5 U. of Missouri S13-1955C * 28 82.6 1 Mean 86.4 CV 3.1 LSD 4.8 R^2 77.7 Error DF 12 Variety followed by an asterisk indicates an experimental entry. 2No 3-year average.

STONEVILLE (Ioam) IRRIGATED, DELTA BRANCH

Crop Summary

Soybean plots were planted into a stale seedbed that had been prepared the previous fall. Soil moisture at planting was adequate for germination. All plots quickly emerged to a good stand. An error occurred during planting that required the Roundup Ready IV Early group to

be replanted. This maturity group was replanted on May 2. Timely rains and furrow irrigation supplied sufficient soil moisture throughout the growing season. Harvest was completed in a timely manner, and good yields were observed at this location.

Planting date ... April 19; replanted IV Early Roundup Ready on May 2

Harvest date October 2

Soil typeBosket very fine sandy loam

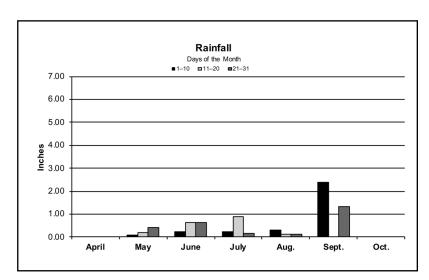
Soil pH6.8
Soil fertilityP=H, K=H
Previous crop ...Corn

HerbicidePreemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 24 oz/A, Gramoxone

@ 32 oz/A, and Zidua @ 2 oz/A on April 19

Irrigation June 8, July 5, July 13, July 25, August 3





	Inches
April	0.00
May	0.71
June	1.51
July	1.26
August	0.57
September	3.72
October	0.00
Total	7.77

Table 67. Roundup Ready Maturity Group IV Early Irrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, Ioam).

Brand	Variety ¹	Yield ²			Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Local Seed Co	LS4565XS	89.5	_	_	42	1
Local Seed Co	LS4677X	89.2	_	_	46	2
Terral	REV 4679X *	88.7	_	_	33	2
Delta Grow	DG 46X25RR2 Xtend	88.6	_	_	37	2
Croplan	RX 4500 S	88.2	_	_	45	2
NK Seeds	S45-K5X	87.7	82.2	_	32	1
Local Seed Co	LS4583X	87.3	_	_	42	1
Asgrow	AG46X6	85.8	82.4	80.0	34	1
Pioneer	P46A16R	85.5	_	_	45	3
Dvna-Gro	SX18845XT *	84.1	_	_	36	1
Pioneer	P46A57BX	84.0	_	_	36	3
Dyna-Gro	S45XS37	83.0	81.2	_	39	1
Mission Seed Solutions	A4637NSXR2	83.0	_	_	38	2
Pioneer	P42A96X	81.9			35	<u>-</u> 1
Progeny	P4620RXS	81.8	78.7	77.0	37	2
Delta Grow	4670RR2	81.3	80.7	77.0	38	
Dyna-Gro	S45XS66	81.0	76.0	74.9	38	2
AGS	GS46X17	80.6	81.3		31	<u>-</u> 1
AgriGold	G4579RX	80.6	-		42	<u> </u>
Local Seed Co	LS4487XS	80.5			45	<u>-</u>
Asgrow	AG45X8	80.4	80.6		40	<u>'</u> 1
MorSoy	MS 4426 RXT	79.8			40	<u>'</u> 1
Croplan	RX4687S	79.6			47	3
NK Seeds	S45-J3X	78.8			34	1
Armor	X46D63 *	77.6			41	<u> </u>
Mission Seed Solutions	A4608X	77.3			49	<u>'</u> 1
MorSoy	MS 4616 RXT	77.1		-	38	2
Local Seed Co	LS4689X	77.0	75.5		40	3
Mission Seed Solutions	A4447NSXR2	76.6		_	40	ა 1
USG	7447XTS	76.4		_	38	2
Armor	X45D50 *	76.3			29	
	P4750 RYS	76.3 75.9			39	1
Progeny	P4444RXS	75.8 75.8	— 77.5	_	39	2 1
Progeny Mission Cood Colutions				<u></u>		
Mission Seed Solutions	A4618X	75.7			40	1
AgriGold	G4440RX	75.5	75.6		37	3
AgriGold	G4605RX	75.4			48	2
Armor	42-D27	75.3			34	1
Great Heart	GT-4628X	75.3	-		48	3
Great Heart	GT-4685XS	73.8			40	1
Asgrow	AG43X7	73.5	72.2		37	1
Progeny	P4255RX	73.2	72.4		37	1
Dyna-Gro	S41XS98	72.4			39	2
U. of Missouri	S14-15146R *	72.3		_	36	1
Asgrow	AG43X8	70.8			34	1
NK Brand	S43-V3X	70.5	71.8	_	30	2
Asgrow	AG42X9	66.5		_	43	1
Croplan	RX 4217 S	66.1		_	42	3
Progeny	P4318RX	61.6	_	_	41	1
Mean		78.7				
CV		9.45				
LSD (0.05)		12.06				
R ²		56.46				
Error DF		94				
Wariaty fallowed by an actorial						

¹Variety followed by an asterisk indicates an experimental entry. ²Varieties lacking the Xtend trait were omitted from these locations due to uncertainty of exposure and timing of dicamba drift occurrence.

Table 68. Roundup Ready Maturity Group IV Late Irrigated Soybean Varieties (Delta Branch Experiment Station, Stoneville, Ioam).

Brand	Variety ¹		Yield		Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Local Seed Co	LS4968XS	94.0	_	_	31	1
AgriGold	G4995RX	93.1	_	_	36	1
Progeny	P4851RX	92.8	88.2	_	34	1
Local Seed Co	LS4966X	92.7	_	_	34	1
AGS	GS 48X18	92.2	_	_	31	2
Armor	X47D22 *	92.2	_	_	37	2
Progeny	P4955RX	92.1	_	_	42	2
Asgrow	AG47X9	91.3	_	_	32	1
GoSoy	49G16	90.6	81.7	78.2	29	1
Local Seed Co	AV47W2X	88.9			46	2
Mission Seed Solutions	MEX4808 *	88.7	_		39	3
Local Seed Co	LS4889XS	88.6			37	2
Terral	REV 48A26	87.6	84.0	84.0	39	2
NK Brand	S48-R2X	87.1	84.9	04.0 —	34	3
Mission Seed Solutions	MEX4908 *	87.0	04.9	-	37	2
Delta Grow	DG 48X45RR2 Xtend	85.6	82.3	80.5	29	1
Terral	REV 4927X	85.5	85.1		32	1
Progeny	P4799RXS	85.4	81.4	80.6	32	1
USG	7496XTS	85.1	79.5	80.2	34	1
Petrus Seed	479 GTS	84.6	75.8		37	1
Armor	X48D02 *	84.2		_	39	2
Delta Grow	DG 4790RR2	84.1	79.6	78.9	36	2
Progeny	P4757RY	83.7	83.2	80.0	33	1
Asgrow	AG48X9	83.7	_	_	35	1
Dyna-Gro	S49XT39	83.4	_	_	36	1
Progeny	P4944RX	83.3	_	_	33	2
Great Heart Seed	GT-4721X	82.9	82.8	_	30	1
USG	7489XT	82.7		_	35	1
Terral	REV 47A98	82.3	_	_	28	1
Pioneer	P48A60X	82.3			39	1
U. of Missouri	S14-9051R	82.1			37	1
MorSoy	MS 4846 RXT	81.7	77.7		33	<u>:</u> 1
Asgrow	AG49X9	81.4			39	2
Great Heart Seed	GT-4809X	81.3			39	1
U. of Missouri	S14-9051R *	81.0		_	38	<u>'</u> 1
Great Heart Seed	GT-4979X	80.9	<u> </u>		38	<u>'</u> 1
	P4816RX	80.6	80.9		33	
Progeny Dyna Cro						1
Dyna-Gro	S48XT56	80.6	78.5	75.6	35	11
Croplan	RX4825	80.2	79.2		35	4
Terral	REV 4857X	79.6	79.1		34	3
Local Seed Co	LS4988X	78.9			46	2
Local Seed Co	AV49W3X	78.4			39	4
Armor	X49D31 *	77.6	_	_	39	1
Croplan	RX4927	77.1			40	4
Great Heart Seed	GT-4833XS	74.3	_	_	26	1
Petrus Seed	4916 GT	71.0	71.4	_	36	1
Mean		84.4				
CV		11.9				
LSD (0.05)		NS				
R ²		30.9				
Error DF		90				

Brand	Variety¹	Yield			Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
Asgrow	AG52X9	105.2	_	_	42	1
AgriGold	G5288RX	98.0	_	_	42	1
Progeny Ag	P5226RYS	95.6	_	_	41	3
Delta Grow	DG 5170 RR2/STS	94.9	91.5	88.4	39	2
Terral Seed	REV 55A67	94.1	78.9	_	26	1
Delta Grow	DG 52X15 Xtend	92.3	_	_	36	2
AgriGold	G5000RX	91.6	84.1	_	35	1
Great Heart Seed	GT-5324X	90.8	83.6	_	27	1
Armor	X55D57	90.5	_	_	32	1
AGS	GS 51X18S	88.0	_	_	37	1
Terral Seed	REV 52A98	87.8	_	_	32	1
Local Seed Co	LS5087X	87.6	_	_	40	1
Progeny Ag	P5279RXS	87.5	_	_	36	1
Progeny Ag	P5252RX	87.4		_	49	3
Progeny Ag	P 5016RXS	87.3	81.4	81.7	35	1
GoSoy	50G17	87.2	-	-	32	1
J. of Arkansas	R14-14797 RR	86.9	80.9	_	28	1
Dyna-Gro	S52XT08	85.7			26	1
Armor	X52D71	85.7			38	<u> </u>
Armor	X50D13	85.4			39	3
Progeny Ag	P5018RX	85.2			38	2
Progeny Ag	P5688RX	84.6	81.7		29	1
NK Seeds	S50-G9XS	84.5	—		36	3
Asgrow	AG53X9	84.4			35	1
Terral Seed	REV 56A58	84.1	80.6		25	<u> </u>
Progeny Ag	P5554RX	83.8			32	<u> </u>
Dyna-Gro	S56XT99	83.7			31	<u>'</u>
Pioneer	P54A75X	83.7			16	1
J. of Missouri	S14-9017R	83.6	_		29	<u></u>
Asgrow	AG55X7	82.8	77.4		20	1
Armor	X51D77	80.8	11.4		49	4
Dyna-Gro	SX18652XS	79.0	_		49	3
Asgrow	AG54X9	78.8			26	<u>3</u>
Rogrow Croplan	RX 5016 S	78.4	_	_	38	1
Dyna-Gro	SX18854XT	76.3	_	_	21	1
Ferral Seed	REV 51A56	75.0	74.9	75.4	36	2
GoSoy	54G16	66.2	64.3	75.4 —	25	1
3030y	34616	00.2	04.3		20	<u> </u>
Mean		85.9				
CV		8.708				
_SD (0.05)		12.2				
R^2		60.7				
Error DF		72				

Brand	Variety		Yield			Lodging score
		2018	2-yr. avg.	3-yr. avg.		
		bu/A	bu/A	bu/A	in	1-5
USG	75B75R	81.4	77.9	74.6	28	1
Progeny	P5752RY	85.4	77.7	69.6	24	1
Mean		83.4				
CV		5.01				
LSD		NS				
R ²		81.09				
Error DF		2				

TIPPO, RAY HARDY JR. FARM

Crop Summary

Soybean plots were planted into a well-prepared seedbed that had been disked and do-alled before planting. Soil moisture at planting was excellent for germination. All plots emerged to a good stand. Rainfall was limited during

much of the growing season, which reduced this location's yield potential. However, there was enough rainfall for respectable yields for a nonirrigated location. Harvest was completed in a timely manner without difficulties.

Planting date ... May 1

Harvest date September 20

Soil typeDundee and Tensas silt loam

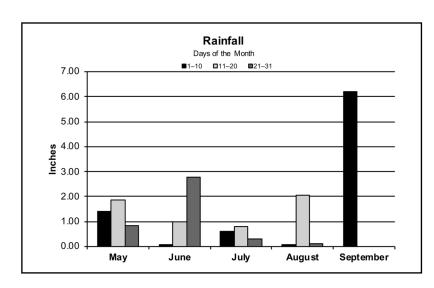
Soil pH6.3

Soil fertilityP=H⁺, K=H Previous crop ...Soybean

HerbicidePreemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 24 oz/A, and Zidua

@ 2 oz/A on May 1





May	4.10
June	3.86
July	
August	2.27
September	6.20
Total	.18.11

Table 71. Roundup Ready Maturity Group IV Early Nonirrigated Soybean Varieties (Ray Hardy Jr. Farm, Tippo). Yield **Brand** Variety¹ Plant height **Lodging score Shattering** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 % MorSoy MS 4616 RXT 49.0 40.8 36 1 Mission Seed Solutions 10 A4447NSXR2 48.8 36 2 Local Seed Co LS4565XS 47.9 35 1 NK Seeds S45-J3X 47.6 31 **NK Seeds** S45-K5X 46.6 38.9 31 1 Mission Seed Solutions A4618X 46.3 36 1 Local Seed Co LS4487XS 45.8 37 2 10 AG43X7 45.5 37.2 33 Asgrow 1 Asgrow AG46X6 45.0 38.4 33 RX 4500 S 44.9 30 2 Croplan AgriGold G4579RX 44.2 34 1 Armor 42-D27 44.1 34 1 X46D63 43.8 36 Armor 1 AGS GS46X17 43.7 37.2 31 43.3 38 3 Croplan RX4687S Pioneer P42A96X 42.8 25 2 10 Local Seed Co LS4689X 42.6 43 2 10 Local Seed Co LS4677X 42.6 36 2 P4750 RYS 42.2 33 Progeny Progeny P4255RX 41.6 35.0 29 1 P46A57BX 41.4 2 Pioneer 30 Progeny P4620RXS 41.3 39.1 36 Local Seed Co LS4583X 41.1 33 2 **Great Heart** GT-4685XS 40.9 32 AG45X8 40.8 36.2 34 3 Asgrow U. of Missouri S14-15146R * 40.7 26 1 Asgrow AG43X8 40.4 37 2 4670RR2 40.3 38.3 35.8 32 **Delta Grow** 1 Armor X45D50 40.2 34 SX18845XT * 39.9 33 2 Dyna-Gro DG 46X25RR2 Xtend **Delta Grow** 39.8 32 1 Dyna-Gro S45XS66 39.3 36.6 36 2 27 REV 4679X * 39.2 1 Terral AgriGold G4605RX 39.0 44 38.8 2 USG 7447XTS 33 S41XS98 38.4 10 Dyna-Gro 26 1 AgriGold G4440RX 38.3 36.4 36 Mission Seed Solutions A4608X 38.2 43 1 MorSoy MS 4426 RXT 37.2 36 Mission Seed Solutions 2 A4637NSXR2 36.9 38 Asgrow AG42X9 36.8 33 1 Progeny P4444RXS 36.7 32.7 31 1 S45XS37 36.7 31 Dyna-Gro 34.2 1 25 NK Brand S43-V3X 35.3 29.3 33 3 GT-4628X 35.0 39 **Great Heart** 1 P46A16R 34.4 Pioneer 27 1 25 Progeny P4318RX 34.1 36 2 2 25 Croplan RX 4217 S 31.9 34 Mean 41.1 11.66 CV LSD (0.05) 7.76 R² 52.79 94 ¹Variety followed by an asterisk indicates an experimental entry.

Table 72. Roundup Ready Maturity Group IV Late Nonirrigated Soybean Varieties (Ray Hardy Jr. Farm, Tippo). Variety¹ Yield Plant height **Lodging score Shattering Brand** 2-yr. avg. 2018 3-yr. avg. bu/A bu/A bu/A in 1-5 % Local Seed Co LS4889XS 49.1 39 USG 48.8 31 7489XT Petrus Seed 4916 GT 48.4 44.2 24 1 50.5 GoSoy 49G16 48.2 46.3 30 Local Seed Co LS4966X 48.0 31 1 MorSoy MS 4846 RXT 47.5 40.9 32 Local Seed Co AV49W3X 47.0 40 2 Progeny P4799RXS 46.7 42.8 41 1 Croplan RX4825 46.6 41.0 32 1 GS 48X18 46.6 34 AGS 42.6 Progeny P4816RX 46.2 35 DG 48X45RR2 Xtend Delta Grow 46.1 43.3 31 1 Croplan RX4927 45.1 36 2 LS4968XS Local Seed Co 45.1 37 Armor X47D22 * 44.8 34 1 Dyna-Gro S49XT39 44.0 33 2 **Great Heart Seed** GT-4721X 44.0 38.1 3 36 **Great Heart Seed** GT-4833XS 35 2 43.9 S14-9051R U. of Missouri 43.8 27 41.9 Progeny P4757RY 43.4 41.1 34 Terral **REV 47A98** 43.3 30 39.3 **REV 4927X** 2 Terral 43.3 36 5 Terral **REV 48A26** 43.0 38.2 39.5 34 Armor X48D02 * 42.9 39 1 10 U. of Missouri S14-9051R 42.9 28 38.7 42.5 Delta Grow DG 4790RR2 42.5 36 2 2 AgriGold G4995RX 42.3 38 Asgrow AG47X9 42.3 34 2 P48A60X 32 42.0 Pioneer Asgrow AG48X9 41.7 35 1 Local Seed Co AV47W2X 41.3 36 2 X49D31 * 40.7 37 Armor 1 **Great Heart Seed** GT-4979X 40.6 34 2 Asgrow AG49X9 40.5 33 NK Brand 35.0 S48-R2X 40.2 32 1 USG 7496XTS 40.0 43.3 34 1 S48XT56 27 Dyna-Gro 39.7 35.2 Local Seed Co LS4988X 39.5 32 10 Mission Seed Solutions A4828X 39.2 38 2 20 Progeny P4851RX 38.3 31.8 38 4 Mission Seed Solutions A4950X 38.1 37 Great Heart Seed GT-4809X 37.8 35 1 Petrus Seed 479 GTS 37.3 34.2 34 20 **REV 4857X** 37.0 34 Terral 30.8 Progeny P4944RX 36.9 32 1 20 Progeny P4955RX 36.3 36 Mean 42.9 CV 10.28 LSD (0.05) 7.15 60.8 Variety followed by an asterisk indicates an experimental entry.

Mississippi Agricultural and Forestry Experiment Station

VERONA, NORTHEAST MISSISSIPPI BRANCH

Crop Summary

Soybean plots were planted flat into a field that had been field cultivated twice before planting. Seeding depth was deeper than desired due to limited soil moisture at planting. Unfortunately, just 2 days after planting, the trial received 2.3 inches of rainfall, which packed the loose soil and formed a crust that proved difficult for seedlings to break. A week later, we determined it would

be necessary to run a rotary hoe through the plots to beak the crust and salvage this location. The plots struggled but survived for almost a month until they received 7 inches of rainfall from mid-June through mid-July, which is a crucial bloom and pod set period. Harvest was completed in a timely manner, and good yields were observed at this location.

Planting dateMay 3

Harvest dateIVE Roundup Ready and IV LibertyLink on September 21; IVL, VE, and VL

Roundup Ready, and V LibertyLink on October 3

Soil typeLeeper silty clay loam

HerbicidePreemergence — Authority MTZ @ 12 oz/A, Dual II Magnum @ 24 oz/A,

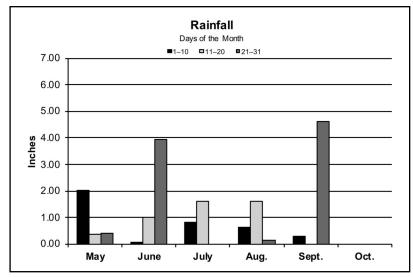
and Zidua @ 2 oz/A on May 3

Postemergence - Section (clethodim) @ 12 oz/A, Firstrate @ 0.6 oz/A,

and Prefix @ 16 oz/A on June 7

Fungicide/Insecticide . . . Acephate @ 0.75 lb/A and Intrepid Edge @ 4 oz/A on August 10





	Inches
May	2.86
June	5.07
July	2.45
August	2.41
September	4.94
October	0.00
Total	17.73

Table 73. Roundup Ready Maturity Group IV Early Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona). **Brand** Variety¹ Yield² **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 LS4677X Local Seed Co 104.1 9/16 38 2 **RX4687S** 100.1 9/11 37 2 Croplan Mission Seed Solutions A4447NSXR2 97.8 9/10 38 1 Local Seed Co LS4565XS 97.6 9/14 38 32 Pioneer P46A16R 97.3 9/13 1 NK Seeds S45-K5X 95.6 9/8 33 Mission Seed Solutions A4608X 93.5 9/8 45 Asgrow AG45X8 92.8 9/12 28 Croplan RX 4500 S 92.3 9/13 34 1 NK Seeds S45-J3X 91.8 9/8 32 Asgrow AG42X9 91.5 9/8 36 Dyna-Gro SX18845XT * 90.6 9/13 31 1 MorSoy MS 4616 RXT 89.4 9/15 32 35 S43-V3X 9/6 NK Brand 89.3 Armor 42-D27 89.3 9/5 31 1 Terral REV 4679X * 89.1 9/13 33 S45XS37 88.7 9/17 32 Dyna-Gro 1 AgriGold G4440RX 88.7 9/14 31 Armor X45D50 * 88.0 9/15 35 Progeny 36 P4255RX 87.8 9/6 AgriGold G4605RX 87.7 9/11 41 AG43X7 36 Asgrow 87.3 9/9 1 Progeny P4620RXS 87.3 9/14 34 Local Seed Co LS4583X 86.8 9/15 36 1 P4444RXS 86.1 9/10 28 Progeny 1 Mission Seed Solutions A4618X 85.3 9/15 36 39 84.8 Pioneer P46A57BX 9/7 1 Dyna-Gro S45XS66 83.6 9/17 37 P42A96X 33 Pioneer 83.6 9/2 Delta Grow DG 46X25RR2 Xtend 83.3 9/11 35 1 **Great Heart** GT-4685XS 83.1 9/17 36 MS 4426 RXT 82.9 9/9 33 MorSoy 1 AG46X6 82.7 9/13 34 Asgrow Mission Seed Solutions A4637NSXR2 82.7 9/11 38 28 AGS GS46X17 82.1 9/10 1 Local Seed Co LS4487XS 82.1 9/8 36 AgriGold G4579RX 9/15 35 81.9 U. of Missouri S14-15146R * 81.8 9/12 30 Local Seed Co LS4689X 80.6 9/8 44 1 Great Heart GT-4628X 80.6 9/11 42 Progeny P4318RX 79.7 9/5 39 79.6 Progeny P4570RXS 9/14 32 1 Armor X46D63 * 78.1 9/13 34 30 S41XS98 78.1 9/7 Dyna-Gro Delta Grow 4670RR2 74.6 9/8 33 1 Asgrow AG43X8 74.0 9/9 38 9/14 USG 7447XTS 73.5 35 1 RX 4217 S 9/7 37 Croplan 72.9 85.3 Mean CV 13.8

Variety followed by an asterisk indicates an experimental entry.

19.3 35.8

94

²No 2- or 3-year average.

LSD (0.05)

Error DF

Table 74. Roundup Ready Maturity Group IV Late Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety ¹	Yield ²			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Local Seed Co	LS4889XS	105.9	_	_	9/17	44	1
Local Seed Co	AV49W3X	103.6	_	_	9/15	40	3
Progeny	P4955RX	103.6	_	_	9/13	34	1
Great Heart Seed	GT-4833XS	102.6	_		9/17	36	1
Armor	X48D02 *	101.1	_		9/17	39	2
Terral	REV 48A26	100.3	_		9/12	33	<u>-</u> 1
Local Seed Co	LS4966X	99.8			9/17	33	1
Croplan	RX4927	99.5			9/14	28	<u> </u>
Armor	X47D22 *	99.1			9/15	34	<u>'</u>
Dyna-Gro	S49XT39	98.8			9/18	36	<u>'</u>
Croplan	RX4825	98.4			9/17	33	<u>'</u> 1
Terral	REV 4927X	98.4			9/14	37	<u>'</u> 1
	P4944RX	96.7	<u> </u>		9/15	34	1
Progeny Mission Cood Colutions			_				
Mission Seed Solutions	A4950X	96.2	<u> </u>		9/18	43	1
Great Heart Seed	GT-4721X	96.0	_		9/16	37	1
Mission Seed Solutions	A4828X	96.0	_		9/13	38	1
Asgrow	AG48X9	95.9			9/17	35	1
Great Heart Seed	GT-4979X	95.5			9/17	34	1
AGS	GS 48X18	95.4			9/11	32	1
Progeny	P4851RX	95.3			9/14	35	1
Progeny	P4757RY	94.5	_	_	9/13	38	2
AgriGold	G4995RX	94.3	_	_	9/18	38	1
Dyna-Gro	S48XT56	94.0	_	_	9/17	32	1
Armor	X49D31 *	93.9	_	_	9/17	37	1
Local Seed Co	LS4988X	93.8	_	_	9/12	31	1
Pioneer	P48A60X	93.7	_	_	9/14	34	1
Local Seed Co	AV47W2X	93.1	_	_	9/14	35	1
Asgrow	AG49X9	92.7	_	_	9/17	35	1
GoSoy	49G16	92.7	_	_	9/16	34	1
Delta Grow	DG 4790RR2	91.6	_	_	9/14	33	1
NK Brand	S48-R2X	90.5	_		9/12	35	1
Terral	REV 47A98	90.3			9/16	35	1
Progeny	P4799RXS	90.0			9/14	39	1
Local Seed Co	LS4968XS	89.7			9/18	35	1
Delta Grow	DG 48X45RR2 Xtend	89.4			9/17	30	<u>'</u>
Progeny	P4816RX	89.1	_		9/15	37	<u> </u>
Asgrow	AG47X9	87.7		<u> </u>	9/17	32	<u> </u>
Petrus Seed	4916 GT	87.5			9/17	30	<u> </u>
			-				
USG	7496XTS	86.3	_		9/18	37	1
USG	7489XT	86.1	_	_	9/8	38	1
MorSoy	MS 4846 RXT	86.1		_	9/14	39	2
Terral	REV 4857X	85.4			9/12	37	1
Great Heart Seed	GT-4809X	83.6	_		-	35	1
U. of Missouri	S14-9051R	82.6			9/18	30	1
Petrus Seed	479 GTS	81.7			9/16	37	1
U. of Missouri	S14-9051R *	78.2	_	_	9/17	27	1
Mean		92.6					
CV		8.6					
LSD (0.05)		13.0					
R ²		57.9					
Error DF		90					
	torial indicatos an avnari						

¹Variety followed by an asterisk indicates an experimental entry.

²No 2- or 3-year average.

Table 75. Roundup Ready Maturity Group V Early Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona). Yield1 **Brand** Variety **Maturity date** Plant height **Lodging score** 2018 2-yr. avg. 3-yr. avg. bu/A bu/A bu/A in 1-5 Dyna-Gro SX18652XS 97.9 9/17 41 1 U. of Arkansas R14-14797 RR 96.7 9/25 32 1 9/22 AgriGold G5288RX 93.2 38 AGS GS 51X18S 93.2 9/20 36 P5018RX 36 2 Progeny Ag 92.7 9/18 X52D71 91.2 9/23 40 Armor Local Seed Co LS5087X 90.3 9/18 42 1 Progeny Ag P5226RYS 90.2 9/19 43 2 Progeny Ag P5279RXS 89.1 9/23 45 34 AgriGold G5000RX 88.5 9/21 1 Armor X50D13 88.1 9/20 38 2 DG 52X15 Xtend Delta Grow 87.7 9/19 41 1 Asgrow AG52X9 87.3 9/17 38 Terral Seed REV 51A56 86.9 9/17 37 X55D57 86.7 9/23 28 Armor Progeny Ag P5252RX 86.4 9/20 44 2 Progeny Ag P5688RX 85.5 9/22 25 1 9/19 NK Seeds S50-G9XS 85.5 36 3 Armor X51D77 84.7 9/21 39 9/17 26 Terral Seed **REV 52A98** 84.6 1 Dyna-Gro S56XT99 84.3 10/2 28 DG 5170 RR2/STS 2 Delta Grow 84.0 9/18 47 50G17 84.0 9/19 22 1 GoSoy Asgrow AG53X9 82.3 9/20 33 82.1 **REV 55A67** 9/28 24 Terral Seed 1 Progeny Ag P 5016RXS 80.7 9/18 36 1 Dyna-Gro S52XT08 78.8 9/17 18 Croplan RX 5016 S 77.7 9/18 40 Progeny Ag P5554RX 76.7 9/21 28 **REV 56A58** 76.3 9/22 21 Terral Seed AG54X9 76.2 9/21 22 Asgrow Dyna-Gro SX18854XT 74.8 9/19 23 1 9/27 33 U. of Missouri S14-9017R 73.1 Great Heart Seed GT-5324X 73.1 9/20 17 67.1 9/18 24 GoSoy 54G16 1 Pioneer P54A75X 63.6 9/21 18 Asgrow AG55X7 59.4 9/21 17 1 Mean 82.1 12.2 CV LSD (0.05) 16.5 61.5 Error DF 72 ¹No 2-year or 3-year averages.

Brand	Variety	Yield ¹			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
USG	75B75R	84.9	_	_	9/29	26	1
Progeny	P5752RY	78.6	_	_	10/3	26	1
Mean		81.7					
CV		5.5					
LSD		NS					
R ²		69.3					
Error DF		2					

Brand	Variety ¹	Yield ²			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Credenz	CZ 4820 LL	105.0	_	_	9/14	38	1
Terral	REV 46L99 *	102.7	_	_	9/13	36	1
Terral	REV 49L88 *	101.1	_	_	9/12	38	1
Credenz	CZ 4748 LL	100.4	_	_	9/14	37	1
Terral	REV 47L38	100.3	_	_	9/10	42	1
Credenz	CZ 4649 LL	96.4	_	_	9/12	43	1
Pioneer	P44A08L	91.0	_	_	9/12	37	1
Credenz	CZ 4918 LL	90.8	_	_	9/17	48	1
Pioneer	P47A76L	90.2	_	_	9/14	33	1
Credenz	CZ 4308 LL	89.0	_	_	9/6	37	1
Credenz	CZ 4548 LL	87.8	_	_	9/14	40	1
Dyna-Gro	S45LL97	87.5	_	_	9/16	38	1
Delta Grow	DG 4582 LL/STS	85.4	_	_	9/12	43	1
Credenz	CZ 4938 LL	85.2	_	_	9/9	35	1
Dyna-Gro	S49LL34	83.2	_	_	9/18	40	1
Credenz	CZ 4540 LL	81.1	_	_	9/13	38	1
Credenz	CZ 4222 LL	77.4	_	_	8/28	34	1
Delta Grow	DG 4977LL/STS	76.0	_	_	9/13	47	2
Credenz	CZ 3841 LL	70.2	_	_	8/27	33	1
Credenz	CZ 4105 LL	70.1	_	_	8/27	29	1
Credenz	CZ 3601 LL	64.6	_		8/27	30	1
Mean		84.8					
CV		8.7					
LSD (0.05)		12.5					
R^2		79.1					
Error DF		40					

Brand	Variety	Yield ¹			Maturity date	Plant height	Lodging score
		2018	2-yr. avg.	3-yr. avg.			
		bu/A	bu/A	bu/A		in	1-5
Credenz	CZ 5242 LL	96.2	_	_	9/20	48	1
Credenz	CZ 5147 LL	93.3	_	_	9/25	20	1
Credenz	CZ 5445 LL	91.9	_	_	9/21	29	1
Credenz	CZ 5225 LL	90.2	_	_	9/20	26	1
Credenz	CZ 5150 LL	89.5	_	_	9/19	45	1
Credenz	CZ 5328 LL	88.8	_	_	9/21	28	1
Mean		90.8					
CV		6.4					
LSD (0.05)		NS					
R ²		58.8					
Error DF		10					

2018 SOYBEAN VARIETY TRIAL STEM CANKER REPORT

All of the entries in the 2018 variety trials were evaluated for their reaction to the stem canker fungus. Trials consisted of single rows containing each cultivar planted in 10foot plots and replicated four times. Within each row, eight plants were inoculated with a single toothpick infested with the fungus that causes stem canker (Diaporthe aspalathi). Plants were inoculated approximately 8 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 of the following tables contains the analyzed stem canker rating as an average of the response of the inoculated plants for each entry (n=32)observations/entry). 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 in the past, plant cultivars have been observed to contain resistance to stem canker to reduce the potential yield losses associated with this particular disease. In addition, keep in mind that observations of stem canker tend to be more obvious when the environment is conducive to disease development (see the Clarksdale yield response from 2018). Therefore, over time, and in years when the environment may not be conducive to the development of stem canker, it is possible that stem canker designations could change between years.

NOTE: Entries in rows that are bolded were not included in the official MSU variety-trial program. These entries were supplemented by the researchers to provide a more robust data set to soybean farmers.

Table 79. Response of Maturity Group IV Early Soybean Cultivars to Stem Canker, 2018.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³	
Dyna-Gro 39RY43 (check)	_	_	
Armor ARX4607 (2017 check)	6.8 ab	S	
Dyna-Gro SX17846XS (2017 check)	4.1 cde	MR	
AgriGold G4440RX	6.2 abc	MS	
AgriGold G4579RX	1.0 g-k	R	
AgriGold G4605RX	0.0 k	 R	
AGS GS 46X17	0.9 g-k	 R	
Armor 42-D27 (ARX4207)	1.8 e-k	 R	
Armor X45D50	0.0 k	R	
Armor X46D63	0.8 g-k	R	
Asgrow AG42X9	2.1 e-k	R	
Asgrow AG43X7	3.1 d-g	MR	
Asgrow AG43X8	0.9 g-k	R	
		R	
Asgrow AG45X8	1.2 g-k		
Asgrow AG46X6	0.2 k	R	
Croplan RX 4217 S	0.6 jk	R	
Croplan RX 4500 S	1.6 f-k	R	
Croplan RX4687S	6.4 abc	MS	
Delta Grow DG 4670 RR2	2.0 e-k	R	
Delta Grow DG 46X25RR2 Xtend	0.0 k	R	
Dyna-Gro S41XS98	0.8 g-k	R	
Dyna-Gro S45XS37	0.0 k	R	
Dyna-Gro S45XS66	2.6 d-j	R	
Dyna-Gro SX18845XT	0.3 jk	R	
Great Heart GT-4628X	3.8 def	MR	
Great Heart GT-4685XS	1.6 f-k	R	
Local Seed Co. LS4487XS	3.0 d-i	MR	
Local Seed Co. LS4565XS	1.2 g-k	R	
Local Seed Co. LS4583X	0.4 jk	R	
Local Seed Co. LS4677X	0.4 jk	R	
Local Seed Co. LS4689X	1.4 g-k	R	
Mission Seed Solutions A4447NS	7.3 a	 S	
Mission Seed Solutions A4637NS	7.0 a		
Mission Seed Solutions A4608X	1.0 g-k		
Mission Seed Solutions A4618X	0.8 g-k	 R	
MorSoy MS 4426 RXT	4.5 bcd	MR	
MorSoy MS 4420 TIXT	1.0 g-k	R	
NK Seeds S43-V3X	1.0 g-K	R	
NK Seeds S45-J3X	3.1 d-g	MR	
NK Seeds S45-USX		R	
Pioneer P42A96X	0.3 jk		
	0.8 g-k	R	
Pioneer P46A16R	1.1 g-k	R	
Pioneer P46A57BX	1.1 g-k	R	
Progeny P4255RX	6.4 abc	MS	
Progeny P4318RX	1.2 g-k	R	
Progeny P4444RXS	0.6 jk	R	
Progeny P4570RXS	0.7 jk	R	
Progeny P4620RXS	0.6 jk	R	
Terral REV 4679X	0.0 k	R	
Univ. of Missouri R14-15146R	0.1 g-k	R	
USG 7447XTS	8.3 a	S	
LSD (0.05)	2.3		
CV (%)	80.9		
P-value for F-statistic	<0.0001		

'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.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

 ${\bf Table~80.~Response~of~Maturity~Group~IV~Late~Soybean~Cultivars~to~Stem~Canker,~2018.}$

Dyna-Gro 38HV41 (check)	Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Dyna-Gro S49XS88 (2017 check) 3.6 bc MR Application G4995 R A A Cell R A A Cell R A A A Cell R A A A Cell R A A A A A A A A A		_	_
Agricolo (64995RX			MR
AGS GS 48/18			MR
Amor 47-D17 Amor 47-D17 Amor 47-D24 0.01 R Amor 47-D22 1.8 de R Amor 47-D22 1.8 de R Amor 48-D24 R Amor 48-D25 1.0 ef R Amor 48-D26 1.0 ef R Amor 48-D27 1.0 ef R Asgrow A6479 0.0 1 R Asgrow A6479 0.0 1 R Asgrow A64899 0.0 1 R Croplan R44255 0.0 1 R R Croplan R44255 0.0 1 R R Delta Grow D6 4790 RB2 0.3 ef R R Delta Grow D6 4790 RB2 0.3 ef R R Delta Grow D6 4790 RB2 0.3 ef R R Delta Grow D6 4790 RB2 0.3 ef R R Delta Grow D6 4790 RB2 0.3 ef R R Delta Grow D6 4790 RB2 0.3 ef R R Delta Grow D6 4790 RB2 0.3 ef R R Great Heart G7-S40575 0.0 1 R R Dyna-Gro 580715 0.0 1 R R Great Heart G7-4200X 0.0 1 R R Great Heart G7-420X 1.3 def R Great Heart G7-420X 1.3 def R Great Heart G7-420X 1.0 def R Great Heart G7-430X 0.0 ef R Great Heart G7-430X 0.0 ef R R Great Heart G7-430X 0	AgriGold G4995RX	1.4 def	R
Amor A47022 1.8 de R Amor A48002 1.0 ef R Amor A48002 1.0 ef R Amor A48002 1.0 ef R Asgrow A64799 0.0 f R Asgrow A64899 0.0 f R Asgrow A64890 0.0 f R Asgrow A64900 0.0 f R Asgrow A649000 0.0 f R Asgrow A64900 0.0 f R Asg	AGS GS 48X18	0.5 ef	R
Amor X47022	Armor 47-D17	1.0 ef	R
Amor X48002	Armor 48-D24	0.0 f	R
Amor X49031 Agrow A647X9 0.0 f R Agrow A648X9 0.0 f R Agrow A648X16 0.7 ef R Delta Grow D6 49X.45R82 Xind 0.7 ef R Agrow A648X16 0.0 f R Agrow	Armor X47D22	1.8 de	R
Asgrow AGATX9 0.0 f R Asgrow AG4890 0.0 f R Asgrow AG4909 0.0 f R Cropian RX4825 0.0 f R Cropian RX4827 0.6 ef R Delta Grow DG 4790 RR2 0.3 ef R Delta Grow DG 4790 RR2 0.3 ef R Delta Grow DG 4790 RR2 0.0 ef R Dipua-Gro 548XT56 0.0 f R Dyna-Gro 548XT39 0.3 ef R GOSO 49G16 2.7 cd MR Great Heard GT-4809X 0.0 f R Local Seed Co. LAVAWAYX 0.1 e R Local Seed Co. LAVAWAYX 0.0 f R </td <td>Armor X48D02</td> <td>1.0 ef</td> <td>R</td>	Armor X48D02	1.0 ef	R
Asgrow AC48X9 0.0 f R Asgrow AC48X9 0.0 f R Croplan RX4825 0.0 f R Croplan RX4927 0.6 sf R Delta Grow DC 4970 RR2 0.3 sf R Delta Grow DC 48X45RR Xland 0.7 ef R Dyna-Gro S49XT39 0.3 ef R G805y 49616 2.7 cd MR Great Heart GT-4721X 1.3 def R Great Heart GT-4880% 0.0 f R Great Heart GT-4890% 0.0 f R Great Heart GT-4879X 0.2 ef R Great Heart GT-4879X 0.2 ef R Local Seed Co. AV47WZX 0.1 ef R Local Seed Co. AV49WXX 0.0 f R Local Seed Co. L54860X 0.0 ef R Local Seed Co. L54860X 0.1 ef R Local Seed Co. L54860X 0.1 ef R Local Seed Co. L54860X 0.0 ef R Local Seed Co. L54860X 0.0 ef R Local Seed Co. L54860X 0.0	Armor X49D31	0.3 ef	R
Asgrow AG19WS 0.0 f R Croplan RX4925 0.0 f R Croplan RX4927 0.8 ef R Delta Grow DG 4790 RP2 0.3 ef R Delta Grow DG 4790 RP2 0.3 ef R Dyna-Gro S48XTS6 0.0 f R Dyna-Gro S48XTS9 0.3 ef R OSO4 980T6 2.7 cd MR Great Heart GT-4809X 0.0 f R Great Heart GT-4979X 0.2 ef R Local Seed Co AV47W2X 0.1 ef R Local Seed Co AV47W2X 0.1 ef R Local Seed Co NAV9W3X 0.0 f R Local Seed Co L54860X 0.1 ef R Local Seed Co L54860X 0.1 ef R Local Seed Co L54860X 0.1 ef R Local Seed Co L54860X 0.0 f R Local Seed Co L54860X 0.0 f	Asgrow AG47X9	0.0 f	R
Croplan RX4925 0.6 ef R Croplan RX4927 0.6 ef R Delta Grow DG 4790 RR2 0.3 ef R Delta Grow DG 48X45R2 Xtend 0.7 ef R Dyna-Gro S48X156 0.0 f R Dyna-Gro S49X139 0.3 ef R Gosoy 49G16 2.7 cd MR Great Heart GT-4721X 1.3 def R Great Heart GT-4830X 0.0 f R Great Heart GT-4833XS 0.4 ef R Great Heart GT-4833XS 0.4 ef R Great Heart GT-499X 0.2 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. AV49W3X 0.0 f R Local Seed Co. L54968X 0.0 ef R Local Seed Co. L54968X 0.1 ef R Nossion Seed Solutions MEA4	Asgrow AG48X9	0.0 f	R
Cioplan RX4927 0.6 ef R Delta Grow DG 470 RP2 0.3 ef R Delta Grow DG 48X45RP2 Xtend 0.7 ef R Dyna-Gro 548XT39 0.0 f R Dyna-Gro 548XT39 3.5 ef R GOSQY 49G16 2.7 cd MR Great Heart GT-4721X 1.3 def R Great Heart GT-4893W 0.0 f R Great Heart GT-4893W 0.0 f R Great Heart GT-4893W 0.4 ef R Great Heart GT-4979X 0.2 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. L54898YS 0.9 ef R Local Seed Co. L54898YS 0.9 ef R Local Seed Co. L54968YS 0.1 ef R Local Seed Co. L54968YS 0.0 f R Local Seed Co. L5	Asgrow AG49X9	0.0 f	R
Cioplan RX4927 0.6 ef R Delta Grow DG 470 RP2 0.3 ef R Delta Grow DG 48X45RP2 Xtend 0.7 ef R Dyna-Gro 548XT39 0.0 f R Dyna-Gro 548XT39 3.5 ef R GOSQY 49G16 2.7 cd MR Great Heart GT-4721X 1.3 def R Great Heart GT-4893W 0.0 f R Great Heart GT-4893W 0.0 f R Great Heart GT-4893W 0.4 ef R Great Heart GT-4979X 0.2 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. L54898YS 0.9 ef R Local Seed Co. L54898YS 0.9 ef R Local Seed Co. L54968YS 0.1 ef R Local Seed Co. L54968YS 0.0 f R Local Seed Co. L5	Croplan RX4825	0.0 f	R
Delta Grow DG 4790 RR2 Delta Grow DG 484X5RR2 Xtend Dyna-Gro S48XT56 Dyna-Gro S48XT56 Dyna-Gro S48XT59 0.3 ef R R Dyna-Gro S48XT59 0.3 ef R R Grost Heart GT-4721X 1.3 def R Great Heart GT-4721X 1.3 def R Great Heart GT-480XX 0.0 f R Great Heart GT-480XX 0.0 of R Great Heart GT-490XX 0.0 ef R Great Heart GT-490XX 0.1 ef R Great Heart GT-4973X 0.2 ef R R Great Heart GT-893XX 0.1 ef R Local Seed Co. N447W2X 0.1 ef R Local Seed Co. L54966X 0.0 f R Local Seed Co. L54966X 0.1 ef R Local Seed Co. L54966X 0.1 ef R Local Seed Co. L54968X 0.0 f R Mission Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4908 0.0 f R MoSoy MS 4846 RXT 0.2 ef R MorSoy MS 4846 RXT 0.2 ef R Petrus Seed 479 GTS 1.5 def R Petrus Seed 491 GT A S B MS Petrus Seed 491 GT A S B B MS Petrus Seed 491 GT A B B MS Petrus Seed 491 GT A B B MS Petrus Seed 491 GT A			R
Delta Grow D6 48X45R6 0.0 f R Dyna-Gro S49XT56 0.0 f R Dyna-Gro S49XT39 0.3 ef R GoSoy 49G16 2.7 cd MR Great Heart GT-4721X 1.3 def R Great Heart GT-4893X 0.0 f R Great Heart GT-483XS 0.4 ef R Great Heart GT-4979X 0.2 ef R Local Seed Co. AV47WXX 0.1 ef R Local Seed Co. AV49WXX 0.0 f R Local Seed Co. AV49WXX 0.0 f R Local Seed Co. LS4989XS 0.9 ef R Local Seed Co. LS4968X 0.1 ef R Local Seed Co. LS4968XS 0.0 f R Local Seed Co. LS4968XS 0.0 f R Local Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4808 0.0 f R NY Seed S48-RZX 0.0 f R Protrus Seed 479 GTS 1.5 def R Petr			
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GSOSy 49G16 2.7 cd MR Great Heart GT-4721X 1.3 def R Great Heart GT-4809X 0.0 f R Great Heart GT-4833XS 0.4 ef R Great Heart GT-4978X 0.2 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. LV49W3X 0.0 f R Local Seed Co. LS4988XS 0.9 ef R Local Seed Co. LS496BX 0.1 ef R Local Seed Co. LS4988XS 0.0 f R Mission Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4908 0.0 f R MorSoy MS 4846 RXT 0.2 ef R MorSoy MS 4846 RXT 0.2 ef R NY Seed Solutions MEX4908 0.0 f R Petrus Seed 4916 GT 4.8 ab MS			
Great Heart GT-4809X			
Great Heart GT-4809X			
Great Heart GT-4833XS 0.4 ef R Great Heart GT-4979X 0.2 ef R Local Seed Co. AV47W2X 0.1 ef R Local Seed Co. AV49W3X 0.0 f R Local Seed Co. LS4988XS 0.9 ef R Local Seed Co. LS4968X 0.1 ef R Local Seed Co. LS4968XS 0.0 f R Local Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4808 0.0 f R Mission Seed Solutions MEX4908 0.0 f R Mission Seed Solutions MEX4908 0.0 f R MorSoy MS 4846 RXT 0.2 ef R NK Seeds S48-R2X 0.0 f R Petrus Seed 479 GTS 1.5 def R Petrus Seed 4916 GT 4.8 ab MS Pioneer 48A32X 0.0 f R Pioneer 48A60X 0.0 f R Progeny P4757BY 0.3 ef R Progeny P436BX 0.0 f R Progeny P498TX 0.0 f R Progeny P499RX </td <td></td> <td></td> <td></td>			
Great Heart GT-4979X			
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Local Seed Co. LS4968XS 0.0 f R Local Seed Co. LS4988X 0.1 ef R Mission Seed Solutions MEX4908 0.0 f R Mission Seed Solutions MEX4908 0.0 f R MorSoy MS 4846 RXT 0.2 ef R NK Seeds S48-R2X 0.0 f R Petrus Seed 479 GTS 1.5 def R Petrus Seed 4916 GT 4.8 ab MS Pioneer 48A32X 0.0 f R Pioneer 48A60X 0.0 f R Pioneer 48A60X 0.0 f R Progeny P4757RY 0.3 ef R Progeny P436RX 0.0 f R Progeny P4816RX 0.0 f R Progeny P485RX 0.0 f R Progeny P495SRX 0.3 ef R Progeny P4994RX 0.2 ef R Terral REV 47A98 0.0 f R Terral REV 4857X 0.0 f R Terral REV 4892TX 1.2 def R Univ. of Missouri S14-15138R 0.0 f R			
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Mission Seed Solutions MEX4808 0.2 ef R Mission Seed Solutions MEX4908 0.0 f R MorSoy MS 4846 RXT 0.2 ef R MK Seeds S48-R2X 0.0 f R Petrus Seed 479 GTS 1.5 def R Petrus Seed 4916 GT 4.8 ab MS Pioneer 48A32X 0.0 f R Pioneer 78A860X 0.0 f R Progeny P4757RY 0.3 ef R Progeny P4799RXS 0.0 f R Progeny P4816RX 0.0 f R Progeny P4851RX 0.0 f R Progeny P4955RX 0.3 ef R Progeny P4994RX 0.2 ef R Progeny P4994RX 0.2 ef R Terral REV 4857X 0.0 f R Terral REV 4857X 0.0 f R Terral REV 48626 1.3 def R Terral REV 4957X 0.0 f R Univ. of Missouri S14-15138R 0.0 f R Univ. of Missouri S14-9051R 0.0 f R <td></td> <td></td> <td></td>			
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MorSoy MS 4846 RXT 0.2 ef R NK Seeds S48-R2X 0.0 f R Petrus Seed 479 GTS 1.5 def R Petrus Seed 4916 GT 4.8 ab MS Pioneer 48A32X 0.0 f R Pioneer P48A60X 0.0 f R Progeny P4757RY 0.3 ef R Progeny P4799RXS 0.0 f R Progeny P4816RX 0.0 f R Progeny P4851RX 0.0 f R Progeny P4994RX 0.3 ef R Progeny P4994RX 0.2 ef R Terral REV 47A98 0.0 f R Terral REV 4857X 0.0 f R Terral REV 48426 1.3 def R Terral REV 48A26 1.3 def R Univ. of Missouri S14-15138R 0.0 f R Univ. of Missouri S14-9051R 0.0 f R USG 7496XT 0.0 f R USG 75496XT 0.0 f R USG 75905 1.7 R USO 505			
NK Seeds S48-R2X 0.0 f R Petrus Seed 479 GTS 1.5 def R Petrus Seed 4916 GT 4.8 ab MS Pioneer 48A32X 0.0 f R Pioneer P48A60X 0.0 f R Progeny P4757RY 0.3 ef R Progeny P4799RXS 0.0 f R Progeny P481RX 0.0 f R Progeny P4851RX 0.3 ef R Progeny P4994RX 0.3 ef R Progeny P4994RX 0.2 ef R Terral REV 47A98 0.0 f R Terral REV 4857X 0.0 f R Terral REV 4826 1.3 def R Terral REV 4927X 1.2 def R Univ. of Missouri S14-15138R 0.0 f R Univ. of Missouri S14-9051R 0.0 f R USG 7498XT 0.0 f R USG 7496XT 0.0 f R USG 7596XT 0.0 f R USG 7596XT 0.0 f R USG 7596XT			
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Pioneer 48A32X 0.0 f R Pioneer P48A60X 0.0 f R Progeny P4757RY 0.3 ef R Progeny P4799RXS 0.0 f R Progeny P4816RX 0.0 f R Progeny P4851RX 0.0 f R Progeny P4955X 0.3 ef R Progeny P4994X 0.2 ef R Terral REV 47A98 0.0 f R Terral REV 4857X 0.0 f R Terral REV 48A26 1.3 def R Univ. of Missouri S14-15138R 0.0 f R Univ. of Missouri S14-9051R 0.0 f R USG 7489XT 0.0 f R USG 7496XT 0.0 f R USD (0.05) 1.7 CV (%) 183.0			
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Terral REV 4927X 1.2 def R Univ. of Missouri S14-15138R 0.0 f R Univ. of Missouri S14-9051R 0.0 f R USG 7489XT 0.0 f R USG 7496XT 0.0 f R LSD (0.05) 1.7 CV (%) 183.0			
Univ. of Missouri S14-15138R 0.0 f R Univ. of Missouri S14-9051R 0.0 f R USG 7489XT 0.0 f R USG 7496XT 0.0 f R LSD (0.05) 1.7 CV (%) 183.0			
Univ. of Missouri S14-9051R 0.0 f R USG 7489XT 0.0 f R USG 7496XT 0.0 f R LSD (0.05) 1.7 CV (%) 183.0			
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USG 7496XT 0.0 f R LSD (0.05) 1.7 CV (%) 183.0			
LSD (0.05) 1.7 CV (%) 183.0			
CV (%) 183.0			К
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P-value for F-statistic <0.0001			
	P-value for F-statistic	<0.0001	

'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.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By 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 Early Soybean Cultivars to Stem Canker, 2018.							
Cultivar	r Stem canker rating ^{1,2}						
Great Heart Seed GT-5022XS (check)	2.8 d	MR					
Armor ARX5107 (2017 check)	4.9 bc	MS					
Asgrow AG51X8 (2017 check)	6.4 a	MS					
AgriGold G5000RX	0.2 e	R					
AgriGold G5288RX	0.0 e	R					
AĞS GS 51X18S	0.0 e	R					
Armor 53-D04	0.0 e	R					
Armor X50D13	0.0 e	R					
Armor X51D77	0.0 e	R					
Armor X52D71	0.1 e	R					
Armor X55D57	0.0 e	R					
Asgrow AG52X9	0.4 e	R					
Asgrow AG53X9	0.2 e	R					
Asgrow AG54X9	0.2 e	R					
Asgrow AG55X7	0.3 e	R					
Croplan(Mid-south) RX 5016 S	0.0 e	 R					
Delta Grow DG 5170 RR2/STS	0.5 e	 R					
Delta Grow DG 52X15 Xtend	0.0 e	 R					
Dyna-Gro S52XT08	0.5 e	 R					
Dyna-Gro S56XT99	0.0 e	 R					
Dyna-Gro SX18652XS	0.2 e	 R					
Dyna-Gro SX18854XT	0.1 e	 R					
GoSoy 50G17	0.9 e	R					
GoSoy 54G16	5.5 ab	MS					
Great Heart GT-5324X	0.0 e	R					
Local Seed Co. LS5087X	0.3 e	R					
NK Seeds S50-G9XS	1.0 e	R					
NK Seeds S52Y7X	0.6 e	R					
NK Seeds S56B7X	0.0 e						
Pioneer 54A54X	0.3 e	R					
Pioneer 55A49X	0.3 e	R					
Pioneer P54A75X	0.1 e						
Progeny P5016RXS	0.7 e	R					
Progeny P5018RX	0.0 e	R					
Progeny P5226RYS	0.0 e	R					
Progeny P5252RX	0.0 e	R					
Progeny P5279RXS	0.4 e	R					
Progeny P5554RX	0.0 e	R					
Progeny P5688RX	4.0 c	R					
Terral REV 51A56	0.5 e	R					
Terral REV 52A98	0.5 e						
Terral REV 55A67	0.4 e	R					
TOTAL NEV JOAU	0.U U	n					

'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.

0.1 e

0.2 e

0.0 e

< 0.0001

1.0

112.3

R

R

R

Terral REV 56A58

P-value for F-statistic

LSD (0.05)

CV (%)

Univ. of Arkansas R14-14797 RR

Univ. of Missouri S14-9017R

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By 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	Resnonse	of Maturity	Groun	V I ate	Sovhean	Cultivare	to Stem	Canker	2018
I avic oz.	HESPUISE	or maturity	uruup	v Laic	JUYUCAII	UUILIVAIS	iu oltiii	valikti,	ZU 10.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³	
Dyna-Gro S57RY26 (check)	0.1	R	
Univ. of Arkansas UA 5715GT (R07-6614RR) (2017 check)	0.2	R	
USG 75B75R (2017 check)	0.4	R	
Progeny P5752RY	0.3	R	
USG 75B75R	0.3	R	
LSD (0.05)	0.6		
CV (%)	176.8		
P-value for F-statistic	0.8716		

'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.

Table 83. Response o	of Maturity Group IV LibertyLink Soybean Cu	ltivars to Stem Canker, 2018.	
Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³	
Dyna-Gro 4567LL (check)	4.2 a	MR	
Delta Grow DG4781 LL (2017 check)	1.5 bcd	R	
Credenz CZ 3601 LL	2.6 ab	MR	
Credenz CZ 3841 LL	2.0 bc	R	
Credenz CZ 4105 LL	1.6 bcd	R	
Credenz CZ 4222 LL	1.4 bcd	R	
Credenz CZ 4308 LL	0.8 cd	R	
Credenz CZ 4540 LL	0.0 d	R	
Credenz CZ 4548 LL	0.0 d	R	
Credenz CZ 4649 LL	0.6 cd	R	
Credenz CZ 4748 LL	1.2 bcd	R	
Credenz CZ 4820 LL	1.0 cd	R	
Credenz CZ 4918 LL	0.5 cd	R	
Credenz CZ 4938 LL	0.0 d	R	
Delta Grow DG 4587 LL/STS	0.0 d	R	
Delta Grow DG 4977 LL/STS	1.5 bcd	R	
Dyna-Gro S45LL97	0.0 d	R	
Dyna-Gro S49LL34	0.0 d	R	
GoSoy 49L17	0.1 d	R	
Pioneer P44A08L	0.2 d	R	
Pioneer P47A76L	0.0 d	R	
Terral REV 46L99	0.4 cd	R	
Terral REV 47L38	0.0 d	R	
Terral REV 49L88	0.0 d	R	
LSD (0.05)	1.6		
CV (%)	144.7		
P-value for F-statistic	<0.0001		

'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.

Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 84. Response of Maturity Group V LibertyLink Soybean Cultivars to Stem Canker, 2018.							
Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³					
Dyna-Gro 4567LL (check)	1.3	R					
Dyna-Gro S52LL66 (2017 check)	0.1	R					
Dyna-Gro S55LS75 (2017 check)	0.3	R					
Credenz CZ 5147 LL	0.0	R					
Credenz CZ 5150 LL	0.0	R					
Credenz CZ 5225 LL	0.0	R					
Credenz CZ 5242 LL	0.0	R					
Credenz CZ 5328 LL	0.0	R					
Credenz CZ 5445 LL	0.3	R					
GoSoy 5115LL	0.5	R					
LSD (0.05)	0.9						
CV (%)	249.7						

'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.

0.1128

Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

Table 85. Response of N	laturity Group IV Conventional Soybean C	ultivars to Stem Canker, 2018.
ivar -339 (check) . of Missouri S14-6391C (2017 check) le Seeds 2987331 le Seeds 2987416 oy 43C17S oy 43C17S oy E4510S oy Ireane . of Missouri S13-10590C . of Missouri S13-10592C . of Missouri S13-2743C . of Missouri S13-3851C (0.05) %)	Stem canker rating ^{1,2}	Cultivar designation ³
J77-339 (check)	2.7 abc	MR
Univ. of Missouri S14-6391C (2017 check)	0.5 bcd	R
Virtue Seeds 2987331	0.6 a-d	R
Virtue Seeds 2987416	0.1 d	R
GoSoy 43C17S	3.2 a	MR
GoSoy E4510S	3.1 a	MR
GoSoy Ireane	0.0 d	R
Univ. of Missouri S13-10590C	3.0 ab	MR
Univ. of Missouri S13-10592C	0.6 a-d	R
Univ. of Missouri S13-2743C	0.3 cd	R
Univ. of Missouri S13-3851C	2.3 a-d	R
LSD (0.05)	2.6	
CV (%)	121.2	
P-value for F-statistic	0.0436	

'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.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible, and 7 = Susceptible.

P-value for F-statistic

Table 86. Response of Maturity Gi	roup V Conventional Soybean Cultivars t	o Stem Canker, 2018.
	Stem canker rating ^{1,2}	Cultivar designation ³

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
J77-339 (check)	4.0 a	MR
Univ. of Missouri S11-17025 (2017 check)	1.9 bc	R
GoSoy 51C17	0.2 c	R
GoSoy 53C16	1.3 bc	R
GoSoy 56C16	0.2 c	R
Univ. of Missouri M05201D CONV	0.0 c	R
Univ. of Missouri S11-20242C	2.2 ab	R
Univ. of Missouri S13-1955C	1.6 bc	R
Univ. of Missouri S15-10434C	1.6 bc	R
LSD (0.05)	2.0	
CV (%)	95.0	
P-value for F-statistic	0.0101	

1Stem 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.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD (P=0.05).

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 87. Plant Characteristics of Maturity Group IV Early Roundup Ready Soybean Varieties.								
Brand	Variety	Seeds ¹	Seeds ¹ Grow						
	•	Bloom	Pubescence	Pod wall	Hilum		D/I²	RM ³	
AgriGold	G4605RX	Purple	Tan	Tawnv	Black	2520	_	4.6	
AgriGold	G4440RX	Purple	Brown	Gray	Black	2921	_	4.4	
AgriGold	G4579RX	Purple	Gray	Brown	Black	2614	_	4.5	
AGS	GS 46X17	Purple	Brown	Light Tawny	Black	2636	_	4.6	
Armor	42-D27				_	2650	_	4.2	
Armor	X45D50	_	_	_	_	2979	_	4.5	
Armor	X46D63		_	_	_	2620	_	4.6	
Asgrow	AG42X9	Purple	Brown	Tawny	Black	2590	_	4.2	
Asgrow	AG43X7	Purple	Brown	Light Tawny	Black	2750	_	4.3	
Asgrow	AG43X8	White	Brown	Light Tawny	Black	2600		4.3	
Asgrow	AG45X8	Purple	Brown	Light Tawny	Black	2890		4.5	
Asgrow	AG46X6	Purple	Brown	Tawny	Black	2350		4.6	
Cropland	RX 4217 S	White	Tan	Gray	Buff	3270	1	4.2	
Cropland	RX 4500 S	Purple	Brown	Light Tawny	Black	2940	· ·	4.5	
Croplan	RX4687S	White	Brown	Light Tawny	Black	2540	 D/I	4.6	
Delta Grow	DG 4670 RR2	Purple	Brown	Light Tawny	Black	2430	I	4.6	
Delta Grow	DG 46X25RR2 Xtend		Brown	Light Tawny	Black	2925	<u>!</u>	4.6	
Dyna-Gro	S41XS98				Imp. Black	2872	<u> </u>	4.0	
,		Purple	Tan	Gray			l l		
Dyna-Gro	S45XS37	White	Brown	Tawny	Black	3281	<u>!</u>	4.5	
Dyna-Gro	S45XS66	Purple	Brown	Light Tawny	Black	2917	<u> </u>	4.5	
Dyna-Gro	SX18845XT	Purple	Brown	Light Tawny	Black	2857	<u>!</u>	4.5	
Great Heart Seed	GT-4628X	Purple		Tawny	Black	2584	<u> </u>	4.6	
Great Heart Seed	GT-4685XS	Purple		Gray	Buff	2583	l	4.6	
Local Seed Co.	LS4487XS	Purple		Light Tawny	Black	3071		4.4	
Local Seed Co.	LS4677X	_		_	_	2986	_	4.6	
Local Seed Co.	LS4565XS	White	_	Tawny	Black	2826	_	4.5	
Local Seed Co.	LS4583X	Purple	_	Light Tawny	Black	2883	_	4.5	
Local Seed Co.	LS4689X	Purple	_	Tawny	Black	2468	_	4.6	
Mission Seed Solutions	A4447NSXR2	Purple	Brown	Light Tawny	Black	2800	[4.4	
Mission Seed Solutions	A4637NSXR2	White	Brown	Light Tawny	Black	2800	I	4.6	
Mission Seed Solutions	A4608X	Purple	Tan	Tawny	Black	2700	I	4.6	
Mission Seed Solutions	A4618X	Purple	Brown	Gray	Buff	2800	I	4.6	
MorSoy	MS 4426 RXT	White	Brown	Light Tawny	Black	3009	_	4.4	
MorSoy	MS 4616 RXT	White	Brown	Tawny	Black	3095	_	4.6	
NK Seeds	S43-V3X	Purple	Tan	Light Tawny	Black	2952	_	4.3	
NK Seeds	S45-J3X	Purple	Brown	Gray	Black	2728	_	4.5	
NK Seeds	S45-K5X	Purple	Tan	Light Tawny	Brown	2778		4.5	
Pioneer	P42A96X	White	Tan	Light Tawny	Tan	2720		4.2	
Pioneer	P46A57BX	White	Brown	Light Tawny	Brown	2960	_	4.6	
Pioneer	P46A16R	White	Brown	Gray	Buff	2920	_	4.6	
Progeny Ag.	P4255RX	Purple	Tan	Gray	Imp. Black	2995		4.0	
Progeny Ag.	P4318RX	White	Tan	Gray	Buff	3304		4.2	
Progeny Ag.	P4444RXS	Purple	Brown	Light Tawny	Black	2802		4.4	
Progeny Ag. Progeny Ag.	P4570RXS	Purple	Brown	Gray	Buff	2618	_	4.4	
	P4620RXS	White	Brown		Black	2869	_	4.5	
Progeny Ag.				Tawny	***				
Terral	REV 4679X	Purple	Tan	Tawny	Black	2951	!	4.6	
U. of Missouri	S14-15146R	White	Tan	Tawny	Black	2890	1	4.6	
USG	7447XTS	White	Brown	Light Tawny	Black	2934	I	4.4	

 $^{^1}$ Represents an average number of seed per pound; seed may vary according to season and location. 2 D = determinate; I = indeterminate.

³Relative 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.

Brand	Variety		Col	or		Seeds ¹ Gro		wth
2.4		Bloom	Pubescence	Pod wall	Hilum	33323	D/I ²	RM ³
AgriGold	G4995RX	Purple	Tan	Light Tawny	Black	2754	_	4.9
AGS	GS 48X18	White	Tan	Light Tawny	Black	3200	_	4.8
Armor	X47D22	_	_		_	3000	_	4.7
Armor	X49D31	_	_	_	_	2952	_	4.9
Armor	X48D02	_	_	_	_	2500	_	4.8
Asgrow	AG47X9	Purple	Brown	Light Tawny	Black	3000	_	4.7
Asgrow	AG48X9	Purple	Tan	Light Tawny	Black	2500	_	4.8
Asgrow	AG49X9	Purple	Brown	Light Tawny	Black	2470	_	4.9
Croplan	RX4825	Purple	Tan	Light Tawny	Black	2190	D/I	4.8
Croplan	RX4927	Purple	Brown	Light Tawny	Black	2425	l	4.9
Delta Grow	DG 48X45RR2 Xtend	Purple	Tan	Light Tawny	Black	2809	l	4.8
Delta Grow	DG 4790 RR2	White	Brown	Light Tawny	Black	2848		4.7
Dyna-Gro	S48XT56	Purple	Tan	Light Tawny	Black	2356	I	4.8
Dyna-Gro	S49XT39	Purple	Brown	Gray	Imp. Black	2887	l	4.9
GoSoy	49G16	Purple	Tan	Tawny	Black	3477	_	4.9
Great Heart Seed	GT-4721X	Purple	_	Light Tawny	Black	2600	l	4.7
Great Heart Seed	GT-4833XS	Purple	_	Light Tawny	Black	2454	1	4.8
Great Heart Seed	GT-4979X	Purple	_	Light Tawny	Black	2649		4.9
Great Heart Seed	GT-4809X	White	_	Light Tawny	Black	3335		4.8
Local Seed Co.	AV47W2X	White	_	Gray	Buff	3057		4.7
Local Seed Co.	LS4966X	Purple	_	Light Tawny	Black	2352	_	4.8
Local Seed Co.	LS4889XS	Purple	_	Light Tawny	Black	2484	_	4.8
Local Seed Co.	AV49W3X		_		_	2753		4.9
Local Seed Co.	LS4968XS	Purple	_	Light Tawny	Black	2716		4.9
Local Seed Co.	L4988X	Purple	_	Grav	Imp. Black	2708	_	4.9
Mission Seed Solutions	MEX4908	Purple	Tan	Light Tawny	Black	2800	1	4.9
Mission Seed Solutions	MEX4808	Purple	Brown	Light Tawny	Black	2600	I	4.8
MorSoy	MS 4846 RXT	Purple	Tan	Light Tawny	Black	2170	D/I	4.8
NK Seeds	S48-R2X	Purple	Tan	Light Tawny	Black	2976		4.8
Petrus Seed	479 GTS	White	Tan	Tawny	Black	3200		4.7
Petrus Seed	4916 GT	Purple	Tan	Tawny	Black	3300	D/I	4.9
Pioneer	P46A60X	Purple	Brown	Light Tawny	Black	2975		4.8
Progeny Ag.	P4757RY	White	Brown	Light Tawny	Black	2505	_	4.7
Progeny Ag.	P4799RXS	White	Brown	Light Tawny	Black	2478	_	4.7
Progeny Ag.	P4816RX	Purple	Tan	Light Tawny	Black	2240		4.8
Progeny Ag.	P4851RX	Purple	Brown	Light Tawny	Black	2641		4.8
Progeny Ag.	P4955RX	Purple	Brown	Gray	Imp. Black	2834		4.9
Progeny Ag.	P4994RX	White	Brown	Light Tawny	Brown	2494	_	4.9
Terral	REV 4927X	Purple	Brown	Light Tan	Black	2886		4.9
Terral	REV 4857X	White	Brown	Gray	Black	3018		4.8
Terral	REV 48A26	Purple	Brown	Light Tan	Black	2660		4.8
Terral	REV 47A98	White	Brown	Gray	Buff	2437		4.7
U. of Missouri	S14-9051R	White	Tan	Gray	Buff	2785		4.7
U. of Missouri	S14-15138R	White	Tan	Tawny	Black	2835	i	4.8
USG	7489XT	Purple	Tan	Light Tawny	Black	2319		4.8
USG	7496XTS	Purple	Brown	Light Tawny	Black	2609	i	4.9

 1 Represents an average number of seed per pound; seed may vary according to season and location. 2 D = determinate; I = indeterminate.

³Relative 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.

Brand	Variety	Color				Seeds ¹	Growth		
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³	
AgriGold	G5000RX	Purple	Brown	Light Tawny	Black	2929	_	5	
AgriGold	G5288RX	Purple	Tan	Light Tawny	Black	2770	_	5.2	
AGS	GS 51X18S	White	Tan	Gray	Imp. Black	3172	_	5.1	
Armor	X50D13	_	_	_	_	2770	_	5	
Armor	X51D77	_	_	_	_	3088	_	5.1	
Armor	X52D71	_	_	_	_	2796	_	5.3	
Armor	X55D57	_	_	_	_	2564	_	5.5	
Asgrow	AG52X9	Purple	Tan	Light Tawny	Black	2790	_	5.2	
Asgrow	AG53X9	Purple	Tan	Gray	Imp. Black	2520	_	5.3	
Asgrow	AG54X9	Purple	Brown	Tawny	Black	2680		5.4	
Asgrow	AG55X7	White	Tan	Tawny	Black	2880	_	5.5	
Cropland	RX 5016 S	Purple	Brown	Light Tawny	Black	2930	1	5	
Delta Grow	DG 5170 RR2/STS	Purple	Tan	Light Tawny	Black	2565	i	5.1	
Delta Grow	DG 52X15 Xtend	—		— —	_	2619	<u> </u>		
Dyna-Gro	S52XT08	White	Brown	Tawnv	Black	2705	D	5.2	
Dyna-Gro	SX18854XT	Purple	Tan	Tawny	Black	2518	D	5.4	
Dyna-Gro	S56XT99	White	Tan	Tawny	Black	2470	D	5.6	
Dyna-Gro	SX18652XS	White	Tan	Gray	Buff	2816	ı	5.2	
GoSov	50G17	Purple	Tan	Tawny	Black	2802	<u> </u>	5	
GoSoy	54G16	— —	— Tun	— Tuvily		2709		5.4	
Great Heart Seed	GT-5324X	White		Light Tawny	Black	2824	1	5.3	
Local Seed Co.	LS5087X	Purple		Light Tawny	Black	2731	<u> </u>	5.0	
NK Seeds	S50-G9XS	Purple	Tan	Light Tawny	Black	2623		5.0	
Pioneer	P54A75X	White	Brown	Tan	Brown	2870		5.4	
Progeny Ag	P5016RXS	Purple	Brown	Light Tawny	Black	2955		5	
Progeny Ag	P5018RX	Purple	Tan	Light Tawny	Black	2563		5	
Progeny Ag	P5226RYS	Purple	Tan	Light Tawny	Black	2603		5.2	
Progeny Ag	P5252RX	White	Tan	Gray	Buff	2626	_	5.2	
Progeny Ag	P5279RXS	Purple	Brown	Gray	Imp. Black	2682	<u> </u>	5.2	
	P5554RX	White	Tan	Tawny	Black	2439		5.5	
Progeny Ag	P5688RX		**			2528			
Progeny Ag	REV 51A56	White	Brown	Tawny	Black	2528		5.6 5.1	
Terral		Purple	Brown	Tawny	Black		I		
Terral	REV 52A98	White	Tan	Tawny	Black	2781	D	5.2	
Terral	REV 55A67	White	Brown	Tawny	Black	3054	D	5.5	
Terral	REV 56A58	Purple	Brown	Light Tan	Black	2715	D	5.6	
U. of Arkansas	R14-14797 RR	Purple	Tan	Tawny	Black	3450		5.2	
U. of Missouri	S14-9017R	White	Tan	Light Tawny	Black	2855		5.3	

Represents an average number of seed per pound; seed may vary according to season and location. $^2D = determinate$; I = indeterminate.

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 V Late Roundup Ready Soybean Varieties.								
Brand	Variety		Color				Gro	wth
		Bloom	Pubescence	Pod wall	Hilum		D/I²	RM ³
Progeny Ag	P5752RY	Purple	Tan	Tawny	Brown	2764	_	5.7
USG	75B75R	Purple	Tan	Tawny	Brown	2820	D	5.7

Represents an average number of seed per pound; seed may vary according to season and location. $^2D = determinate$; I = indeterminate.

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 IV LibertyLink Soybean Varieties.								
Brand	Variety	Color				Seeds ¹	Gro	irowth
		Bloom	Pubescence	Pod wall	Hilum		D/I²	RM ³
Credenz	CZ 4308 LL	Purple	Tan	Light Tawny	Black	2850	1	4.3
Credenz	CZ 4540 LL	White	Tan	Light Tawny	Black	3150	I	4.5
Credenz	CZ 4548 LL	Purple	Brown	Light Tawny	Black	3300	[4.5
Credenz	CZ 4748 LL	White	Brown	Light Tawny	Black	2750	I	4.7
Credenz	CZ 4820 LL	White	Brown	Light Tawny	Black	2670	I	4.8
Credenz	CZ 4918 LL	Purple	Brown	Light Tawny	Black	2725	[4.9
Credenz	CZ 4938 LL	Purple	Tan	Light Tawny	Imp. Black	2770	I	4.9
Credenz	CZ 3841 LL		_		_	2480	I	3.8
Credenz	CZ 4222 LL	Purple	Brown	Light Tawny	Black	3010	I	4.2
Credenz	CZ 4105 LL	White	Brown	Light Tawny	Black	2700	I	4.1
Credenz	CZ 3601 LL	_	_	_	_	2350	_	3.6
Credenz	CZ 4649 LL	Purple	Tan	Gray	Buff	2640	[4.6
Delta Grow	DG 4977 LL/STS	Purple	Tan	Gray	Imp. Black	2827	I	4.9
Delta Grow	DG 4582 LL/STS	Purple	Brown	Light Tawny	Black	3138	[4.5
Dyna-Gro	S45LL97	White	Brown	Gray	Buff	3505	[4.5
Dyna-Gro	S49LL34	Purple	Tan	Gray	Imp. Black	2874	I	4.9
Pioneer	P44A08L	White	Brown	Light Tawny	Imp. Black	2808	_	4.4
Pioneer	P47A76L	Purple	Tan	Tawny	Black	2761	_	4.7
Terral	REV 47L38	Purple	Tan	Tawny	Black	2663	I	4.7
Terral	REV 49L88	White	Brown	Tawny	Black	2703	1	4.9
Terral	REV 46L99	White	Brown	Light Tan	Black	2500	I	4.6

¹Represents an average number of seed per pound; seed may vary according to season and location.

³Relative 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 92. Plant Characteristics of Maturity Group V LibertyLink Soybean Varieties.									
Brand	Variety Color Seeds ¹							Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I²	RM ³	
Credenz	CZ 5147 LL	Purple	Tan	Tawny	Black	3200	D	5.1	
Credenz	CZ 5150 LL	Purple	Tan	Gray	Imp. Black	3025	D/I	5.1	
Credenz	CZ 5225 LL	_	_	Tawny	_	2825	D	5.2	
Credenz	CZ 5242 LL	Purple	Tan	Gray	Imp. Black	3350	D/I	5.2	
Credenz	CZ 5445 LL	_	_	Tawny	_	3250	D	5.4	
Credenz	CZ 5328 LL	_	_	_	_	2525	D	5.3	

¹Represents an average number of seed per pound; seed may vary according to season and location.

 $^{^{2}}D = determinate; I = indeterminate.$

 $^{^{2}}D = determinate; I = indeterminate.$

³Relative 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 93. Plant Characteristics of Maturity Group IV Conventional Soybean Varieties.								
Brand	Variety		Col	or	Seeds ¹	Gro	wth	
		Bloom	Pubescence	Pod wall	Hilum		D/I²	RM ³
Virtue Seeds	2987416	White	Tan	Light Tawny	Black	2840	_	4.5
Virtue Seeds	2987331	White	Tan	Light Tawny	Brown	2726	_	4.7
GoSoy	43C17S	Purple	Brown	Tawny	Black	2886	_	4.3
GoSoy	E4510S	Purple	Brown	Tawny	Black	2306	_	4.5
GoSoy	Ireane	White	Tan	Gray	Buff	3000	_	4.9
U. of Missouri	S13-2743C	White	Gray	Tan	Buff	2965	ı	4.3
U. of Missouri	S13-10590C	White	Tan	Tawny	Black	2820	I	4.3
U. of Missouri	S13-3851C	Purple	Tan	Light Tawny	Black	3290		4.4
U. of Missouri	S13-10592C	White	Tan	Tawny	Black	2820		4.5

¹Represents an average number of seed per pound; seed may vary according to season and location.

³Relative 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 94. Plant Characteristics of Maturity Group V Conventional Soybean Varieties.								
Brand	Variety		Col	or		Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I²	RM ³
GoSoy	51C17	Purple	Tan	Gray	Imp. Black	3093	_	5.1
GoSoy	53C16	Purple	Tan	Tawny	Black	2457	_	5.3
GoSoy	56C16	White	Tan	Gray	Buff	3092	_	5.6
U. of Missouri	S11-20242C	White	Tan	Tawny	Black	3520	D/I	5.1
U. of Missouri	M05201D CONV	White	Tan	Light Tawny	Black	3265	D	5.3
U. of Missouri	S13-1955C	White	Tan	Tawny	Black	3195	D	5.5
U. of Missouri	S15-10434C	Purple	Tan	Tawny	Black	3750	_	5.5

¹Represents an average number of seed per pound; seed may vary according to season and location.

 $^{^{2}}D = determinate; I = indeterminate.$

²D = determinate; I = indeterminate.

³Relative 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

UA 5814HP

OSAGE

R11-7999

R11-8346

R09-430

UA 5414RR

UA 5715GT

Seed Treatment - Apron Maxx

University of Missouri

S13-2743C

S13-10590C

S13-3851C

S14-9051R

S14-15146R

S14-6391C

S13-1805C

S14-9017R

S13-1955C

Seed Treatment - CruiserMaxx Advanced

USDA Agricultural Research Service – Tennessee

JTN-5110

Seed Treatment - Apron Maxx + moly and Gaucho 600

Commercial Varieties Entered

Company		Variety		Seed treatment	
Armor Seed LLC	Armor	42-D27	Armor	X49D31	
183 Pennsylvania Ave.	Armor	X45D50	Armor	X50D13	
Waldenburg, AR 72475	Armor	X46D63	Armor	X51D77	
3, 1 = 1 = 1 = 1	Armor	X47D22	Armor	X52D71	
	Armor	X48D02	Armor	X55D57	
Bayer CropScience	Credenz	CZ 4308 LL	Credenz	CZ 5147 LL	Poncho Votivo + Trilex 2000 + iLevo
3694 Sparta Rd.	Credenz	CZ 4540 LL	Credenz	CZ 5150 LL	TOTIONO VOLIVO T TITIOX 2000 T ILOVO
Holcomb, MS 38940	Credenz	CZ 4548 LL	Credenz	CZ 5225 LL	
Tiologins, No oco-to	Credenz	CZ 4649 LL	Credenz	CZ 5242 LL	
	Credenz	CZ 4748 LL	Credenz	CZ 5328 LL	
	Credenz	CZ 4820 LL	Credenz	CZ 5445 LL	
	Credenz	CZ 4918 LL	Credenz	CZ 3841	
	Credenz	CZ 4938 LL	Credenz	CZ 4222 LL	
Petrus Seed and Grain Co. Inc. 4100 Hanson Rd. Hazen, AR 72064	Petrus Seed	479 GTS	Petrus Seed	4916 GT	Innovate
Delta Grow Seed	Delta Grow	DG 4670 RR2	Delta Grow	DG 4582 LL/STS	CruiserMAXX
P.O. Box 219	Delta Grow	DG 4790 RR2	Delta Grow	DG46X25RR2XTend	Graidenta var
England, AR 72046	Delta Grow	DG 5170 RR2/STS	Delta Grow	DG48x45RR2XTend	
	Delta Grow	DG 4977 LL/STS	Delta Grow	DG52x15 Xtend	
Dvna-Gro Seed	Dyna-Gro	S41XS98	Dyna-Gro	S52XT08	Equity VIP
125 Robinson Rd.	Dyna-Gro	S45XS37	Dyna-Gro	SX18652XS	_q,
Houston, MS 38851	Dyna-Gro	S45XS66	Dyna-Gro	SX18854XT	
Tiodotori, Mo coco i	Dyna-Gro	SX18845XT	Dyna-Gro	S56XT99	
	Dyna-Gro	S48XT56	Dyna-Gro	S45LL97	
	Dyna-Gro	S49XT39	Dyna-Gro	S49LL34	
Great Heart Seed	Great Heart Seed	GT-4628X	Great Heart Seed	GT-4979X	Great Start Max
220 West Washington St.	Great Heart Seed	GT-4721X	Great Heart Seed	GT-5324X	Grout Ottal t With
Paris, IL 61944	Great Heart Seed	GT-4685XS	Great Heart Seed	GT-4809X	
Tullo, IL 01044	Great Heart Seed	GT-4833XS	arout riourt oood	G1 4000A	
Monsanto	Asgrow	AG42X9	Asgrow	AG48X9	Poncho Votivo
800 N. Lindbergh Blvd.	Asgrow	AG43X7	Asgrow	AG49X9	
St. Louis, MO 63167	Asgrow	AG43X8	Asgrow	AG52X9	
	Asgrow	AG45X8	Asgrow	AG53X9	
	Asgrow	AG46X6	Asgrow	AG54X9	
	Asgrow	AG47X9	Asgrow	AG55X7	
Progeny Ag Products	Progeny	P4255RX	Progeny	P4994RX	
1529 Hwy. 193	Progeny	P4318RX	Progeny	P5016RXS	
Wynne, AR 72396	Progeny	P4444RXS	Progeny	P5018RX	
, , , , , , , , , , , , , , , , , , , ,	Progeny	P4570RXS	Progeny	P5226RYS	
	Progeny	P4620RXS	Progeny	P5252RX	
	Progeny	P4757RY	Progeny	P5279RXS	
	Progeny	P4799RXS	Progeny	P5554RX	
	Progeny	P4816RX	Progeny	P5688RX	
	Progeny	P4851RX	Progeny	P5752RY	
	Progeny	P4955RX	Progeny	P5016RXS	
DuPont Pioneer	Pioneer	P44A08L	Pioneer	P48A60X	Apron + Gaucho
59 Greif Parkway, Suite 200	Pioneer	P47A76L	Pioneer	P54A75X	•
Delaware, OH 43015	Pioneer	P42A96X	Pioneer	P46A16R	
	Pioneer	P46A57BX			
Stratton Seed Company	GoSoy	43C17S	GoSoy	49G16	CRUISERMAXX VIBRANCE
1530 Hwy. 79 South	GoSoy	E4510S	GoSoy	50G17	-
Stuttgart, AR 72160	GoSoy	Ireane	GoSoy	54G16	
<u>.</u>	GoSoy	51C17	AGS	GS 46X17	
	GoSoy	53C16	AGS	GS 48X18	
	GoSoy	56C16	AGS	GS 51X18S	
Terral Seed, Inc.	Terral	REV 48A26	Terral	REV 4857X	
	Terral	REV 47A98	Terral	REV 4927X	
		DIVETACE	Terral	REV 47L38	
	Terral	REV 51A56		DEL 401.00	
117 Ellington Dr. Rayville, LA 71269	Terral	REV 52A98	Terral	REV 49L88	
				REV 49L88 REV 46L99 REV 4679X	

UniSouth Genetics Inc. 3205-C Hwy. 46 South Dickson, TN 37055	USG USG	7489XT 7496XTS	USG USG	75B75R 7447XTS	lpconazole/Metalaxyl/Thiabendazole
Land O Lakes/Winfield/Croplan P.O. Box 64131 St. Paul, MN 55164-0131	Croplan Croplan Croplan	RX4687S RX4825 RX4927			Warden CX
AgriGold Hybrids 5381 Akin Rd. St. Francisville, IL 62460	AgriGold AgriGold AgriGold	G4440RX G4579RX G4605RX	AgriGold AgriGold AgriGold	G4995RX G5000RX G5288RX	AgriShield F+I
SeedKoz 1725 Windward Concourse Suite 410 Alpharetta, GA 30005	MorSoy MorSoy MorSoy	MS 4426 MS 4616 MS 4846			
Mission Seed Solutions 516 N. Sharpe Ave. Cleveland, MS 38732	Mission Seed Solutions Mission Seed Solutions Mission Seed Solutions	A4447NSXR2 A4637NSXR2 A4608X	Mission Seed Solutions Mission Seed Solutions Mission Seed Solutions	A4618X MEX4808 MEX4908	Revize PBI
Mid South Farmers Co-op 1192 Hwy. 45 Guntown, MS 38849	Cropland Cropland Cropland	RX4217 S RX4500 S RX5016 S			Warden CX
GDM Seeds Inc. 4003 Commercial Center Dr. Marion, AR 72364	Virtue Virtue	2987416 2987331			CruiserMAXX
Local Seed Company 802 Rozelle St. Memphis, TN 38104	Local Seed Co Local Seed Co Local Seed Co Local Seed Co Local Seed Co Local Seed Co	LS4487XS LS4677X LS4565XS LS4583X LS4689X AV47W2X	Local Seed Co Local Seed Co Local Seed Co Local Seed Co Local Seed Co Local Seed Co	LS4966X LS4889XS AV49W3X LS4968XS LS4988X LS5087X	TriusElite
NK Seeds 5210 State Road 945 Hickory, KY 42051	NK Seeds NK Seeds NK Seeds	S43-V3X S45-J3X S45-K5X	NK Seeds NK Seeds	S48-R2X S50-G9X	Clariva Complete + Mertect

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NOTICE TO USER

This information bulletin is a summary of research conducted under project number MIS 2348 at several 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 77-79 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 77-79.





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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