

MISSISSIPPI SOYBEAN

VARIETY TRIALS, 2020

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS



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This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Trade names of commercial products used in this report are included only for clarity and understanding.



Mississippi Soybean Variety Trials, 2020

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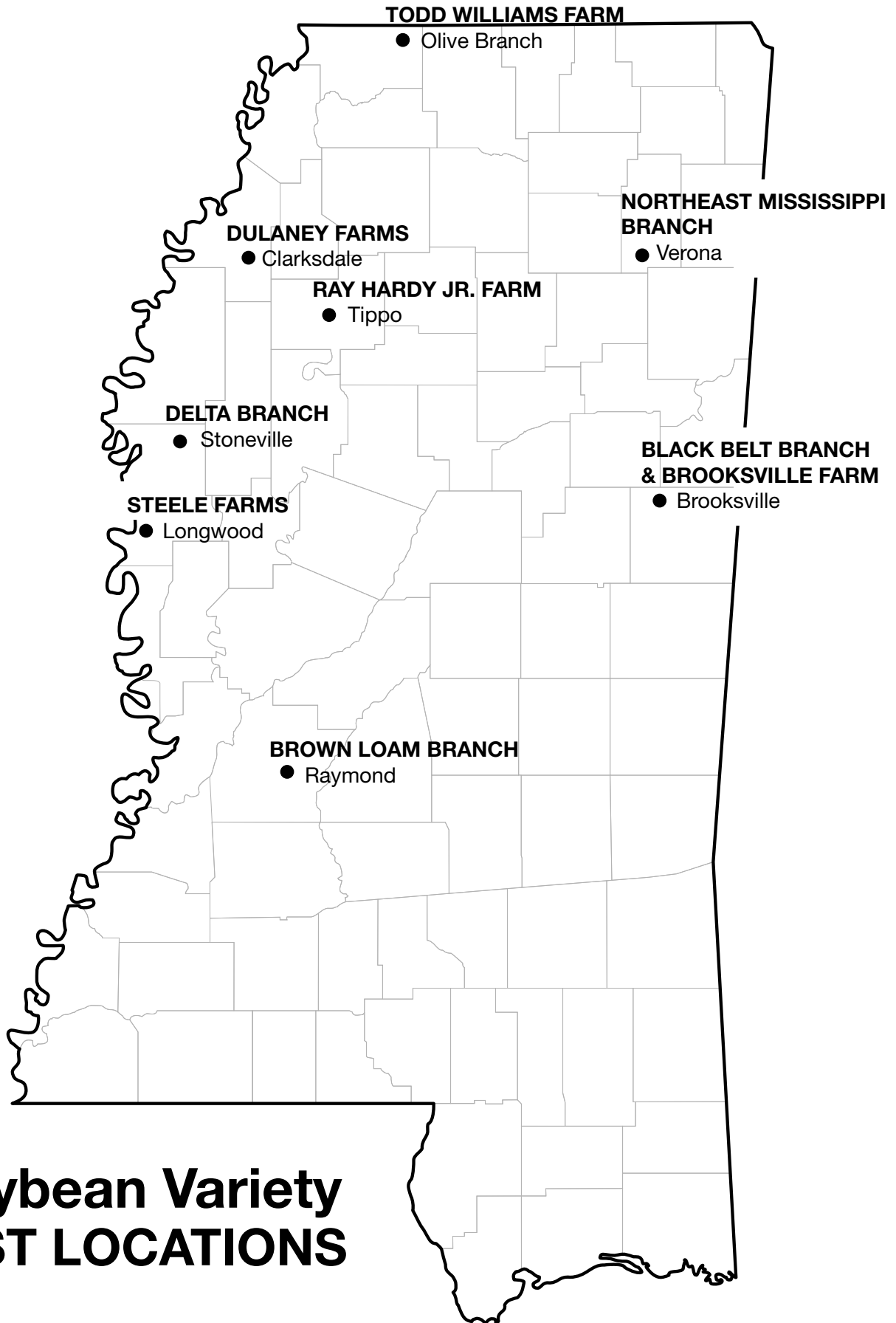
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Find variety trial information online at mafes.msstate.edu/variety-trials.



Soybean Variety TEST LOCATIONS

Contents

Introduction	1
Summary of Locations	4
Summary of Roundup Ready Yields by Maturity Group IV	
Roundup Ready Xtend Group IV — 1-, 2-, and 3-year	5
Enlist Group IV — 1-, 2-, and 3-year	9
Summary of Roundup Ready Yields by Maturity Group V	
Roundup Ready Xtend Group V — 1-, 2-, and 3-year	10
Enlist Group V — 1-, 2-, and 3-year	11
Summary of Roundup Ready, Liberty Link & Conventional Yields by Maturity Group IV	
Roundup Ready, Liberty Link & Conventional Group IV — 1-, 2-, and 3-year	12
Results	
Brooksville, Black Belt Branch	
Location 1. Brooksville silty clay nonirrigated 19" rows	14
Roundup Ready Xtend Group IV	15
Roundup Ready Xtend Group V	17
Roundup Ready, Liberty Link & Conventional Group IV	18
Brooksville, Brooksville Farm	
Location 2. Brooksville silty clay irrigated 30" rows	19
Roundup Ready Xtend Group IV	20
Enlist Group IV	22
Roundup Ready Xtend Group V	23
Enlist Group V	23
Clarksdale, Dulaney Farms	
Location 3. Dundee silty clay and Sharkey clay irrigated 30" rows	24
Roundup Ready Xtend Group IV	25
Roundup Ready Xtend Group V	27
Longwood, Steele Farms	
Location 4. Sharkey clay irrigated 19" rows	28
Roundup Ready Xtend Group IV	29
Roundup Ready Xtend Group V	31
Olive Branch, Todd Williams Farm	
Location 5. Collins silt loam and Falaya silty clay loam nonirrigated 19" rows	32
Roundup Ready Xtend Group IV	33
Enlist Group IV	35
Roundup Ready Xtend Group V	36
Enlist Group V	36
Raymond, Brown Loam Branch	
Location 6. Loring silt loam nonirrigated 19" rows	37
Roundup Ready Xtend Group IV	38
Enlist Group IV	40
Roundup Ready Xtend Group V	41
Enlist Group V	41
Stoneville (clay), Delta Branch	
Location 7. Tunica clay nonirrigated 19" Rows	42
Roundup Ready Xtend Group IV nonirrigated	43
Enlist Group IV nonirrigated	45
Stoneville (clay), Delta Branch	
Location 7. Sharkey clay irrigated 30" Rows	46
Roundup Ready Xtend Group IV irrigated	47
Enlist Group IV irrigated	49
Roundup Ready Xtend Group V irrigated	50
Enlist Group V irrigated	50
Roundup Ready, Liberty Link & Conventional Group IV irrigated	51
Stoneville (loam), Delta Branch	
Location 7. Bosket very fine sandy loam irrigated 30" rows	52
Roundup Ready Xtend Group IV	53
Enlist Group IV	55
Roundup Ready Xtend Group V	56
Enlist Group V	56
Tippo, Ray Hardy Jr. Farm	
Location 8. Dundee and Tensas silt loam nonirrigated 19" rows	57
Roundup Ready Xtend Group IV	58
Verona, Northeast Mississippi Branch	
Location 9. Leeper silty clay loam nonirrigated 19" rows	60
Roundup Ready Xtend Group IV	61
Enlist Group IV	63
Roundup Ready Xtend Group V	64
Enlist Group V	64
Roundup Ready, Liberty Link & Conventional Group IV	65
Plant Characteristics	66
2020 Soybean Variety Trial Stem Canker Report	70
Summary of Total Damage Kernel Totals (DKT)	77
Public Varieties Entered	80
Commercial Varieties Entered	81

Mississippi Soybean Variety Trials, 2020

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 2020 (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 or vacuum planter, depending on the location. Irrigated plots had four rows, spaced 30 inches apart; nonirrigated plots had three rows, spaced 19 inches apart. All irrigated plots were planted to a plot length of 15 feet by using a planter

with a cable trip system. All nonirrigated plots were planted to a length of 18 feet. Plot ends were trimmed to a uniform length 3 to 4 weeks after emergence.

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

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

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

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

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

How to Select Varieties

In Problem or Difficult Fields

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

(2) Use Tables 83 to 90 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 91 to 98 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 91 to 98, 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.

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. 2020 Soybean Locations.

Location	Planting dates	Harvest dates	Soil type	Row spacing	Irrigation
Brooksville (Not Irrigated), Black Belt Branch	4/27	9/30 (all IV), 10/15 (all V)	Brooksville silty clay	19"	No
Brooksville (Irrigated)	4/30	10/6 (all groups)	Brooksville silty clay	30"	Yes
Clarksdale (Irrigated)	5/5	10/7 (all groups)	Dundee silty clay and Sharkey clay	30"	Yes
Longwood (Irrigated)	5/4	10/8 (all groups)	Sharkey clay	19"	Yes
Olive Branch (Not Irrigated)	5/21	11/5 (all groups)	Collins silt loam and Falaya silty clay loam	19"	No
Raymond (Not Irrigated), Brown Loam Branch	5/11	10/21 (all groups)	Loring silt loam	19"	No
Stoneville-clay (Not Irrigated), Delta Branch	5/6	10/2 (all groups)	Tunica clay	19"	No
Stoneville-clay (Irrigated), Delta Branch	5/1	10/20 (all groups)	Commerce silty clay loam & Sharkey clay	30"	Yes
Stoneville-loam (Irrigated), Delta Branch	4/28	10/16 (all groups)	Bosket very fine sandy loam	30"	Yes
Tippo (Not Irrigated)	5/6	10/1 (all groups)	Dundee & Tensas silt loam	19"	No
Verona (Not Irrigated), Northeast MS Branch	5/7	10/14 (all groups)	Leeper silty clay loam	19"	No

Table 2. Summary of Yield for Maturity Group IV Early Roundup Ready Xtend for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Stone-ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
AgriGold	G4255RX	61.2	86.5	111.7	73.8	65.8	79.8	47.4	81.3	28.3	68.5	54.7	67.5	57.9	66.5
AgriGold	G4620RX	81.0	87.1	116.2	100.0	76.7	92.2	54.9	84.7	45.8	71.2	48.3	69.5	62.4	75.1
Armor	44-D92	58.5	83.8	106.9	87.5	59.4	79.2	48.3	85.3	34.0	68.5	56.6	66.7	59.9	67.0
Armor	46-D09	79.7	91.7	120.9	97.3	75.2	92.9	48.4	83.5	47.2	63.5	41.7	81.9	61.0	74.7
Armor	44-D49	78.4	94.5	121.9	96.4	71.1	92.5	63.2	95.8	55.6	64.8	50.8	86.3	69.4	78.3
Asgrow	AG46X6	75.7	99.3	116.7	87.2	77.0	91.2	39.4	89.5	46.6	66.1	53.4	72.0	61.2	73.4
Asgrow	AG45X8	62.1	86.7	112.8	86.9	64.5	82.6	48.7	80.9	36.4	64.4	48.9	69.5	58.1	68.1
Asgrow	AG43X0	68.6	83.4	100.8	77.7	76.5	81.4	44.5	82.8	35.4	67.1	50.6	66.2	57.8	67.1
Asgrow	AG46X0	75.7	91.8	116.2	98.1	81.7	92.7	40.7	91.8	48.7	70.6	43.9	72.8	61.4	74.0
Credenz	CZ 4570X	77.5	89.4	100.9	99.8	68.1	87.1	42.1	76.0	32.1	66.9	37.0	72.3	54.4	68.6
Credenz	CZ 4600X	75.6	88.6	110.9	90.7	68.3	86.8	50.8	78.7	31.6	65.9	44.6	69.4	56.8	69.6
Credenz	CZ 4280X	69.4	75.0	109.1	81.3	70.7	81.1	42.4	62.3	50.1	63.7	43.2	67.6	54.9	67.3
Credenz	CZ 4341X	68.0	80.4	90.0	83.4	59.5	76.3	33.5	82.6	46.7	59.3	46.7	66.5	55.9	63.4
Delta Grow	46X65/STS	86.9	94.0	103.2	95.3	69.0	89.7	53.3	87.3	40.8	73.3	49.7	66.6	61.8	73.2
Delta Grow	46X05/STS	71.7	92.0	118.2	98.9	65.5	89.2	37.9	80.5	49.3	76.1	61.7	74.0	63.2	74.5
Donmario Seeds	DM 45X61	74.8	92.2	123.2	92.2	74.6	91.4	50.9	78.2	45.6	74.6	51.2	83.0	63.9	76.2
Donmario Seeds	DM 44X31	81.5	89.1	110.4	90.9	76.9	89.8	45.0	84.8	48.4	63.1	38.7	78.8	59.8	72.3
Dyna-Gro	S45XS66	85.4	93.0	117.4	91.5	58.0	89.0	52.9	90.3	41.7	68.2	67.8	88.1	68.2	76.4
Dyna-Gro	S45XS37	72.7	90.2	123.9	91.8	73.0	90.3	51.3	77.5	46.4	69.1	57.7	86.4	64.7	76.2
Dyna-Gro	S46XS60	78.9	93.1	101.2	82.8	66.8	84.6	43.3	93.2	48.6	66.4	46.7	86.8	64.2	71.5
Great Heart Seed	GT-4677XS	81.3	97.1	106.6	97.8	75.6	91.7	48.9	77.3	44.0	57.2	54.6	81.1	60.5	74.4
LG Seeds	LGS4464RX	80.2	81.7	96.4	81.8	58.1	79.6	39.5	78.4	46.1	60.8	49.4	69.1	57.2	66.3
LG Seeds	LGS4632RX	77.1	97.4	118.4	102.2	67.3	92.5	52.4	86.8	51.2	70.1	56.4	81.5	66.4	77.4
Local Seed	LS4565X	63.1	91.0	122.2	85.9	68.5	86.1	60.0	81.2	51.5	73.7	65.4	83.6	69.2	76.5
Local Seed	LS4583X	77.1	89.4	116.2	100.1	79.0	92.4	49.1	82.5	46.8	66.7	48.0	87.5	63.4	76.0
Local Seed	LS4407X	76.9	88.5	99.9	88.8	79.5	86.7	39.1	82.2	54.6	55.4	38.4	75.4	57.5	69.7
Local Seed	LS4299XS	65.9	85.8	106.2	93.0	67.4	83.7	43.6	70.5	42.9	67.6	58.1	66.3	58.2	69.7
Local Seed	LS3976X	76.0	71.8	90.5	76.8	64.8	76.0	36.0	71.4	33.7	58.0	41.3	41.6	47.0	59.0
Mission Seed	A4448X	79.0	81.9	111.2	85.4	71.1	85.7	43.7	89.2	44.5	64.1	54.5	77.8	62.3	71.3
Mission Seed	A4618X	78.3	91.8	124.3	95.5	75.5	93.1	53.1	83.2	48.3	60.6	53.8	77.6	62.8	75.9
MorSoy	MS4616RXT/STS	71.7	88.9	113.7	83.5	70.7	85.7	53.5	79.3	44.5	67.5	56.3	81.8	63.8	73.2
NK Brand	S44-C7X	64.7	92.5	115.6	95.5	77.6	89.2	39.6	91.6	42.3	65.9	50.1	71.9	60.2	71.6
Pioneer	P42A96X	57.1	81.2	96.3	80.3	64.4	75.8	45.6	80.3	33.1	65.9	66.7	52.1	57.3	64.3
Pioneer	P44A72BX	63.7	89.8	109.6	81.2	68.4	82.5	49.2	86.2	36.8	71.8	56.6	71.2	62.0	69.8
Pioneer	P46A86X	78.3	90.9	121.0	97.2	71.6	91.8	51.4	98.7	35.8	70.7	65.5	79.3	66.9	76.2
Progeny Ag	P 4620RXS	71.3	92.8	114.9	78.2	77.3	86.9	45.4	78.3	41.2	63.3	51.4	70.7	58.4	70.6
Progeny Ag	P 4444RXS	72.7	84.1	111.0	92.1	70.1	86.0	46.2	77.9	57.8	63.1	37.0	78.9	60.1	71.3
Progeny Ag	P 4265RXS	61.5	88.1	113.7	78.5	69.8	82.3	46.5	71.5	36.6	66.0	58.5	67.2	57.7	68.6
Progeny Ag	P 4505RXS	73.4	97.6	125.0	91.2	66.5	90.7	55.1	83.8	48.4	73.7	53.8	83.4	66.4	76.8
USG	7447XTS	75.0	81.9	107.4	83.1	73.5	84.2	50.3	95.4	45.2	61.9	57.5	68.3	63.1	70.4
USG	7461XTS	74.5	95.8	116.9	94.1	77.2	91.7	48.1	96.2	54.3	66.1	56.0	81.2	67.0	76.4
Mean		73.2	88.8	111.4	89.4	70.5	86.7	47.2	83.1	43.9	66.4	51.8	74.1	61.1	71.7
CV		9.1	5.5	5.8	9.8	12.2		17.0	12.2	19.8	13.0	9.6	10.8		
LSD		11.7	8.0	10.5	14.3	14.0		13.1	16.4	14.1	14.1	10.4	13.0		
R ²		61.0	70.9	78.0	53.4	43.9		55.0	55.2	55.8	35.0	88.0	80.7		
Error DF		80	80	80	80	80		80	80	80	80	40	80		

Table 3. Summary of 2-Year Yields for Maturity Group IV Early Xtend for the 2019 and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Stone-ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
Armor	44-D92	44.4	82.2	88.7	90.6	52.6	71.7	44.5	69.0	56.8	70.2	55.4	59.9	59.3	64.9
Asgrow	AG46X6	57.8	96.5	106.6	93.7	68.7	84.7	37.7	84.9	67.9	74.4	58.5	73.2	66.1	74.5
Asgrow	AG45X8	47.0	88.8	98.0	91.5	57.9	76.6	46.1	79.7	52.5	69.7	51.1	59.1	59.7	67.4
Asgrow	AG43X0	46.7	79.4	85.0	87.7	66.7	73.1	43.4	72.3	55.8	62.9	50.0	61.5	57.7	64.7
Asgrow	AG46X0	58.0	87.3	103.4	99.9	69.3	83.6	41.6	77.7	65.7	79.5	53.2	70.3	64.7	73.3
Delta Grow	46X65/STS	62.6	89.7	95.7	97.2	66.3	82.3	48.3	78.5	62.2	74.8	56.9	73.5	65.7	73.3
Dyna-Gro	S45XS66	55.1	93.4	107.0	97.1	59.1	82.3	47.3	85.1	58.3	76.1	65.5	77.9	68.4	74.7
Dyna-Gro	S45XS37	49.3	91.2	108.1	92.3	63.6	80.9	44.6	75.6	68.2	81.0	56.5	75.0	66.8	73.2
Dyna-Gro	S46XS60	59.3	87.2	87.2	89.8	58.9	76.5	45.1	77.5	67.8	68.6	54.7	80.7	65.7	70.6
Great Heart Seed	GT-4677XS	62.0	89.0	91.5	98.9	69.3	82.2	44.8	79.3	58.1	63.2	58.4	79.1	63.8	72.2
Local Seed	LS4565X	49.9	88.4	97.9	87.9	64.0	77.6	52.8	70.8	68.8	77.8	62.7	71.0	67.3	72.0
Local Seed	LS4583X	57.1	85.2	98.0	98.3	67.5	81.2	47.1	75.6	65.1	71.4	54.5	80.5	65.7	72.7
Local Seed	LS4407X	55.4	86.3	92.7	91.8	67.9	78.8	36.1	75.4	65.3	66.8	50.3	72.3	61.0	69.1
Local Seed	LS4299XS	45.0	80.7	87.1	93.2	59.3	73.0	41.0	63.5	62.2	73.0	56.3	63.3	59.9	65.9
Local Seed	LS3976X	52.1	74.3	75.6	80.6	51.0	66.7	36.3	74.6	51.0	61.7	47.0	53.6	54.0	59.8
Mission Seed	A4448X	58.5	82.5	100.1	88.8	64.2	78.8	42.9	80.2	67.5	74.8	57.8	75.8	66.5	72.1
Mission Seed	A4618X	50.6	87.4	103.8	93.2	69.9	81.0	49.4	81.0	70.2	75.5	59.1	71.6	67.8	73.8
MorSoy	MS 4616 RXT/STS	53.5	91.1	98.9	88.1	65.5	79.4	48.7	75.7	65.4	76.5	60.4	73.9	66.8	72.5
NK Brand	S44-C7X	45.7	90.4	98.1	95.9	67.6	79.6	35.1	87.6	63.0	74.1	53.4	65.4	63.1	70.6
Pioneer	P42A96X	41.6	81.1	80.1	84.1	57.1	68.8	37.2	66.3	50.2	69.7	57.6	45.4	54.4	60.9
Pioneer	P44A72BX	47.6	84.7	94.4	88.7	60.5	75.2	41.1	72.1	61.0	78.3	55.3	70.2	63.0	68.5
Progeny Ag	P 4620RXS	49.4	89.9	94.3	85.3	64.9	76.8	43.0	63.3	62.4	65.7	54.3	66.3	59.2	67.2
Progeny Ag	P 4444RXS	56.4	82.3	96.0	93.8	65.2	78.8	46.1	76.7	68.6	66.7	50.3	73.9	63.7	70.6
Progeny Ag	P 4265RXS	46.8	83.2	88.6	83.7	60.0	72.5	42.9	63.2	58.2	66.2	55.8	64.0	58.4	64.8
Overall Mean		52.2	86.3	94.9	91.3	63.2	77.6	43.5	75.2	62.2	71.6	55.6	69.1	62.9	69.6

Table 4. Summary of 3-Year Yields for Maturity Group IV Early Xtend for the 2018, 2019, and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Stone-ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
Asgrow	AG46X6	69.7	98.8	99.4	93.1	74.4	87.1	46.6	86.3	70.3	69.3	54.0	76.4	67.1	76.2
Asgrow	AG45X8	61.7	91.3	94.8	88.3	65.4	80.3	50.3	85.6	60.2	59.2	47.7	70.3	62.2	70.4
Dyna-Gro	S45XS66	65.2	95.0	93.8	92.9	66.4	82.7	50.4	84.7	61.6	72.1	56.8	79.8	67.6	74.4
Dyna-Gro	S45XS37	60.9	92.2	103.6	89.4	70.1	83.2	50.3	82.0	72.6	69.4	49.9	79.6	67.3	74.5
Local Seed	LS4565X	62.5	88.1	94.2	84.8	72.5	80.4	53.1	81.3	74.3	71.4	57.7	79.9	69.6	74.5
Local Seed	LS4583X	68.3	91.6	92.3	93.7	74.1	84.0	51.6	80.3	73.2	68.7	50.0	82.6	67.7	75.1
Mission Seed	A4618X	61.3	87.1	98.8	88.2	71.8	81.4	52.7	84.1	77.6	69.0	54.8	76.2	69.1	74.7
MorSoy	MS 4616 RXT/STS	65.3	93.7	90.6	88.2	69.3	81.4	53.6	76.8	75.2	70.3	56.6	79.1	68.6	74.4
Pioneer	P42A96X	53.9	86.1	85.0	82.2	65.4	74.5	42.2	72.6	58.5		52.6	58.1	56.8	59.7
Progeny Ag	P 4444RXS	64.9	87.9	97.9	89.2	68.7	81.7	49.0	78.6	71.4	62.3	45.8	77.9	64.2	72.2
Overall Mean		63.4	91.2	95.0	89.0	69.8	81.7	50.0	81.2	69.5	68.0	52.6	76.0	66.0	72.6

Table 5. Summary of Yield for Group IV Late Roundup Ready Xtend for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Stone-ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
AgriGold	G4995RX	78.9	95.2	102.3	92.7	87.2	91.3	42.9	70.3	52.6	53.8	40.6	77.7	56.3	72.2
AgriGold	G4820RX	87.0	98.5	110.6	79.6	84.8	92.1	52.0	78.9	45.3	47.6	53.3	72.7	58.3	73.7
AGS	GS47X19	88.1	94.8	109.5	77.1	84.0	90.7	39.2	78.6	51.2	53.0	45.3	71.9	56.6	72.1
AGS	GS48X19	79.8	88.5	99.7	82.9	77.5	85.7	46.0	75.8	55.3	57.0	46.1	71.3	58.6	70.9
AGS	GS49X21	81.6	84.9	115.4	84.8	77.8	88.9	46.2	68.3	49.8	59.8	50.8	70.3	57.5	71.8
Armor	48-D25	88.1	95.2	103.0	87.0	81.3	90.9	56.7	96.3	46.5	58.7	54.5	80.4	65.5	77.1
Armor	49-D14	82.9	92.6	107.8	85.6	76.9	89.2	50.8	83.7	51.1	53.2	51.4	75.0	60.9	73.7
Asgrow	AG48X9	81.8	98.2	98.9	94.5	81.7	91.0	49.3	76.9	46.4	49.2	51.8	70.3	57.3	72.6
Credenz	CZ 4869X	67.6	88.5	95.0	83.4	80.0	82.9	44.1	65.8	47.6	52.1	49.7	57.7	52.8	66.5
Credenz	CZ 4979X	79.5	93.5	97.5	88.4	85.3	88.8	45.9	77.8	55.0	62.1	48.3	72.9	60.3	73.3
Credenz	CZ 4730X	77.5	89.5	100.1	94.7	68.1	86.0	51.1	74.7	45.5	60.9	55.7	63.2	58.5	71.0
Credenz	CZ 4770X	78.7	90.2	111.0	85.2	76.8	88.4	53.4	91.7	43.9	50.6	25.5	80.8	57.6	71.6
Credenz	CZ 4810X	80.5	86.4	103.9	87.2	77.5	87.1	48.7	78.5	52.3	60.2	49.6	53.9	57.2	70.8
Credenz	CZ 4941X	71.8	83.4	87.8	85.5	77.7	81.2	58.1	67.3	49.6	56.0	38.7	65.3	55.9	67.4
Delta Grow	49X15	76.9	91.4	98.2	80.4	84.5	86.3	52.1	72.5	56.4	54.6	40.7	73.2	58.3	71.0
Delta Grow	47X95	76.2	97.7	98.8	79.9	86.0	87.7	41.9	79.6	56.7	56.4	46.7	69.2	58.4	71.7
Delta Grow	48X05	82.2	99.4	108.2	74.0	85.3	89.8	44.7	72.0	39.5	53.9	48.6	77.1	55.9	71.3
Delta Grow	49X25	78.9	83.1	103.4	85.9	78.9	86.0	44.7	72.4	52.1	55.5	39.4	81.0	57.5	70.5
Delta Grow	48X45	87.2	91.9	109.6	83.9	78.2	90.2	56.1	81.3	48.3	58.2	52.7	70.2	61.1	74.3
Dyna-Gro	S48XT56	91.9	95.7	117.5	90.3	87.5	96.6	53.1	86.9	50.5	49.3	67.6	79.6	64.5	79.1
Dyna-Gro	S49XT70	83.6	94.4	113.1	76.3	80.7	89.6	50.7	74.3	42.5	54.0	45.0	74.7	56.9	71.8
Dyna-Gro	S47XT20	90.4	86.5	100.0	80.1	73.4	86.1	46.3	87.6	49.0	56.8	60.8	72.1	62.1	73.0
Dyna-Gro	S48XT90	82.2	96.6	106.4	87.7	83.3	91.2	44.1	85.1	50.0	57.1	45.9	74.9	59.5	73.9
Dyna-Gro	S49XT21	83.5	87.6	106.1	67.9	80.5	85.1	49.5	87.2	47.3	59.8	52.4	74.8	61.8	72.4
Donmario Seeds	DM 47X39	79.9	93.5	90.0	87.6	85.8	87.4	35.9	71.1	46.8	51.0	39.3	71.0	52.5	68.3
Donmario Seeds	DM 49X13	82.5	92.9	104.6	84.1	78.3	88.5	47.1	73.8	45.4	49.2	30.4	80.6	54.4	69.9
Great Heart	GT-4833XS	86.3	89.5	114.5	88.5	83.5	92.5	55.6	78.4	48.3	51.9	55.4	83.5	62.2	76.0
Great Heart	GT-4979X	82.8	101.6	111.6	92.7	84.5	94.6	47.3	78.1	44.7	53.7	48.1	86.6	59.7	75.6
Great Heart	GT-4828X	82.0	90.2	120.8	83.8	81.8	91.7	52.6	75.9	44.8	53.1	48.1	79.9	59.1	73.9
LG Seeds	LGS4899RX	86.9	95.6	96.6	85.9	77.5	88.5	59.6	88.8	52.1	55.3	41.0	85.0	63.6	74.9
Local Seed	LS4795XS	83.0	94.6	95.7	86.4	77.5	87.4	51.0	76.4	52.2	61.0	44.3	74.3	59.9	72.4
Local Seed	LS4999X	85.6	93.2	108.0	72.9	78.2	87.6	42.8	78.0	51.1	57.3	60.6	68.7	59.7	72.4
Local Seed	LS4607XS	75.8	89.4	109.8	81.4	74.0	86.1	43.5	81.3	51.7	60.1	44.2	73.7	59.1	71.3
Local Seed	LS4806XS	84.8	95.3	113.2	93.6	81.3	93.6	47.0	87.5	57.7	54.9	58.8	75.6	63.6	77.2
Mission Seed	A4828X	84.5	89.0	107.0	81.8	79.7	88.4	45.7	64.2	58.5	55.9	55.2	72.5	58.7	72.2
Mission Seed	A4950X	82.0	91.9	112.8	79.7	82.2	89.7	44.5	73.8	51.6	58.9	54.4	80.2	60.6	73.8
MorSoy	MS 4846 RXT	87.8	93.8	110.9	81.1	81.8	91.1	60.1	75.8	42.9	52.8	44.9	75.4	58.7	73.4
NK Brand	S49-F5X	78.3	93.9	114.1	85.6	81.3	90.6	52.5	83.3	52.5	62.1	55.9	78.5	64.1	76.2
NK Brand	S47-Y9X	81.0	90.7	94.7	85.7	75.9	85.6	54.5	79.7	46.2	51.7	54.5	78.0	60.8	72.0
Pioneer	P48A60X	75.8	91.5	94.1	86.9	74.0	84.5	41.4	76.8	39.7	50.9	59.2	72.4	56.7	69.3
Progeny Ag	P 4816RX	85.6	96.8	117.7	93.8	87.9	96.4	56.0	83.4	53.2	46.6	60.9	77.7	63.0	78.1
Progeny Ag	P 4851RX	86.5	93.6	85.9	86.2	70.1	84.4	62.5	70.0	48.1	56.1	51.3	80.4	61.4	71.9
Progeny Ag	P 4821RX	75.8	95.9	92.9	87.6	84.5	87.3	49.8	71.2	46.1	55.4	59.2	66.0	58.0	71.3
Progeny Ag	4700RXS	67.5	96.2	107.3	78.5	79.3	85.8	43.1	72.6	59.6	55.9	65.7	73.4	61.7	72.6
Progeny Ag	4970RX	82.7	98.8	110.9	99.2	83.7	95.0	57.7	76.9	49.5	49.5	39.0	78.5	58.5	75.1
Taylor Seed	T4880XS	81.1	90.5	101.6	91.5	80.9	89.1	50.8	85.0	43.4	56.7	50.7	71.3	59.7	73.0
Taylor Seed	T4990XS	71.6	87.3	97.0	83.5	71.4	82.2	55.9	73.5	40.4	60.5	62.8	55.1	58.0	69.0
USG	7496XTS	79.1	89.0	100.3	82.3	71.3	84.4	43.7	76.2	58.3	55.4	54.3	71.4	59.9	71.0
USG	7489XT	94.5	96.0	114.6	88.2	78.9	94.4	56.0	82.7	43.5	49.0	62.0	69.5	60.5	75.9
USG	7480XT	84.1	92.4	100.8	84.5	84.6	89.3	42.5	79.7	59.9	46.7	31.1	71.2	55.2	70.7
Mean		81.7	92.5	104.6	85.0	80.1	88.8	49.3	78.0	49.4	54.8	49.8	73.6	59.2	72.6
CV		7.3	4.4	9.6	10.9	7.4		14.5	11.3	15.7	12.8	19.0	12.6		
LSD		9.7	6.5	16.3	15.0	9.5		12.4	14.3	12.6	11.4	18.9	15.0		
R ²		60	65	51	40.5	50.2		59.9	69.4	48	35	65	74.48		
Error DF		98	98	98	98	98		98	98	98	98	49	98		

Table 6. Summary of 2-Year Yields for Maturity Group IV Late Xtend for the 2019 and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Stone-ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
AGS	GS47X19	67.9	90.7	98.5	80.9	72.7	82.1	35.6	77.7	67.3	60.1	56.7	80.8	63.0	71.7
Armor	48-D25	67.0	92.6	95.8	89.1	72.0	83.3	48.8	88.1	61.4	71.1	61.8	76.4	67.9	74.9
Asgrow	AG48X9	66.2	94.8	94.7	95.6	75.9	85.4	47.7	78.7	64.9	62.0	58.1	80.6	65.3	74.5
Credenz	CZ 4869X	52.1	86.2	89.3	88.3	69.6	77.1	39.8	68.6	63.4	59.5	53.4	62.4	57.9	66.6
Credenz	CZ 4979X	69.2	90.7	97.8	89.4	79.2	85.2	41.1	81.6	74.8	71.0	58.5	77.6	67.4	75.5
Delta Grow	49X15	68.1	88.8	93.3	89.1	73.6	82.6	50.5	75.3	72.6	65.8	54.7	79.7	66.4	73.8
Delta Grow	47X95	60.4	93.6	92.2	90.6	71.5	81.7	40.2	73.8	69.7	63.8	55.4	68.3	61.9	70.9
Delta Grow	48X05	66.1	93.8	102.6	82.6	70.7	83.2	41.4	76.6	62.3	64.7	57.9	80.4	63.9	72.7
Delta Grow	49X25	58.1	84.3	91.3	89.8	68.2	78.3	51.2	78.6	70.9	69.9	57.2	77.8	67.6	72.5
Delta Grow	48X45	67.9	92.5	102.7	90.1	69.3	84.5	55.7	78.5	66.7	68.5	58.1	78.8	67.7	75.3
Dyna-Gro	S48XT56	69.3	94.6	107.0	90.7	75.4	87.4	50.3	87.0	64.5	64.2	64.5	81.9	68.7	77.2
Dyna-Gro	S49XT70	63.8	90.5	100.4	87.6	73.0	83.0	50.7	76.4	59.7	64.4	59.7	76.0	64.5	72.9
Dyna-Gro	S47XT20	72.9	86.2	94.8	86.7	69.0	81.9	45.5	87.7	70.1	65.8	68.0	77.7	69.1	74.9
Donmario Seeds	DM 49X13	62.9	90.6	98.8	89.0	71.0	82.5	51.8	77.3	64.7	64.9	47.0	80.8	64.4	72.6
Great Heart	GT-4833XS	66.6	87.0	103.8	91.8	74.4	84.7	49.4	83.2	71.6	50.9	60.5	79.7	65.9	74.4
Great Heart	GT-4979X	64.9	96.8	102.9	94.8	74.4	86.7	45.3	80.6	63.2	61.9	58.3	83.4	65.4	75.1
LG Seeds	LGS4899RX	65.6	90.7	88.3	91.0	69.1	80.9	50.4	84.6	65.5	66.7	57.7	80.4	67.5	73.6
Local Seed	LS4999X	66.1	89.4	101.7	83.0	71.2	82.3	44.1	80.2	68.1	70.9	65.9	71.9	66.9	73.9
Mission Seed	A4950X	63.6	91.0	102.5	88.5	68.8	82.9	44.0	72.8	70.4	64.1	61.4	82.8	65.9	73.6
MorSoy	MS 4846 RXT	66.9	93.2	101.6	88.6	71.6	84.4	56.2	83.5	64.9	66.1	57.4	81.8	68.3	75.6
NK Brand	S47-Y9X	62.7	90.2	88.5	91.2	68.7	80.3	49.1	77.0	64.8	65.3	60.6	78.3	65.8	72.4
Pioneer	P48A60X	57.2	89.3	88.6	88.5	66.9	78.1	40.7	83.7	65.6	65.0	60.2	67.7	63.8	70.3
Progeny Ag	P 4816RX	67.2	94.1	102.4	90.2	74.0	85.6	50.4	81.0	70.5	61.0	62.6	81.1	67.7	75.9
Progeny Ag	P 4851RX	70.0	91.3	95.0	89.4	67.3	82.6	51.0	69.7	65.6	66.4	62.7	81.8	66.2	73.7
Progeny Ag	P 4821RX	60.3	93.7	88.2	88.1	73.9	80.8	44.4	77.2	66.9	53.9	63.3	66.1	61.9	70.5
USG	7496XTS	57.1	85.2	84.7	86.3	65.3	75.7	44.1	74.8	66.6	60.0	58.9	64.0	61.4	67.9
USG	7489XT	71.5	93.2	102.4	94.2	71.0	86.5	49.6	82.0	62.3	60.1	63.8	77.2	65.8	75.2
Overall Mean		64.9	90.9	96.7	89.1	71.4	82.6	47.0	79.1	66.6	64.0	59.4	76.9	65.5	73.3

Table 7. Summary of 3-Year Yields for Maturity Group IV Late Xtend for the 2018, 2019, and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Stone-ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
Asgrow	AG48X9	75.9	95.5	94.6	91.6	80.7	87.7	51.8	83.5	69.2	64.4	52.6	85.7	67.9	76.9
Dyna-Gro	S48XT56	77.1	94.7	101.8	87.3	78.3	87.8	55.2	88.0	60.9	66.1	56.3	85.9	68.7	77.4
Great Heart	GT-4833XS	73.3	90.2	102.3	85.9	72.5	84.9	57.4	83.1	73.6	58.2	55.0	87.3	69.1	76.3
Great Heart	GT-4979X	73.9	98.2	103.9	90.2	78.4	88.9	51.7	81.8	67.3	66.1	52.4	87.5	67.8	77.4
Mission Seed	A4950X	73.6	93.9	97.2	88.0	75.0	85.5	50.9	75.7	77.5	68.2	53.6	87.3	68.9	76.4
MorSoy	MS 4846 RXT	76.9	92.2	99.0	86.3	78.0	86.5	55.2	88.2	67.0	70.6	54.1	83.2	69.7	77.3
Pioneer	P48A60X	68.9	90.8	87.4	86.4	74.8	81.7	49.2	87.9	69.3	64.9	54.2	76.4	67.0	73.6
Progeny Ag	P 4816RX	74.9	94.4	100.2	87.0	79.5	87.2	54.4	84.6	68.1	65.8	57.1	83.8	69.0	77.2
Progeny Ag	P 4851RX	78.1	94.4	97.7	90.6	71.7	86.5	58.0	76.7	68.2	64.5	54.5	86.3	68.0	76.4
USG	7496XTS	69.4	89.3	89.3	85.9	70.9	81.0	54.0	81.8	72.5	64.2	52.6	71.4	66.1	72.9
USG	7489XT	76.1	92.6	99.6	90.4	77.4	87.2	55.1	84.7	61.0	65.5	58.8	80.2	67.5	76.5
Overall Mean		74.4	93.3	97.5	88.1	76.1	85.9	53.9	83.3	68.6	65.3	54.7	83.2	68.2	76.2

Table 8. Summary of Yields for Group IV Enlist for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety ¹	Brooks-ville irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Ray-mond not irr. (loam)	Olive Branch not irr. (loam)	Stone-ville not irr. (clay)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Armor	48-E81	64.6	84.6	76.6	75.3	56.0	64.2	55.1	45.5	55.2	63.8
Delta Grow	48E10	71.5	93.3	78.7	81.2	58.3	73.5	55.5	54.7	60.5	69.4
Delta Grow	48E49/STS	66.9	81.5	59.4	69.3	45.1	67.5	52.6	46.1	52.8	59.9
Delta Grow	47E20/STS	68.2	80.7	78.2	75.7	61.5	64.3	60.5	56.0	60.6	67.1
Delta Grow	47E80/STS	80.0	73.2	71.8	75.0	54.8	78.9	53.2	48.6	58.9	65.8
Delta Grow	48E28XP	69.6	81.9	78.4	76.6	57.9	67.0	56.4	56.9	59.6	66.9
Delta Grow	49E00/STS	65.6	85.8	75.6	75.7	55.0	56.0	56.4	37.2	51.2	61.7
DONMARIO	DM 48E73	62.4	92.5	88.4	81.1	58.3	59.3	55.7	53.3	56.6	67.1
Go Soy	463E20S	70.6	89.3	79.8	79.9	64.7	66.1	55.1	57.4	60.8	69.0
Go Soy	491E19S	69.9	86.6	85.5	80.7	61.9	59.0	59.9	58.2	59.8	68.7
Go Soy	473E20	64.1	90.3	84.1	79.5	67.6	58.8	52.7	47.2	56.6	66.4
Go Soy	481E19	69.8	84.9	83.8	79.5	57.8	73.6	55.2	50.5	59.3	68.0
Local Seed	ZS4694E3S	75.4	86.8	74.1	78.8	57.9	72.6	61.9	54.8	61.8	69.1
MorSoy	MS 4800E	62.5	80.3	80.1	74.3	63.9	62.2	51.7	39.2	54.3	62.8
Pioneer	P49T62E	68.5	84.2	87.2	80.0	55.2	78.5	59.5	50.5	60.9	69.1
Progeny Ag	4241E3	73.4	70.7	69.3	71.1	46.4	69.6	52.0	40.0	52.0	60.2
Progeny Ag	4682E3	83.3	88.2	79.0	83.5	54.7	64.8	56.9	51.4	56.9	68.3
Progeny Ag	4775E3S	73.7	94.7	84.6	84.3	64.9	80.5	63.2	66.2	68.7	75.4
Progeny Ag	4807E3S *	81.5	74.7	75.7	77.3	48.6	65.7	55.1	63.5	58.2	66.4
Progeny Ag	4902E3 *	71.1	86.6	83.0	80.2	57.8	74.4	56.7	57.1	61.5	69.5
Progeny Ag	4908E3S *	69.2	87.6	90.8	82.5	63.0	64.2	52.4	56.9	59.1	69.1
USG	7491ETS	61.4	79.2	69.3	70.0	61.9	57.8	56.3	45.5	55.4	61.6
Mean		70.1	84.4	78.8	77.8	57.9	67.2	56.1	51.7	58.2	66.6
CV		10.2	8.8	8.3		12.3	10.7	10.7	15.2		
LSD		11.8	12.2	10.8		11.7	11.9	9.9	13.0		
R ²		51.6	61.2	73.8		55.1	78.8	42.9	81.3		
Error DF		42.0	42	42		42	42	42	42		

¹Variety followed by an asterisk indicates an experimental entry

Table 9. Summary of 2-Year Yields for Maturity Group IV Enlist for the 2019 and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Olive Branch not irr. (loam)	Raymond not irr. (loam)	Stoneville not irr. (clay)	Verona not irr. (clay)	Overall avg.
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Delta Grow	48E10	52.9	97.2	65.4	74.4	68.1	64.9	60.4	69.1
Delta Grow	48E49/STS	53.3	88.4	57.0	71.7	60.7	66.7	61.1	65.6
Delta Grow	48E28XP	52.7	89.1	66.7	76.3	76.8	71.4	63.5	70.9
DONMARIO	DM 48E73	44.9	93.3	68.8	66.6	73.0	68.1	62.1	68.1
Local Seed	ZS4694E3S	55.6	91.3	64.4	77.8	64.6	59.6	64.8	68.3
Overall Mean		51.9	91.8	64.5	73.4	68.7	66.1	62.4	68.4

Table 10. Summary of Yield for Group V Roundup Ready Xtend for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
Asgrow	AG52X9	79.1	89.2	113.3	90.7	88.1	92.1	34.4	76.3	60.8	60.8	58.1	77.0
Asgrow	AG53X9	77.8	86.9	111.6	85.4	81.4	88.6	39.4	82.7	54.0	66.7	60.7	76.2
Asgrow	AG53X0	71.5	79.6	119.2	94.4	93.6	91.7	38.8	59.8	65.1	59.9	55.9	75.8
Asgrow	AG55X0	63.8	87.9	99.6	87.4	78.0	83.4	37.1	77.6	24.5	63.7	50.7	68.9
Credenz	CZ 5299X	71.3	85.7	114.6	83.4	88.2	88.6	35.8	72.9	59.1	71.0	59.7	75.8
Credenz	CZ 5000X	74.7	90.7	103.2	83.3	83.3	87.1	32.6	84.3	49.9	69.9	59.2	74.7
Credenz	CZ 5420X	74.1	82.0	107.7	81.8	82.8	85.7	42.6	77.1	44.2	73.4	59.3	74.0
Credenz	CZ 5700	57.2	82.3	85.5	81.0	74.7	76.1	28.6	78.8	44.3	66.4	54.5	66.5
Credenz	CZ 5251X	70.6	84.7	106.8	92.0	82.1	87.2	45.2	74.7	43.8	56.4	55.0	72.9
Delta Grow	52X05/STS	71.2	85.5	120.5	86.9	89.5	90.7	42.4	76.6	50.6	84.4	63.5	78.6
Delta Grow	54X25	74.0	82.6	107.6	72.5	79.6	83.3	40.0	75.8	30.9	63.9	52.6	69.7
Donmarco Seeds	DM 51X61	82.2	92.8	119.5	93.2	96.0	96.7	32.7	76.6	45.3	70.7	56.3	78.8
Dyna-Gro	S56XT99	77.3	90.5	108.1	89.5	87.4	90.6	48.4	82.2	34.6	83.1	62.1	77.9
Dyna-Gro	S52XS39	78.0	83.7	109.3	79.4	87.8	87.6	27.4	77.5	63.8	79.4	62.0	76.3
Dyna-Gro	GS5261X	80.2	85.0	103.1	92.9	85.2	89.3	53.5	74.2	50.4	66.5	61.1	76.8
Great Heart Seed	GT-5214X	75.3	83.5	99.2	88.1	85.0	86.2	48.4	64.0	40.7	87.3	60.1	74.6
Great Heart Seed	GT-5417X	75.4	82.5	107.4	86.6	87.2	87.8	35.2	71.7	56.6	56.2	54.9	73.2
Local Seed	LS5386X	77.6	88.2	107.3	89.5	85.3	89.6	28.4	80.8	56.3	64.5	57.5	75.3
Local Seed	LS5087X	71.0	89.7	117.6	85.1	83.2	89.3	34.9	65.3	55.5	64.0	54.9	74.0
Local Seed	LS5009XS	84.5	93.5	119.1	91.1	97.0	97.0	38.9	83.8	53.8	68.5	61.2	81.1
MorSoy	MS 5398 RXT	76.9	91.5	103.7	90.5	93.5	91.2	32.6	71.7	53.6	67.9	56.5	75.8
NK Brand	S51-R3XS	72.4	85.0	101.8	85.4	85.4	86.0	38.5	69.8	50.8	64.7	55.9	72.7
NK Brand	S53-F7X	80.8	83.3	108.0	89.2	78.8	88.0	30.7	81.5	54.4	70.1	59.1	75.2
Pioneer	P55A49X	76.7	94.0	117.0	91.7	87.5	93.4	51.2	91.8	32.9	69.8	61.4	79.2
Pioneer	P53A67X	85.3	88.8	108.1	93.1	87.3	92.5	48.1	88.2	16.7	69.5	55.6	76.1
Progeny Ag	P 5016RXS	69.2	82.4	107.2	86.5	76.8	84.4	41.9	68.6	45.1	59.5	53.8	70.8
Progeny Ag	P 5252RX	79.2	84.8	111.5	84.8	92.5	90.6	33.5	83.3	56.3	69.6	60.7	77.3
Progeny Ag	P 5554RX	74.2	92.7	115.6	92.0	88.5	92.6	42.2	86.0	36.6	74.6	59.9	78.0
Progeny Ag	P 5170RX	72.8	79.8	114.2	83.4	80.7	86.2	30.9	72.0	51.1	56.7	52.7	71.3
Mean		75.0	86.5	109.2	87.3	85.7	88.7	38.4	76.7	47.6	68.2	57.8	75.0
CV		7.2	5.6	6.7	10.5	7.9		23.9	10.1	17.9	11.6		
LSD		8.8	7.8	12.0	14.9	11.1		15.0	12.7	14.0	12.9		
R ²		67.0	55.0	65.0	33.7	52.8		51.9	80.1	75.9	84.1		
Error DF		56	56	56	56	56		56	56	56	56		

Table 11. Summary of 2-Year Yields for Maturity Group V Xtend for the 2019 and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
Asgrow	AG52X9	57.1	87.8	100.1	90.6	74.1	81.9	36.3	75.1	73.5	74.2	64.8	74.3
Asgrow	AG53X9	53.4	89.5	94.7	89.6	75.9	80.6	41.4	79.6	71.4	77.4	67.4	74.8
Asgrow	AG53X0	56.2	76.1	101.9	92.7	78.4	81.1	40.7	67.7	76.6	68.5	63.4	73.2
Credenz	CZ 5299X	57.1	88.1	103.0	80.5	77.6	81.3	37.7	69.6	72.8	81.1	65.3	74.2
Delta Grow	52X05/STS	60.6	87.3	103.3	84.1	78.4	82.7	42.2	75.0	61.2	84.3	65.7	75.2
Delta Grow	54X25	48.7	83.2	89.0	78.6	71.8	74.3	42.9	69.9	55.9	69.4	59.5	67.7
Dyna-Gro	S56XT99	63.0	89.3	100.5	83.1	76.8	82.5	43.1	77.1	53.9	83.8	64.5	74.5
Local Seed	LS5386X	48.6	87.3	94.1	91.1	71.6	78.5	36.3	77.0	72.4	71.1	64.2	72.2
Local Seed	LS5087X	49.8	92.6	103.1	85.0	77.6	81.6	36.5	70.0	71.3	67.2	61.3	72.6
NK Brand	S51-R3XS	48.8	86.9	93.0	94.4	71.8	79.0	38.6	73.1	60.3	67.1	59.8	70.5
NK Brand	S53-F7X	61.7	84.8	93.3	93.4	68.7	80.4	32.1	82.6	68.0	78.5	65.3	73.7
Pioneer	P55A49X	64.5	92.4	98.5	88.9	77.9	84.4	52.7	77.5	51.1	74.4	63.9	75.3
Progeny Ag	P 5016RXS	48.9	80.9	85.6	89.8	67.9	74.6	43.2	67.8	62.4	61.7	58.8	67.6
Progeny Ag	P 5252RX	62.6	87.5	99.8	82.8	80.0	82.5	38.2	79.5	71.9	80.9	67.6	75.9
Progeny Ag	P 5554RX	57.4	86.0	93.5	86.2	72.8	79.2	40.1	77.4	53.6	76.5	61.9	71.5
Progeny Ag	P 5170RX	54.3	78.5	99.6	85.5	70.7	77.7	35.9	75.1	69.1	66.8	61.7	70.6
Overall mean		55.8	86.1	97.1	87.3	74.5	80.2	39.9	74.6	65.4	73.9	63.4	72.7

Table 12. Summary of 3-Year Yields for Maturity Group V Xtend for the 2018, 2019, and 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooks-ville irr. (clay)	Clarks-dale irr. (clay)	Long-wood irr. (clay)	Stone-ville irr. (loam)	Stone-ville irr. (clay)	Irrigated avg.	Brooks-ville not irr. (clay)	Olive Branch not irr. (loam)	Ray-mond not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
Asgrow	AG52X9	<i>bu/A</i> 68.5	<i>bu/A</i> 89.2	<i>bu/A</i> 100.8	<i>bu/A</i> 95.5	<i>bu/A</i> 77.1	<i>bu/A</i> 86.2	<i>bu/A</i> 46.2	<i>bu/A</i> 81.2	<i>bu/A</i> 77.1	<i>bu/A</i> 78.6	<i>bu/A</i> 70.8	<i>bu/A</i> 79.3
Asgrow	AG53X9	59.3	91.1	94.8	87.8	78.5	82.3	51.0	82.2	69.5	79.0	70.4	77.0
Dyna-Gro	S56XT99	66.6	88.6	101.4	83.3	80.9	84.1	52.1	83.1	59.5	84.0	69.7	77.7
Local Seed	LS5087X	63.0	93.7	106.5	85.9	81.3	86.1	46.5	80.8	74.3	74.9	69.1	78.5
Progeny Ag	P 5016RXS	54.0	84.0	89.0	89.0	71.0	77.4	52.5	78.4	65.3	68.0	66.0	72.3
Progeny Ag	P 5252RX	67.2	84.4	104.7	84.4	81.1	84.4	48.4	84.7	81.9	82.7	74.4	80.0
Progeny Ag	P 5554RX	66.9	87.1	98.2	85.4	78.3	83.2	49.6	80.5	57.7	76.6	66.1	75.6
Overall mean		63.7	88.3	99.3	87.3	78.3	83.4	49.5	81.5	69.3	77.7	69.5	77.2

Table 13. Summary of Yields for Group V Enlist for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Irr. avg.	Olive Branch not irr. (loam)	Raymond not irr. (loam)	Verona not irr. (clay)	Not Irr. avg.	Overall avg.
Armor	51-E53	64.5	<i>bu/A</i> 93.2	<i>bu/A</i> 84.9	<i>bu/A</i> 80.9	<i>bu/A</i> 72.8	<i>bu/A</i> 39.1	<i>bu/A</i> 53.4	<i>bu/A</i> 55.1	<i>bu/A</i> 68.0
Delta Grow	52E15/STS	62.4	91.4	88.7	80.9	63.4	36.2	45.4	48.3	64.6
Delta Grow	51E60	72.6	91.3	81.9	81.9	72.5	37.8	48.6	52.9	67.4
Go Soy	512E21	73.0	85.2	78.6	78.9	64.9	46.8	45.4	52.4	65.7
Local Seed	ZS5098E3	66.0	93.2	89.2	82.8	67.0	40.0	55.5	54.2	68.5
MorSoy	MS 5110E	71.2	85.3	79.0	78.5	59.8	35.6	51.0	48.8	63.7
Progeny Ag	5211E3	75.4	85.9	79.1	80.1	63.9	38.2	52.3	51.5	65.8
Mean		69.3	89.4	83.1	80.6	66.3	39.1	50.2	51.9	66.2
CV		5.8	6.2	7.9		8.0	20.3	8.8		
LSD		7.1	9.8	11.7		9.5	14.0	7.9		
R ²		73.7	61.7	67.5		90.9	53.7	96.0		
Error DF		12	12	12		12	12	12		

Table 14. Summary of Yield for Group IV Roundup Ready, Liberty, and Conventional for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety ¹	Stoneville irr. (clay)	Irr. avg.	Brooksville not irr. (clay)	Verona not irr. (clay)	Not irr. avg.		Overall avg.
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>bu/A</i>
Credenz	CZ 4820 LL	82.1	82.1	57.4	62.6	60.0		67.4
Go Soy	48C17S	73.4	73.4	44.1	45.8	45.0		54.4
Go Soy	46G19	62.9	62.9	44.3	47.6	45.9		51.6
Go Soy	GT Ireane	79.0	79.0	53.7	40.1	46.9		57.6
Go Soy	49G16	83.7	83.7	56.2	51.5	53.8		63.8
GoSoy	IREANE	81.7	81.7	58.2	51.2	54.7		63.7
Local Seed	LS4706GL	68.8	68.8	39.2	47.2	43.2		51.8
Local Seed	LS3906GL	62.1	62.1	36.5	34.2	35.4		44.3
Petrus Seed	4916 GT	79.9	79.9	53.6	60.7	57.1		64.7
Petrus Seed	4619 GTS	71.0	71.0	45.7	45.2	45.4		54.0
Progeny Ag	4602LR *	70.5	70.5	33.0	38.8	35.9		47.4
U. of Arkansas	R15-2422 *	81.2	81.2	62.9	57.9	60.4		67.3
U. of Arkansas	R16-259 *	80.1	80.1	52.7	47.7	50.2		60.2
U. of Missouri	S15-10879C *	54.3	54.3	42.3	36.3	39.3		44.3
U. of Missouri	S15-5904RY *	74.1	74.1	41.4	49.0	45.2		54.8
U. of Missouri	S15-3847R *	76.8	76.8	45.4	53.0	49.2		58.4
U. of Missouri	S16-5540R *	86.2	86.2	53.3	58.0	55.6		65.8
U. of Missouri	S15-3772RY *	81.1	81.1	58.3	55.4	56.9		65.0
U. of Missouri	S16-7875C *	88.0	88.0	53.9	62.6	58.2		68.1
U. of Missouri	S16-11644C *	81.5	81.5	56.9	63.8	60.4		67.4
U. of Missouri	S16-7922C *	86.0	86.0	56.6	69.7	63.2		70.8
U. of Missouri	S16-14730C *	84.6	84.6	57.3	59.5	58.4		67.1
U. of Missouri	S16-14379C *	80.3	80.3	51.1	62.6	56.8		64.7
VIRTUE SEEDS	V 4520 S	86.6	86.6	49.6	55.1	52.3		63.7
VIRTUE SEEDS	V 4720 S	84.4	84.4	49.7	58.2	53.9		64.1
VIRTUE SEEDS	V 4921 S	76.8	76.8	41.5	52.7	47.1		57.0
Mean		77.6	77.6	49.8	52.5	50.8		59.7
CV		7.8		12.3	20.6			
LSD		9.9		10.1	17.7			
R ²		75.4		71.9	72.4			
Error DF		50		50	50			

¹Variety followed by an asterisk indicates an experimental entry.

Table 15. Summary of 2-Year Yields for Maturity Group IV RR, Liberty, and Conventional for the 2019 and 2020 Mississippi Soybean Variety Trials.

rand	Variety ¹	Stoneville irr. (clay)	Irr. avg.	Brooksville not irr. (clay)	Verona not irr. (clay)	Not irr. avg.		Overall avg.
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>bu/A</i>
Go Soy	48C17S	66.7	66.7	44.5	—	44.5		55.6
Petrus Seed	4916 GT	61.1	61.1	50.4	62.4	56.4		58.0
U. of Missouri	S16-14730C *	64.1	64.1	50.9	—	50.9		57.5
U. of Missouri	S16-14379C *	65.1	65.1	50.5	—	50.5		57.8
VIRTUE SEEDS	V 4520 S	68.7	68.7	42.9	—	42.9		55.8
VIRTUE SEEDS	V 4720 S	72.8	72.8	43.5	—	43.5		58.1
Overall mean		66.4	66.4	47.1	62.4	48.1		57.1

¹Variety followed by an asterisk indicates an experimental entry

Table 16. Summary of 3-year yields for Maturity Group IV RR, Liberty, and Conventional for the 2018, 2019, and 2020 Mississippi Soybean Variety Trials.

rand	Variety	Stoneville irr. (clay)	Irr. avg.	Brooksville not irr. (clay)	Verona not irr. (clay)	Not irr. avg.		Overall avg.
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>		<i>bu/A</i>
Petrus Seed	4916 GT	67.0	67.0	56.0	70.8	63.4		64.6
Overall mean		67.0	67.0	56.0	70.8	63.4		64.6

BROOKSVILLE (NOT IRRIGATED), BLACK BELT BRANCH

Crop Summary

The soybean plots were planted into a stale seedbed that had adequate soil moisture at planting to ensure good germination. All plots emerged to a good stand. A prolonged dry period was observed during mid-summer which

resulted in reduced yield potential. The Enlist group received an undetermined amount of dicamba drift. As a result, no data were reported for these plots. All plots were harvested in a timely manner without difficulties.

Planting date ... April 27

Harvest date ... IVs on September 30, Vs on October 15

Soil type Brooksville silty clay

Soil pH 6.5

Soil fertility P=M, K=M

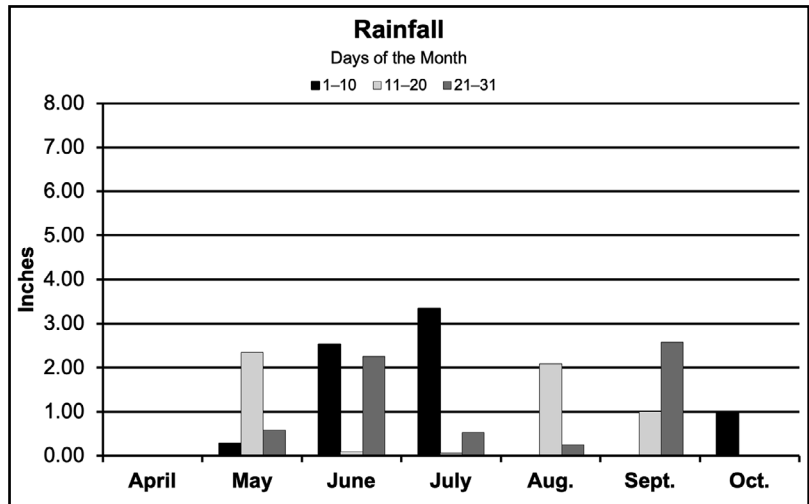
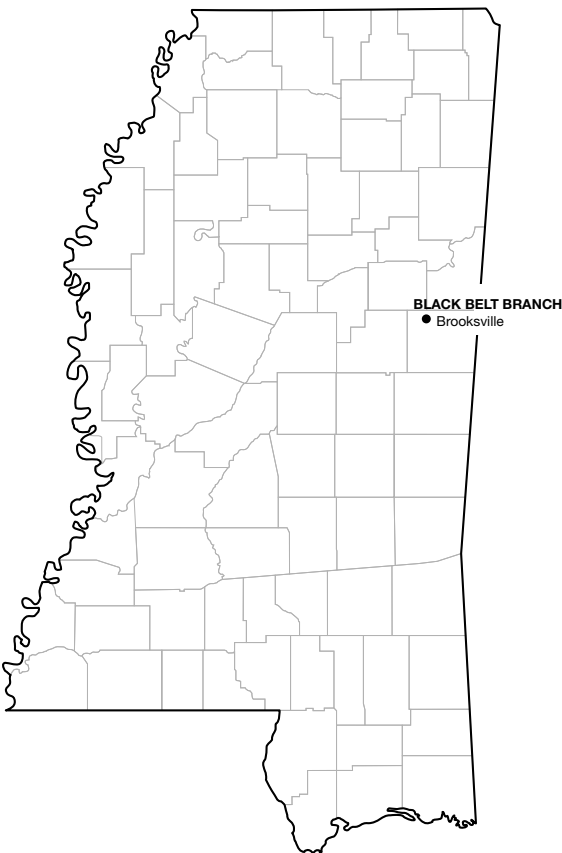
Previous crop ... Wheat

Herbicides Preemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on April 27

Postemergence — (Enlist/Xtend) Roundup PowerMax @ 24 oz/A, FirstRate @ 0.3 oz/A, and Prefix @ 24 oz/A on June 18; (RR,LL,Conv) SelectMax @ 16 oz/A, FirstRate @ 0.3 oz/A, and Prefix @ 32 oz/A on June 18

Fertilizer Preplant — 0-20-20 @ 250 lb/A

Insecticides ... Acephate @ 0.75 lb/A, Bifenthrin @ 6.4 oz/A, and Prevathon @ 14 oz/A on July 14 (IVs & Vs); Acephate @ 0.75 oz/A and Bifenthrin @ 6.4 oz/A on September 11 (Vs only)



Rainfall Summary

	Inches
April	0.00
May	3.21
June	4.87
July	3.93
August	2.34
September	3.58
October	1.02
Total.....	18.95

Table 17. Maturity Group IV Early Xtend Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Armor	44-D49	63.2	—	—	31	1
Local Seed	LS4565X	60.0	52.8	53.1	36	1
Progeny Ag	P 4505RXS	55.1	—	—	35	1
AgriGold	G4620RX	54.9	—	—	37	1
MorSoy	MS 4616 RXT/STS	53.5	48.7	53.6	36	1
Delta Grow	46X65/STS	53.3	48.3	—	33	1
Mission Seed	A4618X	53.1	49.4	52.7	34	1
Dyna-Gro	S45XS66	52.9	47.3	50.4	39	1
LG Seeds	LGS4632RX	52.4	—	—	34	1
Pioneer	P46A86X	51.4	—	—	32	1
Dyna-Gro	S45XS37	51.3	44.6	50.3	35	1
Donmario Seeds	DM 45X61	50.9	—	—	38	1
Credenz	CZ 4600X	50.8	—	—	34	1
USG	7447XTS	50.3	—	—	36	1
Pioneer	P44A72BX	49.2	41.1	—	33	1
Local Seed	LS4583X	49.1	47.1	51.6	32	1
Great Heart Seed	GT-4677XS	48.9	44.8	—	31	1
Asgrow	AG45X8	48.7	46.1	50.3	34	1
Armor	46-D09	48.4	—	—	32	1
Armor	44-D92	48.3	44.5	—	32	1
USG	7461XTS	48.1	—	—	35	1
AgriGold	G4255RX	47.4	—	—	32	1
Progeny Ag	P 4265RXS	46.5	42.9	—	34	1
Progeny Ag	P 4444RXS	46.2	46.1	49.0	36	1
Pioneer	P42A96X	45.6	37.2	42.2	32	1
Progeny Ag	P 4620RXS	45.4	43.0	—	36	1
Donmario Seeds	DM 44X31	45.0	—	—	39	1
Asgrow	AG43X0	44.5	43.4	—	38	1
Mission Seed	A4448X	43.7	42.9	—	28	1
Local Seed	LS4299XS	43.6	41.0	—	33	1
Dyna-Gro	S46XS60	43.3	45.1	—	31	1
Credenz	CZ 4280X	42.4	—	—	33	1
Credenz	CZ 4570X	42.1	—	—	32	1
Asgrow	AG46X0	40.7	41.6	—	35	1
NK Brand	S44-C7X	39.6	35.1	—	33	1
LG Seeds	LGS4464RX	39.5	—	—	34	1
Asgrow	AG46X6	39.4	37.7	46.6	32	1
Local Seed	LS4407X	39.1	36.1	—	32	1
Delta Grow	46X05/STS	37.9	—	—	32	1
Local Seed	LS3976X	36.0	36.3	—	32	1
Credenz	CZ 4341X	33.5	—	—	31	1
Mean		47.2				
CV		17.0				
LSD		13.1				
R ²		55.0				
Error DF		80				

Table 18. Maturity Group IV Late Xtend Nonirrigated Soybean Varieties (Black Belt Branch, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	P 4851RX	62.5	51.0	58.0	38	1
MorSoy	MS 4846 RXT	60.1	56.2	55.2	32	1
LG Seeds	LGS4899RX	59.6	50.4	—	32	1
Credenz	CZ 4941X	58.1	—	—	35	1
Progeny Ag	4970RX	57.7	—	—	34	1
Armor	48-D25	56.7	48.8	—	33	1
Delta Grow	48X45	56.1	55.7	—	34	1
USG	7489XT	56.0	49.6	55.1	32	1
Progeny Ag	P 4816RX	56.0	50.4	54.4	27	1
Taylor Seed	T4990XS	55.9	—	—	38	1
Great Heart	GT-4833XS	55.6	49.4	57.4	37	1
NK Brand	S47-Y9X	54.5	49.1	—	32	1
Credenz	CZ 4770X	53.4	—	—	33	1
Dyna-Gro	S48XT56	53.1	50.3	55.2	31	1
Great Heart	GT-4828X	52.6	—	—	37	1
NK Brand	S49-F5X	52.5	—	—	31	1
Delta Grow	49X15	52.1	50.5	—	36	1
AgriGold	G4820RX	52.0	—	—	33	1
Credenz	CZ 4730X	51.1	—	—	30	1
Local Seed	LS4795XS	51.0	—	—	31	1
Armor	49-D14	50.8	—	—	32	1
Taylor Seed	T4880XS	50.8	—	—	29	1
Dyna-Gro	S49XT70	50.7	50.7	—	35	1
Progeny Ag	P 4821RX	49.8	44.4	—	35	1
Dyna-Gro	S49XT21	49.5	—	—	36	1
Asgrow	AG48X9	49.3	47.7	51.8	33	1
Credenz	CZ 4810X	48.7	—	—	32	1
Great Heart	GT-4979X	47.3	45.3	51.7	36	1
Donmario Seeds	DM 49X13	47.1	51.8	—	36	1
Local Seed	LS4806XS	47.0	—	—	33	1
Dyna-Gro	S47XT20	46.3	45.5	—	33	1
AGS	GS49X21	46.2	—	—	39	1
AGS	GS48X19	46.0	—	—	35	1
Credenz	CZ 4979X	45.9	41.1	—	38	1
Mission Seed	A4828X	45.7	—	—	40	1
Delta Grow	49X25	44.7	51.2	—	37	1
Delta Grow	48X05	44.7	41.4	—	35	1
Mission Seed	A4950X	44.5	44.0	50.9	35	1
Dyna-Gro	S48XT90	44.1	—	—	35	1
Credenz	CZ 4869X	44.1	39.8	—	35	1
USG	7496XTS	43.7	44.1	54.0	37	1
Local Seed	LS4607XS	43.5	—	—	28	1
Progeny Ag	4700RXS	43.1	—	—	32	1
AgriGold	G4995RX	42.9	—	—	31	1
Local Seed	LS4999X	42.8	44.1	—	34	1
USG	7480XT	42.5	—	—	30	1
Delta Grow	47X95	41.9	40.2	—	32	1
Pioneer	P48A60X	41.4	40.7	49.2	35	1
AGS	GS47X19	39.2	35.6	—	34	1
Donmario Seeds	DM 47X39	35.9	—	—	36	1
Mean		49.3				
CV		14.5				
LSD		12.4				
R ²		59.9				
Error DF		98				

Table 19. Maturity Group V Xtend Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Dyna-Gro	GS5261X	53.5	—	—	36	1
Pioneer	P55A49X	51.2	52.7	—	28	1
Great Heart Seed	GT-5214X	48.4	—	—	40	1
Dyna-Gro	S56XT99	48.4	43.1	52.1	30	1
Pioneer	P53A67X	48.1	—	—	28	1
Credenz	CZ 5251X	45.2	—	—	32	1
Credenz	CZ 5420X	42.6	—	—	37	1
Delta Grow	52X05/STS	42.4	42.2	—	35	1
Progeny Ag	P 5554RX	42.2	40.1	49.6	35	1
Progeny Ag	P 5016RXS	41.9	43.2	52.5	39	1
Delta Grow	54X25	40.0	42.9	—	32	1
Asgrow	AG53X9	39.4	41.4	51.0	33	1
Local Seed	LS5009XS	38.9	—	—	39	1
Asgrow	AG53X0	38.8	40.7	—	44	1
NK Brand	S51-R3XS	38.5	38.6	—	30	1
Asgrow	AG55X0	37.1	—	—	30	1
Credenz	CZ 5299X	35.8	37.7	—	38	1
Great Heart Seed	GT-5417X	35.2	—	—	36	1
Local Seed	LS5087X	34.9	36.5	46.5	34	1
Asgrow	AG52X9	34.4	36.3	46.2	39	1
Progeny Ag	P 5252RX	33.5	38.2	48.4	36	1
Donmario Seeds	DM 51X61	32.7	—	—	32	1
Credenz	CZ 5000X	32.6	—	—	33	1
MorSoy	MS 5398 RXT	32.6	—	—	35	1
Progeny Ag	P 5170RX	30.9	35.9	—	40	1
NK Brand	S53-F7X	30.7	32.1	—	33	1
Credenz	CZ 5700	28.6	—	—	28	1
Local Seed	LS5386X	28.4	36.3	—	37	1
Dyna-Gro	S52XS39	27.4	—	—	36	1
Mean		38.4				
CV		23.9				
LSD		15.0				
R ²		51.9				
Error DF		56				

Table 20. Maturity Group IV RR, Liberty, and Conventional Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
U. of Arkansas	R15-2422 *	62.9	—	—	44	2
U. of Missouri	S15-3772RY *	58.3	—	—	38	1
GoSoy	IREANE	58.2	—	—	30	1
Credenz	CZ 4820 LL	57.4	—	—	38	1
U. of Missouri	S16-14730C *	57.3	50.9	—	36	1
U. of Missouri	S16-11644C *	56.9	—	—	34	1
U. of Missouri	S16-7922C *	56.6	—	—	35	1
Go Soy	49G16	56.2	—	—	35	1
U. of Missouri	S16-7875C *	53.9	—	—	35	1
Go Soy	GT Ireane	53.7	—	—	29	1
Petrus Seed	4916 GT	53.6	50.4	56.0	32	1
U. of Missouri	S16-5540R *	53.3	—	—	32	1
U. of Arkansas	R16-259 *	52.7	—	—	34	1
U. of Missouri	S16-14379C *	51.1	50.5	—	37	1
VIRTUE SEEDS	V 4720 S	49.7	43.5	—	34	1
VIRTUE SEEDS	V 4520 S	49.6	42.9	—	32	1
Petrus Seed	4619 GTS	45.7	—	—	31	1
U. of Missouri	S15-3847R *	45.4	—	—	37	1
Go Soy	46G19	44.3	—	—	34	1
Go Soy	48C17S	44.1	44.5	—	32	1
U. of Missouri	S15-10879C *	42.3	—	—	31	1
VIRTUE SEEDS	V 4921 S	41.5	—	—	32	1
U. of Missouri	S15-5904RY *	41.4	—	—	35	1
Local Seed	LS4706GL	39.2	—	—	27	1
Local Seed	LS3906GL	36.5	—	—	30	1
Progeny Ag	4602LR *	33.0	—	—	33	1
Mean		49.8				
CV		12.3				
LSD		10.1				
R ²		71.9				
Error DF		50				

¹Variety followed by an asterisk indicates an experimental entry.

Table 21. Maturity Group V Roundup Ready, Liberty, and Conventional Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Go Soy	50G17	58.4	53.9	58.3	27	1
U. of Missouri	S16-3739RY *	57.1	—	—	36	1
U. of Missouri	S16-3747RY *	54.0	49.6	—	30	1
U. of Arkansas	R13-14635RR *	53.7	—	—	39	1
U. of Missouri	S16-11651C *	52.4	—	—	32	1
U. of Missouri	S16-15809C *	50.5	—	—	40	1
U. of Missouri	S16-15170C *	47.3	—	—	34	1
Petrus Seed	5319 GT	43.8	—	—	32	1
Mean		52.2				
CV		9.9				
LSD		9.1				
R ²		59.4				
Error DF		14				

¹Variety followed by an asterisk indicates an experimental entry.

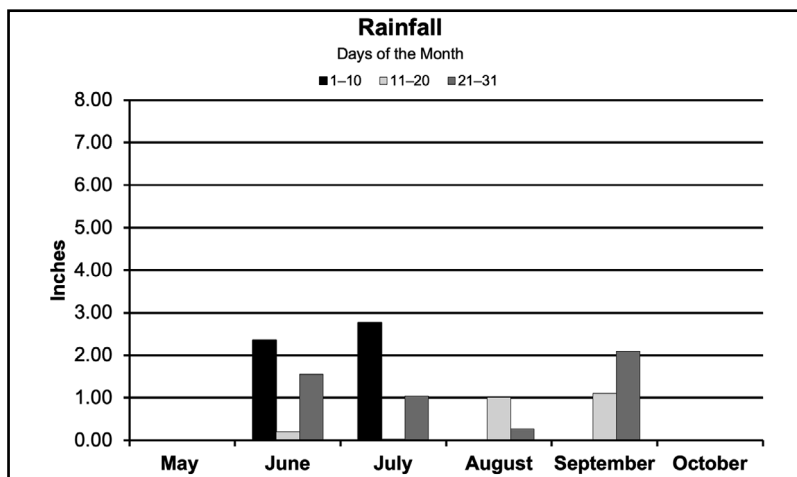
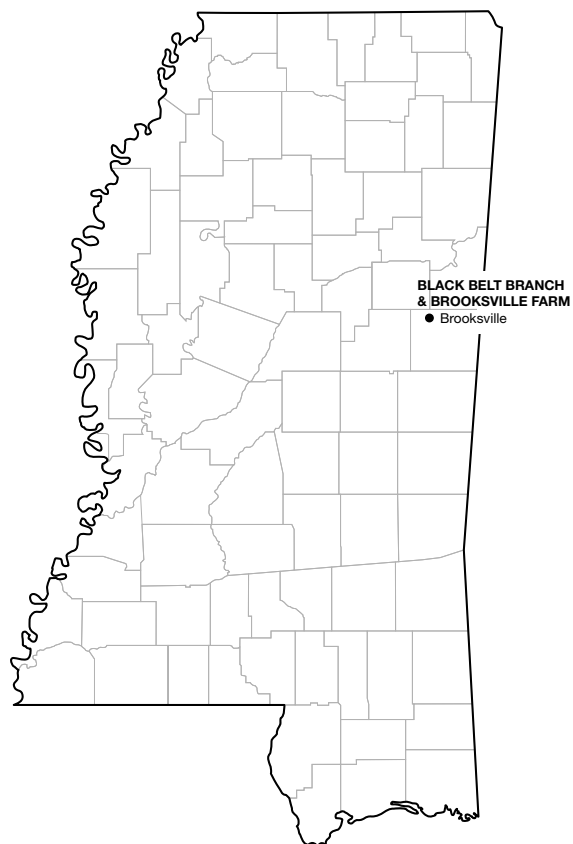
BROOKSVILLE, BROOKSVILLE FARM

Crop Summary

The soybean plots were planted into a stale seedbed that had been prepared the previous fall. Soil moisture at planting was adequate for germination, and all plots quickly emerged to a good stand. Timely rainfall, in com-

bination with irrigation, allowed for good soil moisture throughout the growing season. Harvest was completed in a timely manner and good yields were recorded at this location.

Planting dateApril 30
Harvest dateOctober 6
Soil typeBrooksville silty clay
Soil pH6.8
Soil fertilityP=H, K=H
Previous cropCorn
FertilizerBroiler litter @ 2 tons/A, K @ 100 units, S @ 22 units, Mg @ 11 units
HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on April 30
Postemergence — Roundup PowerMAX @ 32 oz/A and Prefix @ 32 oz/A on June 5
Fungicide/Insecticide ...Acephate @ 0.75 lb/A and Bifenthrin @ 6.4 oz/A on August 5 and September 9
IrrigationMay 25 (0.5"), June 2 (0.75"), June 24 (0.75"), July 5 (0.75")



Rainfall Summary

	Inches
May	0.00
June	4.12
July	3.84
August	1.28
September	3.20
October	0.00
Total	12.44

Table 22. Maturity Group IV Early Xtend Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Delta Grow	46X65/STS	86.9	62.6	—	35	1
Dyna-Gro	S45XS66	85.4	55.1	65.2	43	2
Donmario Seeds	DM 44X31	81.5	—	—	37	1
Great Heart Seed	GT-4677XS	81.3	62.0	—	32	1
AgriGold	G4620RX	81.0	—	—	38	1
LG Seeds	LGS4464RX	80.2	—	—	40	1
Armor	46-D09	79.7	—	—	37	1
Mission Seed	A4448X	79.0	58.5	—	33	1
Dyna-Gro	S46XS60	78.9	59.3	—	35	1
Armor	44-D49	78.4	—	—	38	1
Mission Seed	A4618X	78.3	50.6	61.3	35	1
Pioneer	P46A86X	78.3	—	—	35	1
Credenz	CZ 4570X	77.5	—	—	30	1
LG Seeds	LGS4632RX	77.1	—	—	31	1
Local Seed	LS4583X	77.1	57.1	68.3	35	1
Local Seed	LS4407X	76.9	55.4	—	35	1
Local Seed	LS3976X	76.0	52.1	—	37	1
Asgrow	AG46X6	75.7	57.8	69.7	36	1
Asgrow	AG46X0	75.7	58.0	—	35	1
Credenz	CZ 4600X	75.6	—	—	34	1
USG	7447XTS	75.0	—	—	36	1
Donmario Seeds	DM 45X61	74.8	—	—	39	1
USG	7461XTS	74.5	—	—	36	1
Progeny Ag	P 4505RXS	73.4	—	—	37	1
Progeny Ag	P 4444RXS	72.7	56.4	64.9	32	1
Dyna-Gro	S45XS37	72.7	49.3	60.9	37	1
MorSoy	MS 4616 RXT/STS	71.7	53.5	65.3	37	1
Delta Grow	46X05/STS	71.7	—	—	36	1
Progeny Ag	P 4620RXS	71.3	49.4	—	35	1
Credenz	CZ 4280X	69.4	—	—	37	1
Asgrow	AG43X0	68.6	46.7	—	31	1
Credenz	CZ 4341X	68.0	—	—	34	1
Local Seed	LS4299XS	65.9	45.0	—	38	1
NK Brand	S44-C7X	64.7	45.7	—	28	1
Pioneer	P44A72BX	63.7	47.6	—	32	1
Local Seed	LS4565X	63.1	49.9	62.5	39	1
Asgrow	AG45X8	62.1	47.0	61.7	34	1
Progeny Ag	P 4265RXS	61.5	46.8	—	34	1
AgriGold	G4255RX	61.2	—	—	36	1
Armor	44-D92	58.5	44.4	—	36	1
Pioneer	P42A96X	57.1	41.6	53.9	34	1
Mean		73.2				
CV		9.1				
LSD		11.7				
R ²		61.0				
Error DF		80				

Table 23. Maturity Group IV Late Xtend Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
USG	7489XT	94.5	71.5	76.1	33	1
Dyna-Gro	S48XT56	91.9	69.3	77.1	37	1
Dyna-Gro	S47XT20	90.4	72.9	—	40	1
AGS	GS47X19	88.1	67.9	—	37	1
Armor	48-D25	88.1	67.0	—	34	1
MorSoy	MS 4846 RXT	87.8	66.9	76.9	31	1
Delta Grow	48X45	87.2	67.9	—	35	1
AgriGold	G482ORX	87.0	—	—	37	1
LG Seeds	LGS4899RX	86.9	65.6	—	35	1
Progeny Ag	P 4851RX	86.5	70.0	78.1	35	1
Great Heart	GT-4833XS	86.3	66.6	73.3	41	2
Progeny Ag	P 4816RX	85.6	67.2	74.9	37	1
Local Seed	LS4999X	85.6	66.1	—	40	1
Local Seed	LS4806XS	84.8	—	—	33	1
Mission Seed	A4828X	84.5	—	—	45	3
USG	7480XT	84.1	—	—	36	1
Dyna-Gro	S49XT70	83.6	63.8	—	41	1
Dyna-Gro	S49XT21	83.5	—	—	42	1
Local Seed	LS4795XS	83.0	—	—	33	1
Armor	49-D14	82.9	—	—	39	1
Great Heart	GT-4979X	82.8	64.9	73.9	42	1
Progeny Ag	4970RX	82.7	—	—	39	1
Donmario Seeds	DM 49X13	82.5	62.9	—	41	2
Dyna-Gro	S48XT90	82.2	—	—	39	2
Delta Grow	48X05	82.2	66.1	—	39	1
Great Heart	GT-4828X	82.0	—	—	41	1
Mission Seed	A4950X	82.0	63.6	73.6	43	2
Asgrow	AG48X9	81.8	66.2	75.9	39	1
AGS	GS49X21	81.6	—	—	37	1
Taylor Seed	T4880XS	81.1	—	—	31	1
NK Brand	S47-Y9X	81.0	62.7	—	40	1
Credenz	CZ 4810X	80.5	—	—	37	1
Donmario Seeds	DM 47X39	79.9	—	—	38	2
AGS	GS48X19	79.8	—	—	36	1
Credenz	CZ 4979X	79.5	69.2	—	32	1
USG	7496XTS	79.1	57.1	69.4	38	1
Delta Grow	49X25	78.9	58.1	—	39	1
AgriGold	G4995RX	78.9	—	—	43	2
Credenz	CZ 4770X	78.7	—	—	36	1
NK Brand	S49-F5X	78.3	—	—	38	2
Credenz	CZ 4730X	77.5	—	—	34	1
Delta Grow	49X15	76.9	68.1	—	39	2
Delta Grow	47X95	76.2	60.4	—	38	1
Progeny Ag	P 4821RX	75.8	60.3	—	34	1
Pioneer	P48A60X	75.8	57.2	68.9	38	1
Local Seed	LS4607XS	75.8	—	—	36	1
Credenz	CZ 4941X	71.8	—	—	36	1
Taylor Seed	T4990XS	71.6	—	—	34	1
Credenz	CZ 4869X	67.6	52.1	—	38	2
Progeny Ag	4700RXS	67.5	—	—	37	1
Mean		81.7				
CV		7.3				
LSD		9.7				
R ²		60				
Error DF		98				

Table 24. Maturity Group IV Enlist Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4682E3	83.3	—	—	35	1
Progeny Ag	4807E3S *	81.5	—	—	32	1
Delta Grow	47E80/STS	80.0	—	—	31	1
Local Seed	ZS4694E3S	75.4	55.6	—	33	1
Progeny Ag	4775E3S	73.7	—	—	37	1
Progeny Ag	4241E3	73.4	—	—	30	1
Delta Grow	48E10	71.5	52.9	—	33	1
Progeny Ag	4902E3 *	71.1	—	—	37	2
Go Soy	463E20S	70.6	—	—	39	1
Go Soy	491E19S	69.9	—	—	46	1
Go Soy	481E19	69.8	—	—	36	1
Delta Grow	48E28XP	69.6	52.7	—	37	1
Progeny Ag	4908E3S *	69.2	—	—	44	1
Pioneer	P49T62E	68.5	—	—	31	1
Delta Grow	47E20/STS	68.2	—	—	37	1
Delta Grow	48E49/STS	66.9	53.3	—	35	2
Delta Grow	49E00/STS	65.6	—	—	33	1
Armor	48-E81	64.6	—	—	31	1
Go Soy	473E20	64.1	—	—	37	1
MorSoy	MS 4800E	62.5	—	—	36	1
DONMARIO	DM 48E73	62.4	44.9	—	26	1
USG	7491ETS	61.4	—	—	29	1
Mean		70.1				
CV		10.2				
LSD		11.8				
R ²		51.6				
Error DF		42.0				

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

Table 25. Maturity Group V Xtend Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Pioneer	P53A67X	85.3	—	—	32	1
Local Seed	LS5009XS	84.5	—	—	44	2
Donmario Seeds	DM 51X61	82.2	—	—	36	1
NK Brand	S53-F7X	80.8	61.7	—	40	1
Dyna-Gro	GS5261X	80.2	—	—	36	1
Progeny Ag	P 5252RX	79.2	62.6	67.2	40	1
Asgrow	AG52X9	79.1	57.1	68.5	40	1
Dyna-Gro	S52XS39	78.0	—	—	52	1
Asgrow	AG53X9	77.8	53.4	59.3	38	1
Local Seed	LS5386X	77.6	48.6	—	42	1
Dyna-Gro	S56XT99	77.3	63.0	66.6	31	1
MorSoy	MS 5398 RXT	76.9	—	—	40	1
Pioneer	P55A49X	76.7	64.5	—	27	1
Great Heart Seed	GT-5417X	75.4	—	—	40	1
Great Heart Seed	GT-5214X	75.3	—	—	43	1
Credenz	CZ 5000X	74.7	—	—	44	1
Progeny Ag	P 5554RX	74.2	57.4	66.9	31	1
Credenz	CZ 5420X	74.1	—	—	46	1
Delta Grow	54X25	74.0	48.7	—	32	1
Progeny Ag	P 5170RX	72.8	54.3	—	42	1
NK Brand	S51-R3XS	72.4	48.8	—	33	1
Asgrow	AG53X0	71.5	56.2	—	44	1
Credenz	CZ 5299X	71.3	57.1	—	46	1
Delta Grow	52X05/STS	71.2	60.6	—	44	1
Local Seed	LS5087X	71.0	49.8	63.0	47	2
Credenz	CZ 5251X	70.6	—	—	37	1
Progeny Ag	P 5016RXS	69.2	48.9	54.0	38	1
Asgrow	AG55X0	63.8	—	—	31	1
Credenz	CZ 5700	57.2	—	—	30	1
Mean		75.0				
CV		7.2				
LSD		8.8				
R ²		67.0				
Error DF		56				

Table 26. Maturity Group V Enlist Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg. ¹	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	5211E3	75.4	—	—	34	1
Go Soy	512E21	73.0	—	—	37	1
Delta Grow	51E60	72.6	—	—	42	1
MorSoy	MS 5110E	71.2	—	—	40	1
Local Seed	ZS5098E3	66.0	—	—	49	1
Armor	51-E53	64.5	—	—	52	1
Delta Grow	52E15/STS	62.4	—	—	46	1
Mean		69.3				
CV		5.8				
LSD		7.1				
R ²		73.7				
Error DF		12				

¹No 2-year average.
²No 3-year average.

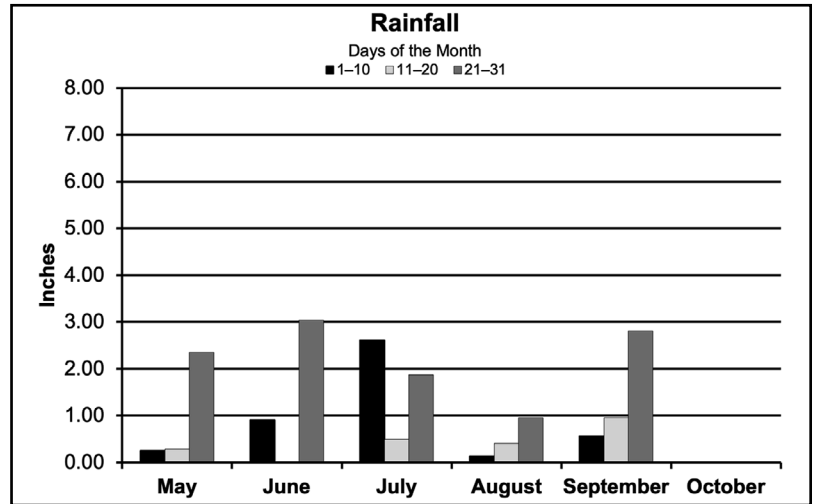
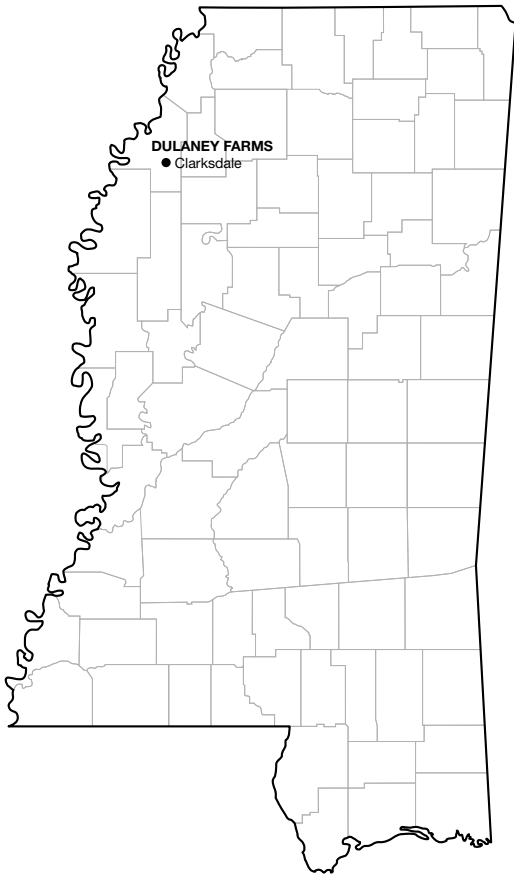
CLARKSDALE IRRIGATED, DULANEY FARMS

Crop Summary

The soybean plots were planted in early May into a stale seedbed with adequate moisture for germination. All plots quickly emerged to a good stand. Timely rains and furrow irrigation supplied the plants with good soil mois-

ture throughout the growing season. Harvest was completed in a timely manner, and good yields were recorded at this location.

Planting date ... May 5
 Harvest date ... October 7
 Soil typeDundee silty clay and Sharkey clay
 Soil pH6.8
 Soil fertilityP=H, K=H
 Previous crop ..Soybeans
 HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 5
 Postemergence — Roundup PowerMax @ 32 oz/A and Select Max @ 16 oz/A on July 13
 IrrigationFurrow irrigated as needed



Rainfall Summary

	Inches
May	2.88
June	3.96
July	4.97
August	1.49
September	4.32
October	0.00
Total.....	17.62

Table 27. Maturity Group IV Early Xtend Irrigated Soybean Varieties (Dulaney Farms, Clarksdale).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Asgrow	AG46X6	99.3	96.5	98.8	38	2
Progeny Ag	P 4505RXS	97.6	—	—	37	2
LG Seeds	LGS4632RX	97.4	—	—	35	1
Great Heart Seed	GT-4677XS	97.1	89.0	—	35	1
USG	7461XTS	95.8	—	—	34	2
Armor	44-D49	94.5	—	—	38	2
Delta Grow	46X65/STS	94.0	89.7	—	38	1
Dyna-Gro	S46XS60	93.1	87.2	—	36	1
Dyna-Gro	S45XS66	93.0	93.4	95.0	39	2
Progeny Ag	P 4620RXS	92.8	89.9	—	44	2
NK Brand	S44-C7X	92.5	90.4	—	34	1
Donmaro Seeds	DM 45X61	92.2	—	—	39	2
Delta Grow	46X05/STS	92.0	—	—	38	1
Asgrow	AG46X0	91.8	87.3	—	38	2
Mission Seed	A4618X	91.8	87.4	87.1	38	1
Armor	46-D09	91.7	—	—	42	2
Local Seed	LS4565X	91.0	88.4	88.1	45	2
Pioneer	P46A86X	90.9	—	—	35	1
Dyna-Gro	S45XS37	90.2	91.2	92.2	42	2
Pioneer	P44A72BX	89.8	84.7	—	39	2
Local Seed	LS4583X	89.4	85.2	91.6	37	1
Credenz	CZ 4570X	89.4	—	—	33	2
Donmaro Seeds	DM 44X31	89.1	—	—	37	3
MorSoy	MS 4616 RXT/STS	88.9	91.1	93.7	39	2
Credenz	CZ 4600X	88.6	—	—	38	1
Local Seed	LS4407X	88.5	86.3	—	36	2
Progeny Ag	P 4265RXS	88.1	83.2	—	38	1
AgriGold	G4620RX	87.1	—	—	35	1
Asgrow	AG45X8	86.7	88.8	91.3	34	2
AgriGold	G4255RX	86.5	—	—	35	1
Local Seed	LS4299XS	85.8	80.7	—	38	1
Progeny Ag	P 4444RXS	84.1	82.3	87.9	37	2
Armor	44-D92	83.8	82.2	—	37	1
Asgrow	AG43X0	83.4	79.4	—	31	1
USG	7447XTS	81.9	—	—	39	3
Mission Seed	A4448X	81.9	82.5	—	32	1
LG Seeds	LGS4464RX	81.7	—	—	32	1
Pioneer	P42A96X	81.2	81.1	86.1	36	1
Credenz	CZ 4341X	80.4	—	—	37	1
Credenz	CZ 4280X	75.0	—	—	36	1
Local Seed	LS3976X	71.8	74.3	—	33	2
Mean		88.8				
CV		5.5				
LSD		8.0				
R ²		70.9				
Error DF		80				

Table 28. IV Late Xtend Irrigated Soybean Varieties (Dulaney Farms, Clarksdale).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Great Heart	GT-4979X	101.6	96.8	98.2	42	2
Delta Grow	48X05	99.4	93.8	—	38	1
Progeny Ag	4970RX	98.8	—	—	38	1
AgriGold	G4820RX	98.5	—	—	36	1
Asgrow	AG48X9	98.2	94.8	95.5	38	2
Delta Grow	47X95	97.7	93.6	—	40	2
Progeny Ag	P 4816RX	96.8	94.1	94.4	42	1
Dyna-Gro	S48XT90	96.6	—	—	38	2
Progeny Ag	4700RXS	96.2	—	—	38	2
USG	7489XT	96.0	93.2	92.6	34	1
Progeny Ag	P 4821RX	95.9	93.7	—	38	2
Dyna-Gro	S48XT56	95.7	94.6	94.7	34	1
LG Seeds	LGS4899RX	95.6	90.7	—	36	1
Local Seed	LS4806XS	95.3	—	—	36	1
AgriGold	G4995RX	95.2	—	—	45	2
Armor	48-D25	95.2	92.6	—	37	1
AGS	GS47X19	94.8	90.7	—	36	2
Local Seed	LS4795XS	94.6	—	—	35	1
Dyna-Gro	S49XT70	94.4	90.5	—	41	1
NK Brand	S49-F5X	93.9	—	—	36	1
MorSoy	MS 4846 RXT	93.8	93.2	92.2	38	1
Progeny Ag	P 4851RX	93.6	91.3	94.4	39	4
Donmario Seeds	DM 47X39	93.5	—	—	37	1
Credenz	CZ 4979X	93.5	90.7	—	31	2
Local Seed	LS4999X	93.2	89.4	—	35	1
Donmario Seeds	DM 49X13	92.9	90.6	—	37	1
Armor	49-D14	92.6	—	—	36	2
USG	7480XT	92.4	—	—	38	2
Delta Grow	48X45	91.9	92.5	—	35	1
Mission Seed	A4950X	91.9	91.0	93.9	42	1
Pioneer	P48A60X	91.5	89.3	90.8	35	1
Delta Grow	49X15	91.4	88.8	—	40	2
NK Brand	S47-Y9X	90.7	90.2	—	33	1
Taylor Seed	T4880XS	90.5	—	—	34	1
Great Heart	GT-4828X	90.2	—	—	40	1
Credenz	CZ 4770X	90.2	—	—	40	2
Credenz	CZ 4730X	89.5	—	—	35	1
Great Heart	GT-4833XS	89.5	87.0	90.2	43	2
Local Seed	LS4607XS	89.4	—	—	34	1
USG	7496XTS	89.0	85.2	89.3	34	1
Mission Seed	A4828X	89.0	—	—	39	3
Credenz	CZ 4869X	88.5	86.2	—	35	2
AGS	GS48X19	88.5	—	—	39	1
Dyna-Gro	S49XT21	87.6	—	—	36	1
Taylor Seed	T4990XS	87.3	—	—	37	1
Dyna-Gro	S47XT20	86.5	86.2	—	36	1
Credenz	CZ 4810X	86.4	—	—	34	1
AGS	GS49X21	84.9	—	—	37	2
Credenz	CZ 4941X	83.4	—	—	41	2
Delta Grow	49X25	83.1	84.3	—	35	1
Mean		92.5				
CV		4.4				
LSD		6.5				
R ²		65				
Error DF		98				

Table 29. Maturity Group V Xtend Irrigated Soybean Varieties (Dulaney Farms, Clarksdale).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Pioneer	P55A49X	94.0	92.4	—	27	1
Local Seed	LS5009XS	93.5	—	—	41	2
Donmario Seeds	DM 51X61	92.8	—	—	35	1
Progeny Ag	P 5554RX	92.7	86.0	87.1	35	1
MorSoy	MS 5398 RXT	91.5	—	—	39	1
Credeuz	CZ 5000X	90.7	—	—	37	2
Dyna-Gro	S56X199	90.5	89.3	88.6	38	1
Local Seed	LS5087X	89.7	92.6	93.7	39	2
Asgrow	AG52X9	89.2	87.8	89.2	38	1
Pioneer	P53A67X	88.8	—	—	28	1
Local Seed	LS5386X	88.2	87.3	—	36	1
Asgrow	AG55X0	87.9	—	—	32	1
Asgrow	AG53X9	86.9	89.5	91.1	36	1
Credeuz	CZ 5299X	85.7	88.1	—	43	1
Delta Grow	52X05/STS	85.5	87.3	—	42	1
Dyna-Gro	GS5261X	85.0	—	—	38	1
NK Brand	S51-R3XS	85.0	86.9	—	35	2
Progeny Ag	P 5252RX	84.8	87.5	84.4	47	2
Credeuz	CZ 5251X	84.7	—	—	40	1
Dyna-Gro	S52XS39	83.7	—	—	45	1
Great Heart Seed	GT-5214X	83.5	—	—	44	1
NK Brand	S53-F7X	83.3	84.8	—	42	1
Delta Grow	54X25	82.6	83.2	—	31	1
Great Heart Seed	GT-5417X	82.5	—	—	38	1
Progeny Ag	P 5016RXS	82.4	80.9	84.0	39	1
Credeuz	CZ 5700	82.3	—	—	30	1
Credeuz	CZ 5420X	82.0	—	—	43	2
Progeny Ag	P 5170RX	79.8	78.5	—	44	1
Asgrow	AG53X0	79.6	76.1	—	44	3
Mean		86.5				
CV		5.6				
LSD		7.8				
R ²		55.0				
Error DF		56				

LONGWOOD, STEELE FARMS

Crop Summary

The soybean plots were planted in early May into a stale, raised seedbed with good soil moisture for germination. All plots quickly emerged to a good stand. Timely rains, in combination with furrow irrigation, supplied

good soil moisture throughout the growing season. Harvest was completed in a timely manner just prior to heavy rains brought on my hurricane activity in the Gulf. Excellent yields were observed at this location.

Planting date ... May 4

Harvest date October 8

Soil type Sharkey clay

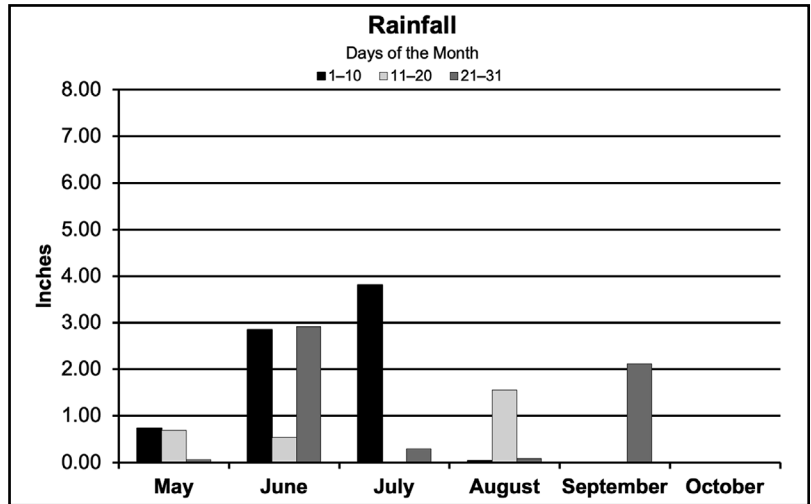
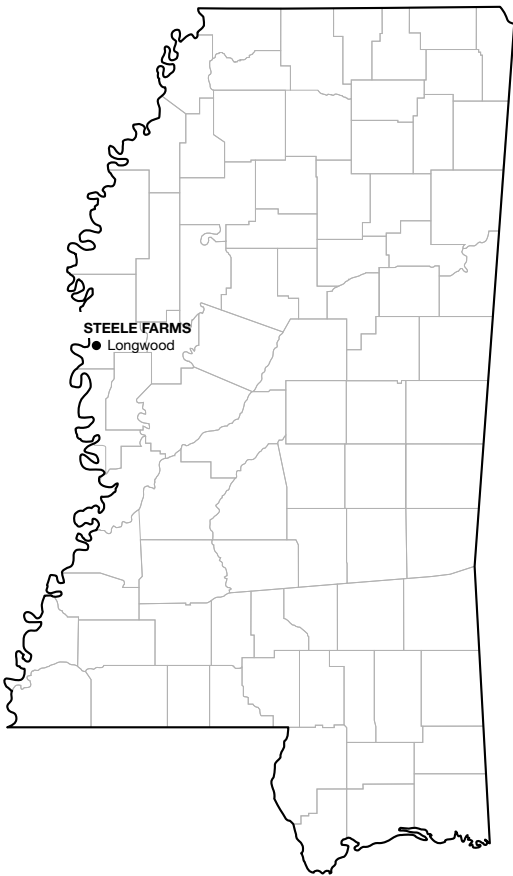
Soil pH 7.0

Soil fertility P=H, K=H

Previous crop ... Rice

Herbicides Preemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 4
 Postemergence — Select Max @ 16 oz/A and FirstRate @ 0.3 oz/A

Irrigation Furrow irrigated as needed



Rainfall Summary

	Inches
May	1.49
June	6.29
July	4.10
August	1.66
September	2.12
October	0.00
Total	15.66

Table 30. Maturity Group IV Early Xtend Irrigated Soybean Varieties (Steele Farms, Longwood).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	P 4505RXS	125.0	—	—	32	1
Mission Seed	A4618X	124.3	103.8	98.8	40	2
Dyna-Gro	S45XS37	123.9	108.1	103.6	39	1
Donmario Seeds	DM 45X61	123.2	—	—	40	2
Local Seed	LS4565X	122.2	97.9	94.2	38	1
Armor	44-D49	121.9	—	—	37	2
Pioneer	P46A86X	121.0	—	—	38	2
Armor	46-D09	120.9	—	—	42	2
LG Seeds	LGS4632RX	118.4	—	—	34	1
Delta Grow	46X05/STS	118.2	—	—	32	1
Dyna-Gro	S45XS66	117.4	107.0	93.8	42	2
USG	7461XTS	116.9	—	—	38	1
Asgrow	AG46X6	116.7	106.6	99.4	35	2
Asgrow	AG46X0	116.2	103.4	—	41	1
Local Seed	LS4583X	116.2	98.0	92.3	36	1
AgriGold	G4620RX	116.2	—	—	33	1
NK Brand	S44-C7X	115.6	98.1	—	31	1
Progeny Ag	P 4620RXS	114.9	94.3	—	37	1
Progeny Ag	P 4265RXS	113.7	88.6	—	30	1
MorSoy	MS 4616 RXT/STS	113.7	98.9	90.6	40	1
Asgrow	AG45X8	112.8	98.0	94.8	31	1
AgriGold	G4255RX	111.7	—	—	36	1
Mission Seed	A4448X	111.2	100.1	—	31	1
Progeny Ag	P 4444RXS	111.0	96.0	97.9	29	1
Credenz	CZ 4600X	110.9	—	—	33	1
Donmario Seeds	DM 44X31	110.4	—	—	32	1
Pioneer	P44A72BX	109.6	94.4	—	35	2
Credenz	CZ 4280X	109.1	—	—	30	1
USG	7447XTS	107.4	—	—	39	2
Armor	44-D92	106.9	88.7	—	38	1
Great Heart Seed	GT-4677XS	106.6	91.5	—	34	1
Local Seed	LS4299XS	106.2	87.1	—	24	1
Delta Grow	46X65/STS	103.2	95.7	—	32	1
Dyna-Gro	S46XS60	101.2	87.2	—	27	2
Credenz	CZ 4570X	100.9	—	—	32	3
Asgrow	AG43X0	100.8	85.0	—	32	1
Local Seed	LS4407X	99.9	92.7	—	36	2
LG Seeds	LGS4464RX	96.4	—	—	35	2
Pioneer	P42A96X	96.3	80.1	85.0	32	1
Local Seed	LS3976X	90.5	75.6	—	30	1
Credenz	CZ 4341X	90.0	—	—	32	2
Mean		111.4				
CV		5.8				
LSD		10.5				
R ²		78.0				
Error DF		80				

Table 31. Maturity Group IV Late Xtend Irrigated Soybean Varieties (Steele Farms, Longwood).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Great Heart	GT-4828X	120.8	—	—	37	1
Progeny Ag	P 4816RX	117.7	102.4	100.2	33	1
Dyna-Gro	S48XT56	117.5	107.0	101.8	37	1
AGS	GS49X21	115.4	—	—	42	1
USG	7489XT	114.6	102.4	99.6	37	1
Great Heart	GT-4833XS	114.5	103.8	102.3	37	2
NK Brand	S49-F5X	114.1	—	—	31	1
Local Seed	LS4806XS	113.2	—	—	36	1
Dyna-Gro	S49XT70	113.1	100.4	—	38	1
Mission Seed	A4950X	112.8	102.5	97.2	41	2
Great Heart	GT-4979X	111.6	102.9	103.9	40	2
Credenz	CZ 4770X	111.0	—	—	37	1
Progeny Ag	4970RX	110.9	—	—	37	2
MorSoy	MS 4846 RXT	110.9	101.6	99.0	32	1
AgriGold	G4820RX	110.6	—	—	35	1
Local Seed	LS4607XS	109.8	—	—	39	2
Delta Grow	48X45	109.6	102.7	—	33	1
AGS	GS47X19	109.5	98.5	—	38	2
Delta Grow	48X05	108.2	102.6	—	37	2
Local Seed	LS4999X	108.0	101.7	—	40	1
Armor	49-D14	107.8	—	—	38	2
Progeny Ag	4700RXS	107.3	—	—	36	1
Mission Seed	A4828X	107.0	—	—	42	2
Dyna-Gro	S48XT90	106.4	—	—	36	2
Dyna-Gro	S49XT21	106.1	—	—	39	1
Donmario Seeds	DM 49X13	104.6	98.8	—	33	2
Credenz	CZ 4810X	103.9	—	—	38	1
Delta Grow	49X25	103.4	91.3	—	39	1
Armor	48-D25	103.0	95.8	—	36	1
AgriGold	G4995RX	102.3	—	—	37	3
Taylor Seed	T4880XS	101.6	—	—	34	1
USG	7480XT	100.8	—	—	36	1
USG	7496XTS	100.3	84.7	89.3	40	1
Credenz	CZ 4730X	100.1	—	—	36	1
Dyna-Gro	S47XT20	100.0	94.8	—	35	1
AGS	GS48X19	99.7	—	—	34	1
Asgrow	AG48X9	98.9	94.7	94.6	35	2
Delta Grow	47X95	98.8	92.2	—	34	2
Delta Grow	49X15	98.2	93.3	—	37	3
Credenz	CZ 4979X	97.5	97.8	—	40	3
Taylor Seed	T4990XS	97.0	—	—	39	1
LG Seeds	LGS4899RX	96.6	88.3	—	32	1
Local Seed	LS4795XS	95.7	—	—	35	1
Credenz	CZ 4869X	95.0	89.3	—	37	1
NK Brand	S47-Y9X	94.7	88.5	—	39	1
Pioneer	P48A60X	94.1	88.6	87.4	35	1
Progeny Ag	P 4821RX	92.9	88.2	—	36	3
Donmario Seeds	DM 47X39	90.0	—	—	33	2
Credenz	CZ 4941X	87.8	—	—	38	1
Progeny Ag	P 4851RX	85.9	95.0	97.7	37	4
Mean		104.6				
CV		9.6				
LSD		16.3				
R ²		51				
Error DF		98				

Table 32. Maturity Group V Xtend Irrigated Soybean Varieties (Steele Farms, Longwood).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Delta Grow	52X05/STS	120.5	103.3	—	47	1
Donmario Seeds	DM 51X61	119.5	—	—	34	2
Asgrow	AG53X0	119.2	101.9	—	39	1
Local Seed	LS5009XS	119.1	—	—	38	3
Local Seed	LS5087X	117.6	103.1	113.2	43	2
Pioneer	P55A49X	117.0	98.5	—	26	1
Progeny Ag	P 5554RX	115.6	93.5	107.7	31	1
Credenz	CZ 5299X	114.6	103.0	—	45	2
Progeny Ag	P 5170RX	114.2	99.6	—	38	2
Asgrow	AG52X9	113.3	100.1	102.2	42	1
Asgrow	AG53X9	111.6	94.7	95.2	32	1
Progeny Ag	P 5252RX	111.5	99.8	114.5	50	3
Dyna-Gro	S52XS39	109.3	—	—	46	2
Pioneer	P53A67X	108.1	—	—	26	1
Dyna-Gro	S56XT99	108.1	100.5	103.1	39	1
NK Brand	S53-F7X	108.0	93.3	—	43	1
Credenz	CZ 5420X	107.7	—	—	44	2
Delta Grow	54X25	107.6	89.0	—	34	1
Great Heart Seed	GT-5417X	107.4	—	—	35	1
Local Seed	LS5386X	107.3	94.1	—	43	1
Progeny Ag	P 5016RXS	107.2	85.6	95.6	34	1
Credenz	CZ 5251X	106.8	—	—	39	1
MorSoy	MS 5398 RXT	103.7	—	—	35	1
Credenz	CZ 5000X	103.2	—	—	38	2
Dyna-Gro	GS5261X	103.1	—	—	33	1
NK Brand	S51-R3XS	101.8	93.0	—	34	1
Asgrow	AG55X0	99.6	—	—	32	1
Great Heart Seed	GT-5214X	99.2	—	—	45	3
Credenz	CZ 5700	85.5	—	—	30	1
Mean		109.2				
CV		6.7				
LSD		12.0				
R ²		65.0				
Error DF		56				

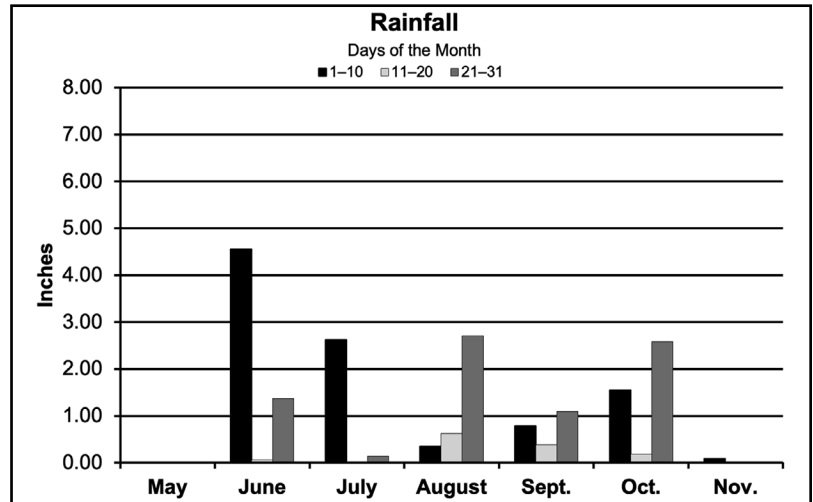
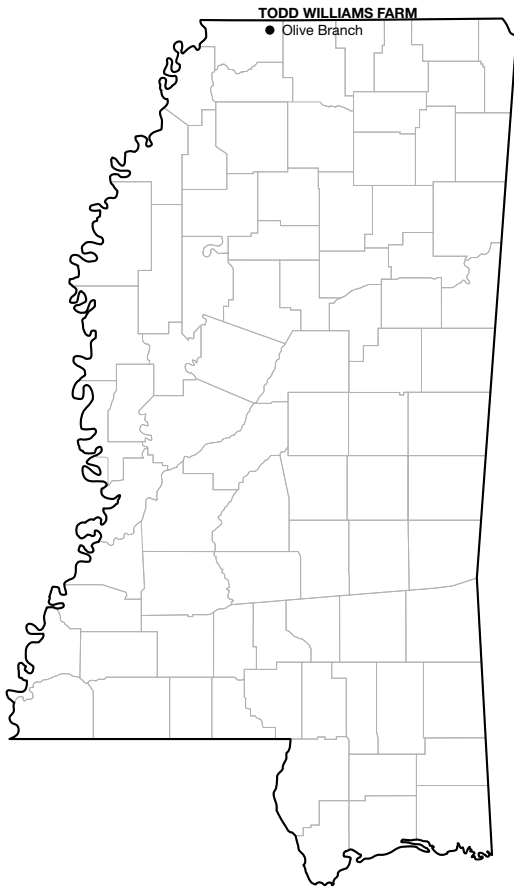
OLIVE BRANCH, TODD WILLIAMS FARM

Crop Summary

The soybean plots were planted late May into soil with moisture optimum for germination and emergence. All plots quickly came up to a good stand. Rainfall during the growing season supplied enough soil moisture to provide

what the plants needed throughout the season. Fall rains delayed harvest without affecting yield or seed quality. Harvest was completed at the first opportunity, and good yield were observed at this location.

Planting date ...May 21
 Harvest date ...November 5
 Soil typeCollins silt loam and Falaya silty clay loam
 Soil pH6.2
 Soil fertilityP=H, K=H
 Previous crop ...Corn
 FertilizerPreplant — 0-30-90-15S-1B
 HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 21
 Postemergence — Roundup PowerMax @ 24 oz/A, FirstRate @ 0.3 oz/A, and Dual II Magnum at 24 oz/A on June 30



Rainfall Summary

Month	Inches
May	0.00
June	5.98
July	2.76
August	3.68
September	2.26
October	4.31
November	0.09
Total	19.08

Table 33. Maturity Group IV Early Xtend Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Pioneer	P46A86X	98.7	—	—	47	2
USG	7461XTS	96.2	—	—	42	1
Armor	44-D49	95.8	—	—	45	1
USG	7447XTS	95.4	—	—	40	1
Dyna-Gro	S46XS60	93.2	77.5	—	40	1
Asgrow	AG46X0	91.8	77.7	—	42	1
NK Brand	S44-C7X	91.6	87.6	—	37	1
Dyna-Gro	S45XS66	90.3	85.1	84.7	48	2
Asgrow	AG46X6	89.5	84.9	86.3	47	3
Mission Seed	A4448X	89.2	80.2	—	40	3
Delta Grow	46X65/STS	87.3	78.5	—	41	2
LG Seeds	LGS4632RX	86.8	—	—	41	1
Pioneer	P44A72BX	86.2	72.1	—	41	1
Armor	44-D92	85.3	69.0	—	42	1
Donmario Seeds	DM 44X31	84.8	—	—	38	1
AgriGold	G4620RX	84.7	—	—	43	1
Progeny Ag	P 4505RXS	83.8	—	—	45	2
Armor	46-D09	83.5	—	—	41	1
Mission Seed	A4618X	83.2	81.0	84.1	47	1
Asgrow	AG43X0	82.8	72.3	—	42	1
Credenz	CZ 4341X	82.6	—	—	41	1
Local Seed	LS4583X	82.5	75.6	80.3	44	1
Local Seed	LS4407X	82.2	75.4	—	37	1
AgriGold	G4255RX	81.3	—	—	40	1
Local Seed	LS4565X	81.2	70.8	81.3	43	2
Asgrow	AG45X8	80.9	79.7	85.6	41	2
Delta Grow	46X05/STS	80.5	—	—	38	1
Pioneer	P42A96X	80.3	66.3	72.6	44	1
MorSoy	MS 4616 RXT/STS	79.3	75.7	76.8	44	1
Credenz	CZ 4600X	78.7	—	—	38	1
LG Seeds	LGS4464RX	78.4	—	—	39	1
Progeny Ag	P 4620RXS	78.3	63.3	—	46	2
Donmario Seeds	DM 45X61	78.2	—	—	45	2
Progeny Ag	P 4444RXS	77.9	76.7	78.6	45	1
Dyna-Gro	S45XS37	77.5	75.6	82.0	47	1
Great Heart Seed	GT-4677XS	77.3	79.3	—	37	1
Credenz	CZ 4570X	76.0	—	—	41	2
Progeny Ag	P 4265RXS	71.5	63.2	—	38	1
Local Seed	LS3976X	71.4	74.6	—	38	1
Local Seed	LS4299XS	70.5	63.5	—	39	1
Credenz	CZ 4280X	62.3	—	—	37	1
Mean		83.1				
CV		12.2				
LSD		16.4				
R ²		55.2				
Error DF		80				

Table 34. Maturity Group IV Late Xtend Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Armor	48-D25	96.3	88.1	—	41	1
Credenz	CZ 4770X	91.7	—	—	38	1
LG Seeds	LGS4899RX	88.8	84.6	—	37	1
Dyna-Gro	S47XT20	87.6	87.7	—	44	1
Local Seed	LS4806XS	87.5	—	—	44	1
Dyna-Gro	S49XT21	87.2	—	—	45	1
Dyna-Gro	S48XT56	86.9	87.0	88.0	41	1
Dyna-Gro	S48XT90	85.1	—	—	45	1
Taylor Seed	T4880XS	85.0	—	—	36	2
Armor	49-D14	83.7	—	—	44	1
Progeny Ag	P 4816RX	83.4	81.0	84.6	39	1
NK Brand	S49-F5X	83.3	—	—	39	1
USG	7489XT	82.7	82.0	84.7	38	1
Delta Grow	48X45	81.3	78.5	—	36	3
Local Seed	LS4607XS	81.3	—	—	47	2
NK Brand	S47-Y9X	79.7	77.0	—	33	1
USG	7480XT	79.7	—	—	41	1
Delta Grow	47X95	79.6	73.8	—	38	1
AgriGold	G4820RX	78.9	—	—	36	1
AGS	GS47X19	78.6	77.7	—	42	4
Credenz	CZ 4810X	78.5	—	—	38	1
Great Heart	GT-4833XS	78.4	83.2	83.1	47	3
Great Heart	GT-4979X	78.1	80.6	81.8	48	1
Local Seed	LS4999X	78.0	80.2	—	47	2
Credenz	CZ 4979X	77.8	81.6	—	49	2
Progeny Ag	4970RX	76.9	—	—	44	3
Asgrow	AG48X9	76.9	78.7	83.5	41	1
Pioneer	P48A60X	76.8	83.7	87.9	38	1
Local Seed	LS4795XS	76.4	—	—	43	1
USG	7496XTS	76.2	74.8	81.8	40	1
Great Heart	GT-4828X	75.9	—	—	43	1
MorSoy	MS 4846 RXT	75.8	83.5	88.2	40	1
AGS	GS48X19	75.8	—	—	44	1
Credenz	CZ 4730X	74.7	—	—	40	2
Dyna-Gro	S49XT170	74.3	76.4	—	46	1
Mission Seed	A4950X	73.8	72.8	75.7	42	1
Donmario Seeds	DM 49X13	73.8	77.3	—	41	2
Taylor Seed	T4990XS	73.5	—	—	38	1
Progeny Ag	4700RXS	72.6	—	—	40	1
Delta Grow	49X15	72.5	75.3	—	45	1
Delta Grow	49X25	72.4	78.6	—	43	3
Delta Grow	48X05	72.0	76.6	—	38	1
Progeny Ag	P 4821RX	71.2	77.2	—	42	1
Donmario Seeds	DM 47X39	71.1	—	—	41	1
AgriGold	G4995RX	70.3	—	—	43	1
Progeny Ag	P 4851RX	70.0	69.7	76.7	46	4
AGS	GS49X21	68.3	—	—	49	1
Credenz	CZ 4941X	67.3	—	—	43	1
Credenz	CZ 4869X	65.8	68.6	—	40	1
Mission Seed	A4828X	64.2	—	—	47	3
Mean		78.0				
CV		11.3				
LSD		14.3				
R ²		69.4				
Error DF		98				

Table 35. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4775E3S	80.5	—	—	42	1
Delta Grow	47E80/STS	78.9	—	—	35	1
Pioneer	P49T62E	78.5	—	—	34	1
Progeny Ag	4902E3 *	74.4	—	—	43	3
Go Soy	481E19	73.6	—	—	44	1
Delta Grow	48E10	73.5	74.4	—	40	1
Local Seed	ZS4694E3S	72.6	77.8	—	34	1
Progeny Ag	4241E3	69.6	—	—	39	2
Delta Grow	48E49/STS	67.5	71.7	—	35	1
Delta Grow	48E28XP	67.0	76.3	—	38	2
Go Soy	463E20S	66.1	—	—	40	1
Progeny Ag	4807E3S *	65.7	—	—	40	4
Progeny Ag	4682E3	64.8	—	—	39	1
Delta Grow	47E20/STS	64.3	—	—	36	1
Progeny Ag	4908E3S *	64.2	—	—	50	1
Armor	48-E81	64.2	—	—	39	2
MorSoy	MS 4800E	62.2	—	—	37	1
DONMARIO	DM 48E73	59.3	66.6	—	38	1
Go Soy	491E19S	59.0	—	—	48	1
Go Soy	473E20	58.8	—	—	38	1
USG	7491ETS	57.8	—	—	37	1
Delta Grow	49E00/STS	56.0	—	—	35	1
Mean		67.2				
CV		10.7				
LSD		11.9				
R ²		78.8				
Error DF		42				

¹Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

Table 36. Maturity Group V Xtend Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Pioneer	P55A49X	91.8	77.5	—	35	1
Pioneer	P53A67X	88.2	—	—	33	4
Progeny Ag	P 5554RX	86.0	77.4	80.5	38	1
Credenz	CZ 5000X	84.3	—	—	40	1
Local Seed	LS5009XS	83.8	—	—	42	2
Progeny Ag	P 5252RX	83.3	79.5	84.7	44	2
Asgrow	AG53X9	82.7	79.6	82.2	41	1
Dyna-Gro	S56XT99	82.2	77.1	83.1	36	1
NK Brand	S53-F7X	81.5	82.6	—	48	1
Local Seed	LS5386X	80.8	77.0	—	39	1
Credenz	CZ 5700	78.8	—	—	39	1
Asgrow	AG55X0	77.6	—	—	50	1
Dyna-Gro	S52XS39	77.5	—	—	45	1
Credenz	CZ 5420X	77.1	—	—	46	1
Delta Grow	52X05/STS	76.6	75.0	—	42	2
Donmario Seeds	DM 51X61	76.6	—	—	41	2
Asgrow	AG52X9	76.3	75.1	81.2	43	1
Delta Grow	54X25	75.8	69.9	—	35	1
Credenz	CZ 5251X	74.7	—	—	38	1
Dyna-Gro	GS5261X	74.2	—	—	43	1
Credenz	CZ 5299X	72.9	69.6	—	43	1
Progeny Ag	P 5170RX	72.0	75.1	—	44	2
MorSoy	MS 5398 RXT	71.7	—	—	50	1
Great Heart Seed	GT-5417X	71.7	—	—	42	2
NK Brand	S51-R3XS	69.8	73.1	—	36	2
Progeny Ag	P 5016RXS	68.6	67.8	78.4	44	1
Local Seed	LS5087X	65.3	70.0	80.8	41	1
Great Heart Seed	GT-5214X	64.0	—	—	42	4
Asgrow	AG53X0	59.8	67.7	—	49	1
Mean		76.7				
CV		10.1				
LSD		12.7				
R ²		80.1				
Error DF		56				

Table 37. Maturity Group V Enlist Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg. ¹	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Armor	51-E53	72.8	—	—	47	2
Delta Grow	51E60	72.5	—	—	44	3
Local Seed	ZS5098E3	67.0	—	—	52	2
Go Soy	512E21	64.9	—	—	38	1
Progeny Ag	5211E3	63.9	—	—	39	1
Delta Grow	52E15/STS	63.4	—	—	55	2
MorSoy	MS 5110E	59.8	—	—	42	1
Mean		66.3				
CV		8.0				
LSD		9.5				
R ²		90.9				
Error DF		12				

¹No 2-year average.
²No 3-year average.

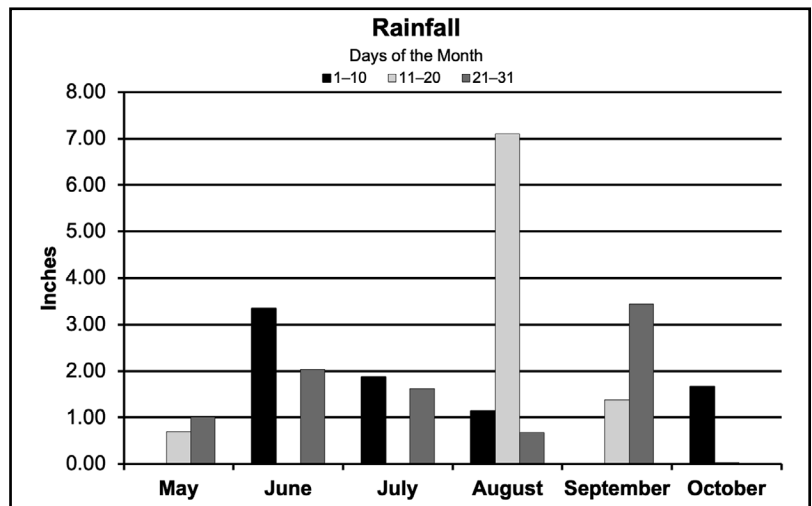
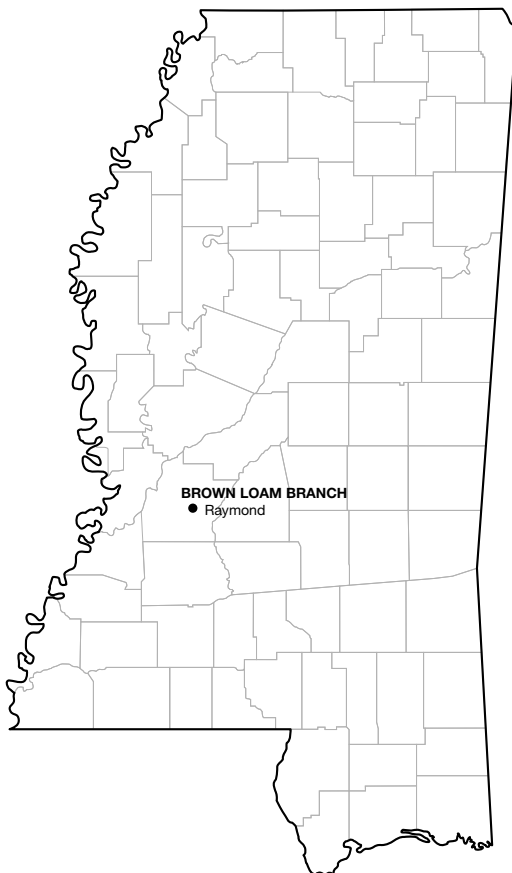
RAYMOND, BROWN LOAM BRANCH

Crop Summary

The plots were planted in early May into a stale seedbed with good soil moisture adequate for germination and emergence. All plots quickly emerged to a good stand. This location experienced some pressure from red-banded stink bugs later in the season. No data were

reported for the RR/LL/Conv. plots due to extensive damage caused by deer feeding. Significant rains during the fall delayed harvest for a couple of weeks. Yields that were below average were observed at this location.

Planting dateMay 11
 Harvest dateOctober 21
 Soil typeLoring silt loam
 Soil pH6.4
 Soil fertilityP=H, K=H
 Previous cropWheat
 HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 11
 Postemergence — Roundup PowerMax @ 24 oz/A and Dual II Magnum at 24 oz/A on June 15; Roundup
 PowerMax @ 24 oz/A, FirstRate @ 0.3 oz/A, and Prefix @ 24 oz/A on June 29
 InsecticideAcephate at 0.75 lb/A and Bifenthrin @ 4.3 oz/A on July 14; Bifenthrin @ 6.4 oz/A and Acephate @ 0.75 lb/A
 on September 9



Rainfall Summary

	Inches
May	1.70
June	5.38
July	3.49
August	8.92
September	4.82
October	1.70
Total.....	26.01

Table 38. Maturity Group IV Early Xtend Nonirrigated Soybean Varieties (Brown Loam Branch, Raymond).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	P 4444RXS	57.8	68.6	71.4	24	1
Armor	44-D49	55.6	—	—	29	1
Local Seed	LS4407X	54.6	65.3	—	26	1
USG	7461XTS	54.3	—	—	26	1
Local Seed	LS4565X	51.5	68.8	74.3	29	1
LG Seeds	LGS4632RX	51.2	—	—	28	1
Credenz	CZ 4280X	50.1	—	—	21	1
Delta Grow	46X05/STS	49.3	—	—	26	1
Asgrow	AG46X0	48.7	65.7	—	27	1
Dyna-Gro	S46XS60	48.6	67.8	—	25	1
Progeny Ag	P 4505RXS	48.4	—	—	27	1
Donmario Seeds	DM 44X31	48.4	—	—	33	1
Mission Seed	A4618X	48.3	70.2	77.6	27	1
Armor	46-D09	47.2	—	—	26	1
Local Seed	LS4583X	46.8	65.1	73.2	23	1
Credenz	CZ 4341X	46.7	—	—	27	1
Asgrow	AG46X6	46.6	67.9	70.3	24	1
Dyna-Gro	S45XS37	46.4	68.2	72.6	27	1
LG Seeds	LGS4464RX	46.1	—	—	25	1
AgriGold	G4620RX	45.8	—	—	26	1
Donmario Seeds	DM 45X61	45.6	—	—	29	1
USG	7447XTS	45.2	—	—	26	1
MorSoy	MS 4616 RXT/STS	44.5	65.4	75.2	28	1
Mission Seed	A4448X	44.5	67.5	—	25	1
Great Heart Seed	GT-4677XS	44.0	58.1	—	24	1
Local Seed	LS4299XS	42.9	62.2	—	28	1
NK Brand	S44-C7X	42.3	63.0	—	25	1
Dyna-Gro	S45XS66	41.7	58.3	61.6	27	1
Progeny Ag	P 4620RXS	41.2	62.4	—	29	1
Delta Grow	46X65/STS	40.8	62.2	—	23	1
Pioneer	P44A72BX	36.8	61.0	—	24	1
Progeny Ag	P 4265RXS	36.6	58.2	—	23	1
Asgrow	AG45X8	36.4	52.5	60.2	23	1
Pioneer	P46A86X	35.8	—	—	26	1
Asgrow	AG43X0	35.4	55.8	—	27	1
Armor	44-D92	34.0	56.8	—	24	1
Local Seed	LS3976X	33.7	51.0	—	24	1
Pioneer	P42A96X	33.1	50.2	58.5	24	1
Credenz	CZ 4570X	32.1	—	—	24	1
Credenz	CZ 4600X	31.6	—	—	27	1
AgriGold	G4255RX	28.3	—	—	27	1
Mean		43.9				
CV		19.8				
LSD		14.1				
R ²		55.8				
Error DF		80				

Table 39. Maturity Group IV Late Xtend Nonirrigated Soybean Varieties (Brown Loam Branch, Raymond).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
USG	7480XT	59.9	—	—	28	1
Progeny Ag	4700RXS	59.6	—	—	27	1
Mission Seed	A4828X	58.5	—	—	31	1
USG	7496XTS	58.3	66.6	72.5	32	1
Local Seed	LS4806XS	57.7	—	—	26	1
Delta Grow	47X95	56.7	69.7	—	30	1
Delta Grow	49X15	56.4	72.6	—	28	1
AGS	GS48X19	55.3	—	—	29	1
Credenz	CZ 4979X	55.0	74.8	—	35	1
Progeny Ag	P 4816RX	53.2	70.5	68.1	29	1
AgriGold	G4995RX	52.6	—	—	28	1
NK Brand	S49-F5X	52.5	—	—	23	1
Credenz	CZ 4810X	52.3	—	—	28	1
Local Seed	LS4795XS	52.2	—	—	28	1
LG Seeds	LS4899RX	52.1	65.5	—	27	1
Delta Grow	49X25	52.1	70.9	—	32	1
Local Seed	LS4607XS	51.7	—	—	32	1
Mission Seed	A4950X	51.6	70.4	77.5	31	1
AGS	GS47X19	51.2	67.3	—	25	1
Local Seed	LS4999X	51.1	68.1	—	27	1
Armor	49-D14	51.1	—	—	27	1
Dyna-Gro	S48XT56	50.5	64.5	60.9	27	1
Dyna-Gro	S48XT90	50.0	—	—	27	1
AGS	GS49X21	49.8	—	—	32	1
Credenz	CZ 4941X	49.6	—	—	33	1
Progeny Ag	4970RX	49.5	—	—	25	1
Dyna-Gro	S47XT20	49.0	70.1	—	26	1
Delta Grow	48X45	48.3	66.7	—	31	1
Great Heart	GT-4833XS	48.3	71.6	73.6	35	1
Progeny Ag	P 4851RX	48.1	65.6	68.2	26	1
Credenz	CZ 4869X	47.6	63.4	—	32	1
Dyna-Gro	S49XT21	47.3	—	—	33	1
Donmario Seeds	DM 47X39	46.8	—	—	24	1
Armor	48-D25	46.5	61.4	—	25	1
Asgrow	AG48X9	46.4	64.9	69.2	25	1
NK Brand	S47-Y9X	46.2	64.8	—	25	1
Progeny Ag	P 4821RX	46.1	66.9	—	27	1
Credenz	CZ 4730X	45.5	—	—	29	1
Donmario Seeds	DM 49X13	45.4	64.7	—	25	1
AgriGold	G4820RX	45.3	—	—	25	1
Great Heart	GT-4828X	44.8	—	—	27	1
Great Heart	GT-4979X	44.7	63.2	67.3	30	1
Credenz	CZ 4770X	43.9	—	—	31	1
USG	7489XT	43.5	62.3	61.0	26	1
Taylor Seed	T4880XS	43.4	—	—	27	1
MorSoy	MS 4846 RXT	42.9	64.9	67.0	31	1
Dyna-Gro	S49XT70	42.5	59.7	—	27	1
Taylor Seed	T4990XS	40.4	—	—	32	1
Pioneer	P48A60X	39.7	65.6	69.3	28	1
Delta Grow	48X05	39.5	62.3	—	26	1
Mean		49.4				
CV		15.7				
LSD		12.6				
R ²		48				
Error DF		98				

Table 40. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Brown Loam Branch, Raymond).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Go Soy	473E20	67.6	—	—	29	1
Progeny Ag	4775E3S	64.9	—	—	22	1
Go Soy	463E20S	64.7	—	—	33	1
MorSoy	MS 4800E	63.9	—	—	27	1
Progeny Ag	4908E3S *	63.0	—	—	42	1
USG	7491ETS	61.9	—	—	30	1
Go Soy	491E19S	61.9	—	—	43	1
Delta Grow	47E20/STS	61.5	—	—	37	1
Delta Grow	48E10	58.3	68.1	—	34	1
DONMARIO	DM 48E73	58.3	73.0	—	28	1
Local Seed	ZS4694E3S	57.9	64.6	—	32	1
Delta Grow	48E28XP	57.9	76.8	—	28	1
Go Soy	481E19	57.8	—	—	29	1
Progeny Ag	4902E3 *	57.8	—	—	33	1
Armor	48-E81	56.0	—	—	30	1
Pioneer	P49T62E	55.2	—	—	30	1
Delta Grow	49E00/STS	55.0	—	—	29	1
Delta Grow	47E80/STS	54.8	—	—	30	1
Progeny Ag	4682E3	54.7	—	—	26	1
Progeny Ag	4807E3S *	48.6	—	—	30	1
Progeny Ag	4241E3	46.4	—	—	26	1
Delta Grow	48E49/STS	45.1	60.7	—	30	1
Mean		57.9				
CV		12.3				
LSD		11.7				
R ²		55.1				
Error DF		42				

¹Variety followed by an asterisk indicates an experimental entry.

Table 41. Maturity Group V Xtend Nonirrigated Soybean Varieties (Brown Loam Branch, Raymond).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Asgrow	AG53X0	65.1	76.6	—	38	1
Dyna-Gro	S52XS39	63.8	—	—	29	1
Asgrow	AG52X9	60.8	73.5	77.1	32	1
Credenz	CZ 5299X	59.1	72.8	—	32	1
Great Heart Seed	GT-5417X	56.6	—	—	30	1
Progeny Ag	P 5252RX	56.3	71.9	81.9	30	1
Local Seed	LS5386X	56.3	72.4	—	31	1
Local Seed	LS5087X	55.5	71.3	74.3	33	1
NK Brand	S53-F7X	54.4	68.0	—	32	1
Asgrow	AG53X9	54.0	71.4	69.5	31	1
Local Seed	LS5009XS	53.8	—	—	29	1
MorSoy	MS 5398 RXT	53.6	—	—	24	1
Progeny Ag	P 5170RX	51.1	69.1	—	34	1
NK Brand	S51-R3XS	50.8	60.3	—	25	1
Delta Grow	52X05/STS	50.6	61.2	—	30	1
Dyna-Gro	GS5261X	50.4	—	—	32	1
Credenz	CZ 5000X	49.9	—	—	27	1
Donmario Seeds	DM 51X61	45.3	—	—	26	1
Progeny Ag	P 5016RXS	45.1	62.4	65.3	25	1
Credenz	CZ 5700	44.3	—	—	20	1
Credenz	CZ 5420X	44.2	—	—	34	1
Credenz	CZ 5251X	43.8	—	—	25	1
Great Heart Seed	GT-5214X	40.7	—	—	25	1
Progeny Ag	P 5554RX	36.6	53.6	57.7	26	1
Dyna-Gro	S56XT99	34.6	53.9	59.5	21	1
Pioneer	P55A49X	32.9	51.1	—	24	1
Delta Grow	54X25	30.9	55.9	—	23	1
Asgrow	AG55X0	24.5	—	—	20	1
Pioneer	P53A67X	16.7	—	—	13	1
Mean		47.6				
CV		17.9				
LSD		14.0				
R ²		75.9				
Error DF		56				

Table 42. Maturity Group V Enlist Nonirrigated Soybean Varieties (Brown Loam Branch, Raymond).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg. ¹	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Go Soy	512E21	46.8	—	—	30	1
Local Seed	ZS5098E3	40.0	—	—	34	1
Armor	51-E53	39.1	—	—	36	1
Progeny Ag	5211E3	38.2	—	—	27	1
Delta Grow	51E60	37.8	—	—	35	1
Delta Grow	52E15/STS	36.2	—	—	33	1
MorSoy	MS 5110E	35.6	—	—	31	1
Mean		39.1				
CV		20.3				
LSD		14.0				
R ²		53.7				
Error DF		12				

¹No 2-year average.

²No 3-year average.

STONEVILLE (clay) NONIRRIGATED, DELTA BRANCH

Crop Summary

The dryland plots were planted into a flat seedbed that had been prepared just days prior to planting. All plots germinated and quickly emerged to a good stand. Timely rainfall during the summer allowed for good soil mois-

ture throughout the growing season. Harvest was completed in a timely manner, and good yields were observed at this nonirrigated location.

Planting date ... May 6

Harvest date ... October 2

Soil type Tunica clay

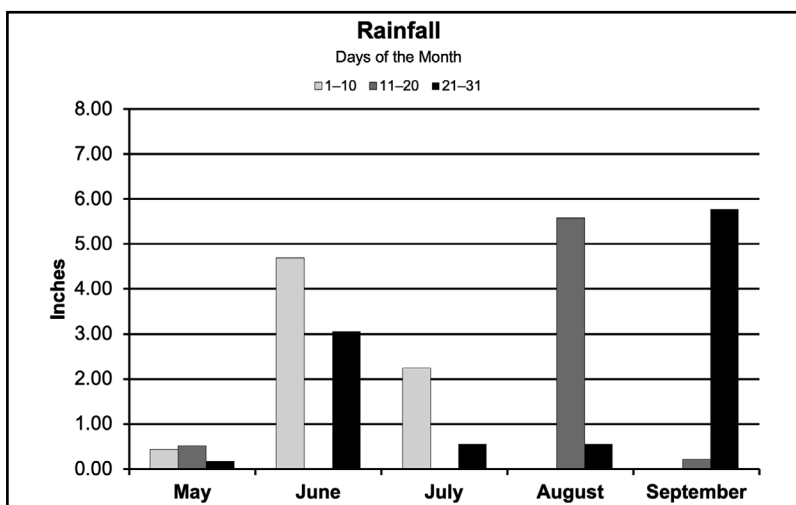
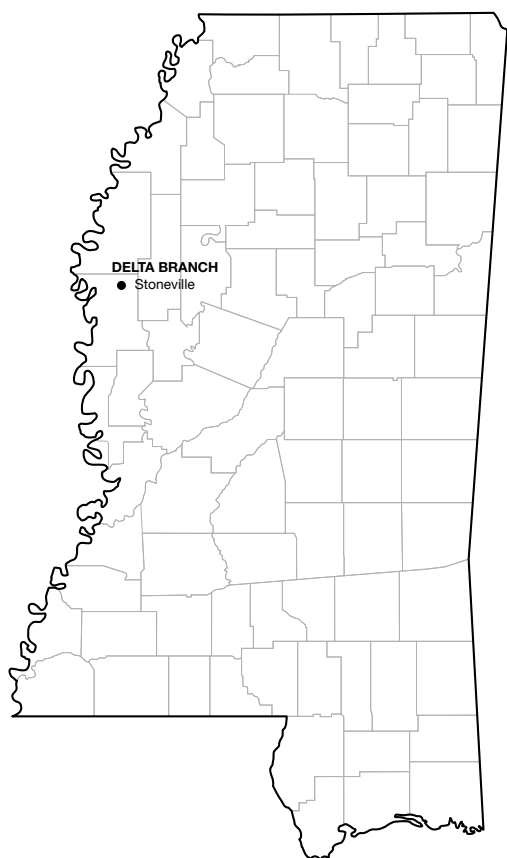
Soil pH 6.5

Soil fertility P=H, K=H

Previous crop ... Corn

Herbicides Preemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 6

Postemergence — FirstRate @ 0.3 oz/A, Prefix @ 24 oz/A, and Roundup PowerMax @ 32 oz/A on June 18



Rainfall Summary

	Inches
May	1.12
June	7.75
July	2.79
August	6.13
September	5.99
Total	23.78

Table 43. Maturity Group IV Early Xtend Nonirrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Delta Grow	46X05/STS	76.1	—	—	39	1
Donmario Seeds	DM 45X61	74.6	—	—	39	1
Local Seed	LS4565X	73.7	77.8	71.4	43	1
Progeny Ag	P 4505RXS	73.7	—	—	40	1
Delta Grow	46X65/STS	73.3	74.8	—	38	1
Pioneer	P44A72BX	71.8	78.3	—	38	1
AgriGold	G4620RX	71.2	—	—	38	1
Pioneer	P46A86X	70.7	—	—	38	1
Asgrow	AG46X0	70.6	79.5	—	31	1
LG Seeds	LGS4632RX	70.1	—	—	37	1
Dyna-Gro	S45XS37	69.1	81.0	69.4	41	1
AgriGold	G4255RX	68.5	—	—	37	1
Armor	44-D92	68.5	70.2	—	37	1
Dyna-Gro	S45XS66	68.2	76.1	72.1	37	1
Local Seed	LS4299XS	67.6	73.0	—	37	1
MorSoy	MS 4616 RXT/STS	67.5	76.5	70.3	38	1
Asgrow	AG43X0	67.1	62.9	—	33	1
Credenz	CZ 4570X	66.9	—	—	39	1
Local Seed	LS4583X	66.7	71.4	68.7	37	1
Dyna-Gro	S46XS60	66.4	68.6	—	33	1
Asgrow	AG46X6	66.1	74.4	69.3	34	1
USG	7461XTS	66.1	—	—	37	1
Progeny Ag	P 4265RXS	66.0	66.2	—	31	1
Pioneer	P42A96X	65.9	69.7	—	34	1
NK Brand	S44-C7X	65.9	74.1	—	32	1
Credenz	CZ 4600X	65.9	—	—	40	1
Armor	44-D49	64.8	—	—	35	1
Asgrow	AG45X8	64.4	69.7	59.2	35	1
Mission Seed	A4448X	64.1	74.8	—	37	1
Credenz	CZ 4280X	63.7	—	—	40	1
Armor	46-D09	63.5	—	—	33	1
Progeny Ag	P 4620RXS	63.3	65.7	—	39	1
Donmario Seeds	DM 44X31	63.1	—	—	44	2
Progeny Ag	P 4444RXS	63.1	66.7	62.3	35	1
USG	7447XTS	61.9	—	—	34	1
LG Seeds	LGS4464RX	60.8	—	—	35	1
Mission Seed	A4618X	60.6	75.5	69.0	36	1
Credenz	CZ 4341X	59.3	—	—	37	1
Local Seed	LS3976X	58.0	61.7	—	37	1
Great Heart Seed	GT-4677XS	57.2	63.2	—	32	1
Local Seed	LS4407X	55.4	66.8	—	35	1
Mean		66.4				
CV		13.0				
LSD		14.1				
R ²		35.0				
Error DF		80				

Table 44. Maturity Group IV Late Xtend Nonirrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
NK Brand	S49-F5X	62.1	—	—	34	1
Credenz	CZ 4979X	62.1	71.0	—	41	1
Local Seed	LS4795XS	61.0	—	—	34	1
Credenz	CZ 4730X	60.9	—	—	37	1
Taylor Seed	T4990XS	60.5	—	—	37	1
Credenz	CZ 4810X	60.2	—	—	36	1
Local Seed	LS4607XS	60.1	—	—	42	1
AGS	GS49X21	59.8	—	—	37	1
Dyna-Gro	S49XT21	59.8	—	—	37	1
Mission Seed	A4950X	58.9	64.1	68.2	38	1
Armor	48-D25	58.7	71.1	—	34	1
Delta Grow	48X45	58.2	68.5	—	34	1
Local Seed	LS4999X	57.3	70.9	—	38	1
Dyna-Gro	S48XT90	57.1	—	—	33	1
AGS	GS48X19	57.0	—	—	33	2
Dyna-Gro	S47XT20	56.8	65.8	—	34	1
Taylor Seed	T4880XS	56.7	—	—	35	1
Delta Grow	47X95	56.4	63.8	—	33	1
Progeny Ag	P 4851RX	56.1	66.4	64.5	33	1
Credenz	CZ 4941X	56.0	—	—	38	1
Progeny Ag	4700RXS	55.9	—	—	35	1
Mission Seed	A4828X	55.9	—	—	38	1
Delta Grow	49X25	55.5	69.9	—	35	1
Progeny Ag	P 4821RX	55.4	53.9	—	35	1
USG	7496XTS	55.4	60.0	64.2	36	1
LG Seeds	LGS4899RX	55.3	66.7	—	32	1
Local Seed	LS4806XS	54.9	—	—	31	1
Delta Grow	49X15	54.6	65.8	—	38	1
Dyna-Gro	S49XT70	54.0	64.4	—	38	1
Delta Grow	48X05	53.9	64.7	—	34	1
AgriGold	G4995RX	53.8	—	—	36	1
Great Heart	GT-4979X	53.7	61.9	66.1	36	1
Armor	49-D14	53.2	—	—	38	1
Great Heart	GT-4828X	53.1	—	—	38	1
AGS	GS47X19	53.0	60.1	—	36	1
MorSoy	MS 4846 RXT	52.8	66.1	70.6	32	1
Credenz	CZ 4869X	52.1	59.5	—	42	2
Great Heart	GT-4833XS	51.9	50.9	58.2	38	1
NK Brand	S47-Y9X	51.7	65.3	—	33	1
Donmario Seeds	DM 47X39	51.0	—	—	35	1
Pioneer	P48A60X	50.9	65.0	64.9	31	1
Credenz	CZ 4770X	50.6	—	—	40	1
Progeny Ag	4970RX	49.5	—	—	37	1
Dyna-Gro	S48XT56	49.3	64.2	66.1	30	1
Asgrow	AG48X9	49.2	62.0	64.4	32	1
Donmario Seeds	DM 49X13	49.2	64.9	—	36	1
USG	7489XT	49.0	60.1	65.5	30	1
AgriGold	G4820RX	47.6	—	—	31	1
USG	7480XT	46.7	—	—	32	1
Progeny Ag	P 4816RX	46.6	61.0	65.8	31	1
Mean		54.8				
CV		12.8				
LSD		11.4				
R ²		35				
Error DF		98				

Table 45. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4775E3S	63.2	—	—	34	1
Local Seed	ZS4694E3S	61.9	59.6	—	33	1
Delta Grow	47E20/STS	60.5	—	—	35	1
Go Soy	491E19S	59.9	—	—	38	1
Pioneer	P49T62E	59.5	—	—	28	1
Progeny Ag	4682E3	56.9	—	—	30	1
Progeny Ag	4902E3 *	56.7	—	—	31	1
Delta Grow	48E28XP	56.4	71.4	—	35	1
Delta Grow	49E00/STS	56.4	—	—	27	1
USG	7491ETS	56.3	—	—	28	1
DONMARIO	DM 48E73	55.7	68.1	—	27	1
Delta Grow	48E10	55.5	64.9	—	35	1
Go Soy	481E19	55.2	—	—	30	1
Armor	48-E81	55.1	—	—	29	1
Go Soy	463E20S	55.1	—	—	35	1
Progeny Ag	4807E3S *	55.1	—	—	30	1
Delta Grow	47E80/STS	53.2	—	—	31	1
Go Soy	473E20	52.7	—	—	27	1
Delta Grow	48E49/STS	52.6	66.7	—	33	1
Progeny Ag	4908E3S *	52.4	—	—	40	1
Progeny Ag	4241E3	52.0	—	—	28	1
MorSoy	MS 4800E	51.7	—	—	27	1
Mean		56.1				
CV		10.7				
LSD		9.9				
R ²		42.9				
Error DF		42				

¹Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

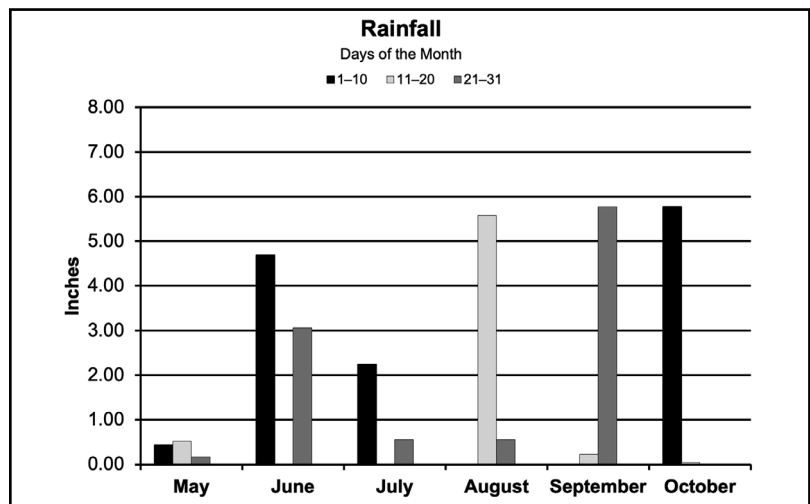
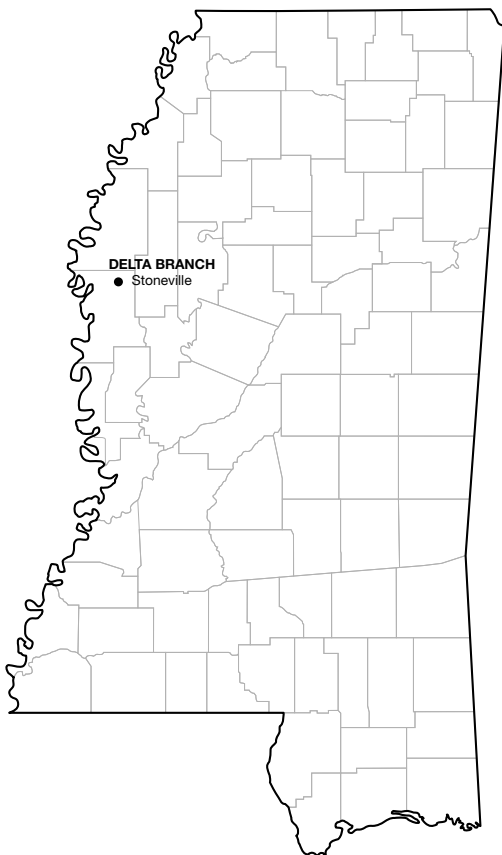
STONEVILLE (clay) IRRIGATED, DELTA BRANCH

Crop Summary

The soybean plots were planted flat into a stale seedbed in early May. Timely rainfall and irrigation at necessary times during the growing season allowed for adequate soil moisture throughout the season. Late-season rains

that occurred during the fall delayed harvest until mid-October. Even with slight weather delays, good yields were observed at this location.

Planting date ... May 1
 Harvest date ... October 20
 Soil type Sharkey clay
 Soil pH 7.0
 Soil fertility P=H, K=H
 Previous crop ... Soybeans
 Irrigation July 24, August 17, September 10
 Herbicides Preemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 1
 Postemergence — (Enlist/Xtend) FirstRate @ 0.3 oz/A, Prefix @ 24 oz/A, and Roundup PowerMax @ 24 oz/A;
 (RR,LL,Conv) FirstRate @ 0.3 oz/A, Prefix @ 24 oz/A, and Select Max @ 16 oz/A on June 19



Rainfall Summary

	Inches
May	1.12
June	7.75
July	2.79
August	6.13
September	5.99
October	5.81
Total	29.59

Table 46. Maturity Group IV Early Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Asgrow	AG46X0	81.7	69.3	—	32	1
Local Seed	LS4407X	79.5	67.9	—	29	2
Local Seed	LS4583X	79.0	67.5	74.1	25	1
NK Brand	S44-C7X	77.6	67.6	—	31	1
Progeny Ag	P 4620RXS	77.3	64.9	—	31	2
USG	7461XTS	77.2	—	—	33	1
Asgrow	AG46X6	77.0	68.7	74.4	31	2
Donmario Seeds	DM 44X31	76.9	—	—	34	2
AgriGold	G4620RX	76.7	—	—	35	1
Asgrow	AG43X0	76.5	66.7	—	33	1
Great Heart Seed	GT-4677XS	75.6	69.3	—	29	1
Mission Seed	A4618X	75.5	69.9	71.8	29	1
Armor	46-D09	75.2	—	—	32	1
Donmario Seeds	DM 45X61	74.6	—	—	28	1
USG	7447XTS	73.5	—	—	30	2
Dyna-Gro	S45XS37	73.0	63.6	70.1	34	1
Pioneer	P46A86X	71.6	—	—	34	2
Mission Seed	A4448X	71.1	64.2	—	29	1
Armor	44-D49	71.1	—	—	30	1
MorSoy	MS 4616 RXT/STS	70.7	65.5	69.3	33	2
Credenz	CZ 4280X	70.7	—	—	28	1
Progeny Ag	P 4444RXS	70.1	65.2	68.7	27	1
Progeny Ag	P 4265RXS	69.8	60.0	—	32	3
Delta Grow	46X65/STS	69.0	66.3	—	25	1
Local Seed	LS4565X	68.5	64.0	72.5	33	1
Pioneer	P44A72BX	68.4	60.5	—	34	2
Credenz	CZ 4600X	68.3	—	—	30	1
Credenz	CZ 4570X	68.1	—	—	32	1
Local Seed	LS4299XS	67.4	59.3	—	24	1
LG Seeds	LGS4632RX	67.3	—	—	33	1
Dyna-Gro	S46XS60	66.8	58.9	—	29	1
Progeny Ag	P 4505RXS	66.5	—	—	28	2
AgriGold	G4255RX	65.8	—	—	33	1
Delta Grow	46X05/STS	65.5	—	—	29	1
Local Seed	LS3976X	64.8	51.0	—	21	1
Asgrow	AG45X8	64.5	57.9	65.4	27	1
Pioneer	P42A96X	64.4	57.1	65.4	31	1
Credenz	CZ 4341X	59.5	—	—	31	1
Armor	44-D92	59.4	52.6	—	28	1
LG Seeds	LGS4464RX	58.1	—	—	29	1
Dyna-Gro	S45XS66	58.0	59.1	66.4	31	2
Mean		70.5				
CV		12.2				
LSD		14.0				
R ²		43.9				
Error DF		80				

Table 47. Maturity Group IV Late Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	P 4816RX	87.9	74.0	79.5	30	2
Dyna-Gro	S48XT56	87.5	75.4	78.3	33	1
AgriGold	G4995RX	87.2	—	—	31	2
Delta Grow	47X95	86.0	71.5	—	36	2
Donmario Seeds	DM 47X39	85.8	—	—	32	2
Credenz	CZ 4979X	85.3	79.2	—	34	2
Delta Grow	48X05	85.3	70.7	—	32	1
AgriGold	G4820RX	84.8	—	—	32	1
USG	7480XT	84.6	—	—	33	2
Progeny Ag	P 4821RX	84.5	73.9	—	31	2
Great Heart	GT-4979X	84.5	74.4	78.4	35	1
Delta Grow	49X15	84.5	73.6	—	34	3
AGS	GS47X19	84.0	72.7	—	36	2
Progeny Ag	4970RX	83.7	—	—	35	2
Great Heart	GT-4833XS	83.5	74.4	72.5	33	2
Dyna-Gro	S48XT90	83.3	—	—	31	1
Mission Seed	A4950X	82.2	68.8	75.0	35	2
Great Heart	GT-4828X	81.8	—	—	36	2
MorSoy	MS 4846 RXT	81.8	71.6	78.0	33	2
Asgrow	AG48X9	81.7	75.9	80.7	33	2
Local Seed	LS4806XS	81.3	—	—	32	2
Armor	48-D25	81.3	72.0	—	31	1
NK Brand	S49-F5X	81.3	—	—	27	2
Taylor Seed	T4880XS	80.9	—	—	35	2
Dyna-Gro	S49XT70	80.7	73.0	—	33	1
Dyna-Gro	S49XT21	80.5	—	—	34	1
Credenz	CZ 4869X	80.0	69.6	—	29	2
Mission Seed	A4828X	79.7	—	—	30	2
Progeny Ag	4700RXS	79.3	—	—	31	2
Delta Grow	49X25	78.9	68.2	—	34	1
USG	7489XT	78.9	71.0	77.4	31	2
Donmario Seeds	DM 49X13	78.3	71.0	—	33	2
Delta Grow	48X45	78.2	69.3	—	25	1
Local Seed	LS4999X	78.2	71.2	—	31	1
AGS	GS49X21	77.8	—	—	32	2
Credenz	CZ 4941X	77.7	—	—	34	2
Local Seed	LS4795XS	77.5	—	—	29	2
AGS	GS48X19	77.5	—	—	32	2
Credenz	CZ 4810X	77.5	—	—	31	1
LG Seeds	LGS4899RX	77.5	69.1	—	32	1
Armor	49-D14	76.9	—	—	31	1
Credenz	CZ 4770X	76.8	—	—	34	1
NK Brand	S47-Y9X	75.9	68.7	—	32	2
Pioneer	P48A60X	74.0	66.9	74.8	28	1
Local Seed	LS4607XS	74.0	—	—	27	2
Dyna-Gro	S47XT20	73.4	69.0	—	29	2
Taylor Seed	T4990XS	71.4	—	—	28	1
USG	7496XTS	71.3	65.3	70.9	33	1
Progeny Ag	P 4851RX	70.1	67.3	71.7	32	3
Credenz	CZ 4730X	68.1	—	—	29	1
Mean		80.1				
CV		7.4				
LSD		9.5				
R ²		50.2				
Error DF		98				

Table 48. Maturity Group IV Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4908E3S *	90.8	—	—	39	2
DONMARIO	DM 48E73	88.4	68.8	—	29	1
Pioneer	P49T62E	87.2	—	—	29	1
Go Soy	491E19S	85.5	—	—	40	2
Progeny Ag	4775E3S	84.6	—	—	35	2
Go Soy	473E20	84.1	—	—	24	1
Go Soy	481E19	83.8	—	—	31	2
Progeny Ag	4902E3 *	83.0	—	—	33	2
MorSoy	MS 4800E	80.1	—	—	29	1
Go Soy	463E20S	79.8	—	—	33	1
Progeny Ag	4682E3	79.0	—	—	27	1
Delta Grow	48E10	78.7	65.4	—	32	2
Delta Grow	48E28XP	78.4	66.7	—	29	2
Delta Grow	47E20/STS	78.2	—	—	26	1
Armor	48-E81	76.6	—	—	30	2
Progeny Ag	4807E3S *	75.7	—	—	30	2
Delta Grow	49E00/STS	75.6	—	—	31	2
Local Seed	ZS4694E3S	74.1	64.4	—	33	2
Delta Grow	47E80/STS	71.8	—	—	27	2
USG	7491ETS	69.3	—	—	26	2
Progeny Ag	4241E3	69.3	—	—	22	1
Delta Grow	48E49/STS	59.4	57.0	—	29	2
Mean		78.8				
CV		8.3				
LSD		10.8				
R ²		73.8				
Error DF		42				

¹Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

Table 49. Maturity Group V Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Local Seed	LS5009XS	97.0	—	—	37	2
Donmario Seeds	DM 51X61	96.0	—	—	38	2
Asgrow	AG53X0	93.6	78.4	—	37	2
MorSoy	MS 5398 RXT	93.5	—	—	33	1
Progeny Ag	P 5252RX	92.5	80.0	81.1	35	2
Delta Grow	52X05/STS	89.5	78.4	—	42	2
Progeny Ag	P 5554RX	88.5	72.8	78.3	32	2
Credenz	CZ 5299X	88.2	77.6	—	36	2
Asgrow	AG52X9	88.1	74.1	77.1	36	2
Dyna-Gro	S52XS39	87.8	—	—	42	1
Pioneer	P55A49X	87.5	77.9	—	25	1
Dyna-Gro	S56XT99	87.4	76.8	80.9	31	2
Pioneer	P53A67X	87.3	—	—	22	1
Great Heart Seed	GT-5417X	87.2	—	—	35	1
NK Brand	S51-R3XS	85.4	71.8	—	31	2
Local Seed	LS5386X	85.3	71.6	—	32	2
Dyna-Gro	GS5261X	85.2	—	—	31	1
Great Heart Seed	GT-5214X	85.0	—	—	41	3
Credenz	CZ 5000X	83.3	—	—	37	2
Local Seed	LS5087X	83.2	77.6	81.3	32	1
Credenz	CZ 5420X	82.8	—	—	37	2
Credenz	CZ 5251X	82.1	—	—	34	1
Asgrow	AG53X9	81.4	75.9	78.5	27	1
Progeny Ag	P 5170RX	80.7	70.7	—	43	2
Delta Grow	54X25	79.6	71.8	—	24	1
NK Brand	S53-F7X	78.8	68.7	—	39	2
Asgrow	AG55X0	78.0	—	—	27	1
Progeny Ag	P 5016RXS	76.8	67.9	71.0	31	1
Credenz	CZ 5700	74.7	—	—	19	2
Mean		85.7				
CV		7.9				
LSD		11.1				
R ²		52.8				
Error DF		56				

Table 50. Maturity Group V Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg. ¹	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Local Seed	ZS5098E3	89.2	—	—	35	2
Delta Grow	52E15/STS	88.7	—	—	35	3
Armor	51-E53	84.9	—	—	41	3
Delta Grow	51E60	81.9	—	—	33	3
Progeny Ag	5211E3	79.1	—	—	31	2
MorSoy	MS 5110E	79.0	—	—	31	2
Go Soy	512E21	78.6	—	—	32	2
Mean		83.1				
CV		7.9				
LSD		11.7				
R ²		67.5				
Error DF		12				

¹No 2-year average.
²No 3-year average.

Table 51. Maturity Group IV RR, Liberty, and Conventional Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
U. of Missouri	S16-7875C *	88.0	—	—	31	2
VIRTUE SEEDS	V 4520 S	86.6	68.7	—	30	2
U. of Missouri	S16-5540R *	86.2	—	—	25	2
U. of Missouri	S16-7922C *	86.0	—	—	27	3
U. of Missouri	S16-14730C *	84.6	64.1	—	31	2
VIRTUE SEEDS	V 4720 S	84.4	72.8	—	29	2
Go Soy	49G16	83.7	—	—	32	2
Credeenz	CZ 4820 LL	82.1	—	—	32	2
GoSoy	IREANE	81.7	—	—	19	1
U. of Missouri	S16-11644C *	81.5	—	—	26	2
U. of Arkansas	R15-2422 *	81.2	—	—	44	4
U. of Missouri	S15-3772RY *	81.1	—	—	36	2
U. of Missouri	S16-14379C *	80.3	65.1	—	33	2
U. of Arkansas	R16-259 *	80.1	—	—	31	2
Petrus Seed	4916 GT	79.9	61.1	67.0	27	2
Go Soy	GT Ireane	79.0	—	—	24	1
U. of Missouri	S15-3847R *	76.8	—	—	32	2
VIRTUE SEEDS	V 4921 S	76.8	—	—	30	1
U. of Missouri	S15-5904RY *	74.1	—	—	28	2
Go Soy	48C17S	73.4	66.7	—	18	1
Petrus Seed	4619 GTS	71.0	—	—	26	2
Progeny Ag	4602LR *	70.5	—	—	26	2
Local Seed	LS4706GL	68.8	—	—	28	1
Go Soy	46G19	62.9	—	—	27	2
Local Seed	LS3906GL	62.1	—	—	29	1
U. of Missouri	S15-10879C *	54.3	—	—	27	2
Mean		77.6				
CV		7.8				
LSD		9.9				
R ²		75.4				
Error DF		50				

¹Variety followed by an asterisk indicates an experimental entry.**Table 52. Maturity Group V Roundup Ready, Liberty, and Conventional Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).**

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
U. of Missouri	S16-11651C *	90.8	—	—	26	1
U. of Missouri	S16-15170C *	88.7	—	—	37	2
U. of Missouri	S16-3739RY *	88.4	—	—	31	1
Go Soy	50G17	84.3	70.2	75.6	29	1
U. of Missouri	S16-15809C *	83.3	—	—	29	2
U. of Missouri	S16-3747RY *	83.1	73.4	—	26	1
Petrus Seed	5319 GT	77.4	—	—	31	1
U. of Arkansas	R13-14635RR *	74.5	—	—	43	2
Mean		83.8				
CV		6.1				
LSD		8.9				
R ²		65.3				
Error DF		14				

¹Variety followed by an asterisk indicates an experimental entry.

STONEVILLE (loam) IRRIGATED, DELTA BRANCH

Crop Summary

The soybean plots were planted into a stale seedbed with adequate soil moisture. All plots quickly germinated and emerged to a good stand. Timely rainfall, in combi-

nation with furrow irrigation, supplied ample soil moisture throughout the growing season. Harvest was completed in a timely manner, and good yields were achieved.

Planting date . . .April 28

Harvest date . . .October 16

Soil typeBosket very fine sandy loam

Soil pH6.7

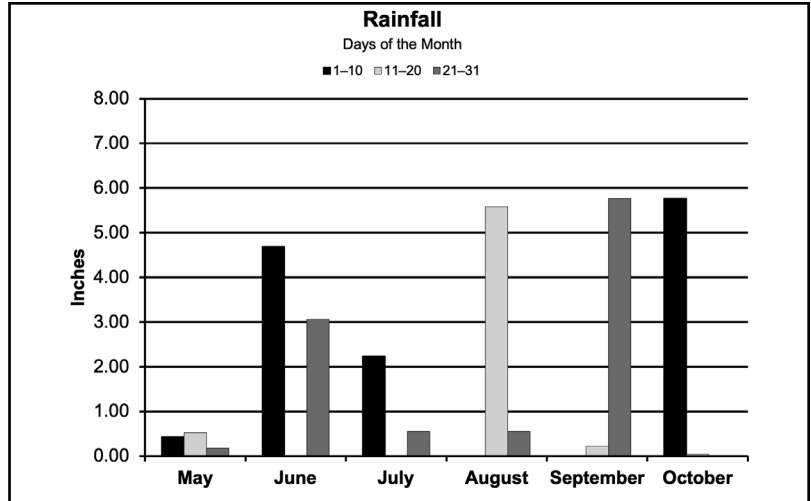
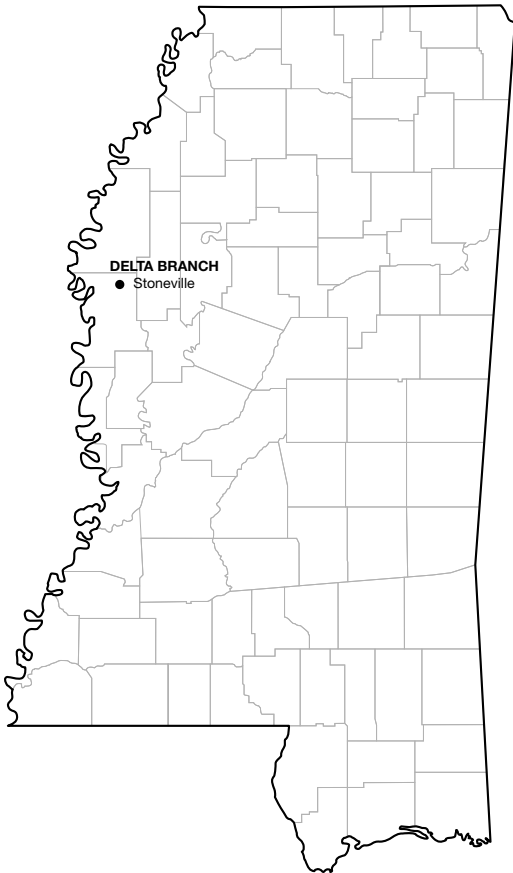
Soil fertilityP=H, K=H

Previous crop . . .Corn

HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on April 28

Postemergence — FirstRate@ 0.3 oz/A, Prefix @ 24 oz/A, and Roundup PowerMax @ 24 oz/A on June 19

IrrigationJune 3, June 14, July 29, August 8



Rainfall Summary

	Inches
May	1.12
June	7.75
July	2.79
August	6.13
September	5.99
October	5.81
Total	29.59

Table 53. Maturity Group IV Early Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
LG Seeds	LGS4632RX	102.2	—	—	30	1
Local Seed	LS4583X	100.1	98.3	93.7	25	1
AgriGold	G4620RX	100.0	—	—	24	1
Credenz	CZ 4570X	99.8	—	—	21	1
Delta Grow	46X05/STS	98.9	—	—	35	2
Asgrow	AG46X0	98.1	99.9	—	22	2
Great Heart Seed	GT-4677XS	97.8	98.9	—	23	1
Armor	46-D09	97.3	—	—	31	1
Pioneer	P46A86X	97.2	—	—	35	3
Armor	44-D49	96.4	—	—	27	1
Mission Seed	A4618X	95.5	93.2	88.2	31	1
NK Brand	S44-C7X	95.5	95.9	—	27	1
Delta Grow	46X65/STS	95.3	97.2	—	31	3
USG	7461XTS	94.1	—	—	32	1
Local Seed	LS4299XS	93.0	93.2	—	21	3
Donmario Seeds	DM 45X61	92.2	—	—	28	1
Progeny Ag	P 4444RXS	92.1	93.8	89.2	22	1
Dyna-Gro	S45XS37	91.8	92.3	89.4	28	1
Dyna-Gro	S45XS66	91.5	97.1	92.9	25	1
Progeny Ag	P 4505RXS	91.2	—	—	31	1
Donmario Seeds	DM 44X31	90.9	—	—	28	5
Credenz	CZ 4600X	90.7	—	—	23	1
Local Seed	LS4407X	88.8	91.8	—	21	1
Armor	44-D92	87.5	90.6	—	25	1
Asgrow	AG46X6	87.2	93.7	93.1	30	4
Asgrow	AG45X8	86.9	91.5	88.3	23	1
Local Seed	LS4565X	85.9	87.9	84.8	25	1
Mission Seed	A4448X	85.4	88.8	—	21	1
MorSoy	MS 4616 RXT/STS	83.5	88.1	88.2	30	1
Credenz	CZ 4341X	83.4	—	—	24	2
USG	7447XTS	83.1	—	—	24	1
Dyna-Gro	S46XS60	82.8	89.8	—	31	1
LG Seeds	LGS4464RX	81.8	—	—	35	1
Credenz	CZ 4280X	81.3	—	—	27	1
Pioneer	P44A72BX	81.2	88.7	—	23	1
Pioneer	P42A96X	80.3	84.1	82.2	24	1
Progeny Ag	P 4265RXS	78.5	83.7	—	20	1
Progeny Ag	P 4620RXS	78.2	85.3	—	23	1
Asgrow	AG43X0	77.7	87.7	—	29	1
Local Seed	LS3976X	76.8	80.6	—	29	3
AgriGold	G4255RX	73.8	—	—	30	1
Mean		89.4				
CV		9.8				
LSD		14.3				
R ²		53.4				
Error DF		80				

Table 54. Maturity Group IV Late Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4970RX	99.2	—	—	33	2
Credenz	CZ 4730X	94.7	—	—	34	1
Asgrow	AG48X9	94.5	95.6	91.6	34	1
Progeny Ag	P 4816RX	93.8	90.2	87.0	26	1
Local Seed	LS4806XS	93.6	—	—	33	1
AgriGold	G4995RX	92.7	—	—	34	1
Great Heart	GT-4979X	92.7	94.8	90.2	38	1
Taylor Seed	T4880XS	91.5	—	—	33	1
Dyna-Gro	S48XT56	90.3	90.7	87.3	26	1
Great Heart	GT-4833XS	88.5	91.8	85.9	28	1
Credenz	CZ 4979X	88.4	89.4	—	35	1
USG	7489XT	88.2	94.2	90.4	31	1
Dyna-Gro	S48XT90	87.7	—	—	32	1
Donmario Seeds	DM 47X39	87.6	—	—	28	1
Progeny Ag	P 4821RX	87.6	88.1	—	30	1
Credenz	CZ 4810X	87.2	—	—	33	1
Armor	48-D25	87.0	89.1	—	23	1
Pioneer	P48A60X	86.9	88.5	86.4	29	1
Local Seed	LS4795XS	86.4	—	—	29	1
Progeny Ag	P 4851RX	86.2	89.4	90.6	32	3
LG Seeds	LGS4899RX	85.9	91.0	—	31	1
Delta Grow	49X25	85.9	89.8	—	32	1
NK Brand	S47-Y9X	85.7	91.2	—	31	1
Armor	49-D14	85.6	—	—	32	1
NK Brand	S49-F5X	85.6	—	—	21	1
Credenz	CZ 4941X	85.5	—	—	34	1
Credenz	CZ 4770X	85.2	—	—	34	1
AGS	GS49X21	84.8	—	—	36	2
USG	7480XT	84.5	—	—	32	1
Donmario Seeds	DM 49X13	84.1	89.0	—	39	2
Delta Grow	48X45	83.9	90.1	—	31	1
Great Heart	GT-4828X	83.8	—	—	34	1
Taylor Seed	T4990XS	83.5	—	—	35	1
Credenz	CZ 4869X	83.4	88.3	—	31	1
AGS	GS48X19	82.9	—	—	33	2
USG	7496XTS	82.3	86.3	85.9	36	1
Mission Seed	A4828X	81.8	—	—	30	1
Local Seed	LS4607XS	81.4	—	—	33	1
MorSoy	MS 4846 RXT	81.1	88.6	86.3	32	1
Delta Grow	49X15	80.4	89.1	—	31	1
Dyna-Gro	S47XT20	80.1	86.7	—	32	1
Delta Grow	47X95	79.9	90.6	—	31	1
Mission Seed	A4950X	79.7	88.5	88.0	34	1
AgriGold	G4820RX	79.6	—	—	30	1
Progeny Ag	4700RXS	78.5	—	—	27	1
AGS	GS47X19	77.1	80.9	—	29	3
Dyna-Gro	S49XT70	76.3	87.6	—	38	2
Delta Grow	48X05	74.0	82.6	—	28	4
Local Seed	LS4999X	72.9	83.0	—	34	1
Dyna-Gro	S49XT21	67.9	—	—	31	1
Mean		85.0				
CV		10.9				
LSD		15.0				
R ²		40.5				
Error DF		98				

Table 55. Maturity Group IV Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4775E3S	94.7	—	—	36	2
Delta Grow	48E10	93.3	97.2	—	32	1
DONMARIO	DM 48E73	92.5	93.3	—	26	1
Go Soy	473E20	90.3	—	—	32	1
Go Soy	463E20S	89.3	—	—	37	2
Progeny Ag	4682E3	88.2	—	—	27	2
Progeny Ag	4908E3S *	87.6	—	—	42	3
Local Seed	ZS4694E3S	86.8	91.3	—	30	1
Progeny Ag	4902E3 *	86.6	—	—	33	1
Go Soy	491E19S	86.6	—	—	40	2
Delta Grow	49E00/STS	85.8	—	—	27	1
Go Soy	481E19	84.9	—	—	34	1
Armor	48-E81	84.6	—	—	29	1
Pioneer	P49T62E	84.2	—	—	31	1
Delta Grow	48E28XP	81.9	89.1	—	36	3
Delta Grow	48E49/STS	81.5	88.4	—	28	1
Delta Grow	47E20/STS	80.7	—	—	27	1
MorSoy	MS 4800E	80.3	—	—	32	1
USG	7491ETS	79.2	—	—	27	1
Progeny Ag	4807E3S *	74.7	—	—	33	2
Delta Grow	47E80/STS	73.2	—	—	26	1
Progeny Ag	4241E3	70.7	—	—	28	2
Mean		84.4				
CV		8.8				
LSD		12.2				
R ²		61.2				
Error DF		42				

¹Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

Table 56. Maturity Group V Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Asgrow	AG53X0	94.4	92.7	—	38	1
Donmarrio Seeds	DM 51X61	93.2	—	—	34	1
Pioneer	P53A67X	93.1	—	—	20	1
Dyna-Gro	GS5261X	92.9	—	—	33	1
Progeny Ag	P 5554RX	92.0	86.2	85.4	24	1
Credenz	CZ 5251X	92.0	—	—	37	3
Pioneer	P55A49X	91.7	88.9	—	17	1
Local Seed	LS5009XS	91.1	—	—	37	1
Asgrow	AG52X9	90.7	90.6	95.5	39	1
MorSoy	MS 5398 RXT	90.5	—	—	36	1
Dyna-Gro	S56XT99	89.5	83.1	83.3	31	1
Local Seed	LS5386X	89.5	91.1	—	37	1
NK Brand	S53-F7X	89.2	93.4	—	37	1
Great Heart Seed	GT-5214X	88.1	—	—	34	1
Asgrow	AG55X0	87.4	—	—	25	1
Delta Grow	52X05/STS	86.9	84.1	—	40	1
Great Heart Seed	GT-5417X	86.6	—	—	33	1
Progeny Ag	P 5016RXS	86.5	89.8	89.0	34	3
Asgrow	AG53X9	85.4	89.6	87.8	33	1
NK Brand	S51-R3XS	85.4	94.4	—	25	1
Local Seed	LS5087X	85.1	85.0	85.9	37	1
Progeny Ag	P 5252RX	84.8	82.8	84.4	46	2
Credenz	CZ 5299X	83.4	80.5	—	44	1
Progeny Ag	P 5170RX	83.4	85.5	—	37	1
Credenz	CZ 5000X	83.3	—	—	34	1
Credenz	CZ 5420X	81.8	—	—	46	1
Credenz	CZ 5700	81.0	—	—	23	1
Dyna-Gro	S52XS39	79.4	—	—	45	1
Delta Grow	54X25	72.5	78.6	—	21	1
Mean		87.3				
CV		10.5				
LSD		14.9				
R ²		33.7				
Error DF		56				

Table 57. Maturity Group V Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg. ¹	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Armor	51-E53	93.2	—	—	40	3
Local Seed	ZS5098E3	93.2	—	—	40	4
Delta Grow	52E15/STS	91.4	—	—	45	4
Delta Grow	51E60	91.3	—	—	39	4
Progeny Ag	5211E3	85.9	—	—	38	2
MorSoy	MS 5110E	85.3	—	—	35	2
Go Soy	512E21	85.2	—	—	38	2
Mean		89.4				
CV		6.2				
LSD		9.8				
R ²		61.7				
Error DF		12				

¹No 2-year average.
²No 3-year average.

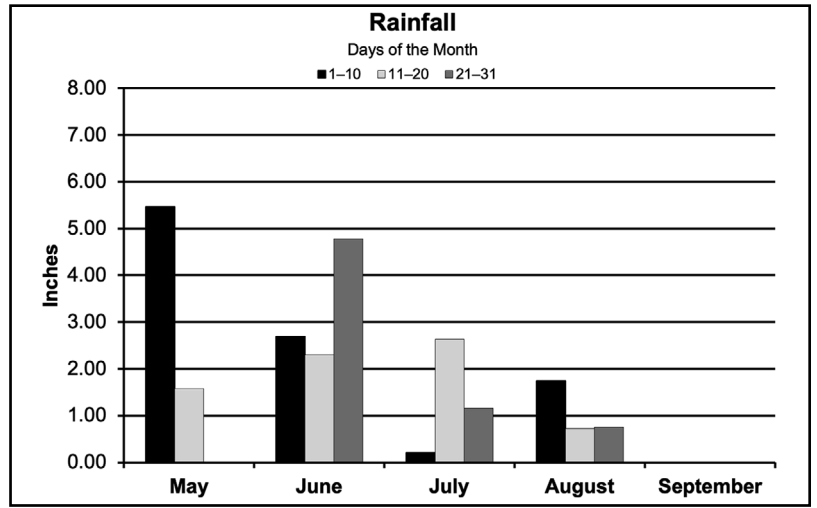
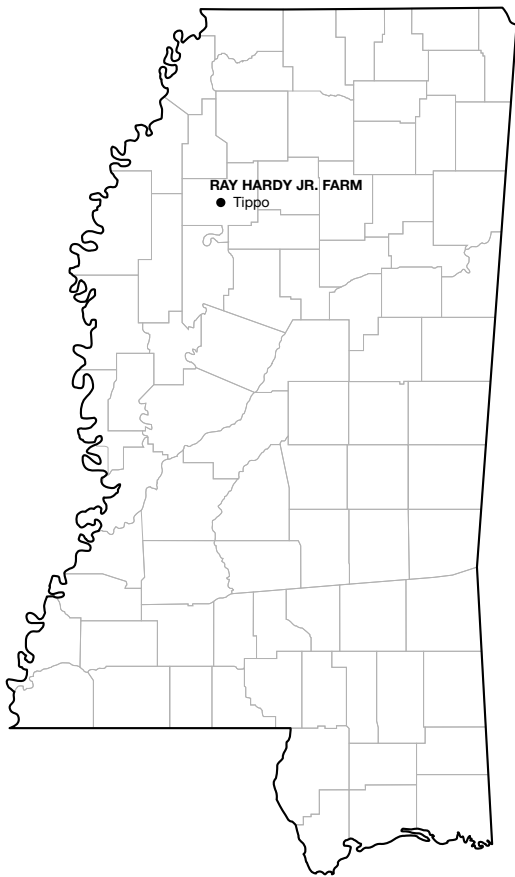
TIPPO, RAY HARDY JR. FARM

Crop Summary

The plots were planted into a flat into a stale seedbed with good soil moisture, adequate for germination. All plots quickly emerged to a good stand. Timely rainfall that occurred during the growing season supplied ample

soil moisture throughout the season. Good yields were observed at this dryland location. Harvest was completed in a timely manner without difficulty.

- Planting date . . .May 6
- Harvest date . . .October 1
- Soil typeDundee and Tensas silt loam
- Soil pH6.3
- Soil fertilityP=H, K=H
- Previous crop . . .Soybean
- HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 6



Rainfall Summary

	Inches
May	7.04
June	9.77
July	4.01
August	3.23
September	0.00
Total.....	24.05

Table 58. Maturity Group IV Early Xtend Nonirrigated Soybean Varieties (Ray Hardy Jr. Farm, Tippo).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Dyna-Gro	S45XS66	67.8	65.5	56.8	29	1
Pioneer	P42A96X	66.7	57.6	52.6	23	1
Pioneer	P46A86X	65.5	—	—	25	1
Local Seed	LS4565X	65.4	62.7	57.7	33	1
Delta Grow	46X05/STS	61.7	—	—	29	1
Progeny Ag	P 4265RXS	58.5	55.8	—	31	1
Local Seed	LS4299XS	58.1	56.3	—	27	1
Dyna-Gro	S45XS37	57.7	56.5	49.9	26	1
USG	7447XTS	57.5	—	—	30	1
Pioneer	P44A72BX	56.6	55.3	—	33	1
Armor	44-D92	56.6	55.4	—	25	1
LG Seeds	LGS4632RX	56.4	—	—	24	1
MorSoy	MS 4616 RXT/STS	56.3	60.4	56.6	35	1
USG	7461XTS	56.0	—	—	26	1
AgriGold	G4255RX	54.7	—	—	28	1
Great Heart Seed	GT-4677XS	54.6	58.4	—	24	1
Mission Seed	A4448X	54.5	57.8	—	23	1
Progeny Ag	P 4505RXS	53.8	—	—	31	1
Mission Seed	A4618X	53.8	59.1	54.8	26	1
Asgrow	AG46X6	53.4	58.5	54.0	24	1
Progeny Ag	P 4620RXS	51.4	54.3	—	33	1
Donmario Seeds	DM 45X61	51.2	—	—	27	1
Armor	44-D49	50.8	—	—	31	1
Asgrow	AG43X0	50.6	50.0	—	25	1
NK Brand	S44-C7X	50.1	53.4	—	24	1
Delta Grow	46X65/STS	49.7	56.9	—	26	1
LG Seeds	LGS4464RX	49.4	—	—	26	1
Asgrow	AG45X8	48.9	51.1	47.7	27	1
AgriGold	G4620RX	48.3	—	—	29	1
Local Seed	LS4583X	48.0	54.5	50.0	28	1
Dyna-Gro	S46XS60	46.7	54.7	—	25	1
Credenz	CZ 4341X	46.7	—	—	26	1
Credenz	CZ 4600X	44.6	—	—	27	1
Asgrow	AG46X0	43.9	53.2	—	26	1
Credenz	CZ 4280X	43.2	—	—	25	1
Armor	46-D09	41.7	—	—	28	1
Local Seed	LS3976X	41.3	47.0	—	27	1
Donmario Seeds	DM 44X31	38.7	—	—	34	1
Local Seed	LS4407X	38.4	50.3	—	25	1
Credenz	CZ 4570X	37.0	—	—	25	1
Progeny Ag	P 4444RXS	37.0	50.3	45.8	29	1
Mean		51.8				
CV		9.6				
LSD		10.4				
R ²		88.0				
Error DF		40				

Table 59. Maturity Group IV Late Xtend Nonirrigated Soybean Varieties (Ray Hardy Jr. Farm, Tippo).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Dyna-Gro	S48XT56	67.6	64.5	56.3	27	1
Progeny Ag	4700RXS	65.7	—	—	32	1
Taylor Seed	T4990XS	62.8	—	—	33	1
USG	7489XT	62.0	63.8	58.8	31	1
Progeny Ag	P 4816RX	60.9	62.6	57.1	29	1
Dyna-Gro	S47XT20	60.8	68.0	—	33	1
Local Seed	LS4999X	60.6	65.9	—	33	1
Progeny Ag	P 4821RX	59.2	63.3	—	32	1
Pioneer	P48A60X	59.2	60.2	54.2	31	1
Local Seed	LS4806XS	58.8	—	—	27	1
NK Brand	S49-F5X	55.9	—	—	31	1
Credenz	CZ 4730X	55.7	—	—	29	1
Great Heart	GT-4833XS	55.4	60.5	55.0	33	1
Mission Seed	A4828X	55.2	—	—	34	1
NK Brand	S47-Y9X	54.5	60.6	—	28	1
Armor	48-D25	54.5	61.8	—	33	1
Mission Seed	A4950X	54.4	61.4	53.6	32	1
USG	7496XTS	54.3	58.9	52.6	33	1
AgriGold	G4820RX	53.3	—	—	29	1
Delta Grow	48X45	52.7	58.1	—	27	1
Dyna-Gro	S49XT21	52.4	—	—	31	1
Asgrow	AG48X9	51.8	58.1	52.6	33	1
Armor	49-D14	51.4	—	—	29	1
Progeny Ag	P 4851RX	51.3	62.7	54.5	37	2
AGS	GS49X21	50.8	—	—	31	1
Taylor Seed	T4880XS	50.7	—	—	30	1
Credenz	CZ 4869X	49.7	53.4	—	29	1
Credenz	CZ 4810X	49.6	—	—	26	1
Delta Grow	48X05	48.6	57.9	—	30	1
Credenz	CZ 4979X	48.3	58.5	—	30	1
Great Heart	GT-4828X	48.1	—	—	34	1
Great Heart	GT-4979X	48.1	58.3	52.4	33	1
Delta Grow	47X95	46.7	55.4	—	27	1
AGS	GS48X19	46.1	—	—	31	1
Dyna-Gro	S48XT90	45.9	—	—	31	1
AGS	GS47X19	45.3	56.7	—	32	1
Dyna-Gro	S49XT70	45.0	59.7	—	32	1
MorSoy	MS 4846 RXT	44.9	57.4	54.1	27	1
Local Seed	LS4795XS	44.3	—	—	29	1
Local Seed	LS4607XS	44.2	—	—	31	1
LG Seeds	LGS4899RX	41.0	57.7	—	31	1
Delta Grow	49X15	40.7	54.7	—	34	1
AgriGold	G4995RX	40.6	—	—	28	1
Delta Grow	49X25	39.4	57.2	—	31	1
Donmario Seeds	DM 47X39	39.3	—	—	28	1
Progeny Ag	4970RX	39.0	—	—	33	1
Credenz	CZ 4941X	38.7	—	—	32	1
USG	7480XT	31.1	—	—	28	1
Donmario Seeds	DM 49X13	30.4	47.0	—	29	1
Credenz	CZ 4770X	25.5	—	—	28	1
Mean		49.8				
CV		19.0				
LSD		18.9				
R ²		65				
Error DF		49				

VERONA, NORTHEAST MISSISSIPPI BRANCH

Crop Summary

The soybean plots were planted into a raised seedbed that had been prepared earlier in the spring. Soil moisture at planting was adequate for germination. All plots quick-

ly emerged to a good stand. The location experience a period of very little rainfall during the midsummer. Harvest was completed in a timely manner.

Planting dateMay 7

Harvest dateAll groups on October 14

Soil typeLeeper silty clay loam

Soil pH6.5

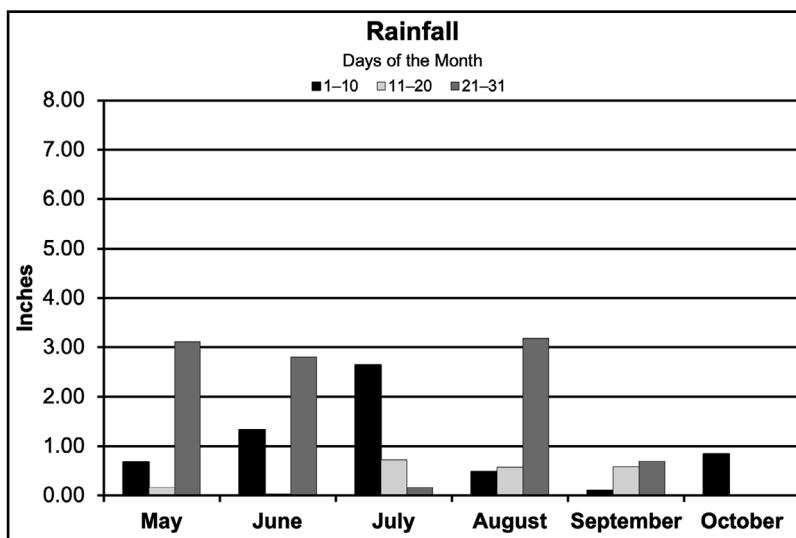
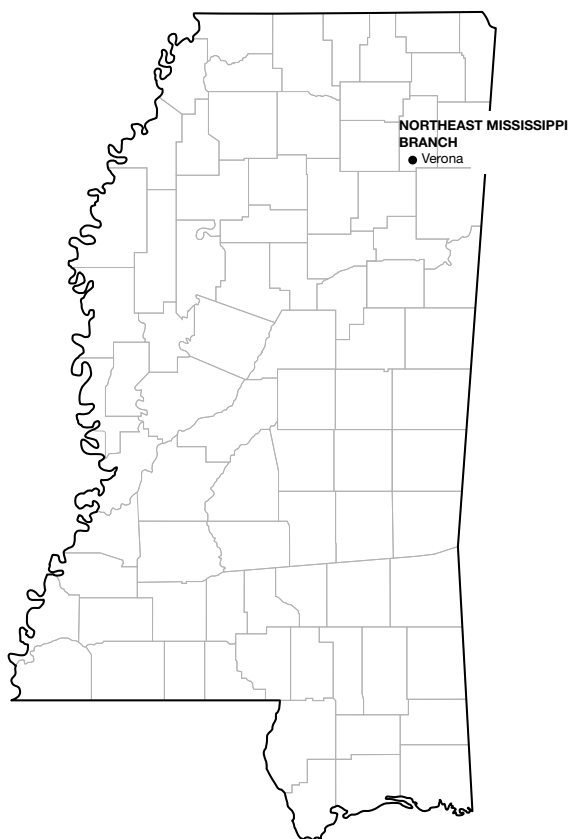
Soil fertilityP=H, K=M

Previous crop . . .Soybeans

HerbicidesPreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on May 7

Postemergence — Prefix at 24 oz/A, FirstRate @ 0.3 oz/A, and Select Max @ 16 oz/A on June 18

InsecticideAcephate @ 0.75 lb/A and Bifenthrin @ 6.4 oz/A on September 10



Rainfall Summary

	Inches
May	3.96
June	4.16
July	3.52
August	4.24
September	1.39
October	0.85
Total	18.12

Table 60. Maturity Group IV Early Xtend Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Dyna-Gro	S45XS66	88.1	77.9	79.8	37	1
Local Seed	LS4583X	87.5	80.5	82.6	35	1
Dyna-Gro	S46XS60	86.8	80.7	—	33	1
Dyna-Gro	S45XS37	86.4	75.0	79.6	38	1
Armor	44-D49	86.3	—	—	34	1
Local Seed	LS4565X	83.6	71.0	79.9	38	1
Progeny Ag	P 4505RXS	83.4	—	—	37	1
Donmario Seeds	DM 45X61	83.0	—	—	40	1
Armor	46-D09	81.9	—	—	38	1
MorSoy	MS 4616 RXT/STS	81.8	73.9	79.1	43	1
LG Seeds	LGS4632RX	81.5	—	—	37	1
USG	7461XTS	81.2	—	—	33	1
Great Heart Seed	GT-4677XS	81.1	79.1	—	35	1
Pioneer	P46A86X	79.3	—	—	37	1
Progeny Ag	P 4444RXS	78.9	73.9	77.9	32	1
Donmario Seeds	DM 44X31	78.8	—	—	43	1
Mission Seed	A4448X	77.8	75.8	—	36	1
Mission Seed	A4618X	77.6	71.6	76.2	37	1
Local Seed	LS4407X	75.4	72.3	—	34	1
Delta Grow	46X05/STS	74.0	—	—	34	1
Asgrow	AG46X0	72.8	70.3	—	35	1
Credenz	CZ 4570X	72.3	—	—	35	1
Asgrow	AG46X6	72.0	73.2	76.4	35	1
NK Brand	S44-C7X	71.9	65.4	—	31	1
Pioneer	P44A72BX	71.2	70.2	—	35	1
Progeny Ag	P 4620RXS	70.7	66.3	—	34	1
Asgrow	AG45X8	69.5	59.1	70.3	34	1
AgriGold	G4620RX	69.5	—	—	36	1
Credenz	CZ 4600X	69.4	—	—	35	1
LG Seeds	LGS4464RX	69.1	—	—	36	1
USG	7447XTS	68.3	—	—	35	1
Credenz	CZ 4280X	67.6	—	—	37	1
AgriGold	G4255RX	67.5	—	—	32	1
Progeny Ag	P 4265RXS	67.2	64.0	—	31	1
Armor	44-D92	66.7	59.9	—	34	1
Delta Grow	46X65/STS	66.6	73.5	—	32	1
Credenz	CZ 4341X	66.5	—	—	34	1
Local Seed	LS4299XS	66.3	63.3	—	34	1
Asgrow	AG43X0	66.2	61.5	—	32	1
Pioneer	P42A96X	52.1	45.4	58.1	34	1
Local Seed	LS3976X	41.6	53.6	—	32	1
Mean		74.1				
CV		10.8				
LSD		13.0				
R ²		80.7				
Error DF		80				

Table 61. Maturity Group IV Late Xtend Nonirrigated Soybean Varieties (Northeast MS Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Great Heart	GT-4979X	86.6	83.4	87.5	37	1
LG Seeds	LGS4899RX	85.0	80.4	—	36	1
Great Heart	GT-4833XS	83.5	79.7	87.3	38	1
Delta Grow	49X25	81.0	77.8	—	36	1
Credenz	CZ 4770X	80.8	—	—	34	1
Donmario Seeds	DM 49X13	80.6	80.8	—	37	1
Armor	48-D25	80.4	76.4	—	32	1
Progeny Ag	P 4851RX	80.4	81.8	86.3	37	1
Mission Seed	A4950X	80.2	82.8	87.3	37	1
Great Heart	GT-4828X	79.9	—	—	35	1
Dyna-Gro	S48XT56	79.6	81.9	85.9	34	1
Progeny Ag	4970RX	78.5	—	—	33	1
NK Brand	S49-F5X	78.5	—	—	34	1
NK Brand	S47-Y9X	78.0	78.3	—	33	1
Progeny Ag	P 4816RX	77.7	81.1	83.8	31	1
AgriGold	G4995RX	77.7	—	—	38	1
Delta Grow	48X05	77.1	80.4	—	38	1
Local Seed	LS4806XS	75.6	—	—	33	1
MorSoy	MS 4846 RXT	75.4	81.8	83.2	31	1
Armor	49-D14	75.0	—	—	35	1
Dyna-Gro	S48XT90	74.9	—	—	35	1
Dyna-Gro	S49XT21	74.8	—	—	34	1
Dyna-Gro	S49XT70	74.7	76.0	—	33	1
Local Seed	LS4795XS	74.3	—	—	30	1
Local Seed	LS4607XS	73.7	—	—	36	1
Progeny Ag	4700RXS	73.4	—	—	33	1
Delta Grow	49X15	73.2	79.7	—	39	1
Credenz	CZ 4979X	72.9	77.6	—	36	1
AgriGold	G4820RX	72.7	—	—	33	1
Mission Seed	A4828X	72.5	—	—	39	1
Pioneer	P48A60X	72.4	67.7	76.4	32	1
Dyna-Gro	S47XT20	72.1	77.7	—	35	1
AGS	GS47X19	71.9	80.8	—	35	1
USG	7496XTS	71.4	64.0	71.4	37	1
Taylor Seed	T4880XS	71.3	—	—	33	1
AGS	GS48X19	71.3	—	—	31	1
USG	7480XT	71.2	—	—	33	1
Donmario Seeds	DM 47X39	71.0	—	—	36	1
Asgrow	AG48X9	70.3	80.6	85.7	34	1
AGS	GS49X21	70.3	—	—	33	1
Delta Grow	48X45	70.2	78.8	—	36	1
USG	7489XT	69.5	77.2	80.2	37	1
Delta Grow	47X95	69.2	68.3	—	32	1
Local Seed	LS4999X	68.7	71.9	—	33	1
Progeny Ag	P 4821RX	66.0	66.1	—	32	1
Credenz	CZ 4941X	65.3	—	—	35	1
Credenz	CZ 4730X	63.2	—	—	34	1
Credenz	CZ 4869X	57.7	62.4	—	35	1
Taylor Seed	T4990XS	55.1	—	—	32	1
Credenz	CZ 4810X	53.9	—	—	33	1
Mean		73.6				
CV		12.6				
LSD		15.0				
R ²		74.5				
Error DF		98				

Table 62. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny Ag	4775E3S	66.2	—	—	31	1
Progeny Ag	4807E3S *	63.5	—	—	30	1
Go Soy	491E19S	58.2	—	—	36	1
Go Soy	463E20S	57.4	—	—	34	1
Progeny Ag	4902E3 *	57.1	—	—	32	1
Progeny Ag	4908E3S *	56.9	—	—	43	1
Delta Grow	48E28XP	56.9	63.5	—	30	1
Delta Grow	47E20/STS	56.0	—	—	36	1
Local Seed	ZS4694E3S	54.8	64.8	—	31	1
Delta Grow	48E10	54.7	60.4	—	34	1
DONMARIO	DM 48E73	53.3	62.1	—	29	1
Progeny Ag	4682E3	51.4	—	—	30	1
Go Soy	481E19	50.5	—	—	30	1
Pioneer	P49T62E	50.5	—	—	32	1
Delta Grow	47E80/STS	48.6	—	—	34	1
Go Soy	473E20	47.2	—	—	28	1
Delta Grow	48E49/STS	46.1	61.1	—	30	1
USG	7491ETS	45.5	—	—	29	1
Armor	48-E81	45.5	—	—	31	1
Progeny Ag	4241E3	40.0	—	—	28	1
MorSoy	MS 4800E	39.2	—	—	27	1
Delta Grow	49E00/STS	37.2	—	—	27	1
Mean		51.7				
CV		15.2				
LSD		13.0				
R ²		81.3				
Error DF		42				

¹Variety followed by an asterisk indicates an experimental entry.

²No 3-year average.

Table 63. Maturity Group V Xtend Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Great Heart Seed	GT-5214X	87.3	—	—	38	1
Delta Grow	52X05/STS	84.4	84.3	—	44	1
Dyna-Gro	S56XT99	83.1	83.8	84.0	37	1
Dyna-Gro	S52XS39	79.4	—	—	40	1
Progeny Ag	P 5554RX	74.6	76.5	76.6	30	1
Credenz	CZ 5420X	73.4	—	—	43	1
Credenz	CZ 5299X	71.0	81.1	—	39	1
Donmario Seeds	DM 51X61	70.7	—	—	34	1
NK Brand	S53-F7X	70.1	78.5	—	39	1
Credenz	CZ 5000X	69.9	—	—	36	1
Pioneer	P55A49X	69.8	74.4	—	20	1
Progeny Ag	P 5252RX	69.6	80.9	82.7	34	1
Pioneer	P53A67X	69.5	—	—	24	1
Local Seed	LS5009XS	68.5	—	—	35	1
MorSoy	MS 5398 RXT	67.9	—	—	34	1
Asgrow	AG53X9	66.7	77.4	79.0	32	1
Dyna-Gro	GS5261X	66.5	—	—	34	1
Credenz	CZ 5700	66.4	—	—	27	1
NK Brand	S51-R3XS	64.7	67.1	—	31	1
Local Seed	LS5386X	64.5	71.1	—	37	1
Local Seed	LS5087X	64.0	67.2	74.9	34	1
Delta Grow	54X25	63.9	69.4	—	31	1
Asgrow	AG55X0	63.7	—	—	27	1
Asgrow	AG52X9	60.8	74.2	78.6	35	1
Asgrow	AG53X0	59.9	68.5	—	36	1
Progeny Ag	P 5016RXS	59.5	61.7	68.0	36	1
Progeny Ag	P 5170RX	56.7	66.8	—	39	1
Credenz	CZ 5251X	56.4	—	—	30	1
Great Heart Seed	GT-5417X	56.2	—	—	35	1
Mean		68.2				
CV		11.6				
LSD		12.9				
R ²		84.1				
Error DF		56				

Table 64. Maturity Group V Enlist Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2020	2-yr. avg. ¹	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Local Seed	ZS5098E3	55.5	—	—	42	1
Armor	51-E53	53.4	—	—	39	1
Progeny Ag	5211E3	52.3	—	—	31	1
MorSoy	MS 5110E	51.0	—	—	30	1
Delta Grow	51E60	48.6	—	—	28	1
Go Soy	512E21	45.4	—	—	31	1
Delta Grow	52E15/STS	45.4	—	—	38	1
Mean		50.2				
CV		8.8				
LSD		7.9				
R ²		96.0				
Error DF		12				

¹No 2-year average.
²No 3-year average.

Table 65. Maturity Group IV RR, Liberty, and Conventional Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
U. of Missouri	S16-7922C *	69.7	—	—	25	1
U. of Missouri	S16-11644C *	63.8	—	—	28	1
Credenz	CZ 4820 LL	62.6	—	—	33	1
U. of Missouri	S16-14379C *	62.6	—	—	31	1
U. of Missouri	S16-7875C *	62.6	—	—	29	1
Petrus Seed	4916 GT	60.7	62.4	70.8	28	1
U. of Missouri	S16-14730C *	59.5	—	—	32	1
VIRTUE SEEDS	V 4720 S	58.2	—	—	27	1
U. of Missouri	S16-5540R *	58.0	—	—	28	1
U. of Arkansas	R15-2422 *	57.9	—	—	32	1
U. of Missouri	S15-3772RY *	55.4	—	—	31	1
VIRTUE SEEDS	V 4520 S	55.1	—	—	24	1
U. of Missouri	S15-3847R *	53.0	—	—	31	1
VIRTUE SEEDS	V 4921 S	52.7	—	—	31	1
Go Soy	49G16	51.5	—	—	19	1
GoSoy	IREANE	51.2	—	—	23	1
U. of Missouri	S15-5904RY *	49.0	—	—	27	1
U. of Arkansas	R16-259 *	47.7	—	—	31	1
Go Soy	46G19	47.6	—	—	24	1
Local Seed	LS4706GL	47.2	—	—	29	1
Go Soy	48C17S	45.8	—	—	19	1
Petrus Seed	4619 GTS	45.2	—	—	27	1
Go Soy	GT Ireane	40.1	—	—	20	1
Progeny Ag	4602LR *	38.8	—	—	26	1
U. of Missouri	S15-10879C *	36.3	—	—	28	1
Local Seed	LS3906GL	34.2	—	—	30	1
Mean		52.5				
CV		20.6				
LSD		17.7				
R ²		72.4				
Error DF		50				

¹Variety followed by an asterisk indicates an experimental entry.

Table 66. Maturity Group V Roundup Ready, Liberty, and Conventional Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2020	2-yr. avg.	3-yr. avg.		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
U. of Missouri	S16-15809C *	76.3	—	—	27	1
U. of Missouri	S16-15170C *	71.2	—	—	28	1
U. of Missouri	S16-11651C *	71.2	—	—	29	1
U. of Arkansas	R13-14635RR *	66.8	—	—	34	1
U. of Missouri	S16-3747RY *	57.2	72.5	—	31	1
Go Soy	50G17	56.0	67.5	73.0	25	1
U. of Missouri	S16-3739RY *	55.6	—	—	27	1
Petrus Seed	5319 GT	48.0	—	—	27	1
Mean		62.8				
CV		15.8				
LSD		17.3				
R ²		77.2				
Error DF		14				

¹Variety followed by an asterisk indicates an experimental entry.

PLANT CHARACTERISTICS

Table 67. Plant Characteristics of Maturity Group IV Early Xtend Soybeans.

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
AgriGold	G4255RX	Brown	Lt. Tawny	Purple	Black	2527	—	4.2
AgriGold	G4620RX	Tan	Gray	Purple	Black	3041	—	4.5
Armor	44-D92	Brown	Lt. Tawny	Purple	Black	3157	—	4.4
Armor	46-D09	Tan	Lt. Tawny	Purple	Black	3200	—	4.6
Armor	44-D49	Brown	Lt. Tawny	Purple	Black	3215	—	4.4
Asgrow	AG43X0	—	—	—	—	3450	—	4.3
Asgrow	AG45X8	—	—	—	—	2850	—	4.5
Asgrow	AG46X0	—	—	—	—	2470	—	4.6
Asgrow	AG46X6	—	—	—	—	2490	—	4.6
Credenz	CZ 4570X	Tan	Lt. Tawny	Purple	Black	3100	—	4.5
Credenz	CZ 4600X	Tan	Tawny	Purple	Black	3045	—	4.6
Credenz	CZ4280X	Brown	Gray	Purple	Imp. Black	3300	—	4.2
Credenz	CZ 4341X	Brown	Lt. Tawny	White	Black	2590	—	4.3
Delta Grow	46X05/STS	Brown	L. Tawny	Purple	Black	2960	I	4.6
Delta Grow	46X65/STS	Tan	L. Tawny	Purple	Black	2990	I	4.6
Dyna-Gro	S45XS37	Brown	Tawny	White	Black	3440	I	4.5
Dyna-Gro	S45XS66	Brown	Lt. Tawny	Purple	Black	2638	I	4.5
Dyna-Gro	S46XS60	Tan	Lt. Tawny	Purple	Black	3335	I	4.6
GDM Seeds	DM 45X61	Brown	Lt. Tawny	Purple	Black	3610	—	4.5
GDM Seeds	DM 44X31	—	—	—	—	3420	—	4.4
Great Heart Seed	GT-4677XS	Tan	Lt. Tawny	Purple	Black	2760	I	4.6
LG Seeds	LGS4464RX	Brown	Lt. Tawny	White	Black	2900	—	4.4
LG Seeds	LGS4632RX	Brown	Lt. Tawny	Purple	Black	2950	—	4.6
Local Seed Co.	LS3976X	Tan	Lt. Tawny	Purple	—	2872	—	3.9
Local Seed Co.	LS4299XS(LSX4301XS)	Brown	Lt. Tawny	White	—	2566	—	4.2
Local Seed Co.	LS4407X (LSX4501X)	Tan	Lt. Tawny	Purple	—	2888	—	4.4
Local Seed Co.	LS4583X	Brown	Lt. Tawny	Purple	—	2563	—	4.5
Local Seed Co.	LS4565X	—	—	—	—	3348	—	4.5
Mission	A4448X	Brown	Lt. Tawny	Purple	Black	2800	—	4.4
Mission	A4618X	Brown	Gray	Purple	Imp. Black	2800	—	4.6
MorSoy	MS 4616RXT/STS	Brown	Tawny	White	Black	3210	—	4.6
NK	S44-C7X	—	—	—	—	3127	—	4.4
Pioneer	P42A96X	Tan	Lt. Tawny	White	Black	2507	—	4.2
Pioneer	P46A86X	—	—	—	—	2682	—	4.6
Pioneer	P44A72BX	Tan	Tawny	Purple	Black	3189	—	4.4
Progeny Ag	4265RXS	Brown	Lt. Tawny	Purple	Black	2931	—	4.2
Progeny Ag	4444RXS	Brown	Lt. Tawny	Purple	Black	2480	—	4.4
Progeny Ag	4505RXS	Brown	Lt. Tawny	Purple	Black	2948	—	4.5
Progeny Ag	4620RXS	Brown	Tawny	White	Black	3055	—	4.6
REV	4679X	Tan	Tawny	Purple	Black	2866	—	4.6
USG	7461XTS	Brown	Lt. Tawny	Purple	Black	3040	I	4.6
USG	7447XTS	Brown	Lt. Tawny	White	Black	2707	I	4.4

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

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.

Table 68. Plant Characteristics of Maturity Group IV Late Xtend Soybeans.

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
AgriGold	G4820RX	Tan	Lt. Tawny	Purple	Black	26393	—	4.8
AgriGold	G4995RX	Tan	Lt. Tawny	Purple	Black	2983	—	4.9
AGS	GS47X19	Tan	Lt. Tawny	Purple	Black	2818	—	4.7
AGS	GS48X19	Tan	Gray	Purple	Imp. Black	2386	—	4.8
AGS	GS49X21	Brown	Lt. Tawny	Purple	Black	3024	—	4.9
Armor	48-D25	Tan	Lt. Tawny	Purple	Black	2904	—	4.8
Armor	49-D14	Tan	Lt. Tawny	Purple	Black	2772	—	4.9
Asgrow	AG48X9	—	—	—	—	2860	—	4.8
Credenz	CZ 4730X	Brown	Lt. Tawny	Purple	Black	3200	—	4.7
Credenz	CZ 4770X	Tan	Lt. Tawny	Purple	Black	2900	—	4.7
Credenz	CZ 4810X	Brown	Gray	Purple	Imp. Black	2800	—	4.8
Credenz	CZ 4869X	Tan	Lt. Tawny	White	Black	3600	—	4.8
Credenz	CZ 4979X	Brown	Gray	Purple	Imp. Black	3400	—	4.9
Credenz	CZ 4941X	Brown	Lt. Tawny	Purple	Black	3060	—	4.9
Delta Grow	48X05	Tan	L Tawny	Purple	Black	2701		4.8
Delta Grow	49X25	Brown	L Tawny	Purple	Black	3260		4.9
Delta Grow	48X45	Tan	L Tawny	Purple	Black	2254		4.8
Delta Grow	49X15	Brown	Gray	Purple	Imp. Black	2756		4.9
Delta Grow	47X95	Brown	Gray	Purple	Imp. Black	2583	—	4.7
Dyna-Gro	S47XT20	Brown	Lt. Tawny	Purple	Black	3175		4.7
Dyna-Gro	S48XT56	Tan	Lt. Tawny	Purple	Black	2490		4.8
Dyna-Gro	S48XT90	Tan	Lt. Tawny	Purple	Black	2485		4.8
Dyna-Gro	S49XT21	Brown	Lt. Tawny	Purple	Black	3120		4.9
Dyna-Gro	S49XT70	Brown	Lt. Tawny	White	Black	3280		4.9
GDM Seeds	DM 47X39	Tan	Lt. Tawny	Purple	Black	3678	—	4.7
GDM Seeds	DM 49X13	Tan	Lt. Tawny	Purple	Black	3482	—	4.9
Great Heart Seed	GT-4833XS	Tan	Lt. Tawny	Purple	Black	3000		4.8
Great Heart Seed	GT-4979X	Tan	Lt. Tawny	Purple	Black	3375		4.9
Great Heart Seed	GT-4828X	Tan	Lt. Tawny	White	Black	3000		4.8
LG Seeds	LGS4899RX	Tan	Lt. Tawny	Purple	Black	2800	—	4.8
Local Seed Co.	LSX4612XS	—	—	—	—	3129	—	4.6
Local Seed Co.	LS4795XS (LSX4601XS)	Tan	Lt. Tawny	Purple	—	2845	—	4.5
Local Seed Co.	LS4999X (LSX4901X)	Brown	Lt. Tawny	Purple	—	2711	—	4.9
Local Seed Co.	LSX4812XS	—	—	—	—	2511	—	4.8
Mission	A4828X	Brown	Lt. Tawny	Purple	Black	2916	—	4.8
Mission	A4950X	Tan	Lt. Tawny	Purple	Black	2800	—	4.9
MorSoy	MS 4846 RXT	Tan	Lt. Tawny	Purple	Black	2770	—	4.8
NK	S47-Y9X	—	—	—	—	2826	—	4.7
NK	S49-F5X	—	—	—	—	2774	—	4.9
Pioneer	P48A60X	Brown	Lt. Tawny	Purple	Black	3253	—	4.8
Progeny Ag	4700RXS	Brown	Lt. Tawny	Purple	Black	2971	—	4.7
Progeny Ag	4816RX	Tan	Lt. Tawny	Purple	Black	2517	—	4.8
Progeny Ag	4821RX	Brown	Tawny	Purple	Black	2268	—	4.8
Progeny Ag	4851RX	Brown	Lt. Tawny	Purple	Black	2674	—	4.8
Progeny Ag	4970RX	Tan	Lt. Tawny	Purple	Black	2792	—	4.9
REV	4940X	Brown	Lt. Tawny	Purple	Black	3031	—	4.9
REV	4927X	Brown	Lt. Tawny	Purple	Black	2642	—	4.9
Taylor Seed	T4880XS	—	—	—	—	2715	—	4.8
Taylor Seed	T4990XS	—	—	—	—	3547	—	4.9
USG	7489XT	Tan	Lt. Tawny	Purple	Black	2750		4.8
USG	7496XTS	Brown	Lt. Tawny	Purple	Black	3600		4.9
USG	7480XT	Tan	Lt. Tawny	Purple	Black	2540		4.8

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

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.

Table 69. Plant Characteristics of Maturity Group IV Enlist Soybeans.

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
Armor	48-E81	Brown	Gray	White	Buff	3373	—	4.8
Delta Grow	47E20/STS	Brown	Gray	Purple	Imp. Black	3520	I	4.7
Delta Grow	47E80/STS	Brown	Gray	Purple	Imp. Black	3050	I	4.7
Delta Grow	48E10	Brown	Gray	White	Buff	3039	I	4.8
Delta Grow	48E49/STS	Tan	Tawny	White	Brown	3400	I	4.8
Delta Grow	45E28XP	—	—	—	—	3350	—	4.5
Delta Grow	49E00/STS	Brown	Gray	White	Buff	3370	I	4.9
GDM Seeds	DM 48E73	Brown	Gray	White	Buff	3910	—	4.8
Go Soy	463E20S	Brown	Gray	Purple	Imp. Black	3163	—	4.6
Go Soy	491E19S	Brown	Gray	White	Buff	3199	—	4.9
Go Soy	473E20	Brown	Lt. Tawny	White	Brown	3241	—	4.7
Go Soy	481E19	Brown	Gray	White	Buff	2818	—	4.8
Local Seed Co.	ZS4694E3S (LSX4602ES)	Tan	Tan	White	—	2911	—	4.6
MorSoy	MS 4800E	Brown	Lt. Tawny	White	Brown	3250	—	4.8
Pioneer	P49T62E	—	—	—	—	3166	—	4.9
Progeny Ag	4241E3	Tan	Gray	White	Buff	3241	—	4.2
Progeny Ag	4682E3	Segregated	Gray	Purple	Imp. Black	3532	—	4.6
Progeny Ag	4775E3S	Brown	Gray	Purple	Imp. Black	2716	—	4.7
Progeny Ag	4807E3S	Brown	Gray	Purple	Imp. Black	3066	—	4.8
Progeny Ag	4902E3	Brown	Gray	White	Buff	2768	—	4.9
Progeny Ag	4908E3S	Brown	Gray	White	Buff	2768	—	4.9
USG	7491ETS	Brown	Gray	White	Buff	3460	I	4.9

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

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.

Table 70. Plant Characteristics of Maturity Group V Early Xtend Soybeans.

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
Asgrow	AG52X9	—	—	—	—	3130	—	5.2
Asgrow	AG53X0	—	—	—	—	2820	—	5.3
Asgrow	AG53X9	—	—	—	—	3090	—	5.3
Asgrow	AG55X0	—	—	—	—	3110	—	5.5
Credenz	CZ 5000X	Brown	L Tawny	Purple	Black	3200	—	5.0
Credenz	CZ 5299X	Tan	Gray	White	Buff	3400	—	5.2
Credenz	CZ 5420X	Tan	Gray	Purple	Imp. Black	3500	—	5.4
Credenz	CZ5700	Tan	Tawny	White	Black	2650	—	5.7
Credenz	CZ 5251X	Tan	Brown	Purple	Black	3800	—	5.2
Delta Grow	52X05/STS	Tan	Gray	White	Buff	2803	I	5.2
Delta Grow	54X25	Tan	Gray	White	Buff	3350	I	5.4
Dyna-Gro	S52XS39 (SX 18652XS)	Tan	Gray	White	Buff	3120	I	5.2
Dyna-Gro	S56XT99	Tan	Tawny	White	Black	2400	I	5.6
Dyna-Gro	GS5267X	—	—	—	—	3800	—	5.2
GDM Seeds	DM 51X61	—	—	—	—	2443	—	5.1
Great Heart Seed	GT-5214X	Brown	Tawny	Purple	Black	3025	I	5.2
Great Heart Seed	GT-5417X	Tan	Tawny	Purple	Black	3610	I	5.4
Local Seed Co.	LS5087X	Tan	Lt Tawny	Purple	—	3281	—	5.0
Local Seed Co.	LS5009XS	—	—	—	—	2897	—	5.0
Local Seed Co.	LS5386X	Tan	Lt Tawny	White	—	2833	—	5.3
MorSoy	MS 5398 RXT	Tan	Lt Tawny	Purple	Black	2770	—	5.3
NK	S51-R3XS	—	—	—	—	3380	—	5.1
NK	S53-F7X	—	—	—	—	2895	—	5.3
Pioneer	P53A67X	Tan	Tawny	White	Black	3592	—	5.3
Pioneer	P55A49X	Brown	Gray	White	Brown	3480	—	5.5
Progeny Ag	5016RXS	Brown	Lt Tawny	Purple	Black	3244	—	5.0
Progeny Ag	5170RX	Brown	Lt Tawny	Purple	Black	3108	—	5.1
Progeny Ag	5252RX	Tan	Gray	White	Buff	2250	—	5.2
Progeny Ag	5554RX	Tan	Tawny	White	Black	2725	—	5.4

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

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.

Table 71. Plant Characteristics of Maturity Group V Enlist Soybeans

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
Armor	51-E53	Brown	Gray	White	Buff	3071	—	5.1
Delta Grow	52E15/STS	Brown	Gray	White	Buff	3270	I	5.2
Delta Grow	51E60	Brown	Gray	White	Buff	2760	I	5.1
Go Soy	512E21	Brown	Gray	White	Buff	2788	—	5.1
Local Seed Co.	ZS5098E3	Brown	Gray	White	—	2930	—	5.0
MorSoy	MS 5110E	Brown	Gray	White	Buff	2816	—	5.1
Progeny Ag	5211E3	Brown	Gray	White	Imp. Black	2955	—	5.2

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

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.

Table 72. Plant Characteristics of Maturity Group IV Liberty Link, Roundup Ready, and Conventional Soybeans.

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
Credenz	CZ 4820 LL	—	—	—	—	2650	—	4.8
GDM Seeds	V 4520 S	Tan	Lt Tawny	White	Black	3265	—	4.5
GDM Seeds	V 4720 S	Tan	Lt Tawny	White	Black	3198	—	4.7
GDM Seeds	V 4921 S	Tan	Lt Tawny	Purple	Black	3658	—	4.9
Go Soy	48C17S	Brown	Lt Tawny	Purple	Black	2806	—	4.8
Go Soy	Ireane	Tan	Lt Tawny	Purple	Imp. Black	3775	—	4.9
Go Soy	46G19	Tan	Tawny	White	Black	3034	—	4.6
Go Soy	GT Ireane	Tan	Gray	White	Buff	3940	—	4.9
Go Soy	49G16	Tan	Tawny	Purple	Black	3378	—	4.9
Local Seed Co.	LSX4711GL	—	—	—	—	3035	—	4.7
Local Seed Co.	LSX3911GL	—	—	—	—	2815	—	3.9
Petrus Seed	4619 GTS	Tan	Tawny	White	Black	3300	—	4.6
Petrus Seed	4916 GT	Tan	Tawny	Purple	Black	3200	—	4.9
Progeny Ag	4602LR	Black	Lt Tawny	Purple	Brown	2925	—	4.6
U. of Arkansas	R15-2422	—	Gray	Purple	—	3628	—	4.7
U. of Arkansas	R16-259	Tan	Tawny	Purple	—	3133	—	4.6
U. of Missouri	S15-10879C	Black	Gray	White	Brown	3265	I	4.1
U. of Missouri	S15-5904RY	Tan	Lt Tawny	White	Brown	3120	I	4.5
U. of Missouri	S15-3847R	Tan	Gray	White	Black	3350	I	4.6
U. of Missouri	S16-5540R	Tan	Tawny	White	Brown	3210	SD	4.6
U. of Missouri	S16-14730C	Tan	Tawny	Purple	Black	2890	I	4.7
U. of Missouri	S15-3772RY	Tan	Gray	Purple	Imp. Black	2955	I	4.8
U. of Missouri	S16-14379C	Tan	Gray	Purple	Black	2940	I	4.8
U. of Missouri	S16-7875C	Tan	Tawny	White	Imp. Black	2895	SD	4.9
U. of Missouri	S16-11644C	Tan	Tawny	White	Imp. Black	3370	SD	4.9
U. of Missouri	S16-7922C	Tan	Tawny	White	Imp. Black	3120	SD	4.9

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

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.

Table 73. Plant Characteristics of Maturity Group V Liberty Link, Roundup Ready, and Conventional Soybeans

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM
Go Soy	50G17	Tan	Tawny	Purple	Black	2974	—	5.0
Petrus Seed	5319 GT	Tan	Tawny	White	Black	3300	—	5.3
U. of Arkansas	R13-14635RR	Tan	Gray	White	Buff	3368	—	5.4
U. of Missouri	S16-3747RY	Black	Gray	White	Buff	3095	D	5.0
U. of Missouri	S16-3739RY	Black	Gray	White	Buff	3400	SD	5.2
U. of Missouri	S16-15809C	Tan	Tawny	White	Imp. Black	2940	SD	5.2
U. of Missouri	S16-11651C	Tan	Tawny	White	Black	2665	SD	5.3
U. of Missouri	S16-15170C	Tan	Gray	White	Brown	2425	I	5.3

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

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.

2020 SOYBEAN VARIETY TRIAL STEM CANKER REPORT

All of the soybean entries in the 2020 variety trials were evaluated for their reaction to the stem canker fungus (*Diaporthe aspalathi*). Trials consisted of single rows containing each cultivar planted in 10-foot plots and replicated four times in Stoneville, Mississippi. Within each row, 10 plants were inoculated with a single toothpick infested with the fungus that causes stem canker. Plants were inoculated approximately 5–6 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 stem canker severity on 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=40 observations/entry, 10 plants each plot [variety] replicated four times). In addition, each cultivar includes a stem canker designation: R = resistant (0.0-

2.9), MR = moderately resistant (3.0-4.9), MS = moderately susceptible (5.0-6.9), and S = susceptible (7.0-9.0). In field situations where stem canker has been observed in the past, plant cultivars that have been tested in our production system and 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 (e.g., see the Clarksdale yield response from 2017). Therefore, over time, and in years when the environment may not be conducive to the development of stem canker, it is possible that the response of a given variety to stem canker could be different between years. As one example to the potential environment, consider the response of the “checks,” which are included to verify that inoculation did in fact work.

Table 74. Response of Maturity Group IV Early Xtend Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Agrigold G4440RX (Check)	5.7 a	MR/MS
Mission Seed Solutions A4447N (Check)	3.2 b	MR
Progeny P4255 (Check)	5.7 a	MR/MS
AgriGold G4255RX	0.0 c	R
AgriGold G4620RX	0.0 c	R
Armor 44-D49	0.0 c	R
Armor 44-D92	0.4 c	R
Armor 46-D09	0.0 c	R
Asgrow AG43X0	0.0 c	R
Asgrow AG45X8	0.0 c	R
Asgrow AG46X0	0.0 c	R
Asgrow AG46X6	0.0 c	R
Credenz CZ 4280X	0.0 c	R
Credenz CZ 4341X	0.0 c	R
Credenz CZ 4570X	0.2 c	R
Credenz CZ 4600X	0.0 c	R
Delta Grow 46X05/STS	0.0 c	R
Delta Grow 46X65/STS	0.0 c	R
Dyna-Gro S45XS37	0.0 c	R
Dyna-Gro S45XS66	0.0 c	R
Dyna-Gro S46XS60	0.0 c	R
GDM Seeds DM 44X31	0.0 c	R
GDM Seeds DM 45X61	0.0 c	R
Great Heart Seed GT-4677XS	0.2 c	R
LG Seeds LGS4464RX	0.0 c	R
LG Seeds LGS4632RX	0.0 c	R
Local Seed Co. LS3976X	0.2 c	R
Local Seed Co. LS4299XS(LSX4301XS)	0.0 c	R
Local Seed Co. LS4407X (LSX4501X)	0.0 c	R
Local Seed Co. LS4565X	0.0 c	R
Local Seed Co. LS4583X	0.0 c	R
Mission Seed Solutions A4448X	0.0 c	R
Mission Seed Solutions A4618X	0.0 c	R
MorSoy MS 4616RXT/STS	0.0 c	R
NK S44-C7X	0.0 c	R
Pioneer P42A96X	0.2 c	R
Pioneer P44A72BX	0.0 c	R
Pioneer P46A86X	0.0 c	R
Progeny Ag 4265RXS	0.0 c	R
Progeny Ag 4444RXS	0.0 c	R
Progeny Ag 4505RXS	0.0 c	R
Progeny Ag 4620RXS	0.0 c	R
Terral REV4679X	0.0 c	R
USG 7447XTS	5.4 a	MR
USG 7461XTS	0.0 c	R
LSD	1.3	—
CV (%)	200.9	—
P-value for F-statistic	<0.0001	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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 75. Response of Maturity Group IV late Xtend Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
LG Seeds LGS4931RX (Check)	0.0 c	R
Petrus Seed 4916GT (Check)	3.4 a	MR
AgriGold G4820RX	0.0 c	R
AgriGold G4995RX	0.0 c	R
AGS GS47X19	0.0 c	R
AGS GS48X19	0.0 c	R
AGS GS49X21	0.0 c	R
Armor 48-D25	0.0 c	R
Armor 49-D14	0.3 c	R
Asgrow AG48X9	0.0 c	R
Credenz CZ 4730X	0.2 c	R
Credenz CZ 4770X	0.0 c	R
Credenz CZ 4810X	0.0 c	R
Credenz CZ 4869X	0.2 c	R
Credenz CZ 4941X	0.5 c	R
Credenz CZ 4979X	0.0 c	R
Delta Grow 47X95	0.0 c	R
Delta Grow 48X05	0.5 c	R
Delta Grow 48X45	0.0 c	R
Delta Grow 49X15	0.0 c	R
Delta Grow 49X25	0.0 c	R
Dyna-Gro S47XT20	0.0 c	R
Dyna-Gro S48XT56	0.5 c	R
Dyna-Gro S48XT90	0.2 c	R
Dyna-Gro S49XT21	0.1 c	R
Dyna-Gro S49XT70	0.0 c	R
GDM Seeds DM 47X39	0.0 c	R
GDM Seeds DM 49X13	0.0 c	R
Great Heart Seed GT-4828X	0.0 c	R
Great Heart Seed GT-4833XS	0.0 c	R
Great Heart Seed GT-4979X	0.0 c	R
LG Seeds LGS4899RX	0.0 c	R
Local Seed Co. LS4795XS (LSX4601XS)	0.0 c	R
Local Seed Co. LS4999X (LSX4901X)	0.0 c	R
Local Seed Co. LSX4612XS	0.2 c	R
Local Seed Co. LSX4812XS	0.0 c	R
Mission A4828X	0.0 c	R
Mission A4950X	0.0 c	R
MorSoy MS 4846 RXT	0.0 c	R
NK S47-Y9X	0.0 c	R
NK S49-F5X	0.0 c	R
Pioneer P48A60X	0.0 c	R
Progeny Ag 4700RXS	0.0 c	R
Progeny Ag 4816RX	0.0 c	R
Progeny Ag 4821RX	0.5 c	R
Progeny Ag 4851RX	0.0 c	R
Progeny Ag 4970RX	0.0 c	R
Taylor Seed T4880XS	0.0 c	R
Taylor Seed T4990XS	0.0 c	R
Terral REV4927X	0.2 c	R
Terral REV4940X	0.0 c	R
USG 7480XT	0.0 c	R
USG 7489XT	2.1 b	R
USG 7496XTS	0.2 c	R
LSD	1.1	—
CV (%)	487.8	—
P-value for F-statistic	0.0033	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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 76. Response of Maturity Group IV Enlist Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Delta Grow 48E49 (Check)	0.2	R
Armor 48-E81	0.2	R
Delta Grow 45E28XP	0.0	R
Delta Grow 47E20/STS	0.0	R
Delta Grow 47E80/STS	0.0	R
Delta Grow 48E10	0.0	R
Delta Grow 48E49/STS	0.0	R
Delta Grow 49E00/STS	0.2	R
GDM Seeds DM 48E73	0.0	R
Go Soy 463E20S	0.0	R
Go Soy 473E20	0.0	R
Go Soy 481E19	0.5	R
Go Soy 491E19S	0.0	R
Local Seed Co. ZS4694E3S (LSX4602ES)	0.0	R
MorSoy MS 4800E	0.2	R
Pioneer P49T62E	0.2	R
Progeny Ag 4241E3	0.0	R
Progeny Ag 4682E3	0.0	R
Progeny Ag 4775E3S	0.0	R
Progeny Ag 4807E3S	0.0	R
Progeny Ag 4902E3	0.0	R
Progeny Ag 4908E3S	0.2	R
USG 7491ETS	0.0	R
LSD	0.3	—
CV (%)	325.0	—
P-value for F-statistic	0.4264	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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 77. Response of Maturity Group IV Conventional, LibertyLink, and RoundUp Ready Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
J77-339 (check)	3.4 bc	MR
Univ. of Missouri S11-20242C (check)	3.7 b	MR
Univ. of Missouri S15-10434C (check)	2.3 bcd	R
Credenz CZ 4820 LL	0.0 e	R
GDM Seeds V 4520 S	0.0 e	R
GDM Seeds V 4720 S	0.0 e	R
GDM Seeds V 4921 S	0.0 e	R
Go Soy 46G19	0.0 e	R
Go Soy 48C17S	0.0 e	R
Go Soy 49G16	6.6 a	MS
Go Soy GT Ireane	0.0 e	R
Go Soy Ireane	0.2 e	R
Local Seed Co. LSX3911GL	0.0 e	R
Local Seed Co. LSX4711GL	0.2 e	R
Petrus Seed 4619 GTS	0.0 e	R
Petrus Seed 4916 GT	6.5 a	MS
Progeny Ag 4602LR	0.0 e	R
Univ. of Arkansas R15-2422	2.9 bcd	R
Univ. of Arkansas R16-259	0.2 e	R
Univ. of Missouri S15-10879C	4.0 b	MR
Univ. of Missouri S15-3772RY	1.7 bcd	R
Univ. of Missouri S15-3847R	0.0 e	R
Univ. of Missouri S15-5904RY	1.1 de	R
Univ. of Missouri S16-11644C	3.9 b	MR
Univ. of Missouri S16-14379C	0.0 e	R
Univ. of Missouri S16-14730C	0.0 e	R
Univ. of Missouri S16-5540R	2.8 bcd	R
Univ. of Missouri S16-7875C	1.2 de	R
Univ. of Missouri S16-7922C	0.0 e	R
LSD	1.8	—
CV (%)	92.9	—
P-value for F-statistic	<0.0001	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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 78. Response of Maturity Group V Early Xtend Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Progeny P5688RX (Che ck)	6.3 a	MS
Asgrow AG52X9	0.0 c	R
Asgrow AG53X0	0.0 c	R
Asgrow AG53X9	0.0 c	R
Asgrow AG55X0	0.4 c	R
Credenz CZ 5000X	0.0 c	R
Credenz CZ 5251X	0.0 c	R
Credenz CZ 5299X	0.1 c	R
Credenz CZ 5420X	0.0 c	R
Credenz CZ 5700	0.2 c	R
Delta Grow 52X05/STS	1.6 b	R
Delta Grow 54X25	1.5 b	R
Dyna-Gro GS5261X	0.0 c	R
Dyna-Gro S52XS39 (SX 18652XS)	0.0 c	R
Dyna-Gro S56XT99	0.2 c	R
GDM Seeds DM 51X61	0.0 c	R
Great Heart Seed GT-5214X	0.0 c	R
Great Heart Seed GT-5417X	0.0 c	R
Local Seed Co. LS5009XS	0.2 c	R
Local Seed Co. LS5087X	0.0 c	R
Local Seed Co. LS5386X	0.0 c	R
MorSoy MS 5398 RXT	0.0 c	R
NK S51-R3XS	0.0 c	R
NK S53-F7X	0.0 c	R
Pioneer P53A67X	0.0 c	R
Pioneer P55A49X	0.0 c	R
Progeny Ag 5016RXS	0.0 c	R
Progeny Ag 5170RX	0.0 c	R
Progeny Ag 5252RX	0.0 c	R
Progeny Ag 5554RX	0.0 c	R
LSD	0.9	—
CV (%)	193.8	—
P-value for F-statistic	<0.0001	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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.Susceptible.

Table 79. Response of Maturity Group V Enlist Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Terral REV 5190E (Check)	0.0	R
Armor 51-E53	0.3	R
Delta Grow 51E60	0.0	R
Delta Grow 52E15/STS	0.1	R
Go Soy 512E21	0.0	R
Local Seed Co. ZS5098E3	0.0	R
MorSoy MS 5110E	0.0	R
Progeny Ag 5211E3	0.0	R
LSD	0.3	—
CV (%)	495.3	—
<i>P</i> -value for F-statistic	0.4980	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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.Susceptible

Table 80. Response of Maturity Group V Conventional, LibertyLink, and RoundUp Ready Soybean Cultivars to Stem Canker, 2020.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
J77-339 (Check)	3.4 ab	MR
Univ. of Missouri S15-10434C (Check)	2.5 abc	R
Go Soy 50G17	2.5 abc	R
Petrus Seed 5319 GT	0.0 d	R
Univ. of Arkansas R13-14635RR	0.2 cd	R
Univ. of Missouri S16-11651C	4.1 a	MR
Univ. of Missouri S16-15170C	0.0 d	R
Univ. of Missouri S16-15809C	4.8 a	MR
Univ. of Missouri S16-3739RY	1.7 bcd	R
Univ. of Missouri S16-3747RY	0.0 d	R
LSD	2.3	—
CV (%)	92.2	—
<i>P</i> -value for F-statistic	0.0002	—

¹Stem Canker Reaction — Ten plants per plot were inoculated with fungus-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 10 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.Susceptible

Table 81. Summary of Damage Kernel Total (DKT) by Variety for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety ¹	MG	Tech.	Raymond (Not irrigated)			Stoneville, clay (Irrigated)			Verona (Not irrigated)			Average DKT %
				Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	
Delta Grow	48E10	IV	Enlist	5/11	10/21	9.7	5/1	10/20	10.1	5/7	10/14	10.4	10.1
Local Seed	ZS4694E3S	IV	Enlist	5/11	10/21	8.4	5/1	10/20	12.9	5/7	10/14	5.6	9.0
USG	7480XT	IV	Enlist	5/11	10/21	9.9	5/1	10/20	3.2	5/7	10/14	5.6	6.2
Delta Grow	48E49/STS	IV	Enlist	5/11	10/21	14.2	5/1	10/20	1.6	5/7	10/14	8.8	8.2
Delta Grow	47E20/STS	IV	Enlist	5/11	10/21	10.8	5/1	10/20	1.8	5/7	10/14	3.1	5.2
Delta Grow	47E80/STS	IV	Enlist	5/11	10/21	9.9	5/1	10/20	0.4	5/7	10/14	2.0	4.1
Delta Grow	48E28XP	IV	Enlist	5/11	10/21	7.4	5/1	10/20	1.2	5/7	10/14	5.0	4.5
Delta Grow	49E00/STS	IV	Enlist	5/11	10/21	15.8	5/1	10/20	3.1	5/7	10/14	9.2	9.4
USG	7491ETS	IV	Enlist	5/11	10/21	11.7	5/1	10/20	5.8	5/7	10/14	13.0	10.2
DONMARIO SEEDS	DM 48E73	IV	Enlist	5/11	10/21	11.8	5/1	10/20	0.9	5/7	10/14	2.9	5.2
Pioneer	P49T62E	IV	Enlist	5/11	10/21	11.6	5/1	10/20	7.5	5/7	10/14	7.6	8.9
Armor	48-E81	IV	Enlist	5/11	10/21	14.3	5/1	10/20	6.6	5/7	10/14	13.6	11.5
Progeny Ag	4241E3	IV	Enlist	5/11	10/21	11.3	5/1	10/20	5.3	5/7	10/14	5.4	7.3
Progeny Ag	4682E3	IV	Enlist	5/11	10/21	9.4	5/1	10/20	2.7	5/7	10/14	7.2	6.4
Progeny Ag	4775E3S	IV	Enlist	5/11	10/21	6.2	5/1	10/20	7.5	5/7	10/14	3.0	5.6
Progeny Ag	4807E3S *	IV	Enlist	5/11	10/21	7.0	5/1	10/20	0.9	5/7	10/14	6.0	4.6
Progeny Ag	4902E3 *	IV	Enlist	5/11	10/21	13.0	5/1	10/20	4.3	5/7	10/14	10.1	9.1
Progeny Ag	4908E3S *	IV	Enlist	5/11	10/21	8.3	5/1	10/20	2.3	5/7	10/14	4.6	5.1
Go Soy	463E20S	IV	Enlist	5/11	10/21	13.9	5/1	10/20	4.1	5/7	10/14	3.0	7.0
Go Soy	491E19S	IV	Enlist	5/11	10/21	24.1	5/1	10/20	4.9	5/7	10/14	6.4	11.8
Go Soy	473E20	IV	Enlist	5/11	10/21	14.0	5/1	10/20	3.1	5/7	10/14	2.9	6.7
Go Soy	481E19	IV	Enlist	5/11	10/21	10.5	5/1	10/20	7.2	5/7	10/14	7.9	8.5
MorSoy	MS 4800E	IV	Enlist	5/11	10/21	12.6	5/1	10/20	3.0	5/7	10/14	6.7	7.4
Asgrow	AG46X6	IV	Xtend	5/11	10/21	3.5	5/1	10/20	3.9	5/7	10/14	5.8	4.4
Dyna-Gro	S45XS66	IV	Xtend	5/11	10/21	18.2	5/1	10/20	5.2	5/7	10/14	5.1	9.5
Progeny Ag	P 4620RXS	IV	Xtend	5/11	10/21	6.7	5/1	10/20	6.7	5/7	10/14	6.4	6.6
USG	7496XTS	IV	Xtend	5/11	10/21	11.1	5/1	10/20	1.7	5/7	10/14	4.1	5.6
Progeny Ag	P 4816RX	IV	Xtend	5/11	10/21	7.1	5/1	10/20	1.3	5/7	10/14	4.4	4.3
Dyna-Gro	S45XS37	IV	Xtend	5/11	10/21	17.9	5/1	10/20	5.3	5/7	10/14	1.9	8.4
Asgrow	AG45X8	IV	Xtend	5/11	10/21	11.1	5/1	10/20	2.9	5/7	10/14	3.4	5.8
Progeny Ag	P 4444RXS	IV	Xtend	5/11	10/21	10.3	5/1	10/20	6.3	5/7	10/14	3.0	6.5
MorSoy	MS 4616 RXT/STS	IV	Xtend	5/11	10/21	18.4	5/1	10/20	3.3	5/7	10/14	6.9	9.5
Progeny Ag	P 4851RX	IV	Xtend	5/11	10/21	17.0	5/1	10/20	3.0	5/7	10/14	5.6	8.5
MorSoy	MS 4846 RXT	IV	Xtend	5/11	10/21	11.8	5/1	10/20	2.1	5/7	10/14	2.1	5.3
Pioneer	P42A96X	IV	Xtend	5/11	10/21	13.3	5/1	10/20	12.9	5/7	10/14	8.7	11.6
Pioneer	P48A60X	IV	Xtend	5/11	10/21	15.8	5/1	10/20	2.2	5/7	10/14	5.9	8.0
USG	7447XTS	IV	Xtend	5/11	10/21	12.8	5/1	10/20	1.0	5/7	10/14	3.0	5.6
Local Seed	LS4565X	IV	Xtend	5/11	10/21	12.3	5/1	10/20	2.8	5/7	10/14	4.9	6.7
Local Seed	LS4583X	IV	Xtend	5/11	10/21	4.7	5/1	10/20	0.9	5/7	10/14	2.0	2.5
USG	7489XT	IV	Xtend	5/11	10/21	12.2	5/1	10/20	2.3	5/7	10/14	2.0	5.5
Great Heart	GT-4833XS	IV	Xtend	5/11	10/21	8.6	5/1	10/20	2.1	5/7	10/14	1.7	4.1
Great Heart	GT-4979X	IV	Xtend	5/11	10/21	13.3	5/1	10/20	2.4	5/7	10/14	3.6	6.4
AgriGold	G4995RX	IV	Xtend	5/11	10/21	6.9	5/1	10/20	1.6	5/7	10/14	3.9	4.1
Asgrow	AG48X9	IV	Xtend	5/11	10/21	15.8	5/1	10/20	1.5	5/7	10/14	1.7	6.3
Asgrow	AG43X0	IV	Xtend	5/11	10/21	7.0	5/1	10/20	1.6	5/7	10/14	4.4	4.3
Asgrow	AG46X0	IV	Xtend	5/11	10/21	7.4	5/1	10/20	0.8	5/7	10/14	1.8	3.3
Pioneer	P44A72BX	IV	Xtend	5/11	10/21	11.8	5/1	10/20	2.7	5/7	10/14	5.2	6.6
Local Seed	LS4407X	IV	Xtend	5/11	10/21	9.1	5/1	10/20	0.6	5/7	10/14	4.0	4.6
NK Brand	S44-C7X	IV	Xtend	5/11	10/21	15.3	5/1	10/20	2.8	5/7	10/14	5.5	7.9
Mission Seed	A4448X	IV	Xtend	5/11	10/21	19.0	5/1	10/20	2.6	5/7	10/14	1.4	7.7
Local Seed	LS4299XS	IV	Xtend	5/11	10/21	16.1	5/1	10/20	4.2	5/7	10/14	1.8	7.4
Armor	44-D92	IV	Xtend	5/11	10/21	18.3	5/1	10/20	5.4	5/7	10/14	8.5	10.7
Progeny Ag	P 4265RXS	IV	Xtend	5/11	10/21	14.8	5/1	10/20	9.4	5/7	10/14	4.8	9.7
Local Seed	LS3976X	IV	Xtend	5/11	10/21	44.0	5/1	10/20	32.8	5/7	10/14	20.9	32.6
Local Seed	LS4795XS	IV	Xtend	5/11	10/21	6.3	5/1	10/20	0.9	5/7	10/14	3.2	3.5
Delta Grow	46X65/STS	IV	Xtend	5/11	10/21	15.9	5/1	10/20	1.0	5/7	10/14	2.6	6.5
Dyna-Gro	S46XS60	IV	Xtend	5/11	10/21	12.2	5/1	10/20	0.5	5/7	10/14	1.7	4.8
Great Heart Seed	GT-4677XS	IV	Xtend	5/11	10/21	9.2	5/1	10/20	0.7	5/7	10/14	0.7	3.5
Delta Grow	49X15	IV	Xtend	5/11	10/21	6.5	5/1	10/20	1.6	5/7	10/14	0.7	2.9
LG Seeds	LGS4899RX	IV	Xtend	5/11	10/21	15.0	5/1	10/20	1.4	5/7	10/14	1.2	5.9
AGS	GS47X19	IV	Xtend	5/11	10/21	10.3	5/1	10/20	2.6	5/7	10/14	3.4	5.4
NK Brand	S49-F5X	IV	Xtend	5/11	10/21	9.1	5/1	10/20	1.0	5/7	10/14	2.2	4.1
Dyna-Gro	S48XT56	IV	Xtend	5/11	10/21	4.8	5/1	10/20	2.1	5/7	10/14	2.7	3.2

¹Variety followed by an asterisk indicates an experimental entry.

Table 81 (continued). Summary of Damage Kernel Total (DKT) by Variety for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety ¹	MG	Tech.	Raymond (Not irrigated)			Stoneville, clay (Irrigated)			Verona (Not irrigated)			Average DKT	
				Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	%	
Dyna-Gro	S49XT70	IV	Xtend	5/11	10/21	15.9	5/1	10/20	1.6	5/7	10/14	2.9	6.8	
Local Seed	LS4999X	IV	Xtend	5/11	10/21	7.9	5/1	10/20	1.8	5/7	10/14	3.8	4.5	
Delta Grow	47X95	IV	Xtend	5/11	10/21	10.0	5/1	10/20	5.0	5/7	10/14	3.5	6.2	
Progeny Ag	P 4821RX	IV	Xtend	5/11	10/21	14.8	5/1	10/20	9.3	5/7	10/14	5.8	10.0	
NK Brand	S47-Y9X	IV	Xtend	5/11	10/21	5.3	5/1	10/20	0.8	5/7	10/14	5.6	3.9	
Dyna-Gro	S47XT20	IV	Xtend	5/11	10/21	12.9	5/1	10/20	1.5	5/7	10/14	3.3	5.9	
Credenz	CZ 4869X	IV	Xtend	5/11	10/21	13.5	5/1	10/20	1.4	5/7	10/14	2.0	5.6	
Credenz	CZ 4979X	IV	Xtend	5/11	10/21	6.8	5/1	10/20	1.8	5/7	10/14	0.4	3.0	
Delta Grow	48X05	IV	Xtend	5/11	10/21	12.1	5/1	10/20	4.9	5/7	10/14	1.4	6.1	
Delta Grow	49X25	IV	Xtend	5/11	10/21	7.3	5/1	10/20	3.0	5/7	10/14	1.3	3.9	
Delta Grow	48X45	IV	Xtend	5/11	10/21	8.8	5/1	10/20	0.9	5/7	10/14	3.8	4.5	
Credenz	CZ 4730X	IV	Xtend	5/11	10/21	11.7	5/1	10/20	0.8	5/7	10/14	1.8	4.8	
Credenz	CZ 4770X	IV	Xtend	5/11	10/21	14.1	5/1	10/20	2.3	5/7	10/14	4.8	7.1	
Credenz	CZ 4810X	IV	Xtend	5/11	10/21	8.2	5/1	10/20	0.4	5/7	10/14	4.4	4.3	
Local Seed	LS4607XS	IV	Xtend	5/11	10/21	11.8	5/1	10/20	4.0	5/7	10/14	2.5	6.1	
Armor	48-D25	IV	Xtend	5/11	10/21	10.5	5/1	10/20	1.5	5/7	10/14	3.6	5.2	
Armor	49-D14	IV	Xtend	5/11	10/21	8.4	5/1	10/20	1.8	5/7	10/14	2.3	4.2	
Mission Seed	A4828X	IV	Xtend	5/11	10/21	5.8	5/1	10/20	4.5	5/7	10/14	3.5	4.6	
Mission Seed	A4950X	IV	Xtend	5/11	10/21	7.9	5/1	10/20	3.2	5/7	10/14	1.4	4.2	
DONMARIO SEEDS	DM 47X39	IV	Xtend	5/11	10/21	7.3	5/1	10/20	1.8	5/7	10/14	5.3	4.8	
DONMARIO SEEDS	DM 49X13	IV	Xtend	5/11	10/21	11.8	5/1	10/20	1.7	5/7	10/14	4.7	6.1	
Dyna-Gro	S48XT90	IV	Xtend	5/11	10/21	10.4	5/1	10/20	1.5	5/7	10/14	5.0	5.6	
Dyna-Gro	S49XT21	IV	Xtend	5/11	10/21	7.5	5/1	10/20	3.1	5/7	10/14	2.9	4.5	
AgriGold	G4820RX	IV	Xtend	5/11	10/21	7.2	5/1	10/20	2.2	5/7	10/14	4.1	4.5	
Great Heart	GT-4828X	IV	Xtend	5/11	10/21	5.2	5/1	10/20	1.0	5/7	10/14	2.6	2.9	
Local Seed	LS4806XS	IV	Xtend	5/11	10/21	6.8	5/1	10/20	0.5	5/7	10/14	2.9	3.4	
Progeny Ag	4700RXS	IV	Xtend	5/11	10/21	8.7	5/1	10/20	1.9	5/7	10/14	2.3	4.3	
Progeny Ag	4970RX	IV	Xtend	5/11	10/21	9.3	5/1	10/20	1.6	5/7	10/14	5.3	5.4	
AGS	GS48X19	IV	Xtend	5/11	10/21	10.9	5/1	10/20	2.0	5/7	10/14	3.3	5.4	
AGS	GS49X21	IV	Xtend	5/11	10/21	20.2	5/1	10/20	1.6	5/7	10/14	3.1	8.3	
Taylor Seed	T4880XS	IV	Xtend	5/11	10/21	10.0	5/1	10/20	0.8	5/7	10/14	2.3	4.4	
Taylor Seed	T4990XS	IV	Xtend	5/11	10/21	6.9	5/1	10/20	2.1	5/7	10/14	1.5	3.5	
Credenz	CZ 4941X	IV	Xtend	5/11	10/21	9.6	5/1	10/20	3.4	5/7	10/14	4.4	5.8	
Delta Grow	46X05/STS	IV	Xtend	5/11	10/21	9.7	5/1	10/20	0.8	5/7	10/14	1.6	4.0	
Credenz	CZ 4570X	IV	Xtend	5/11	10/21	16.4	5/1	10/20	1.3	5/7	10/14	1.7	6.5	
Credenz	CZ 4600X	IV	Xtend	5/11	10/21	22.9	5/1	10/20	1.4	5/7	10/14	1.9	8.7	
Credenz	CZ 4280X	IV	Xtend	5/11	10/21	22.3	5/1	10/20	0.7	5/7	10/14	1.9	8.3	
Armor	46-D09	IV	Xtend	5/11	10/21	10.4	5/1	10/20	0.3	5/7	10/14	1.8	4.2	
USG	7461XTS	IV	Xtend	5/11	10/21	15.6	5/1	10/20	1.2	5/7	10/14	4.5	7.1	
LG Seeds	LGS4464RX	IV	Xtend	5/11	10/21	11.8	5/1	10/20	6.4	5/7	10/14	4.5	7.6	
LG Seeds	LGS4632RX	IV	Xtend	5/11	10/21	10.8	5/1	10/20	1.6	5/7	10/14	2.2	4.9	
Mission Seed	A4618X	IV	Xtend	5/11	10/21	8.5	5/1	10/20	4.7	5/7	10/14	4.4	5.9	
DONMARIO SEEDS	DM 45X61	IV	Xtend	5/11	10/21	7.4	5/1	10/20	5.7	5/7	10/14	3.5	5.5	
Pioneer	P46A86X	IV	Xtend	5/11	10/21	5.8	5/1	10/20	2.2	5/7	10/14	3.5	3.8	
Armor	44-D49	IV	Xtend	5/11	10/21	18.8	5/1	10/20	2.4	5/7	10/14	2.7	8.0	
Progeny Ag	P 4505RXS	IV	Xtend	5/11	10/21	22.3	5/1	10/20	1.6	5/7	10/14	4.1	9.3	
AgriGold	G4255RX	IV	Xtend	5/11	10/21	19.3	5/1	10/20	5.0	5/7	10/14	3.5	9.3	
AgriGold	G4620RX	IV	Xtend	5/11	10/21	10.0	5/1	10/20	0.7	5/7	10/14	2.5	4.4	
Credenz	CZ 4341X	IV	Xtend	5/11	10/21	10.6	5/1	10/20	2.0	5/7	10/14	3.4	5.3	
DONMARIO SEEDS	DM 44X31	IV	Xtend	5/11	10/21	18.5	5/1	10/20	2.1	5/7	10/14	2.0	7.5	
Delta Grow	52E15/STS	V	Enlist	5/11	10/21	5.2	5/1	10/20	3.2	5/7	10/14	9.4	5.9	
Local Seed	ZS5098E3	V	Enlist	5/11	10/21	7.3	5/1	10/20	5.5	5/7	10/14	6.6	6.5	
Delta Grow	51E60	V	Enlist	5/11	10/21	8.1	5/1	10/20	3.3	5/7	10/14	15.1	8.8	
Armor	51-E53	V	Enlist	5/11	10/21	6.2	5/1	10/20	3.1	5/7	10/14	9.4	6.2	
Progeny Ag	5211E3	V	Enlist	5/11	10/21	9.9	5/1	10/20	3.5	5/7	10/14	13.0	8.8	
Go Soy	512E21	V	Enlist	5/11	10/21	9.9	5/1	10/20	2.5	5/7	10/14	15.0	9.1	
MorSoy	MS 5110E	V	Enlist	5/11	10/21	17.6	5/1	10/20	2.7	5/7	10/14	12.5	10.9	
Progeny Ag	P 5016RXS	V	Xtend	5/11	10/21	7.2	5/1	10/20	2.1	5/7	10/14	4.0	4.4	
Pioneer	P55A49X	V	Xtend	5/11	10/21	9.4	5/1	10/20	0.3	5/7	10/14	1.9	3.9	
Asgrow	AG52X9	V	Xtend	5/11	10/21	4.2	5/1	10/20	1.1	5/7	10/14	1.8	2.4	
Asgrow	AG53X9	V	Xtend	5/11	10/21	9.5	5/1	10/20	1.6	5/7	10/14	2.8	4.6	
Progeny Ag	P 5252RX	V	Xtend	5/11	10/21	3.6	5/1	10/20	1.0	5/7	10/14	1.3	2.0	
Progeny Ag	P 5554RX	V	Xtend	5/11	10/21	2.8	5/1	10/20	0.9	5/7	10/14	0.7	1.5	

¹Variety followed by an asterisk indicates an experimental entry.

Table 81 (continued). Summary of Damage Kernel Total (DKT) by Variety for the 2020 Mississippi Soybean Variety Trials.

Brand	Variety ¹	MG	Tech.	Raymond (Not irrigated)			Stoneville, clay (Irrigated)			Verona (Not irrigated)			Average DKT	
				Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	%	
Local Seed	LS5087X	V	Xtend	5/11	10/21	8.8	5/1	10/20	3.4	5/7	10/14	3.6	5.3	
Delta Grow	52X05/STS	V	Xtend	5/11	10/21	3.4	5/1	10/20	1.3	5/7	10/14	1.5	2.1	
Delta Grow	54X25	V	Xtend	5/11	10/21	6.0	5/1	10/20	0.5	5/7	10/14	1.2	2.6	
NK Brand	S51-R3XS	V	Xtend	5/11	10/21	11.8	5/1	10/20	3.4	5/7	10/14	10.4	8.5	
NK Brand	S53-F7X	V	Xtend	5/11	10/21	10.4	5/1	10/20	3.5	5/7	10/14	2.7	5.5	
Local Seed	LS5386X	V	Xtend	5/11	10/21	9.0	5/1	10/20	0.7	5/7	10/14	1.7	3.8	
Progeny Ag	P 5170RX	V	Xtend	5/11	10/21	3.7	5/1	10/20	1.6	5/7	10/14	1.3	2.2	
Credenz	CZ 5299X	V	Xtend	5/11	10/21	5.5	5/1	10/20	0.7	5/7	10/14	2.8	3.0	
Dyna-Gro	S56XT99	V	Xtend	5/11	10/21	3.7	5/1	10/20	1.0	5/7	10/14	1.6	2.1	
Credenz	CZ 5000X	V	Xtend	5/11	10/21	16.4	5/1	10/20	1.7	5/7	10/14	4.3	7.5	
Credenz	CZ 5420X	V	Xtend	5/11	10/21	11.1	5/1	10/20	1.7	5/7	10/14	3.2	5.3	
Credenz	CZ 5700	V	Xtend	5/11	10/21	2.8	5/1	10/20	0.8	5/7	10/14	0.8	1.5	
Local Seed	LS5009XS	V	Xtend	5/11	10/21	8.4	5/1	10/20	3.0	5/7	10/14	2.8	4.7	
Dyna-Gro	S52XS39	V	Xtend	5/11	10/21	7.4	5/1	10/20	0.8	5/7	10/14	1.8	3.3	
Asgrow	AG53X0	V	Xtend	5/11	10/21	4.3	5/1	10/20	2.8	5/7	10/14	3.0	3.4	
Asgrow	AG55X0	V	Xtend	5/11	10/21	5.4	5/1	10/20	0.6	5/7	10/14	1.4	2.5	
Pioneer	P53A67X	V	Xtend	5/11	10/21	4.8	5/1	10/20	0.1	5/7	10/14	1.2	2.0	
Great Heart Seed	GT-5214X	V	Xtend	5/11	10/21	2.7	5/1	10/20	0.4	5/7	10/14	1.6	1.6	
Great Heart Seed	GT-5417X	V	Xtend	5/11	10/21	4.0	5/1	10/20	1.0	5/7	10/14	5.0	3.3	
Dyna-Gro	GS5261X	V	Xtend	5/11	10/21	6.5	5/1	10/20	3.5	5/7	10/14	3.3	4.4	
MorSoy	MS 5398 RXT	V	Xtend	5/11	10/21	4.6	5/1	10/20	0.3	5/7	10/14	1.8	2.2	
Credenz	CZ 5251X	V	Xtend	5/11	10/21	10.1	5/1	10/20	0.9	5/7	10/14	2.0	4.3	
DONMARIO SEEDS	DM 51X61	V	Xtend	5/11	10/21	6.5	5/1	10/20	2.6	5/7	10/14	1.2	3.4	

¹Variety followed by an asterisk indicates an experimental entry.

Public Varieties Entered

University of Arkansas

R15-2422

R16-259

R13-14635RR

University of Missouri

S15-10879C

S15-5904RY

S15-3847R

S16-5540R

S16-14730C

S15-3772RY

S16-14379C

S16-7875C

S16-11644C

S16-7922C

S16-3747RY

S16-3739RY

S16-15809C

S16-11651C

S16-15170C

Commercial Varieties Entered

Company	Variety			Seed treatment	
Armor Seed 183 Pennsylvania Ave. Waldenburg, AR 72475	Armor	44-D92			Acceleron+Insect+ilevo
	Armor	46-D09			
	Armor	44-D49			
	Armor	48-E81			
	Armor	48-D25			
	Armor	49-D14			
BASF 3694 Sparta Rd. Holcomb, MS 38940	Credenz	CZ 4570X	Credenz	CZ 4730X	PV+IL
	Credenz	CZ 4600X	Credenz	CZ 4770X	
	Credenz	CZ4280X	Credenz	CZ 4810X	
	Credenz	CZ 4341X	Credenz	CZ 4869X	
	Credenz	CZ 4820 LL	Credenz	CZ 4979X	
	Credenz	CZ 5000X	Credenz	CZ 4941X	
	Credenz	CZ 5299X			
	Credenz	CZ 5420X			
	Credenz	CZ5700			
	Credenz	CZ 5251X			
Petrus Seed and Grain Co. 4100 Hanson Road Hazen, AR 72064	Petrus Seed	4619 GTS			CruiserMaxx
	Petrus Seed	4916 GT			
	Petrus Seed	5319 GT			
Delta Grow Seed P.O. Box 219 England, AR 72046	Delta Grow	46X05/STS	Delta Grow	48X05	CruiserMAXX
	Delta Grow	46X65/STS	Delta Grow	49X25	
	Delta Grow	47E20/STS	Delta Grow	48X45	
	Delta Grow	47E80/STS	Delta Grow	49X15	
	Delta Grow	48E10	Delta Grow	47X95	
	Delta Grow	48E49/STS	Delta Grow	52X05/STS	
	Delta Grow	45E28XP	Delta Grow	54X25	
	Delta Grow	49E00/STS			
	Delta Grow	52E15/STS			
Nutrien Ag Solutions/ Dyna-Gro Seed Vip/Saltro 254 U.S. Hwy. 72 West Collierville, TN 38014	Dyna-Gro	S45XS37	Dyna-Gro	S52XS39 (SX 18652XS)	Equity
	Dyna-Gro	S45XS66	Dyna-Gro	S56XT99	
	Dyna-Gro	S46XS60	Dyna-Gro	GS5261X	
	Dyna-Gro	S47XT20			
	Dyna-Gro	S48XT56			
	Dyna-Gro	S48XT90			
	Dyna-Gro	S49XT21			
	Dyna-Gro	S49XT70			
Great Heart Seed 220 W. Washington St. Paris, IL 61944	Great Heart Seed	GT-4677XS	Great Heart Seed	GT-5214X	Great Start Max
	Great Heart Seed	GT-4833XS	Great Heart Seed	GT-5417X	
	Great Heart Seed	GT-4979X			
	Great Heart Seed	GT-4828X			
Bayer Crop Science 800 N. Lindbergh Blvd. St. Louis, MO 63167	Asgrow	AG43X0			Acceleron+Insect+ilevo
	Asgrow	AG45X8			
	Asgrow	AG46X0			
	Asgrow	AG46X6			
	Asgrow	AG48X9			
	Asgrow	AG52X9			
	Asgrow	AG53X0			
	Asgrow	AG53X9			
	Asgrow	AG55X0			
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny	4265RXS	Progeny	4700RXS	Poncho/Votivo/Obvius Plus
	Progeny	4444RXS	Progeny	4816RX	
	Progeny	4505RXS	Progeny	4821RX	
	Progeny	4620RXS	Progeny	4851RX	
	Progeny	4241E3	Progeny	4970RX	
	Progeny	4682E3	Progeny	5016RXS	
	Progeny	4775E3S	Progeny	5170RX	
	Progeny	4807E3S	Progeny	5252RX	
	Progeny	4902E3	Progeny	5554RX	
	Progeny	4908E3S	Progeny	5211E3	
	Progeny	4602LR			

Company	Variety			Seed treatment	
Dupont Pioneer 59 Greif Parkway, Suite 200 Delaware, OH 43015	Pioneer Pioneer Pioneer Pioneer Pioneer	P42A96X P46A86X P44A72BX P49T62E P48A60X	Pioneer Pioneer	P53A67X P55A49X	LumiGEN
Stratton Seed Co. 1530 Hwy. 79 South Stuttgart, AR 72160	Go Soy Go Soy Go Soy Go Soy Go Soy Go Soy Go Soy Go Soy	463E20S 491E19S 473E20 481E19 48C17S Ireane 46G19 GT Ireane	AGS AGS AGS Go Soy Go Soy Go Soy	GS47X19 GS48X19 GS49X21 49G16 512E21 50G17	CruiserMaxx Vibrance
Taylor Seed 778 Southern Pine Dr. Collierville, TN 38017	Taylor Seed Taylor Seed	T4880XS T4990XS			—
UniSouth Genetics 3205-C Hwy. 46 South Dickson, TN 37055	USG USG USG	7461XTS 7447XTS 7491ETS	USG USG USG	7489XT 7496XTS 7480XT	Ipconazole, imidicloprid, metalaxyl
AgriGold Hybrids 5381 Akin Rd. St. Francisville, IL 62460	AgriGold AgriGold	G4255RX G4620RX	AgriGold AgriGold	G4820RX G4995RX	AgriShield F+I
SeedKoz 1725 Windward Concourse Suite 410 Alpharetta, GA 30005	MorSoy MorSoy MorSoy	MS 4846 RXT MS 4616RXT/STS MS 4800E	MorSoy MorSoy	MS 5398 RXT MS 5110E	Avicta Complete+Innoculant
Mission Seed Solutions 516 N. Sharpe Ave. Cleveland, MS 38732	Mission Seed Solutions Mission Seed Solutions	A4448X A4618X	Mission Seed Solutions Mission Seed Solutions	A4828X A4950X	Revise PBI 3.37 oz/100lb
GDM Seeds 4003 Commercial Center Dr. Marion, AR 72364	GDM Seeds GDM Seeds GDM Seeds	V 4520 S V 4720 S V 4921 S	GDM Seeds	DM 51X61	Equity VIP
Local Seed Co. 802 Rozelle St. Memphis, TN 38104	Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co.	LS3976X LS4299XS(LSX4301XS) LS4407X (LSX4501X) LS4583X LS4565X ZS4694E3S (LSX4602ES) LSX4711GL LSX3911GL ZS5098E3	Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co. Local Seed Co.	LSX4612XS LS4795XS (LSX4601XS) LS4999X (LSX4901X) LSX4812XS LS5087X LS5009XS LS5386X	Radius Premium
NK Seeds 5210 State Rd. 945 Hickory, KY 42051	NK Seeds NK Seeds NK Seeds NK Seeds NK Seeds NK Seeds	S44-C7X S47-Y9X S49-F5X S51-R3XS S53-F7X			CruiserMaxx Beans+Vibrance+Saltro
LG Seeds 1122 East 169th St. Wesfield, IN 46074	LG Seeds LG Seeds LG Seeds	LGS4464RX LGS4632RX LGS4899RX			Agrishield



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Reuben Moore, Interim Director

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