

MISSISSIPPI SOYBEAN

VARIETY TRIALS, 2021

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS



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NOTE TO USER

This Mississippi Agricultural and Forestry Experiment Station information bulletin is a summary of research conducted under project number MIS 1414 at locations shown on the map on the second page. It is intended for colleagues, cooperators, and sponsors. The interpretation of data presented in this report may change after additional experimentation. Information included is not to be construed as a recommendation for use or as an endorsement of a specific product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station.

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Trade names of commercial products used in this report are included only for clarity and understanding. All available names (i.e., trade names, chemical names, etc.) of products used in this research project are listed on pages 81–83.



Mississippi Soybean Variety Trials, 2021

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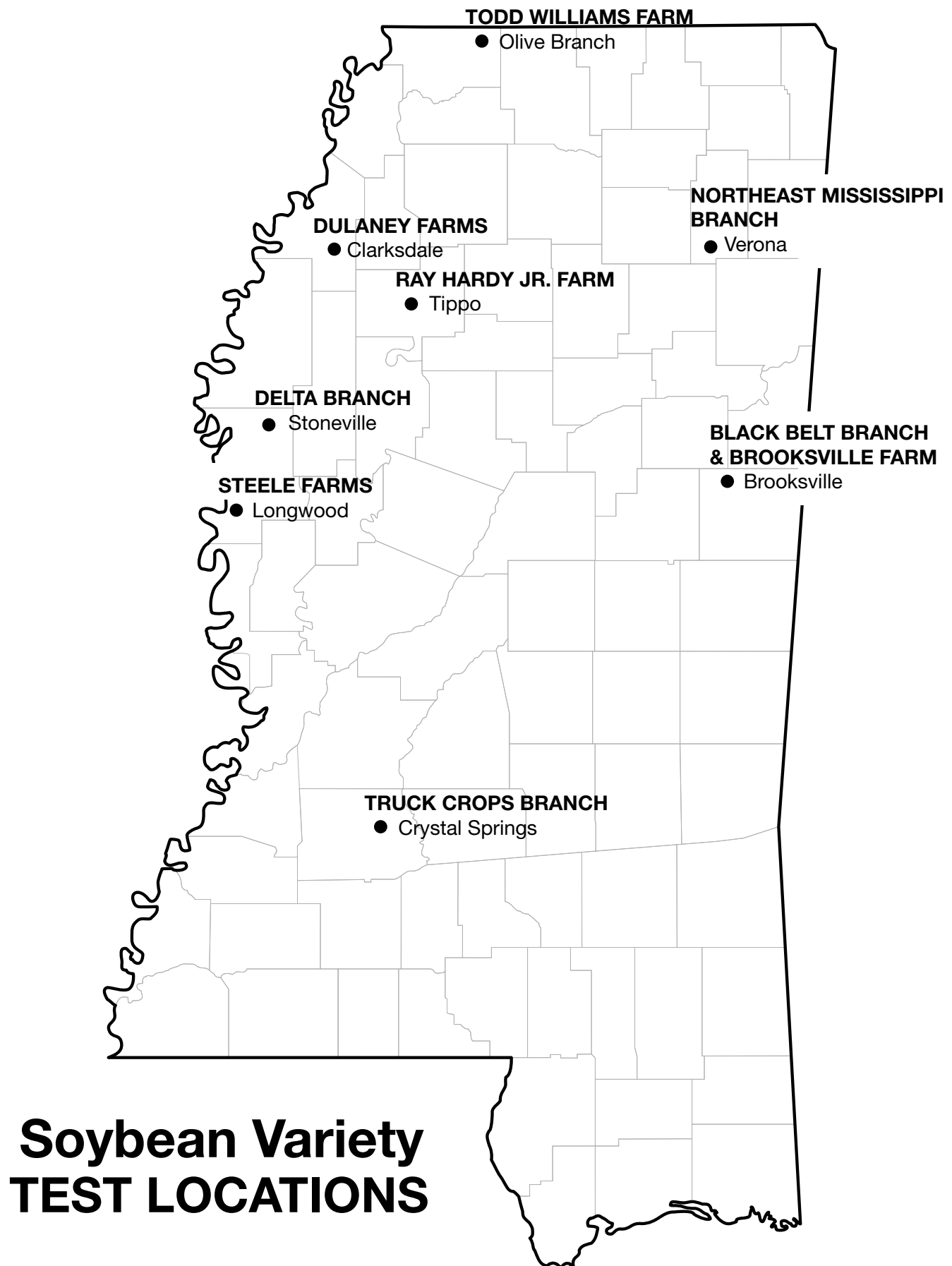
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Find variety trial information online at mafes.msstate.edu/variety-trials.



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Mississippi Soybean Variety Trials, 2021

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 2021 (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. 2021 Soybean planting and harvest dates.					
Location	Planting dates	Harvest dates	Soil type	Row spacing	Irrigation
Brooksville (Not Irrigated), Black Belt Branch Station	4/23	9/27 (all IVs), 10/7 (all Vs)	Brooksville silty clay	19"	No
Brooksville (Irrigated)	4/29	10/12 (all groups)	Brooksville silty clay	30"	Yes
Clarksdale (Irrigated)	5/8	10/11 (all groups)	Sharkey clay	30"	Yes
Crystal Springs (Not Irrigated)	4/27	10/14 (all groups)	Providence silt loam	19"	No
Longwood (Irrigated)	4/28	10/11 (all groups)	Sharkey clay	19"	Yes
Olive Branch (Not Irrigated)	5/19	10/20 (all groups)	Collins silt loam	19"	No
Stoneville-loam (Not Irrigated), Delta Branch Station	4/21	9/24 (all groups)	Bosket very fine sandy loam	19"	No
Stoneville-clay (Irrigated), Delta Branch Station	4/30	10/6 (all groups)	Sharkey clay	30"	Yes
Stoneville-loam (Irrigated), Delta Branch Station	4/30	9/24 (all IVs), 10/6 (all Vs)	Bosket very fine sandy loam	30"	Yes
Tippo (Not Irrigated)	4/21	9/27 (all groups)	Dundee & Tensas silt loam	19"	No
Verona (Not Irrigated), Northeast MS Branch Station	4/22	9/29 (all IVs), 10/13 (all Vs)	Leeper silty clay loam	19"	No

Table 2. Summary of Yield for Maturity Group IV Early Roundup Ready Xtend for the 2021 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.	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stone- ville not irr. (loam)	Tippo not irr (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
AgriGold	G4615XF	bu/A 63.1	bu/A 69.7	bu/A 48.1	bu/A 77.8	bu/A 69.5	bu/A 65.6	bu/A 124.5	bu/A 89.3	bu/A 93.5	bu/A 46.2	bu/A 76.1	bu/A 85.9	bu/A 75.8
AgriGold	G4620RX	67.2	74.3	43.9	82.5	77.4	69.1	113.0	94.9	103.8	48.9	87.5	89.6	79.3
Armor	44-D49	72.7	81.9	50.4	84.8	85.7	75.1	126.3	97.5	93.0	51.9	79.5	89.7	82.4
Armor	46-D09	73.9	70.6	50.1	88.7	78.1	72.3	116.7	91.6	89.0	40.8	81.2	83.9	78.1
Armor	46-F13	67.7	69.6	38.6	84.4	86.6	69.4	110.2	92.2	96.3	46.1	74.0	83.8	76.6
Asgrow	AG44XF2	64.1	63.6	39.7	79.4	63.3	62.0	95.5	78.8	81.1	38.2	70.6	72.8	67.4
Asgrow	AG45XF0	44.0	69.1	48.9	76.8	77.0	63.2	113.3	84.7	87.4	43.7	60.8	78.0	70.6
Asgrow	AG46XF2	54.0	69.4	64.7	78.1	83.3	69.9	107.4	82.3	81.4	37.5	66.4	75.0	72.4
Beck's Hybrids	4119X2	66.0	67.3	47.0	80.2	80.3	68.2	104.7	88.0	104.8	39.6	77.4	82.9	75.5
Credenz	CZ 4202XF	41.3	65.2	51.3	69.4	81.0	61.6	100.6	61.7	83.1	37.3	71.7	70.9	66.3
Credenz	CZ 4562XF	75.4	64.2	46.6	70.7	80.0	67.4	101.9	73.6	84.0	39.4	74.0	74.6	71.0
Delta Grow	46F17/STS	65.0	56.3	42.3	90.3	80.6	66.9	113.8	79.7	—	—	78.6	90.7	75.8
Delta Grow	46X65	73.6	69.0	51.1	85.7	84.4	72.7	118.5	94.2	106.2	38.1	83.5	88.1	80.4
DonMario	DM42F62S	67.2	62.3	39.1	85.2	70.6	64.9	113.2	93.3	77.2	41.5	74.8	80.0	72.4
DonMario	DM45X61	68.2	78.2	58.4	88.3	86.7	76.0	110.4	104.5	97.7	46.1	90.6	89.8	82.9
DonMario	DM46F62	55.6	64.5	40.6	80.7	71.5	62.6	112.8	83.5	96.5	42.5	74.5	82.0	72.3
Dyna-Gro	S43XS70	55.0	71.0	40.0	86.8	73.3	65.2	102.9	85.5	89.1	47.3	66.8	78.3	71.8
Dyna-Gro	S46XF31S	69.5	67.4	38.8	88.8	78.7	68.6	108.3	99.2	101.7	45.7	74.9	86.0	77.3
Dyna-Gro	S46XS60	71.0	63.6	48.0	88.7	73.6	69.0	116.4	95.9	83.4	41.8	87.8	85.1	77.0
Great Heart Seed	GT-4255XS	45.7	70.7	51.3	88.1	68.7	64.9	110.1	80.2	82.3	42.6	67.5	76.5	70.7
Great Heart Seed	GT-4677XS	71.8	70.7	45.9	78.1	75.0	68.3	111.4	90.7	81.5	41.5	89.8	83.0	75.6
Great Heart Seed	GT-4344XF	64.2	67.4	53.0	83.6	83.9	70.4	110.5	86.5	84.1	46.1	79.5	81.3	75.9
Great Heart Seed	GT-4681XFS	64.8	67.6	48.0	84.0	70.6	67.0	120.4	96.4	89.0	45.5	72.4	84.7	75.9
Innvictis Seed	A 4111XF	47.5	64.9	47.4	78.8	71.8	62.1	103.3	82.0	77.5	40.0	62.7	73.1	67.6
Innvictis Seed	A 4371XF	57.9	67.8	52.9	83.5	83.5	69.1	112.5	87.1	79.8	39.4	67.6	77.3	73.2
Innvictis Seed	A 4571XF	55.5	67.7	40.0	77.4	71.0	62.3	115.5	84.5	91.6	42.2	76.4	82.0	72.2
Innvictis Seed	A 4618X	70.7	73.0	43.5	85.0	78.4	70.1	113.5	101.1	104.3	45.5	84.5	89.8	79.9
Innvictis Seed	A 4690XF	69.7	71.5	43.9	89.0	87.1	72.3	109.3	95.9	94.7	49.2	84.4	86.7	79.5
Local Seed Co	LS4415XF	67.4	72.4	34.1	80.8	82.0	67.3	106.1	89.1	97.8	53.2	79.8	85.2	76.3
Local Seed Co	LS4517XFS	66.0	52.8	41.4	92.4	83.9	67.3	107.1	82.1	100.4	45.5	73.4	81.7	74.5
Local Seed Co	LS4606XFS	68.3	67.7	49.2	86.3	79.8	70.3	114.4	95.5	87.8	44.9	89.8	86.5	78.4
MorSoy	MS 4531XF	53.4	71.1	57.6	86.9	85.4	70.9	115.3	94.5	85.2	44.6	78.8	83.7	77.3
MorSoy	MS 4640XF	71.8	64.1	48.7	82.9	79.5	69.4	118.8	96.3	80.4	49.8	81.3	85.3	77.4
MorSoy	MS 4681 RXT	65.1	74.5	57.2	84.1	88.4	73.8	113.1	89.6	91.6	48.2	80.4	84.6	79.2
NK Brand	NK39-A1XF	29.7	54.1	36.0	72.2	51.9	48.8	95.2	63.1	73.3	43.7	57.9	66.7	57.7
NK Brand	NK43-V8XF	67.3	67.1	54.5	85.3	77.6	70.4	117.7	83.9	105.5	35.9	63.4	81.3	75.8
NK Brand	NK45-P9XF	65.9	68.7	48.5	80.6	82.2	69.2	103.9	87.6	94.3	51.9	72.9	82.1	75.7
NK Brand	S44-C7X	44.1	68.0	45.5	87.7	62.5	61.6	110.5	86.1	85.8	39.9	71.2	78.7	70.1
Pioneer	P46A86X	70.5	68.5	43.6	81.4	87.9	70.4	122.5	90.0	102.3	42.8	75.3	86.6	78.5
Progeny	P 4501XFS	57.8	72.7	55.8	82.9	88.6	71.5	118.1	88.1	86.5	43.9	80.3	83.4	77.5
Progeny	P 4505RXS	70.4	76.1	48.0	85.6	89.1	73.8	117.1	97.3	102.3	50.5	86.7	90.8	82.3
Progeny	P 4604XFS	71.6	67.8	43.5	93.4	86.9	72.6	115.1	93.4	107.5	47.5	79.5	88.6	80.6
Progeny	P 4521XFS	72.1	69.8	41.8	83.5	79.3	69.3	111.7	89.9	98.6	40.8	85.8	85.3	77.3
USG	7461XFS	67.9	70.8	51.4	87.3	81.3	71.7	119.3	94.0	86.4	47.1	69.2	83.2	77.5
Mean		63.0	68.3	47.1	83.4	78.6	68.1	111.9	88.5	91.2	44.1	76.4	82.6	75.3
CV		8.8	5.1	14.9	5.9	8.0		8.0	6.4	12.0	11.0	12.4		
R2		84.0	80.0	57.0	64.4	71.8		52.0	77.0	53.0	55.4	60.6		
LSD (0.05)		9.0	5.6	11.4	8.0	10.2		14.5	9.2	18.5	7.9	15.4		
Error DF		86	86	86	86	86		86	86	84	84	86		

Table 3. Summary of 2-Year Yields for Maturity Group IV Early Xtend for the 2020 and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Clarksdale irr. (clay)	Longwood irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stoneville not irr. (loam)	Tippo not irr. (loam)	Verona not irr. (clay)	Overall average
		<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>	<i>bu/A</i>
AgriGold	G4620RX	74.1	80.7	80.0	91.3	77.0	79.4	89.8	87.5	48.6	78.5	78.7
Armor	44-D49	75.6	88.2	86.1	90.6	78.4	91.0	96.6	78.9	51.4	82.9	82.0
Armor	46-D09	76.8	81.2	85.5	93.0	76.6	82.0	87.5	76.2	41.2	81.6	78.2
Delta Grow	46X65	80.2	81.5	77.2	90.5	76.7	79.6	90.8	89.7	43.9	75.0	78.5
DonMario	DM45X61	71.5	85.2	90.8	90.2	80.7	78.0	91.3	86.1	48.7	86.8	80.9
Dyna-Gro	S46XS60	74.9	78.4	74.6	85.8	70.2	82.5	94.6	74.9	44.3	87.3	76.7
Great Heart Seed	GT-4677XS	76.6	83.9	76.2	88.0	75.3	77.7	84.0	69.3	48.0	85.5	76.4
Innqvictis Seed	A 4618X	74.5	82.4	83.9	90.3	77.0	80.9	92.1	82.4	49.6	81.0	79.4
NK Brand	S44-C7X	54.4	80.2	80.5	91.6	70.0	76.4	88.9	75.9	45.0	71.6	73.5
Pioneer	P46A86X	74.4	79.7	82.3	89.3	79.7	79.2	94.4	86.5	54.1	77.3	79.7
Progeny Ag	P 4505RXS	71.9	86.9	86.5	88.4	77.8	82.8	90.6	88.0	52.2	85.1	81.0
Overall mean		73.2	82.6	82.2	89.9	76.3	80.9	91.0	81.4	47.9	81.1	78.6

Table 4. Summary of 3-Year Yields for Maturity Group IV Early Xtend for the 2019, 2020, and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Clarksdale irr. (clay)	Longwood irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stoneville not irr. (loam)	Tippo not irr. (loam)	Verona not irr. (clay)	Overall average
		<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>	<i>bu/A</i>
Delta Grow	46X65	66.3	82.8	80.8	93.4	72.3	81.0	83.7	85.2	50.6	76.9	77.3
Dyna-Gro	S46XS60	63.2	79.3	74.1	89.5	63.8	84.0	83.7	73.5	50.4	83.1	74.5
Great Heart Seed	GT-4677XS	65.3	82.9	76.3	92.0	71.2	75.9	83.1	69.3	52.8	82.6	75.1
Innqvictis Seed	A 4618X	57.3	82.6	83.7	90.5	72.7	84.6	87.7	85.1	54.5	75.9	77.5
NK Brand	S44-C7X	45.2	82.9	80.6	93.2	65.9	78.8	87.1	78.0	48.9	67.4	72.8
Overall mean		59.5	82.1	79.1	91.7	69.2	80.9	85.1	78.2	51.4	77.2	75.4

Table 5. Summary of Yield for Group IV Late Roundup Ready Xtend for the 2021 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)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stone- ville not irr. (clay)	Tippo not irr. (loam)	Verona not irr. (loam)	Not irr. avg.	Overall avg.
AgriGold	G4813XF	63.3	64.6	49.5	86.9	76.6	68.2	71.2	107.9	85.0	83.1	51.7	72.9	78.6	73.9
AgriGold	G4820RX	68.4	71.7	37.5	83.7	73.0	66.9	81.4	115.1	90.9	94.3	49.6	66.5	83.0	75.6
Armor	48-D03	59.8	73.7	46.0	85.2	83.1	69.5	81.0	113.6	103.5	100.9	54.3	87.6	90.2	80.8
Armor	48-D25	66.8	66.7	49.1	85.0	75.1	68.5	86.8	109.8	100.6	77.3	43.2	79.5	82.9	76.3
Armor	48-F22	65.7	70.0	43.1	85.8	85.7	70.0	84.6	107.9	93.9	96.2	48.0	80.9	85.2	78.3
Asgrow	AG47XF0	59.4	75.0	40.4	86.4	77.4	67.7	74.0	110.8	92.8	84.7	46.8	77.2	81.0	75.0
Asgrow	AG47XF2	38.5	68.4	58.9	71.6	80.8	63.6	63.5	113.0	92.7	90.9	40.6	63.6	77.4	71.1
Asgrow	AG48XF0	51.4	62.4	51.4	73.3	67.0	61.1	65.8	108.1	92.6	85.4	45.5	65.9	77.2	69.9
Asgrow	AG48XF2	50.6	65.0	58.0	83.9	70.5	65.6	58.0	101.3	86.4	95.7	45.3	74.6	76.9	71.8
Beck's Hybrids	4885XF	57.3	71.3	61.7	84.0	78.4	70.5	64.9	113.4	93.8	98.7	46.8	67.6	80.9	76.2
Beck's Hybrids	4991X2	63.8	65.9	49.2	79.3	79.9	67.6	61.9	99.8	88.3	86.0	44.8	66.1	74.5	71.4
Credenz	CZ 4742XF	54.7	63.4	54.5	68.8	76.8	63.6	63.9	115.7	74.6	84.1	49.8	85.3	78.9	72.0
Credenz	CZ 4892XF	63.6	64.9	50.4	79.5	67.0	65.1	63.7	105.2	77.8	75.3	42.1	75.1	73.2	69.5
Credenz	CZ 4912XF	76.9	62.1	41.3	67.6	75.2	64.6	66.0	116.7	79.9	90.8	47.1	85.6	81.0	73.6
Delta Grow	48X45	64.7	70.7	49.1	88.1	83.6	71.3	82.0	108.1	90.4	98.6	49.0	74.7	83.8	78.1
Delta Grow	48F20	66.6	69.3	58.0	86.0	85.6	73.1	69.7	106.8	88.5	92.2	48.5	67.7	78.9	76.3
Delta Grow	49F22/STS	65.8	64.3	58.9	80.3	71.1	68.1	78.1	111.1	83.6	—	—	86.0	89.7	77.7
DonMario	DM48F61	73.0	69.1	51.2	73.9	73.6	68.1	84.6	118.4	93.5	90.7	47.2	83.5	86.3	78.1
Dyna-Gro	S48XT90	75.7	72.7	53.8	84.6	86.5	74.7	70.0	120.2	92.9	103.7	53.6	79.7	86.7	81.2
Dyna-Gro	S49XT70	74.1	70.3	44.0	78.8	80.8	69.6	68.3	115.8	89.9	89.2	51.0	87.3	83.6	77.2
Great Heart	GT-4979X	69.8	70.7	44.9	83.5	82.0	70.2	81.6	123.6	83.8	91.8	54.3	88.7	87.3	79.5
Great Heart Seed	GT-4750XFS	57.3	63.6	45.0	85.3	76.5	65.5	58.5	99.0	80.4	95.2	44.5	65.0	73.8	70.0
Great Heart Seed	GT-4828X	63.3	73.3	43.1	67.8	74.1	64.3	71.9	122.7	86.5	91.4	45.8	75.1	82.2	74.1
Great Heart Seed	GT-4841XFS	58.0	66.8	49.6	90.9	73.8	67.8	69.8	112.9	80.1	76.9	45.4	76.7	77.0	72.8
Innvictis Seed	A 4791XF	53.2	65.5	43.6	84.6	78.1	65.0	70.7	112.3	84.0	93.0	43.0	63.2	77.7	71.9
Innvictis Seed	A 4831XF	46.8	72.0	50.1	87.2	86.6	68.6	71.8	124.3	94.9	90.9	48.9	73.2	84.0	77.0
Innvictis Seed	A 4850XF	62.9	68.7	52.7	83.8	85.2	70.6	72.0	102.4	77.8	94.7	49.6	77.3	78.9	75.2
Innvictis Seed	A 4950X	69.0	69.5	43.8	79.1	80.9	68.5	80.6	120.7	95.6	98.2	53.4	90.1	89.8	80.1
Local Seed	LS4795XS	63.9	69.8	55.8	85.5	82.3	71.5	80.2	125.0	96.2	89.9	49.1	69.6	85.0	78.9
Local Seed	LS4707XF	48.5	64.6	35.2	81.5	69.1	59.8	55.6	104.6	83.2	93.1	47.8	69.3	75.6	68.4
Local Seed	LS4718XF	62.4	57.8	48.0	73.3	74.7	63.2	66.1	115.8	93.4	71.9	41.7	71.7	76.8	70.6
Local Seed	LS4805XFS	64.1	71.6	48.0	84.9	83.4	70.4	74.1	111.1	91.1	89.2	49.6	73.1	81.4	76.4
Local Seed	LS4919XFS	68.4	64.5	63.3	80.5	69.1	69.2	82.4	114.7	91.1	89.8	48.3	85.4	85.3	78.0
Local Seed	LS4806XS	77.5	67.6	43.3	83.6	81.6	70.7	86.7	109.9	92.5	89.2	46.5	75.8	83.4	77.7
MorSoy	MS 4850 XF/STS	61.9	66.7	57.1	87.2	84.1	71.4	76.9	114.6	86.8	91.3	50.9	75.9	82.7	77.6
NK Brand	S49-F5X	53.6	70.0	48.6	88.0	82.4	68.5	64.4	104.5	83.9	97.0	48.1	78.8	79.4	74.5
Pioneer	P47A64X	71.6	72.2	48.8	85.7	94.8	74.6	75.6	101.0	85.8	111.8	49.4	79.8	83.9	79.7
Progeny Ag	P 4806XFS	65.7	72.3	45.5	87.0	91.8	72.4	75.8	119.5	88.1	88.7	53.0	78.5	83.9	78.7
Progeny Ag	P 4816RX	71.1	67.3	55.6	82.8	80.0	71.4	83.5	104.3	96.1	91.5	46.3	71.1	82.1	77.2
Progeny Ag	P 4921XFS	64.6	63.0	44.5	81.1	73.0	65.2	91.8	105.6	83.9	87.7	46.8	80.5	82.7	74.8
Progeny Ag	P 4851RX	72.3	78.9	53.6	84.9	91.8	76.3	57.4	119.5	85.1	91.2	49.9	78.0	80.2	78.4
Progeny Ag	P 4970RX	70.4	69.9	44.6	84.9	82.7	70.5	76.9	116.9	87.3	97.7	52.7	83.7	85.9	78.9
Progeny Ag	P 4821RX	62.2	72.0	48.1	85.9	76.3	68.9	61.4	113.5	86.8	107.2	47.6	73.5	81.6	75.9
USG	7481XF	41.8	64.4	50.8	82.3	74.4	62.7	47.0	99.4	74.9	99.3	43.5	71.3	72.6	68.1
USG	7491XFS	62.0	67.8	57.9	80.4	81.9	70.0	68.3	108.3	85.8	93.9	52.3	71.7	80.0	75.5
Mean		62.7	68.3	49.5	82.1	79.1	68.3	72.0	111.6	88.2	91.6	48.0	76.1	81.5	75.4
CV		9.4	5.3	17.9	6.3	8.3		13.0	9.3	8.9	10.0	7.9	6.5		
R ²		77.0	65.0	44.0	63.0	62.0		62.0	46.0	53.0	60.0	68.0	81.0		
LSD (0.05)		9.5	5.8	14.3	8.5	10.7		15.7	17.0	12.9	15.7	6.2	8.1		
Error DF		88	88	88	88	88		88	88	88	86	86	88		

Table 6. Summary of 2-Year Yields for Maturity Group IV Late Xtend for the 2020 and 2021 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)	Brooks- ville not irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stone- ville not irr. (loam)	Tippo not irr. (loam)	Verona not irr. (clay)	Overall avg. (loam)
AgriGold	G4820RX	bu/A 77.7	bu/A 85.1	bu/A 74.0	bu/A 81.6	bu/A 78.9	bu/A 66.7	bu/A 80.2	bu/A 84.9	bu/A 71.0	bu/A 51.4	bu/A 69.6	bu/A 74.7
Armor	48-D25	77.4	80.9	76.0	86.0	78.2	71.8	78.1	98.4	68.0	48.8	80.0	76.7
Delta Grow	48X45	76.0	81.3	79.4	86.0	80.9	69.0	78.2	85.9	78.4	50.8	72.4	76.2
Dyna-Gro	S48XT90	78.9	84.7	80.1	86.1	84.9	57.1	85.1	89.0	80.4	49.8	77.3	77.6
Dyna-Gro	S49XT70	78.8	82.4	78.5	77.6	80.8	59.5	79.1	82.1	71.6	48.0	81.0	74.5
Great Heart Seed	GT-4828X	72.7	81.8	82.0	75.8	77.9	62.2	83.7	81.2	72.2	47.0	77.5	74.0
Innervictis Seed	A 4950X	75.5	80.7	78.3	79.4	81.5	62.5	86.1	84.7	78.5	53.9	85.1	76.9
Local Seed	LS4795XS	73.5	82.2	75.7	85.9	79.9	65.6	88.6	86.3	75.5	46.7	72.0	75.6
NK Brand	S49-F5X	66.0	81.9	81.4	86.8	81.8	58.4	78.5	83.6	79.5	52.0	78.6	75.3
Progeny Ag	P 4816RX	78.4	82.1	86.7	88.3	84.0	69.8	78.7	89.7	69.0	53.6	74.4	77.7
Progeny Ag	P 4851RX	79.4	86.2	69.7	85.6	80.9	59.9	83.8	77.6	73.7	50.6	79.2	75.2
Progeny Ag	P 4970RX	76.5	84.3	77.7	92.0	83.2	67.3	83.2	82.1	73.6	45.9	81.1	77.0
Progeny Ag	P 4821RX	69.0	84.0	70.5	86.8	80.4	55.6	79.8	79.0	81.3	53.4	69.7	73.6
Overall Mean		75.4	82.9	77.7	84.4	81.0	63.5	81.8	85.0	74.8	50.1	76.8	75.8

Table 7. Summary of 3-Year Yields for Maturity Group IV Late Xtend for the 2019, 2020, and 2021 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)	Brooks- ville not irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stone- ville not irr. (loam)	Tippo not irr. (loam)	Verona not irr. (clay)	Overall avg. (loam)
Armor	48-D25	bu/A 66.9	bu/A 84.0	bu/A 80.3	bu/A 87.7	bu/A 73.0	bu/A 61.5	bu/A 77.5	bu/A 92.3	bu/A 73.1	bu/A 55.6	bu/A 77.5	bu/A 75.4
Delta Grow	48X45	66.9	85.2	84.8	89.4	74.1	64.4	80.5	82.5	78.6	55.0	77.5	76.3
Dyna-Gro	S49XT70	67.2	83.8	81.6	84.6	75.6	56.6	78.4	80.9	72.7	56.8	79.8	74.4
Innervictis Seed	A 4950X	65.4	83.8	82.9	85.4	72.8	56.2	87.2	80.4	75.5	58.7	85.2	75.8
NK Brand	S49-F5X	58.3	83.0	85.1	89.9	75.8	56.2	78.0	83.8	81.0	55.9	73.6	74.6
Progeny Ag	P 4816RX	68.5	85.2	86.8	87.7	76.0	61.4	81.7	86.0	71.1	57.2	77.8	76.3
Progeny Ag	P 4851RX	70.8	87.2	81.2	87.9	75.5	53.1	83.5	74.9	74.7	58.4	80.5	75.2
Progeny Ag	P 4821RX	60.9	86.5	74.8	87.4	74.7	50.1	82.4	80.4	71.7	58.0	68.5	72.3
Overall Mean		65.6	84.8	82.2	87.5	74.7	57.4	81.2	82.6	74.8	56.9	77.5	75.0

Table 8. Summary of Yields for Group IV Enlist for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Irrigated avg.	Brooksville not irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stoneville not irr. (loam)	Verona not irr. (clay)	Not irrigated 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>	<i>bu/A</i>
Delta Grow	46E10	60.6	79.6	61.1	67.1	68.3	92.6	82.4	76.8	55.2	75.1	72.1
Delta Grow	47E20/STS	69.5	81.1	75.1	75.2	55.7	106.5	85.9	91.0	67.7	81.4	79.1
Delta Grow	48E49/STS	49.3	80.6	56.3	62.0	69.6	88.9	86.8	79.9	56.4	76.3	71.0
Delta Grow	48E59	53.4	87.9	72.3	71.2	71.6	111.1	82.7	89.9	67.2	84.5	79.5
Delta Grow	49E20	53.1	83.1	64.3	66.8	78.3	110.2	82.4	82.8	76.2	86.0	78.8
DonMario	DM48E62S	59.5	76.8	52.8	63.0	64.4	90.4	82.9	83.0	64.5	77.0	71.8
Dyna-Gro	S45ES10	50.1	85.2	69.0	68.1	60.2	107.3	86.6	89.4	58.3	80.4	75.8
Dyna-Gro	S46ES91	64.9	76.9	73.3	71.7	60.0	111.9	82.9	91.0	76.3	84.4	79.7
Dyna-Gro	S49EN79	55.0	71.1	54.0	60.0	71.0	102.3	83.8	87.1	72.5	83.4	74.6
Innvictis Seed	B 4141E	57.7	83.3	62.1	67.7	59.8	102.7	87.9	81.9	51.2	76.7	73.3
Innvictis Seed	B 4681E	52.3	90.1	58.4	66.9	66.9	97.9	85.8	87.7	50.2	77.7	73.7
Innvictis Seed	B 4841E	55.5	94.9	76.2	75.5	75.7	112.4	83.9	92.6	64.6	85.8	82.0
Pioneer	P46T51E	65.7	85.8	71.1	74.2	68.5	108.1	82.9	86.8	66.3	82.5	79.4
Pioneer	P49T62E	60.4	83.3	70.7	71.5	85.0	98.8	87.1	91.8	63.1	85.1	80.0
Progeny	P 4541E3S	58.8	75.2	68.8	67.6	60.1	101.1	70.9	93.6	55.9	76.3	73.0
Progeny	P 4931E3S	56.8	86.7	67.9	70.4	73.5	101.2	79.7	90.2	78.9	84.7	79.3
Progeny Ag	P 4775E3S	62.1	77.7	73.6	71.1	70.9	106.9	79.6	93.8	72.3	84.7	79.6
Mean		57.9	82.3	66.3	68.8	68.2	103.0	83.2	87.6	64.5	81.3	76.6
CV		14.1	8.5	9.4		13.0	13.4	9.5	7.9	9.5		
R ²		58.0	52.0	74.0		54.0	51.0	32.0	59.0	87.0		
LSD (0.05)		13.6	11.6	10.4		14.7	22.9	13.2	11.6	10.2		
Error DF		32	32	32		32	32	32	32	32		

Table 9. Summary of 2-Year Yields for Maturity Group IV Enlist for the 2020 and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stoneville not irr. (loam)	Verona not irr. (clay)	Overall average
		<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	47E20/STS	68.8	80.9	76.6	84.0	75.1	75.8	61.9	74.7
Delta Grow	48E49/STS	58.1	81.0	57.9	67.0	77.1	66.3	51.2	65.5
Pioneer	P49T62E	64.5	83.7	79.0	77.0	82.8	75.7	56.8	74.2
Progeny Ag	P 4775E3S	67.9	86.2	79.1	85.9	80.0	78.5	69.3	78.1
Overall Mean		64.8	83.0	73.1	78.5	78.8	74.0	59.8	73.1

Table 10. Summary of 3-Year Yields for Maturity Group IV Enlist for the 2019, 2020, and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Stoneville not irr. (loam)	Verona not irr. (clay)	Overall average
		<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	48E49/STS	52.0	85.8	56.8	70.1	76.7	71.1	59.6	67.4
Overall Mean		52.0	85.8	56.8	70.1	76.7	71.1	59.6	67.4

Table 11. Summary of Yield for Maturity Group V Xtend for the 2021 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)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
Asgrow	AG53XF2	62.2	66.6	56.0	73.8	62.5	64.2	70.9	103.8	85.7	68.4	82.2	72.2
Asgrow	AG55XF0	74.0	53.4	70.9	72.3	65.6	67.3	83.3	117.8	83.5	87.0	92.9	78.7
Asgrow	AG56XF2	79.9	52.9	58.4	79.7	66.9	67.5	95.1	122.2	83.4	97.2	99.5	81.7
Beck's Hybrids	5005XF	71.0	66.8	54.4	78.4	70.9	68.3	71.5	106.0	88.3	74.3	85.0	75.7
Credenz	CZ 5282XF	67.7	55.0	59.0	52.0	55.0	57.7	78.9	115.3	74.8	88.2	89.3	71.8
Credenz	CZ 5552XF	71.4	61.9	55.7	70.5	68.6	65.6	69.8	109.3	83.6	85.1	86.9	75.1
Delta Grow	52X05/STS	79.7	59.8	57.3	66.4	68.5	66.3	90.8	118.3	82.0	99.7	97.7	80.3
Delta Grow	54F20	72.1	58.2	64.5	73.3	70.3	67.7	83.7	120.2	88.2	76.4	92.1	78.5
DonMario	DM51X61	85.3	61.8	58.2	84.3	69.0	71.7	87.1	128.8	85.1	94.6	98.9	83.8
Dyna-Gro	S52XT91	80.3	60.6	46.5	81.1	64.7	66.6	70.3	115.0	93.7	73.3	88.1	76.2
Dyna-Gro	S56XT99	74.8	52.2	71.7	72.2	64.8	67.2	85.7	121.7	87.9	94.2	97.4	80.6
Great Heart Seed	GT-5214X	78.2	54.0	66.0	60.3	62.7	64.2	81.2	111.8	65.3	85.9	86.1	73.9
Great Heart Seed	GT-5417X	71.2	59.5	50.7	80.5	61.6	64.7	75.3	115.4	87.5	64.2	85.6	74.0
Innqvist Seed	A5341XF	73.8	59.7	60.4	75.5	69.5	67.8	84.4	111.2	87.2	73.3	89.0	77.2
Innqvist Seed	A5451XF	73.5	57.7	49.9	76.3	77.9	67.1	86.6	123.5	84.1	80.9	93.8	78.9
Innqvist Seed	A5558X	80.6	55.5	83.9	74.8	71.2	73.2	86.9	131.1	82.6	93.7	98.6	84.5
Local Seed	LS5386X	69.6	67.1	45.6	72.9	71.3	65.3	79.1	125.8	83.8	78.8	91.9	77.1
Local Seed	LS5418XFS	76.3	47.0	62.3	59.5	60.7	61.2	73.0	107.6	80.6	84.7	86.5	72.4
Local Seed	LS5119XF	56.1	61.5	50.2	75.7	69.9	62.7	70.2	116.8	78.9	69.7	83.9	72.1
Local Seed	LS5614XF	68.9	56.7	63.2	65.8	60.8	63.1	74.1	107.7	85.4	78.6	86.4	73.5
Local Seed	LS5009XS	76.9	60.7	58.7	76.1	82.6	71.0	83.5	115.8	88.2	91.4	94.7	81.5
NK Brand	NK57-A3XF	53.8	52.5	57.5	65.6	57.4	57.4	55.5	112.0	83.9	77.1	82.1	68.4
NK Brand	S53-F7X	73.7	54.0	56.1	75.1	61.8	64.2	80.7	104.0	88.8	84.6	89.5	75.4
Pioneer	P53A67X	91.4	73.6	71.9	86.4	79.3	80.5	103.0	118.5	92.0	88.3	100.4	89.4
Progeny Ag	P 5016RXS	61.7	58.0	56.3	71.6	56.3	60.8	79.6	106.3	91.1	79.4	89.1	73.4
Progeny Ag	P 5003XF	65.7	62.7	56.3	89.3	78.2	70.5	72.2	102.0	81.8	71.0	81.8	75.5
Progeny Ag	P 5425XF	67.8	57.3	63.8	76.9	71.7	67.5	83.3	109.6	83.4	77.6	88.5	76.8
Progeny Ag	P 5252RX	78.5	66.6	65.0	64.3	69.4	68.8	74.1	121.3	81.3	98.8	93.9	79.9
Progeny Ag	P 5554RX	77.1	54.7	73.4	72.1	65.9	68.6	85.4	125.9	85.9	86.3	95.9	80.7
Mean		72.9	58.9	60.1	73.2	67.4	66.5	79.8	115.3	84.4	82.9	90.6	77.2
CV		7.5	5.6	21.5	7.0	8.4		11.7	8.4	7.6	10.4		
R ²		76.0	81.0	40.6	79.0	70.0		65.0	60.0	53.0	69.0		
LSD (0.05)		9.0	5.4	21.2	8.5	9.3		15.3	15.8	10.5	14.1		
Error DF		56	56	56	56	56		56	56	56	56		

Table 12. Summary of 2-Year Yields for Maturity Group V Roundup Ready Xtend for the 2020 and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Clarksdale irr. (clay)	Longwood irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Brooksville not irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Verona not irr. (clay)	Overall average
Delta Grow	52X05/STS	75.4	72.7	88.9	76.6	79.0	66.6	84.5	79.3	92.1	79.5
DonMario	DM51X61	83.8	77.3	88.8	88.8	82.5	59.9	87.1	80.8	82.7	81.3
Dyna-Gro	S56XT99	76.0	71.3	89.9	80.9	76.1	67.0	78.2	85.0	88.7	79.3
Great Heart Seed	GT-5214X	76.7	68.8	82.6	74.2	73.9	64.8	76.3	64.6	86.6	74.3
Great Heart Seed	GT-5417X	73.3	71.0	79.1	83.6	74.4	55.3	86.0	79.6	60.2	73.6
Local Seed	LS5386X	73.6	77.6	76.5	81.2	78.3	53.8	91.1	82.3	71.7	76.2
Local Seed	LS5009XS	80.7	77.1	88.9	83.6	89.8	61.2	84.8	86.0	79.9	81.3
NK Brand	S53-F7X	77.3	68.7	82.1	82.2	70.3	55.7	79.2	85.1	92.1	76.9
Pioneer	P53A67X	88.3	81.2	90.0	89.8	83.3	75.5	67.6	90.1	92.1	84.2
Progeny Ag	P 5016RXS	65.4	70.2	81.8	79.0	66.5	60.8	75.7	79.9	92.1	74.6
Progeny Ag	P 5252RX	78.8	75.7	88.3	74.6	80.9	53.8	88.8	82.3	84.2	78.6
Progeny Ag	P 5554RX	75.6	73.7	94.5	82.1	77.2	63.8	81.2	86.0	80.5	79.4
Overall Mean		77.1	73.8	85.9	81.4	77.7	61.5	81.7	81.8	83.6	78.3

Table 13. Summary of 3-Year Yields for Maturity Group V Roundup Ready Xtend for the 2019, 2020, and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Clarksdale irr. (clay)	Longwood irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Brooksville not irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Verona not irr. (clay)	Overall avg.
Delta Grow	52X05/STS	bu/A 67.0	bu/A 78.1	bu/A 88.0	bu/A 78.2	bu/A 75.1	bu/A 58.4	bu/A 80.3	bu/A 77.3	bu/A 89.5	bu/A 76.9
Dyna-Gro	S56XT99	66.9	76.9	90.9	79.5	72.8	57.3	76.5	80.7	87.3	76.5
Local Seed	LS5386X	55.6	80.6	78.0	85.1	71.5	50.6	90.2	79.3	73.7	73.8
NK Brand	S53-F7X	65.7	74.5	80.9	87.3	66.4	48.3	80.0	84.7	80.5	74.2
Progeny Ag	P 5016RXS	53.2	73.3	75.9	83.7	64.0	55.4	77.1	75.5	67.6	69.5
Progeny Ag	P 5252RX	67.9	80.6	88.2	76.7	76.4	50.2	88.4	80.1	86.9	77.3
Progeny Ag	P 5554RX	64.0	75.6	86.8	81.5	70.5	55.2	77.7	80.2	79.8	74.6
Overall Mean		62.9	77.1	84.1	81.7	71.0	53.6	81.5	79.7	80.8	74.7

Table 14. Summary of Yield for Group V Enlist for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Brooksville irr. (clay)	Stoneville irr. (loam)	Stoneville irr. (clay)	Irrigated avg.	Brooksville not irr. (clay)	Crystal Springs not irr. (loam)	Olive Branch not irr. (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
Delta Grow	53E30	bu/A 70.7	bu/A 67.3	bu/A 60.5	bu/A 66.2	bu/A 82.6	bu/A 95.6	bu/A 76.5	bu/A 73.9	bu/A 82.1	bu/A 75.3
DonMario	DM51E62S	71.8	62.2	71.0	68.3	77.9	96.6	82.0	80.5	84.2	77.4
Innvictis Seed	B 5401E	67.5	66.4	65.7	66.5	93.3	115.2	84.2	104.9	99.4	85.3
Progeny	P 5121E3S	73.2	65.8	65.5	68.2	78.1	82.2	87.9	66.2	78.6	74.1
Progeny	P 5521E3S	68.8	71.6	67.7	69.4	88.4	82.2	94.8	106.3	92.9	82.8
Mean		70.4	66.7	66.1	67.7	84.0	94.3	85.1	86.4	87.5	79.0
CV		8.6	6.4	12.4		9.3	20.9	18.4	8.4		
R ²		59.8	60.2	33.6		52.3	46.5	36.0	92.0		
LSD (0.05)		11.5	8.0	15.4		14.7	NS	NS	13.6		
Error DF		8	8	8		8	8	8	8		

Table 15. Summary of Yield for Group IV Conventional for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety ¹	Stoneville irr. (clay)	Irrigated avg.	Brooksville not irr. (clay)	Crystal Springs not irr. (loam)	Verona not irr. (clay)	Not irr. avg.	Overall avg.
Uni. of Arkansas	R15-2422 *	bu/A 48.0	bu/A 48.0	bu/A 65.7	bu/A 84.0	bu/A 73.6	bu/A 74.4	bu/A 67.8
Univ. of Arkansas	UA46i20C	48.9	48.9	70.4	74.9	69.9	71.7	66.0
Univ. of Arkansas	R16-253 *	53.1	53.1	66.7	99.6	79.6	82.0	74.7
Univ. Of Missouri	S16-14730C	52.3	52.3	65.2	87.8	75.2	76.1	70.1
Univ. Of Missouri	S16-5540R	58.3	58.3	96.9	99.6	91.7	96.1	86.7
Univ. of Missouri	S16-11644C	51.5	51.5	91.5	104.5	99.7	98.6	86.8
Univ. of Missouri	S16-7922C	60.9	60.9	90.8	101.3	96.9	96.3	87.5
Univ. Of Missouri	S17-2243C *	56.0	56.0	64.8	110.0	82.6	85.8	78.3
Univ. Of Missouri	S16-12137C *	59.7	59.7	60.7	98.2	64.2	74.3	70.7
Univ. Of Missouri	S09-13608C *	54.7	54.7	77.2	86.3	89.4	84.3	76.9
Univ. Of Missouri	S17-2193C *	55.4	55.4	83.2	95.4	94.7	91.1	82.2
Univ. Of Missouri	S16-5503R *	63.5	63.5	92.7	100.9	103.0	98.9	90.0
Univ. Of Missouri	S16-8898C *	61.6	61.6	77.1	90.9	91.5	86.5	80.3
Mean		55.7		77.1	94.9	85.5	85.9	78.3
CV		9.2		11.5	19.9	8.2		
R ²		63.7		76.0	32.0	84.0		
LSD (0.05)		8.6		14.9	NS	11.8		
Error DF		24		24	24	24		

¹Variety followed by an asterisk indicates an experimental entry.

Table 16. Summary of 2-Year Yields for Maturity Group IV Conventional for the 2020 and 2021 Mississippi Soybean Variety Trials.

Brand	Variety ¹	Stoneville irr. (clay)	Brooksville not irr. (clay)	Verona not irr. (clay)	Overall average	
Uni. of Arkansas	R15-2422 *	<i>bu/A</i> 64.6	<i>bu/A</i> 64.3	<i>bu/A</i> 65.8	<i>bu/A</i> 64.9	
Univ. of Arkansas	UA46i20C	64.5	61.6	58.8	61.6	
Univ. Of Missouri	S16-14730C	68.4	61.3	67.3	65.7	
Univ. Of Missouri	S16-5540R	72.3	75.1	74.8	74.1	
Univ. of Missouri	S16-11644C	66.5	74.2	81.8	74.1	
Univ. of Missouri	S16-7922C	73.4	73.7	83.3	76.8	
Overall Mean		68.3	68.4	72.0	69.5	

¹Variety followed by an asterisk indicates an experimental entry.

Table 17. Summary of 3-Year Yields for Maturity Group IV Conventional for the 2019, 2020, and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Brooksville not irr. (clay)	Overall average	
Univ. Of Missouri	S16-14730C	<i>bu/A</i> 60.2	<i>bu/A</i> 56.4	<i>bu/A</i> 58.3	
Overall Mean		60.2	56.4	58.3	

Table 18. Summary of Yield for Group V Conventional for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety ¹	Stoneville irr. (clay)	Irrigated avg.	Brooksville not irr. (clay)	Crystal Springs not irr. (loam)	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>
Univ. of Arkansas	R13-13997 *	49.9	49.9	98.0	107.4	88.7	98.0		86.0
Univ. of Arkansas	R15-1587 *	53.8	53.8	95.6	118.1	95.8	103.1		90.8
Univ. Of Missouri	S16-3747RY	71.1	71.1	95.9	100.4	85.6	94.0		88.2
Univ. Of Missouri	S16-11651C	58.5	58.5	93.8	97.7	99.9	97.1		87.5
Univ. Of Missouri	S16-15170C	61.6	61.6	93.4	112.7	102.2	102.8		92.5
Univ. Of Missouri	UA54i19GT	54.1	54.1	79.0	115.1	95.6	96.6		85.9
Univ. Of Missouri	S16-14801C *	61.2	61.2	94.2	92.3	96.8	94.4		86.1
Univ. Of Missouri	S16-7840C *	66.3	66.3	89.9	92.4	95.6	92.7		86.1
Univ. Of Missouri	S16-9090C *	64.2	64.2	95.7	110.0	104.7	103.5		93.7
Univ. Of Missouri	S16-9478C *	59.1	59.1	88.3	107.7	88.2	94.8		85.8
Mean		60.0		92.4	105.4	95.3	97.7		88.3
CV		9.6		9.9	14.7	6.3	10.3		
R ²		66.0		35.0	39.0	68.0	47.3		
LSD (0.05)		9.8		NS	NS	10.3	10.3		
Error DF		18		18	18	18	18.0		

¹Variety followed by an asterisk indicates an experimental entry.

Table 19. Summary of 2-Year Yields for Maturity Group V Conventional for the 2020 and 2021 Mississippi Soybean Variety Trials.

Brand	Variety	Stoneville irr. (clay)	Brooksville not irr. (clay)	Verona not irr. (clay)	Overall average	
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	
Univ. Of Missouri	S16-3747RY	77.1	75.0	71.4	74.5	
Univ. Of Missouri	S16-11651C	74.6	73.1	85.5	77.8	
Univ. Of Missouri	S16-15170C	75.1	70.4	86.7	77.4	
Univ. Of Missouri	UA54i19GT	64.3	66.3	81.2	70.6	
Overall Mean		72.8	71.2	81.2	75.1	

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. Timely rainfall throughout the growing season allowed for good dryland yields at this location. Without prior knowledge, the IV Early Xtend group was damaged during the process of erecting a center pivot within the par-

ticular field where the 2021 Soybean OVT was planted. This process damaged too many plots to be able to fairly harvest the undisturbed plots for yield. Therefore, the IV Early Xtend MG was not harvested at this location, and no yield data were reported for this group. All remaining groups were harvested in a timely manner, and good yields were recorded.

Planting date ... April 23

Harvest date ... September 27 (all IVs); October 15 (all Vs)

Soil type Brooksville silty clay

Soil pH 6.5

Soil fertility P=M, K=M

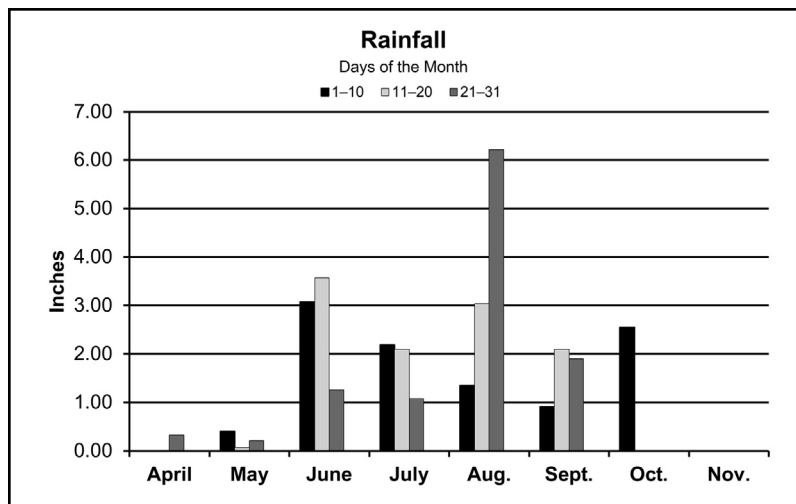
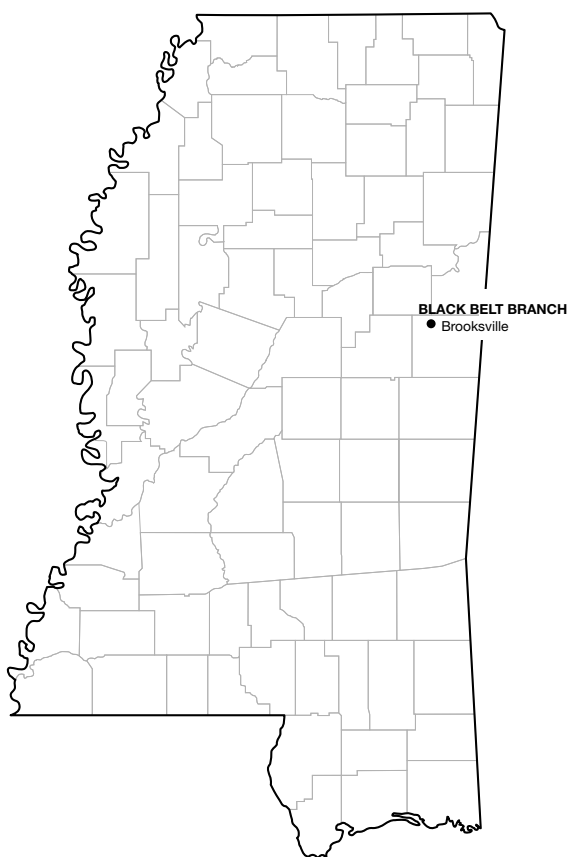
Previous crop ... Wheat

Herbicide Preemergence — Authority Edge @ 7 oz/A, Dual II Magnum @ 32 oz/A, and Gramoxone @ 32 oz/A on April 23

Postemergence — SelectMax @ 16 oz/A, FirstRate @ 0.3 oz/A, and Prefix @ 32 oz/A on June 24

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

Insecticide Intrepid Edge @ 4 oz/A and Bifenthrin @ 6.4 oz/A on August 12



Rainfall Summary

	Inches
April	0.33
May	0.68
June	7.90
July	5.37
August	10.61
September	4.91
October	2.55
November	0.00
Total	32.35

Table 20. Maturity Group IVL Xtend Nonirrigated Soybean Varieties (Black Belt Branch, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 4921XFS	91.8	—	—	34	2
Armor	48-D25	86.8	71.8	61.5	34	1
Local Seed	LS4806XS	86.7	—	—	32	1
Armor	48-F22	84.6	—	—	35	1
DonMario	DM48F61	84.6	—	—	38	2
Progeny Ag	P 4816RX	83.5	69.8	61.4	32	1
Local Seed	LS4919XFS	82.4	—	—	31	1
Delta Grow	48X45	82.0	69.0	64.4	33	1
Great Heart	GT-4979X	81.6	—	—	35	1
AgriGold	G4820RX	81.4	66.7	—	27	1
Armor	48-D03	81.0	—	—	37	1
Innvictis Seed	A 4950X	80.6	62.5	56.2	40	2
Local Seed	LS4795XS	80.2	65.6	—	31	1
Delta Grow	49F22/STS	78.1	—	—	37	1
Progeny Ag	P 4970RX	76.9	67.3	—	31	1
MorSoy	MS 4850 XF/STS	76.9	—	—	37	1
Progeny Ag	P 4806XFS	75.8	—	—	35	1
Pioneer	P47A64X	75.6	—	—	38	2
Local Seed	LS4805XFS	74.1	—	—	32	1
Asgrow	AG47XF0	74.0	—	—	33	1
Innvictis Seed	A 4850XF	72.0	—	—	35	1
Great Heart Seed	GT-4828X	71.9	62.2	—	33	1
Innvictis Seed	A 4831XF	71.8	—	—	39	2
AgriGold	G4813XF	71.2	—	—	24	1
Innvictis Seed	A 4791XF	70.7	—	—	37	1
Dyna-Gro	S48XT90	70.0	57.1	—	35	1
Great Heart Seed	GT-4841XFS	69.8	—	—	35	1
Delta Grow	48F20	69.7	—	—	33	1
Dyna-Gro	S49XT70	68.3	59.5	56.6	34	1
USG	7491XFS	68.3	—	—	31	1
Local Seed	LS4718XF	66.1	—	—	41	3
Credenz	CZ 4912XF	66.0	—	—	44	2
Asgrow	AG48XF0	65.8	—	—	34	1
Beck's Hybrids	4885XF	64.9	—	—	29	1
NK Brand	S49-F5X	64.4	58.4	56.2	29	1
Credenz	CZ 4742XF	63.9	—	—	39	1
Credenz	CZ 4892XF	63.7	—	—	29	1
Asgrow	AG47XF2	63.5	—	—	32	1
Beck's Hybrids	4991X2	61.9	—	—	30	1
Progeny Ag	P 4821RX	61.4	55.6	50.1	28	1
Great Heart Seed	GT-4750XFS	58.5	—	—	29	1
Asgrow	AG48XF2	58.0	—	—	27	2
Progeny Ag	P 4851RX	57.4	59.9	53.1	30	2
Local Seed	LS4707XF	55.6	—	—	33	1
USG	7481XF	47.0	—	—	34	1
Mean		72.0				
CV		13.0				
R ²		62.0				
LSD (0.05)		15.7				
Error DF		88				

Table 21. Maturity Group V Xtend Nonirrigated Soybean Varieties (Black Belt Branch, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	103.0	75.5	—	29	1
Asgrow	AG56XF2	95.1	—	—	33	1
Delta Grow	52X05/STS	90.8	66.6	58.4	46	2
DonMario	DM51X61	87.1	59.9	—	39	1
Innictis Seed	A5558X	86.9	—	—	31	1
Innictis Seed	A5451XF	86.6	—	—	31	1
Dyna-Gro	S56XT99	85.7	67.0	57.3	34	1
Progeny Ag	P 5554RX	85.4	63.8	55.2	30	1
Innictis Seed	A5341XF	84.4	—	—	30	1
Delta Grow	54F20	83.7	—	—	28	1
Local Seed	LS5009XS	83.5	61.2	—	38	2
Progeny Ag	P 5425XF	83.3	—	—	35	1
Asgrow	AG55XF0	83.3	—	—	32	1
Great Heart Seed	GT-5214X	81.2	64.8	—	33	1
NK Brand	S53-F7X	80.7	55.7	48.3	30	1
Progeny Ag	P 5016RXS	79.6	60.8	55.4	31	1
Local Seed	LS5386X	79.1	53.8	50.6	38	1
Credenz	CZ 5282XF	78.9	—	—	46	2
Great Heart Seed	GT-5417X	75.3	55.3	—	27	1
Progeny Ag	P 5252RX	74.1	53.8	50.2	47	3
Local Seed	LS5614XF	74.1	—	—	28	1
Local Seed	LS5418XFS	73.0	—	—	32	1
Progeny Ag	P 5003XF	72.2	—	—	31	1
Beck's Hybrids	5005XF	71.5	—	—	35	1
Asgrow	AG53XF2	70.9	—	—	32	1
Dyna-Gro	S52XT91	70.3	—	—	29	1
Local Seed	LS5119XF	70.2	—	—	36	2
Credenz	CZ 5552XF	69.8	—	—	24	1
NK Brand	NK57-A3XF	55.5	—	—	21	1
Mean		79.8				
CV		11.7				
R ²		65.0				
LSD (0.05)		15.3				
Error DF		56				

Table 22. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Black Belt Branch Station, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Pioneer	P49T62E	85.0	—	—	30	1
Delta Grow	49E20	78.3	—	—	31	1
Innvictis Seed	B 4841E	75.7	—	—	33	1
Progeny Ag	P 4931E3S	73.5	—	—	37	1
Delta Grow	48E59	71.6	—	—	34	1
Dyna-Gro	S49EN79	71.0	—	—	31	1
Progeny Ag	P 4775E3S	70.9	—	—	39	1
Delta Grow	48E49/STS	69.6	—	—	28	1
Pioneer	P46T51E	68.5	—	—	31	1
Delta Grow	46E10	68.3	—	—	25	1
Innvictis Seed	B 4681E	66.9	—	—	32	1
DonMario	DM48E62S	64.4	—	—	35	1
Dyna-Gro	S45ES10	60.2	—	—	30	1
Progeny Ag	P 4541E3S	60.1	—	—	40	2
Dyna-Gro	S46ES91	60.0	—	—	32	1
Innvictis Seed	B 4141E	59.8	—	—	30	1
Delta Grow	47E20/STS	55.7	—	—	33	1
Mean		68.2				
CV		13.0				
R ²		54.0				
LSD (0.05)		14.7				
Error DF		32				
¹ No 2- or 3-year average.						

Table 23. Maturity Group IV Nonirrigated Conventional Soybean Varieties (Black Belt Branch, Brooksville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	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>
Univ. Of Missouri	S16-5540R	96.9	75.1	—	27	2
Univ. Of Missouri	S16-5503R *	92.7	—	—	40	1
Univ. of Missouri	S16-11644C	91.5	74.2	—	30	1
Univ. of Missouri	S16-7922C	90.8	73.7	—	40	1
Univ. Of Missouri	S17-2193C *	83.2	—	—	38	1
Univ. Of Missouri	S09-13608C *	77.2	—	—	38	1
Univ. Of Missouri	S16-8898C *	77.1	—	—	37	2
Univ. of Arkansas	UA46i20C	70.4	61.6	—	32	1
Univ. of Arkansas	R16-253 *	66.7	—	—	33	1
Uni. of Arkansas	R15-2422 *	65.7	64.3	—	46	1
Univ. Of Missouri	S16-14730C	65.2	61.3	56.4	30	1
Univ. Of Missouri	S17-2243C *	64.8	—	—	37	4
Univ. Of Missouri	S16-12137C *	60.7	—	—	44	1
Mean		77.1				
CV		11.5				
R ²		76.0				
LSD (0.05)		14.9				
Error DF		24				
¹ Variety followed by an asterisk indicates an experimental entry.						

Table 24. Maturity Group V Conventional Nonirrigated Soybean Varieties (Black Belt Branch, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg.	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Univ. of Arkansas	R13-13997 *	98.0	—	—	26	1
Univ. Of Missouri	S16-3747RY	95.9	75.0	—	37	1
Univ. Of Missouri	S16-9090C *	95.7	—	—	41	2
Univ. of Arkansas	R15-1587 *	95.6	—	—	35	1
Univ. Of Missouri	S16-14801C *	94.2	—	—	36	2
Univ. Of Missouri	S16-11651C	93.8	73.1	—	42	2
Univ. Of Missouri	S16-15170C	93.4	70.4	—	46	1
Univ. Of Missouri	S16-7840C *	89.9	—	—	42	2
Univ. Of Missouri	S16-9478C *	88.3	—	—	39	1
Univ. Of Missouri	UA54i19GT	79.0	66.3	—	44	1
Mean		92.4				
CV		9.9				
R ²		35.0				
LSD (0.05)		NS				
Error DF		18				
¹ No 3-Year average.						

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

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Credenz	CZ 4562XF	75.4	—	—	30	2
Armor	46-D09	73.9	76.8	—	29	1
Delta Grow	46X65	73.6	80.2	66.3	28	1
Armor	44-D49	72.7	75.6	—	29	1
Progeny Ag	P 4521XFS	72.1	—	—	28	1
Great Heart Seed	GT-4677XS	71.8	76.6	65.3	23	1
MorSoy	MS 4640XF	71.8	—	—	33	1
Progeny Ag	P 4604XFS	71.6	—	—	30	1
Dyna-Gro	S46XS60	71.0	74.9	63.2	26	1
Innictis Seed	A 4618X	70.7	74.5	57.3	33	1
Pioneer	P46A86X	70.5	74.4	—	29	1
Progeny Ag	P 4505RXS	70.4	71.9	—	27	1
Innictis Seed	A 4690XF	69.7	—	—	29	1
Dyna-Gro	S46XF31S	69.5	—	—	32	2
Local Seed Co	LS4606XFS	68.3	—	—	28	1
DonMario	DM45X61	68.2	71.5	—	30	2
USG	7461XFS	67.9	—	—	29	1
Armor	46-F13	67.7	—	—	28	1
Local Seed Co	LS4415XF	67.4	—	—	22	1
NK Brand	NK43-V8XF	67.3	—	—	29	1
DonMario	DM42F62S	67.2	—	—	29	1
AgriGold	G4620RX	67.2	74.1	—	29	1
Beck's Hybrids	4119X2	66.0	—	—	27	1
Local Seed Co	LS4517XFS	66.0	—	—	28	1
NK Brand	NK45-P9XF	65.9	—	—	31	1
MorSoy	MS 4681 RXT	65.1	—	—	32	2
Delta Grow	46F17/STS	65.0	—	—	29	2
Great Heart Seed	GT-4681XFS	64.8	—	—	28	1
Great Heart Seed	GT-4344XF	64.2	—	—	32	1
Asgrow	AG44XF2	64.1	—	—	28	1
AgriGold	G4615XF	63.1	—	—	29	1
Innictis Seed	A 4371XF	57.9	—	—	27	1
Progeny Ag	P 4501XFS	57.8	—	—	32	3
DonMario	DM46F62	55.6	—	—	34	2
Innictis Seed	A 4571XF	55.5	—	—	27	1
Dyna-Gro	S43XS70	55.0	—	—	24	1
Asgrow	AG46XF2	54.0	—	—	26	1
MorSoy	MS 4531XF	53.4	—	—	31	2
Innictis Seed	A 4111XF	47.5	—	—	30	2
Great Heart Seed	GT-4255XS	45.7	—	—	26	1
NK Brand	S44-C7X	44.1	54.4	45.2	20	1
Asgrow	AG45XF0	44.0	—	—	26	1
Credenz	CZ 4202XF	41.3	—	—	39	4
NK Brand	NK39-A1XF	29.7	—	—	25	1
Mean		63.0				
CV		8.8				
R ²		84.0				
LSD (0.05)		9.0				
Error DF		86				

Table 26. Maturity Group IV L Xtend Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	LS4806XS	77.5	—	—	28	1
Credenz	CZ 4912XF	76.9	—	—	48	3
Dyna-Gro	S48XT90	75.7	78.9	—	27	2
Dyna-Gro	S49XT70	74.1	78.8	67.2	37	2
DonMario	DM48F61	73.0	—	—	38	1
Progeny Ag	P 4851RX	72.3	79.4	70.8	30	2
Pioneer	P47A64X	71.6	—	—	33	1
Progeny Ag	P 4816RX	71.1	78.4	68.5	25	1
Progeny Ag	P 4970RX	70.4	76.5	—	32	1
Great Heart	GT-4979X	69.8	—	—	33	1
Innictis Seed	A 4950X	69.0	75.5	65.4	36	2
AgriGold	G4820RX	68.4	77.7	—	29	1
Local Seed	LS4919XFS	68.4	—	—	29	1
Armor	48-D25	66.8	77.4	66.9	29	1
Delta Grow	48F20	66.6	—	—	25	1
Delta Grow	49F22/STS	65.8	—	—	—	-
Progeny Ag	P 4806XFS	65.7	—	—	31	1
Armor	48-F22	65.7	—	—	26	1
Delta Grow	48X45	64.7	76.0	66.9	26	1
Progeny Ag	P 4921XFS	64.6	—	—	29	1
Local Seed	LS4805XFS	64.1	—	—	27	1
Local Seed	LS4795XS	63.9	73.5	—	29	1
Beck's Hybrids	4991X2	63.8	—	—	28	1
Credenz	CZ 4892XF	63.6	—	—	35	1
Great Heart Seed	GT-4828X	63.3	72.7	—	34	1
AgriGold	G4813XF	63.3	—	—	27	1
Innictis Seed	A 4850XF	62.9	—	—	28	1
Local Seed	LS4718XF	62.4	—	—	29	2
Progeny Ag	P 4821RX	62.2	69.0	60.9	25	1
USG	7491XFS	62.0	—	—	26	1
MorSoy	MS 4850 XF/STS	61.9	—	—	24	1
Armor	48-D03	59.8	—	—	24	1
Asgrow	AG47XF0	59.4	—	—	28	1
Great Heart Seed	GT-4841XFS	58.0	—	—	30	1
Great Heart Seed	GT-4750XFS	57.3	—	—	30	1
Beck's Hybrids	4885XF	57.3	—	—	29	1
Credenz	CZ 4742XF	54.7	—	—	36	2
NK Brand	S49-F5X	53.6	66.0	58.3	25	1
Innictis Seed	A 4791XF	53.2	—	—	23	1
Asgrow	AG48XF0	51.4	—	—	26	1
Asgrow	AG48XF2	50.6	—	—	25	1
Local Seed	LS4707XF	48.5	—	—	27	2
Innictis Seed	A 4831XF	46.8	—	—	22	1
USG	7481XF	41.8	—	—	31	2
Asgrow	AG47XF2	38.5	—	—	26	1
Mean		62.7				
CV		9.4				
R ²		77.0				
LSD (0.05)		9.5				
Error DF		88				

Table 27. Maturity Group IV Enlist Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	47E20/STS	69.5	68.8	—	28	1
Pioneer	P46T51E	65.7	—	—	23	1
Dyna-Gro	S46ES91	64.9	—	—	32	2
Progeny Ag	P 4775E3S	62.1	67.9	—	31	1
Delta Grow	46E10	60.6	—	—	27	1
Pioneer	P49T62E	60.4	64.5	—	26	1
DonMario	DM48E62S	59.5	—	—	31	1
Progeny Ag	P 4541E3S	58.8	—	—	35	2
Innvictis Seed	B 4141E	57.7	—	—	25	1
Progeny Ag	P 4931E3S	56.8	—	—	33	1
Innvictis Seed	B 4841E	55.5	—	—	26	1
Dyna-Gro	S49EN79	55.0	—	—	29	1
Delta Grow	48E59	53.4	—	—	25	1
Delta Grow	49E20	53.1	—	—	30	1
Innvictis Seed	B 4681E	52.3	—	—	24	1
Dyna-Gro	S45ES10	50.1	—	—	28	1
Delta Grow	48E49/STS	49.3	58.1	52.0	23	1
Mean		57.9				
CV		14.1				
R ²		58.0				
LSD (0.05)		13.6				
Error DF		32				

Table 28. Maturity Group V Xtend Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	91.4	88.3	—	23	1
DonMario	DM51X61	85.3	83.8	—	32	2
Innvictis Seed	A5558X	80.6	—	—	30	1
Dyna-Gro	S52XT91	80.3	—	—	28	1
Asgrow	AG56XF2	79.9	—	—	30	1
Delta Grow	52X05/STS	79.7	75.4	67.0	38	3
Progeny Ag	P 5252RX	78.5	78.8	67.9	43	4
Great Heart Seed	GT-5214X	78.2	76.7	—	37	4
Progeny Ag	P 5554RX	77.1	75.6	64.0	27	1
Local Seed	LS5009XS	76.9	80.7	—	31	2
Local Seed	LS5418XFS	76.3	—	—	35	1
Dyna-Gro	S56XT99	74.8	76.0	66.9	27	1
Asgrow	AG55XF0	74.0	—	—	27	1
Innvictis Seed	A5341XF	73.8	—	—	25	1
NK Brand	S53-F7X	73.7	77.3	65.7	27	1
Innvictis Seed	A5451XF	73.5	—	—	27	1
Delta Grow	54F20	72.1	—	—	16	1
Credenz	CZ 5552XF	71.4	—	—	28	1
Great Heart Seed	GT-5417X	71.2	73.3	—	33	2
Beck's Hybrids	5005XF	71.0	—	—	25	1
Local Seed	LS5386X	69.6	73.6	55.6	37	1
Local Seed	LS5614XF	68.9	—	—	22	1
Progeny Ag	P 5425XF	67.8	—	—	18	1
Credenz	CZ 5282XF	67.7	—	—	49	2
Progeny Ag	P 5003XF	65.7	—	—	26	2
Asgrow	AG53XF2	62.2	—	—	29	2
Progeny Ag	P 5016RXS	61.7	65.4	53.2	31	1
Local Seed	LS5119XF	56.1	—	—	35	3
NK Brand	NK57-A3XF	53.8	—	—	24	1
Mean		72.9				
CV		7.5				
R ²		76.0				
LSD (0.05)		9.0				
Error DF		56				

Table 29. Maturity Group V Enlist Irrigated Soybean Varieties (Brooksville Farm, Brooksville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny	P 5121E3S	73.2	—	—	35	2
DonMario	DM51E62S	71.8	—	—	38	2
Delta Grow	53E30	70.7	—	—	39	2
Progeny	P 5521E3S	68.8	—	—	55	4
Innictis Seed	B 5401E	67.5	—	—	53	4
Mean		70.4				
CV		8.6				
R ²		59.8				
LSD (0.05)		11.5				
Error DF		8				
¹ No 2- or 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 8

Harvest date . . . October 11 (all groups)

Soil typeSharkey clay

Soil pH6.8

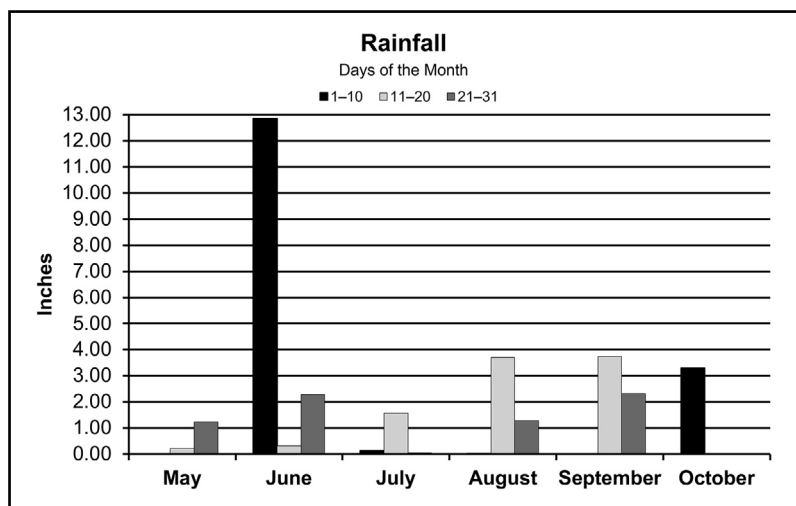
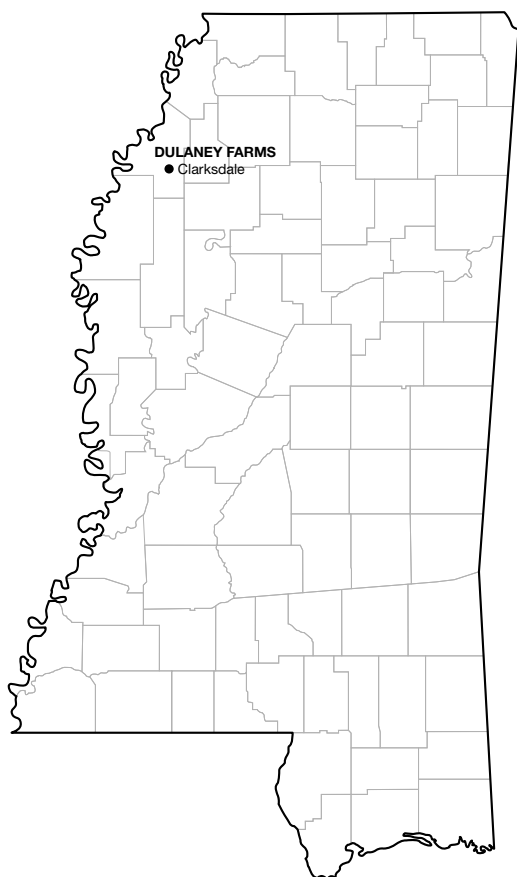
Soil fertilityP=H, K=H

Previous crop . . . Soybeans

HerbicidePreemergence — Boundary @ 32 oz/A, Spartan @ 4 oz/A, Gramoxone @ 32 oz/A, and molybdenum at 6 oz/A on May 8

Postemergence — Roundup PowerMax @ 32 oz/A and Engenia at 12.8 oz/A

IrrigationFurrow irrigated as needed



Rainfall Summary

	Inches
May.....	1.45
June.....	15.44
July.....	1.76
August.....	5.01
September	6.06
October	3.28
Total	33.00

Table 30. Maturity Group IV E Xtend Irrigated Soybean Varieties (Dulaney Farms, Clarksdale).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	81.9	88.2	—	39	1
DonMario	DM45X61	78.2	85.2	—	38	1
Progeny Ag	P 4505RXS	76.1	86.9	—	38	1
MorSoy	MS 4681 RXT	74.5	—	—	39	1
AgriGold	G4620RX	74.3	80.7	—	38	1
Innvictis Seed	A 4618X	73.0	82.4	82.6	30	1
Progeny Ag	P 4501XFS	72.7	—	—	39	2
Local Seed Co	LS4415XF	72.4	—	—	31	1
Innvictis Seed	A 4690XF	71.5	—	—	35	1
MorSoy	MS 4531XF	71.1	—	—	40	1
Dyna-Gro	S43XS70	71.0	—	—	33	1
USG	7461XFS	70.8	—	—	38	1
Great Heart Seed	GT-4255XS	70.7	—	—	36	1
Great Heart Seed	GT-4677XS	70.7	83.9	82.9	31	1
Armor	46-D09	70.6	81.2	—	31	1
Progeny Ag	P 4521XFS	69.8	—	—	30	1
AgriGold	G4615XF	69.7	—	—	38	1
Armor	46-F13	69.6	—	—	38	1
Asgrow	AG46XF2	69.4	—	—	31	2
Asgrow	AG45XF0	69.1	—	—	28	1
Delta Grow	46X65	69.0	81.5	82.8	32	1
NK Brand	NK45-P9XF	68.7	—	—	36	2
Pioneer	P46A86X	68.5	79.7	—	33	1
NK Brand	S44-C7X	68.0	80.2	82.9	32	1
Innvictis Seed	A 4371XF	67.8	—	—	34	1
Progeny Ag	P 4604XFS	67.8	—	—	34	1
Local Seed Co	LS4606XFS	67.7	—	—	37	1
Innvictis Seed	A 4571XF	67.7	—	—	33	1
Great Heart Seed	GT-4681XFS	67.6	—	—	33	1
Great Heart Seed	GT-4344XF	67.4	—	—	35	1
Dyna-Gro	S46XF31S	67.4	—	—	35	1
Beck's Hybrids	4119X2	67.3	—	—	31	1
NK Brand	NK43-V8XF	67.1	—	—	33	1
Credenz	CZ 4202XF	65.2	—	—	33	1
Innvictis Seed	A 4111XF	64.9	—	—	36	1
DonMario	DM46F62	64.5	—	—	35	1
Credenz	CZ 4562XF	64.2	—	—	37	1
MorSoy	MS 4640XF	64.1	—	—	37	2
Dyna-Gro	S46XS60	63.6	78.4	79.3	33	1
Asgrow	AG44XF2	63.6	—	—	32	1
DonMario	DM42F62S	62.3	—	—	26	1
Delta Grow	46F17/STS	56.3	—	—	30	1
NK Brand	NK39-A1XF	54.1	—	—	27	1
Local Seed Co	LS4517XFS	52.8	—	—	21	1
Mean		68.3				
CV		5.1				
R ²		80.0				
LSD (0.05)		5.6				
Error DF		86				

Table 31. Maturity Group IV L Xtend Irrigated Soybean Varieties (Dulaney Farms, Clarksdale).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	78.9	86.2	87.2	37	1
Asgrow	AG47XF0	75.0	—	—	32	1
Armor	48-D03	73.7	—	—	38	1
Great Heart Seed	GT-4828X	73.3	81.8	—	36	1
Dyna-Gro	S48XT90	72.7	84.7	—	39	1
Progeny Ag	P 4806XFS	72.3	—	—	36	1
Pioneer	P47A64X	72.2	—	—	37	1
Progeny Ag	P 4821RX	72.0	84.0	86.5	32	1
Innvictis Seed	A 4831XF	72.0	—	—	33	1
AgriGold	G4820RX	71.7	85.1	—	38	1
Local Seed	LS4805XFS	71.6	—	—	33	1
Beck's Hybrids	4885XF	71.3	—	—	36	1
Delta Grow	48X45	70.7	81.3	85.2	32	1
Great Heart	GT-4979X	70.7	—	—	37	1
Dyna-Gro	S49XT70	70.3	82.4	83.8	33	1
NK Brand	S49-F5X	70.0	81.9	83.0	27	1
Armor	48-F22	70.0	—	—	35	1
Progeny Ag	P 4970RX	69.9	84.3	—	38	1
Local Seed	LS4795XS	69.8	82.2	—	31	1
Innvictis Seed	A 4950X	69.5	80.7	83.8	43	1
Delta Grow	48F20	69.3	—	—	33	1
DonMario	DM48F61	69.1	—	—	36	1
Innvictis Seed	A 4850XF	68.7	—	—	37	1
Asgrow	AG47XF2	68.4	—	—	31	1
USG	7491XFS	67.8	—	—	33	1
Local Seed	LS4806XS	67.6	—	—	36	1
Progeny Ag	P 4816RX	67.3	82.1	85.2	29	1
Great Heart Seed	GT-4841XFS	66.8	—	—	33	1
Armor	48-D25	66.7	80.9	84.0	35	1
MorSoy	MS 4850 XF/STS	66.7	—	—	31	1
Beck's Hybrids	4991X2	65.9	—	—	29	1
Innvictis Seed	A 4791XF	65.5	—	—	31	1
Asgrow	AG48XF2	65.0	—	—	33	1
Credenz	CZ 4892XF	64.9	—	—	34	1
AgriGold	G4813XF	64.6	—	—	32	1
Local Seed	LS4707XF	64.6	—	—	33	1
Local Seed	LS4919XFS	64.5	—	—	35	1
USG	7481XF	64.4	—	—	34	1
Delta Grow	49F22/STS	64.3	—	—	35	1
Great Heart Seed	GT-4750XFS	63.6	—	—	31	1
Credenz	CZ 4742XF	63.4	—	—	36	2
Progeny Ag	P 4921XFS	63.0	—	—	36	1
Asgrow	AG48XF0	62.4	—	—	34	1
Credenz	CZ 4912XF	62.1	—	—	40	1
Local Seed	LS4718XF	57.8	—	—	38	1
Mean		68.3				
CV		5.3				
R ²		65.0				
LSD (0.05)		5.8				
Error DF		88				

Table 32. Maturity Group V Xtend Irrigated Soybean Varieties (Dulaney Farms, Clarksdale).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	73.6	81.2	—	25	1
Local Seed	LS5386X	67.1	77.6	80.6	35	1
Beck's Hybrids	5005XF	66.8	—	—	35	1
Progeny Ag	P 5252RX	66.6	75.7	80.6	38	1
Asgrow	AG53XF2	66.6	—	—	37	2
Progeny Ag	P 5003XF	62.7	—	—	34	1
Credenz	CZ 5552XF	61.9	—	—	31	1
DonMario	DM51X61	61.8	77.3	—	32	1
Local Seed	LS5119XF	61.5	—	—	31	1
Local Seed	LS5009XS	60.7	77.1	—	37	1
Dyna-Gro	S52XT91	60.6	—	—	33	1
Delta Grow	52X05/STS	59.8	72.7	78.1	35	1
Innictis Seed	A5341XF	59.7	—	—	26	1
Great Heart Seed	GT-5417X	59.5	71.0	—	33	1
Delta Grow	54F20	58.2	—	—	23	1
Progeny Ag	P 5016RXS	58.0	70.2	73.3	35	1
Innictis Seed	A5451XF	57.7	—	—	28	1
Progeny Ag	P 5425XF	57.3	—	—	25	1
Local Seed	LS5614XF	56.7	—	—	23	1
Innictis Seed	A5558X	55.5	—	—	30	1
Credenz	CZ 5282XF	55.0	—	—	41	1
Progeny Ag	P 5554RX	54.7	73.7	75.6	29	1
Great Heart Seed	GT-5214X	54.0	68.8	—	41	2
NK Brand	S53-F7X	54.0	68.7	74.5	33	1
Asgrow	AG55XF0	53.4	—	—	29	1
Asgrow	AG56XF2	52.9	—	—	29	1
NK Brand	NK57-A3XF	52.5	—	—	25	1
Dyna-Gro	S56XT99	52.2	71.3	76.9	27	1
Local Seed	LS5418XFS	47.0	—	—	43	1
Mean		58.9				
CV		5.6				
R ²		81.0				
LSD (0.05)		5.4				
Error DF		56				

CRYSTAL SPRINGS, TRUCK CROPS BRANCH

Crop Summary

The plots were planted into a field that had been out of row crop production for many years. Prior to planting, all seed were inoculated and then planted, flat, into a seedbed that had been disked and harrowed smooth a couple of weeks prior to planting. Adequate soil moisture was present at planting to allow for quick germination

and emergence. All plots quickly emerged to a good stand. Timely rainfall occurred throughout the entire growing season, which resulted in the plots never being stressed for water. Harvest was completed in a timely manner, and excellent yields were observed at this dry-land location.

Planting date ... April 27

Harvest date October 14 (all groups)

Soil type Providence silt loam

Soil pH 6.9

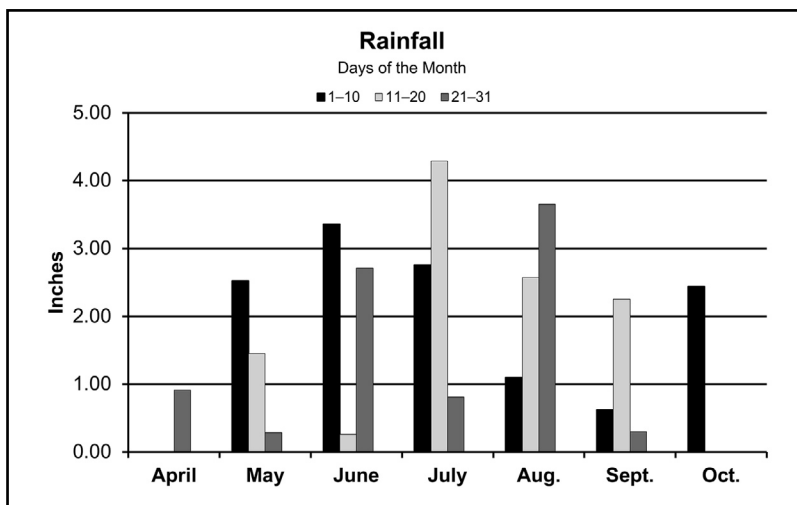
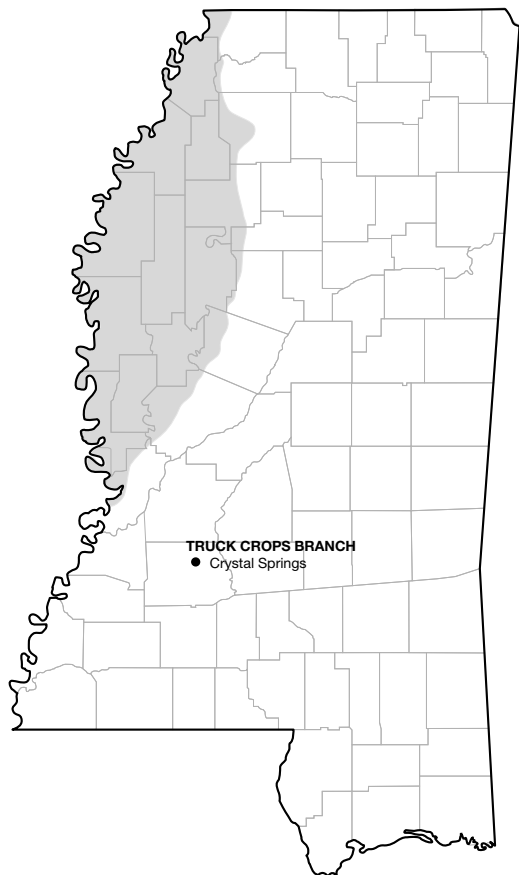
Soil fertility P=H, K=H

Previous crop ... Grass/pasture

Herbicide Preemergence — Authority Edge @ 7 oz/A, Dual II Magnum @ 24 oz/A, and Gramoxone @ 32 oz/A on April 27

Postemergence — (Xtend & Enlist) Roundup PowerMax @ 24 oz/A and Zidua @ 1.5 oz/A on May 28; (Conventional) Select Max @ 16 oz/A and Zidua @ 1.5 oz/A on May 28

Insecticide Acephate at 0.75 lb/A and Bifenthrin @ 6.4 oz/A on August 13



Rainfall Summary

	Inches
April	0.91
May	4.26
June	6.33
July	7.86
August	7.32
September	3.17
October	2.44
Total	32.29

Table 33. Maturity Group IV E Xtend Nonirrigated Soybean Varieties (MAFES Truck Crop Branch, Crystal Springs).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	126.3	91.0	—	34	1
AgriGold	G4615XF	124.5	—	—	33	1
Pioneer	P46A86X	122.5	79.2	—	38	1
Great Heart Seed	GT-4681XFS	120.4	—	—	33	1
USG	7461XFS	119.3	—	—	30	1
MorSoy	MS 4640XF	118.8	—	—	39	1
Delta Grow	46X65	118.5	79.6	81.0	35	1
Progeny Ag	P 4501XFS	118.1	—	—	37	1
NK Brand	NK43-V8XF	117.7	—	—	35	1
Progeny Ag	P 4505RXS	117.1	82.8	—	40	1
Armor	46-D09	116.7	82.0	—	34	1
Dyna-Gro	S46XS60	116.4	82.5	84.0	29	1
Innvictis Seed	A 4571XF	115.5	—	—	33	1
MorSoy	MS 4531XF	115.3	—	—	30	1
Progeny Ag	P 4604XFS	115.1	—	—	38	1
Local Seed Co	LS4606XFS	114.4	—	—	34	1
Delta Grow	46F17/STS	113.8	—	—	36	1
Innvictis Seed	A 4618X	113.5	80.9	84.6	34	1
Asgrow	AG45XF0	113.3	—	—	32	1
DonMario	DM42F62S	113.2	—	—	34	1
MorSoy	MS 4681 RXT	113.1	—	—	36	1
AgriGold	G4620RX	113.0	79.4	—	34	1
DonMario	DM46F62	112.8	—	—	38	1
Innvictis Seed	A 4371XF	112.5	—	—	32	1
Progeny Ag	P 4521XFS	111.7	—	—	34	1
Great Heart Seed	GT-4677XS	111.4	77.7	75.9	29	1
NK Brand	S44-C7X	110.5	76.4	78.8	30	1
Great Heart Seed	GT-4344XF	110.5	—	—	32	1
DonMario	DM45X61	110.4	78.0	—	39	1
Armor	46-F13	110.2	—	—	29	1
Great Heart Seed	GT-4255XS	110.1	—	—	29	1
Innvictis Seed	A 4690XF	109.3	—	—	32	1
Dyna-Gro	S46XF31S	108.3	—	—	34	1
Asgrow	AG46XF2	107.4	—	—	36	1
Local Seed Co	LS4517XFS	107.1	—	—	38	1
Local Seed Co	LS4415XF	106.1	—	—	36	1
Beck's Hybrids	4119X2	104.7	—	—	29	1
NK Brand	NK45-P9XF	103.9	—	—	36	1
Innvictis Seed	A 4111XF	103.3	—	—	32	1
Dyna-Gro	S43XS70	102.9	—	—	28	1
Credenz	CZ 4562XF	101.9	—	—	32	1
Credenz	CZ 4202XF	100.6	—	—	27	1
Asgrow	AG44XF2	95.5	—	—	31	1
NK Brand	NK39-A1XF	95.2	—	—	25	1
Mean		111.9				
CV		8.0				
R ²		52.0				
LSD (0.05)		14.5				
Error DF		86				

Table 34. Maturity Group IV L Xtend Nonirrigated Soybean Varieties (MAFES Truck Crops Branch, Crystal Springs).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	LS4795XS	125.0	88.6	—	30	3
Innvictis Seed	A 4831XF	124.3	—	—	35	3
Great Heart	GT-4979X	123.6	—	—	36	3
Great Heart Seed	GT-4828X	122.7	83.7	—	38	2
Innvictis Seed	A 4950X	120.7	86.1	87.2	38	3
Dyna-Gro	S48XT90	120.2	85.1	—	29	2
Progeny Ag	P 4851RX	119.5	83.8	83.5	35	4
Progeny Ag	P 4806XFS	119.5	—	—	32	2
DonMario	DM48F61	118.4	—	—	36	1
Progeny Ag	P 4970RX	116.9	83.2	—	30	3
Credenz	CZ 4912XF	116.7	—	—	44	3
Dyna-Gro	S49XT70	115.8	79.1	78.4	39	1
Local Seed	LS4718XF	115.8	—	—	36	2
Credenz	CZ 4742XF	115.7	—	—	38	2
AgriGold	G4820RX	115.1	80.2	—	37	2
Local Seed	LS4919XFS	114.7	—	—	33	2
MorSoy	MS 4850 XF/STS	114.6	—	—	34	1
Armor	48-D03	113.6	—	—	35	1
Progeny Ag	P 4821RX	113.5	79.8	82.4	30	2
Beck's Hybrids	4885XF	113.4	—	—	38	2
Asgrow	AG47XF2	113.0	—	—	29	2
Great Heart Seed	GT-4841XFS	112.9	—	—	40	2
Innvictis Seed	A 4791XF	112.3	—	—	30	1
Delta Grow	49F22/STS	111.1	—	—	35	3
Local Seed	LS4805XFS	111.1	—	—	30	1
Asgrow	AG47XF0	110.8	—	—	29	1
Local Seed	LS4806XS	109.9	—	—	30	1
Armor	48-D25	109.8	78.1	77.5	31	1
USG	7491XFS	108.3	—	—	35	1
Asgrow	AG48XF0	108.1	—	—	38	1
Delta Grow	48X45	108.1	78.2	80.5	32	1
Armor	48-F22	107.9	—	—	35	1
AgriGold	G4813XF	107.9	—	—	37	2
Delta Grow	48F20	106.8	—	—	31	1
Progeny Ag	P 4921XFS	105.6	—	—	36	2
Credenz	CZ 4892XF	105.2	—	—	41	2
Local Seed	LS4707XF	104.6	—	—	34	3
NK Brand	S49-F5X	104.5	78.5	78.0	29	3
Progeny Ag	P 4816RX	104.3	78.7	81.7	32	1
Innvictis Seed	A 4850XF	102.4	—	—	30	1
Asgrow	AG48XF2	101.3	—	—	30	2
Pioneer	P47A64X	101.0	—	—	36	1
Beck's Hybrids	4991X2	99.8	—	—	37	2
USG	7481XF	99.4	—	—	36	4
Great Heart Seed	GT-4750XFS	99.0	—	—	31	2
Mean		111.6				
CV		9.3				
R ²		46.0				
LSD (0.05)		17.0				
Error DF		88				

Table 35. Maturity Group V Xtend Nonirrigated Soybean Varieties (MAFES Truck Crops Branch, Crystal Springs).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Innvictis Seed	A5558X	131.1	—	—	34	1
DonMario	DM51X61	128.8	87.1	—	40	3
Progeny Ag	P 5554RX	125.9	81.2	77.7	33	1
Local Seed	LS5386X	125.8	91.1	90.2	42	3
Innvictis Seed	A5451XF	123.5	—	—	29	1
Asgrow	AG56XF2	122.2	—	—	36	1
Dyna-Gro	S56XT99	121.7	78.2	76.5	33	1
Progeny Ag	P 5252RX	121.3	88.8	88.4	45	4
Delta Grow	54F20	120.2	—	—	28	1
Pioneer	P53A67X	118.5	67.6	—	34	1
Delta Grow	52X05/STS	118.3	84.5	80.3	41	3
Asgrow	AG55XF0	117.8	—	—	36	2
Local Seed	LS5119XF	116.8	—	—	34	2
Local Seed	LS5009XS	115.8	84.8	—	39	4
Great Heart Seed	GT-5417X	115.4	86.0	—	34	3
Credenz	CZ 5282XF	115.3	—	—	49	4
Dyna-Gro	S52XT91	115.0	—	—	38	4
NK Brand	NK57-A3XF	112.0	—	—	30	1
Great Heart Seed	GT-5214X	111.8	76.3	—	31	4
Innvictis Seed	A5341XF	111.2	—	—	30	1
Progeny Ag	P 5425XF	109.6	—	—	25	1
Credenz	CZ 5552XF	109.3	—	—	32	1
Local Seed	LS5614XF	107.7	—	—	27	1
Local Seed	LS5418XFS	107.6	—	—	40	3
Progeny Ag	P 5016RXS	106.3	75.7	77.1	35	3
Beck's Hybrids	5005XF	106.0	—	—	38	3
NK Brand	S53-F7X	104.0	79.2	80.0	38	2
Asgrow	AG53XF2	103.8	—	—	38	2
Progeny Ag	P 5003XF	102.0	—	—	34	3
Mean		115.3				
CV		8.4				
R ²		60.0				
LSD (0.05)		15.8				
Error DF		56				

Table 36. Group IV Enlist Nonirrigated Soybean Varieties (MAFES Truck Crops Branch, Crystal Springs).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Innvictis Seed	B 4841E	112.4	—	—	32	2
Dyna-Gro	S46ES91	111.9	—	—	40	2
Delta Grow	48E59	111.1	—	—	39	4
Delta Grow	49E20	110.2	—	—	39	3
Pioneer	P46T51E	108.1	—	—	28	1
Dyna-Gro	S45ES10	107.3	—	—	45	2
Progeny Ag	P 4775E3S	106.9	85.9	—	35	1
Delta Grow	47E20/STS	106.5	84.0	—	40	4
Innvictis Seed	B 4141E	102.7	—	—	35	1
Dyna-Gro	S49EN79	102.3	—	—	39	3
Progeny Ag	P 4931E3S	101.2	—	—	38	2
Progeny Ag	P 4541E3S	101.1	—	—	40	3
Pioneer	P49T62E	98.8	77.0	—	32	1
Innvictis Seed	B 4681E	97.9	—	—	29	1
Delta Grow	46E10	92.6	—	—	39	3
DonMario	DM48E62S	90.4	—	—	30	2
Delta Grow	48E49/STS	88.9	67.0	70.1	33	2
Mean		103.0				
CV		13.4				
R ²		51.0				
LSD (0.05)		22.9				
Error DF		32				

Table 37. Maturity Group V Enlist Nonirrigated Soybean Varieties (MAFES Truck Crops Branch, Crystal Springs).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Innvictis Seed	B 5401E	115.2	—	—	34	2
DonMario	DM51E62S	96.6	—	—	40	4
Delta Grow	53E30	95.6	—	—	39	2
Progeny	P 5521E3S	82.2	—	—	60	5
Progeny	P 5121E3S	82.2	—	—	55	4
Mean		94.3				
CV		20.9				
R ²		46.5				
LSD (0.05)		NS				
Error DF		8				
¹ No 2- or 3-year average.						

Table 38. Maturity Group IV Conventional Nonirrigated Soybean Varieties (MAFES Truck Crops Station, Crystal Springs).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	2-yr. avg. ²	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Univ. Of Missouri	S17-2243C *	110.0	—	—	34	1
Univ. of Missouri	S16-11644C	104.5	—	—	39	1
Univ. of Missouri	S16-7922C	101.3	—	—	38	1
Univ. Of Missouri	S16-5503R *	100.9	—	—	35	1
Univ. Of Missouri	S16-5540R	99.6	—	—	38	2
Univ. of Arkansas	R16-253 *	99.6	—	—	47	5
Univ. Of Missouri	S16-12137C *	98.2	—	—	42	3
Univ. Of Missouri	S17-2193C *	95.4	—	—	38	2
Univ. Of Missouri	S16-8898C *	90.9	—	—	37	1
Univ. Of Missouri	S16-14730C	87.8	—	—	39	2
Univ. Of Missouri	S09-13608C *	86.3	—	—	43	1
Uni. of Arkansas	R15-2422 *	84.0	—	—	35	2
Univ. of Arkansas	UA46i20C	74.9	—	—	41	2
Mean		94.9				
CV		19.9				
R ²		32.0				
LSD (0.05)		NS				
Error DF		24				

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

Table 39. Maturity Group V Conventional Nonirrigated (MAFES Truck Crop Branch, Crystal Springs).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	2-yr. avg. ²	3-yr. avg. ²		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Univ. of Arkansas	R15-1587 *	118.1	—	—	40	3
Univ. Of Missouri	UA54i19GT	115.1	—	—	42	2
Univ. Of Missouri	S16-15170C	112.7	—	—	45	3
Univ. Of Missouri	S16-9090C *	110.0	—	—	35	2
Univ. Of Missouri	S16-9478C *	107.7	—	—	39	2
Univ. of Arkansas	R13-13997 *	107.4	—	—	49	2
Univ. Of Missouri	S16-3747RY	100.4	—	—	45	3
Univ. Of Missouri	S16-11651C	97.7	—	—	40	3
Univ. Of Missouri	S16-7840C *	92.4	—	—	34	2
Univ. Of Missouri	S16-14801C *	92.3	—	—	32	2
Mean		105.4				
CV		14.7				
R ²		39.0				
LSD (0.05)		NS				
Error DF		18				

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

LONGWOOD, STEELE FARMS

Crop Summary

The soybean plots were planted in late April into a flat seedbed with good soil moisture for germination. All plots quickly germinated and emerged to a good stand. This location experience above-average rainfall throughout a large portion of the growing season. The extended

rainy periods resulted in waterlogged soils, which stunted the plants' growth and development, resulting in reduced yield potential at this location. Harvest was completed in a timely manner. However, yields were below average for this location.

Planting dateApril 28

Harvest dateOctober 11 (all groups)

Soil typeSharkey clay

Soil pH7.0

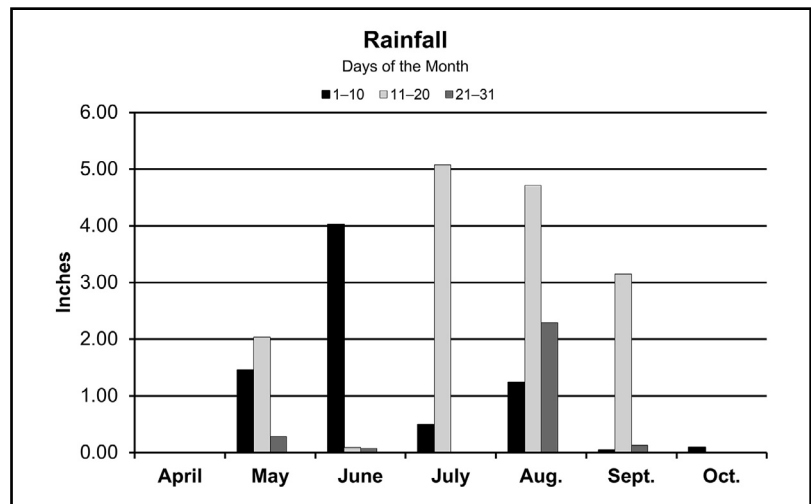
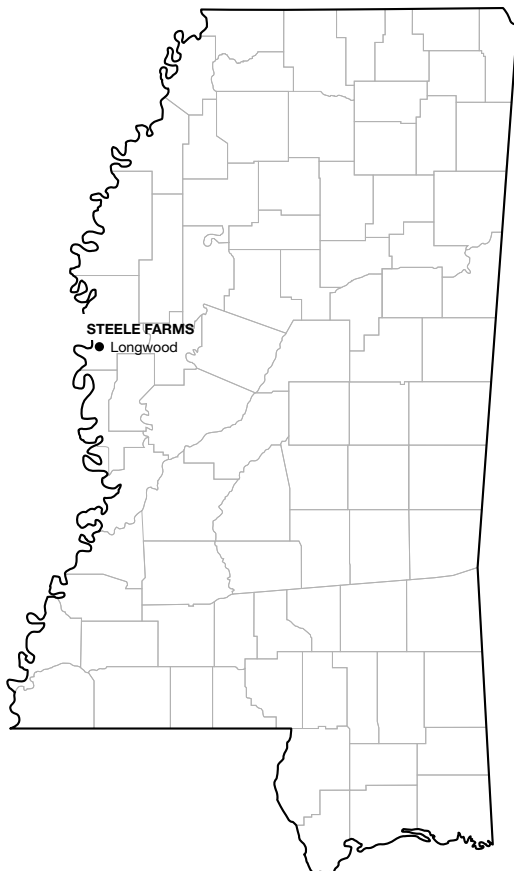
Soil fertilityP=H, K=H

Previous crop ...Rice

HerbicidePreemergence — Authority Edge @ 7 oz/A, Dual II Magnum @ 32 oz/A, and Gramoxone @ 32 oz/A on April 28

Postemergence — Select Max @ 16 oz/A, Roundup PowerMax @ 32 oz/A, and FirstRate @ 0.3 oz/A

IrrigationFurrow irrigated as needed



Rainfall Summary

	Inches
April	0.00
May	3.79
June	4.19
July	5.58
August	8.24
September	3.33
October	0.09
Total	25.22

Table 40. Maturity Group IV E Xtend Irrigated Soybean Varieties (Steele Farms, Longwood).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	AG46XF2	64.7	—	—	26	1
DonMario	DM45X61	58.4	90.8	—	28	1
MorSoy	MS 4531XF	57.6	—	—	28	1
MorSoy	MS 4681 RXT	57.2	—	—	26	1
Progeny Ag	P 4501XFS	55.8	—	—	28	1
NK Brand	NK43-V8XF	54.5	—	—	27	1
Great Heart Seed	GT-4344XF	53.0	—	—	22	1
Innvictis Seed	A 4371XF	52.9	—	—	24	1
USG	7461XFS	51.4	—	—	29	1
Credenz	CZ 4202XF	51.3	—	—	26	1
Great Heart Seed	GT-4255XS	51.3	—	—	23	1
Delta Grow	46X65	51.1	77.2	80.8	25	1
Armor	44-D49	50.4	86.1	—	26	1
Armor	46-D09	50.1	85.5	—	25	1
Local Seed Co	LS4606XFS	49.2	—	—	26	1
Asgrow	AG45XF0	48.9	—	—	28	1
MorSoy	MS 4640XF	48.7	—	—	26	1
NK Brand	NK45-P9XF	48.5	—	—	31	1
AgriGold	G4615XF	48.1	—	—	24	1
Progeny Ag	P 4505RXS	48.0	86.5	—	26	1
Dyna-Gro	S46XS60	48.0	74.6	74.1	23	1
Great Heart Seed	GT-4681XFS	48.0	—	—	26	1
Innvictis Seed	A 4111XF	47.4	—	—	23	1
Beck's Hybrids	4119X2	47.0	—	—	25	1
Credenz	CZ 4562XF	46.6	—	—	31	1
Great Heart Seed	GT-4677XS	45.9	76.2	76.3	22	1
NK Brand	S44-C7X	45.5	80.5	80.6	22	1
Innvictis Seed	A 4690XF	43.9	—	—	24	1
AgriGold	G4620RX	43.9	80.0	—	26	1
Pioneer	P46A86X	43.6	82.3	—	26	1
Innvictis Seed	A 4618X	43.5	83.9	83.7	28	1
Progeny Ag	P 4604XFS	43.5	—	—	27	1
Delta Grow	46F17/STS	42.3	—	—	25	1
Progeny Ag	P 4521XFS	41.8	—	—	27	1
Local Seed Co	LS4517XFS	41.4	—	—	24	1
DonMario	DM46F62	40.6	—	—	22	1
Dyna-Gro	S43XS70	40.0	—	—	18	1
Innvictis Seed	A 4571XF	40.0	—	—	24	1
Asgrow	AG44XF2	39.7	—	—	24	1
DonMario	DM42F62S	39.1	—	—	24	1
Dyna-Gro	S46XF31S	38.8	—	—	25	1
Armor	46-F13	38.6	—	—	28	1
NK Brand	NK39-A1XF	36.0	—	—	18	1
Local Seed Co	LS4415XF	34.1	—	—	24	1
Mean		47.1				
CV		14.9				
R ²		57.0				
LSD (0.05)		11.4				
Error DF		86				

Table 41. Maturity Group IV L Xtend Irrigated Soybean Varieties (Steele Farms, Longwood).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	LS4919XFS	63.3	—	—	25	1
Beck's Hybrids	4885XF	61.7	—	—	24	1
Asgrow	AG47XF2	58.9	—	—	24	1
Delta Grow	49F22/STS	58.9	—	—	27	1
Asgrow	AG48XF2	58.0	—	—	23	1
Delta Grow	48F20	58.0	—	—	27	1
USG	7491XFS	57.9	—	—	27	1
MorSoy	MS 4850 XF/STS	57.1	—	—	25	1
Local Seed	LS4795XS	55.8	75.7	—	24	1
Progeny Ag	P 4816RX	55.6	86.7	86.8	24	1
Credenz	CZ 4742XF	54.5	—	—	33	1
Dyna-Gro	S48XT90	53.8	80.1	—	27	1
Progeny Ag	P 4851RX	53.6	69.7	81.2	29	1
Innictis Seed	A 4850XF	52.7	—	—	27	1
Asgrow	AG48XF0	51.4	—	—	24	1
DonMario	DM48F61	51.2	—	—	24	1
USG	7481XF	50.8	—	—	29	1
Credenz	CZ 4892XF	50.4	—	—	24	1
Innictis Seed	A 4831XF	50.1	—	—	26	1
Great Heart Seed	GT-4841XFS	49.6	—	—	24	1
AgriGold	G4813XF	49.5	—	—	24	1
Beck's Hybrids	4991X2	49.2	—	—	23	1
Delta Grow	48X45	49.1	79.4	84.8	27	1
Armor	48-D25	49.1	76.0	80.3	24	1
Pioneer	P47A64X	48.8	—	—	30	1
NK Brand	S49-F5X	48.6	81.4	85.1	24	1
Progeny Ag	P 4821RX	48.1	70.5	74.8	27	1
Local Seed	LS4718XF	48.0	—	—	30	1
Local Seed	LS4805XFS	48.0	—	—	25	1
Armor	48-D03	46.0	—	—	28	1
Progeny Ag	P 4806XFS	45.5	—	—	25	1
Great Heart Seed	GT-4750XFS	45.0	—	—	25	1
Great Heart	GT-4979X	44.9	—	—	30	1
Progeny Ag	P 4970RX	44.6	77.7	—	24	1
Progeny Ag	P 4921XFS	44.5	—	—	26	1
Dyna-Gro	S49XT70	44.0	78.5	81.6	30	1
Innictis Seed	A 4950X	43.8	78.3	82.9	30	1
Innictis Seed	A 4791XF	43.6	—	—	25	1
Local Seed	LS4806XS	43.3	—	—	26	1
Great Heart Seed	GT-4828X	43.1	82.0	—	25	1
Armor	48-F22	43.1	—	—	27	1
Credenz	CZ 4912XF	41.3	—	—	36	1
Asgrow	AG47XF0	40.4	—	—	28	1
AgriGold	G4820RX	37.5	74.0	—	25	1
Local Seed	LS4707XF	35.2	—	—	24	1
Mean		49.5				
CV		17.9				
R ²		44.0				
LSD (0.05)		14.3				
Error DF		88				

Table 42. Maturity Group V Xtend Irrigated Soybean Varieties (Steele Farms, Longwood).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Inn victis Seed	A5558X	83.9	—	—	29	1
Progeny Ag	P 5554RX	73.4	94.5	86.8	28	1
Pioneer	P53A67X	71.9	90.0	—	22	1
Dyna-Gro	S56XT99	71.7	89.9	90.9	29	1
Asgrow	AG55XF0	70.9	—	—	27	1
Great Heart Seed	GT-5214X	66.0	82.6	—	29	1
Progeny Ag	P 5252RX	65.0	88.3	88.2	30	1
Delta Grow	54F20	64.5	—	—	25	1
Progeny Ag	P 5425XF	63.8	—	—	28	1
Local Seed	LS5614XF	63.2	—	—	23	1
Local Seed	LS5418XFS	62.3	—	—	33	1
Inn victis Seed	A5341XF	60.4	—	—	25	1
Credenz	CZ 5282XF	59.0	—	—	30	1
Local Seed	LS5009XS	58.7	88.9	—	31	1
Asgrow	AG56XF2	58.4	—	—	29	1
DonMario	DM51X61	58.2	88.8	—	30	1
NK Brand	NK57-A3XF	57.5	—	—	22	1
Delta Grow	52X05/STS	57.3	88.9	88.0	31	1
Progeny Ag	P 5016RXS	56.3	81.8	75.9	28	1
Progeny Ag	P 5003XF	56.3	—	—	25	1
NK Brand	S53-F7X	56.1	82.1	80.9	29	1
Asgrow	AG53XF2	56.0	—	—	24	1
Credenz	CZ 5552XF	55.7	—	—	28	1
Beck's Hybrids	5005XF	54.4	—	—	27	1
Great Heart Seed	GT-5417X	50.7	79.1	—	20	1
Local Seed	LS5119XF	50.2	—	—	24	1
Inn victis Seed	A5451XF	49.9	—	—	25	1
Dyna-Gro	S52XT91	46.5	—	—	28	1
Local Seed	LS5386X	45.6	76.5	78.0	30	1
Mean		60.1				
CV		21.5				
R ²		40.6				
LSD (0.05)		21.2				
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 emerged to a good stand. Rainfall during the growing season supplied enough soil moisture to provide

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

Planting date ... May 19

Harvest date October 20 (all groups)

Soil type Collins silt loam

Soil pH 6.2

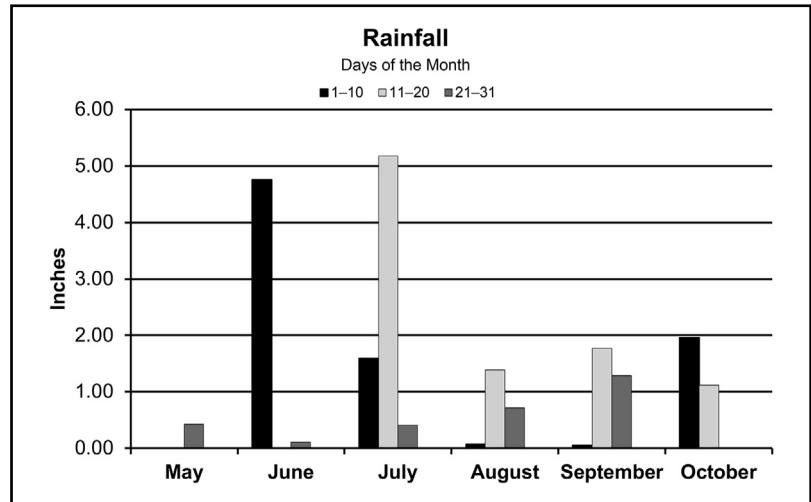
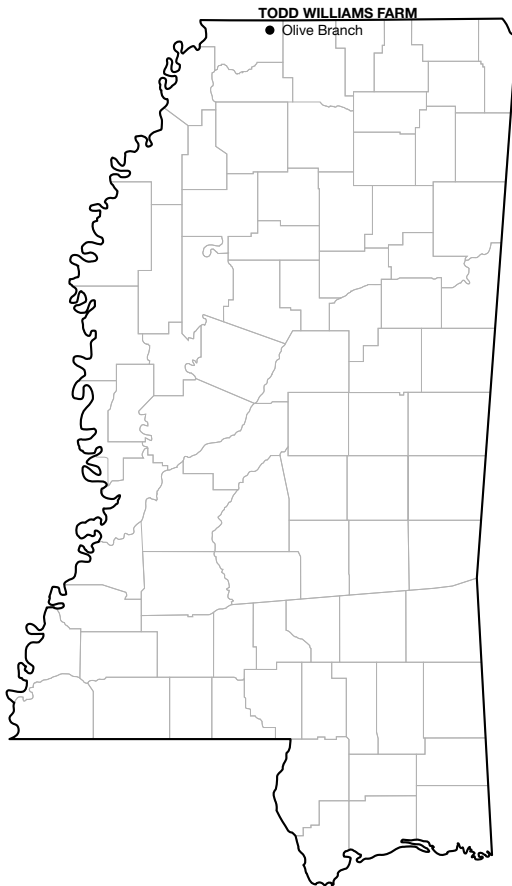
Soil fertility P=H, K=H

Previous crop ... Corn

Fertilizer Preplant — 0-30-90-15S-1B

Herbicide Preemergence — Valor @ 2 oz/A and Anthem Max @ 2.44 oz/A on May 19

Postemergence — Select Max @ 16 oz/A, FirstRate @ 0.3 oz/A, and Dual II Magnum at 24 oz/A on June 28



Rainfall Summary

	Inches
May.....	0.42
June.....	4.86
July.....	7.18
August.....	2.18
September	3.11
October	3.08
Total	20.83

Table 43. Maturity Group IV E Xtend Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
DonMario	DM45X61	104.5	91.3	—	42	1
Innictis Seed	A 4618X	101.1	92.1	87.7	49	1
Dyna-Gro	S46XF31S	99.2	—	—	39	1
Armor	44-D49	97.5	96.6	—	45	3
Progeny Ag	P 4505RXS	97.3	90.6	—	43	3
Great Heart Seed	GT-4681XFS	96.4	—	—	43	3
MorSoy	MS 4640XF	96.3	—	—	44	2
Innictis Seed	A 4690XF	95.9	—	—	41	2
Dyna-Gro	S46XS60	95.9	94.6	83.7	41	2
Local Seed Co	LS4606XFS	95.5	—	—	42	1
AgriGold	G4620RX	94.9	89.8	—	38	1
MorSoy	MS 4531XF	94.5	—	—	42	2
Delta Grow	46X65	94.2	90.8	83.7	38	2
USG	7461XFS	94.0	—	—	41	1
Progeny Ag	P 4604XFS	93.4	—	—	43	2
DonMario	DM42F62S	93.3	—	—	43	2
Armor	46-F13	92.2	—	—	41	2
Armor	46-D09	91.6	87.5	—	40	1
Great Heart Seed	GT-4677XS	90.7	84.0	83.1	37	2
Pioneer	P46A86X	90.0	94.4	—	45	2
Progeny Ag	P 4521XFS	89.9	—	—	42	3
MorSoy	MS 4681 RXT	89.6	—	—	44	1
AgriGold	G4615XF	89.3	—	—	38	1
Local Seed Co	LS4415XF	89.1	—	—	37	2
Progeny Ag	P 4501XFS	88.1	—	—	44	4
Beck's Hybrids	4119X2	88.0	—	—	37	1
NK Brand	NK45-P9XF	87.6	—	—	42	3
Innictis Seed	A 4371XF	87.1	—	—	40	3
Great Heart Seed	GT-4344XF	86.5	—	—	41	3
NK Brand	S44-C7X	86.1	88.9	87.1	36	1
Dyna-Gro	S43XS70	85.5	—	—	41	1
Asgrow	AG45XF0	84.7	—	—	38	4
Innictis Seed	A 4571XF	84.5	—	—	34	2
NK Brand	NK43-V8XF	83.9	—	—	42	2
DonMario	DM46F62	83.5	—	—	39	1
Asgrow	AG46XF2	82.3	—	—	37	4
Local Seed Co	LS4517XFS	82.1	—	—	39	3
Innictis Seed	A 4111XF	82.0	—	—	41	3
Great Heart Seed	GT-4255XS	80.2	—	—	38	1
Delta Grow	46F17/STS	79.7	—	—	40	3
Asgrow	AG44XF2	78.8	—	—	41	1
Credenz	CZ 4562XF	73.6	—	—	43	2
NK Brand	NK39-A1XF	63.1	—	—	38	1
Credenz	CZ 4202XF	61.7	—	—	42	4
Mean		88.5				
CV		6.4				
R ²		77.0				
LSD (0.05)		9.2				
Error DF		86				

Table 44. Maturity Group IV L Xtend Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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-D03	103.5	—	—	39	1
Armor	48-D25	100.6	98.4	92.3	38	2
Local Seed	LS4795XS	96.2	86.3	—	36	2
Progeny Ag	P 4816RX	96.1	89.7	86.0	38	2
Innvictis Seed	A 4950X	95.6	84.7	80.4	38	1
Innvictis Seed	A 4831XF	94.9	—	—	47	2
Armor	48-F22	93.9	—	—	38	1
Beck's Hybrids	4885XF	93.8	—	—	43	1
DonMario	DM48F61	93.5	—	—	40	1
Local Seed	LS4718XF	93.4	—	—	39	1
Dyna-Gro	S48XT90	92.9	89.0	—	41	1
Asgrow	AG47XF0	92.8	—	—	36	2
Asgrow	AG47XF2	92.7	—	—	39	2
Asgrow	AG48XF0	92.6	—	—	36	2
Local Seed	LS4806XS	92.5	—	—	37	1
Local Seed	LS4805XFS	91.1	—	—	36	1
Local Seed	LS4919XFS	91.1	—	—	44	1
AgriGold	G4820RX	90.9	84.9	—	38	1
Delta Grow	48X45	90.4	85.9	82.5	40	1
Dyna-Gro	S49XT70	89.9	82.1	80.9	40	1
Delta Grow	48F20	88.5	—	—	41	1
Beck's Hybrids	4991X2	88.3	—	—	38	1
Progeny Ag	P 4806XFS	88.1	—	—	38	1
Progeny Ag	P 4970RX	87.3	82.1	—	40	1
MorSoy	MS 4850 XF/STS	86.8	—	—	39	1
Progeny Ag	P 4821RX	86.8	79.0	80.4	41	4
Great Heart Seed	GT-4828X	86.5	81.2	—	44	1
Asgrow	AG48XF2	86.4	—	—	41	1
USG	7491XFS	85.8	—	—	39	1
Pioneer	P47A64X	85.8	—	—	38	1
Progeny Ag	P 4851RX	85.1	77.6	74.9	39	2
AgriGold	G4813XF	85.0	—	—	37	1
Innvictis Seed	A 4791XF	84.0	—	—	42	3
NK Brand	S49-F5X	83.9	83.6	83.8	41	1
Progeny Ag	P 4921XFS	83.9	—	—	41	1
Great Heart	GT-4979X	83.8	—	—	45	1
Delta Grow	49F22/STS	83.6	—	—	40	1
Local Seed	LS4707XF	83.2	—	—	38	1
Great Heart Seed	GT-4750XFS	80.4	—	—	38	1
Great Heart Seed	GT-4841XFS	80.1	—	—	40	1
Credenz	CZ 4912XF	79.9	—	—	45	1
Credenz	CZ 4892XF	77.8	—	—	38	1
Innvictis Seed	A 4850XF	77.8	—	—	39	1
USG	7481XF	74.9	—	—	47	1
Credenz	CZ 4742XF	74.6	—	—	40	1
Mean		88.2				
CV		8.9				
R ²		53.0				
LSD (0.05)		12.9				
Error DF		88				

Table 45. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Innvictis Seed	B 4141E	87.9	—	—	40	2
Pioneer	P49T62E	87.1	82.8	—	36	1
Delta Grow	48E49/STS	86.8	77.1	76.7	33	1
Dyna-Gro	S45ES10	86.6	—	—	42	2
Delta Grow	47E20/STS	85.9	75.1	—	42	3
Innvictis Seed	B 4681E	85.8	—	—	42	1
Innvictis Seed	B 4841E	83.9	—	—	40	2
Dyna-Gro	S49EN79	83.8	—	—	39	2
Dyna-Gro	S46ES91	82.9	—	—	33	3
Pioneer	P46T51E	82.9	—	—	44	2
DonMario	DM48E62S	82.9	—	—	45	1
Delta Grow	48E59	82.7	—	—	34	2
Delta Grow	49E20	82.4	—	—	33	1
Delta Grow	46E10	82.4	—	—	34	2
Progeny Ag	P 4931E3S	79.7	—	—	42	1
Progeny Ag	P 4775E3S	79.6	80.0	—	39	1
Progeny Ag	P 4541E3S	70.9	—	—	40	3
Mean		83.2				
CV		9.5				
R ²		32.0				
LSD (0.05)		13.2				
Error DF		32				

Table 46. Maturity Group V Xtend Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	S52XT91	93.7	—	—	38	1
Pioneer	P53A67X	92.0	90.1	—	25	2
Progeny Ag	P 5016RXS	91.1	79.9	75.5	38	3
NK Brand	S53-F7X	88.8	85.1	84.7	46	1
Beck's Hybrids	5005XF	88.3	—	—	37	1
Local Seed	LS5009XS	88.2	86.0	—	39	1
Delta Grow	54F20	88.2	—	—	33	1
Dyna-Gro	S56XT99	87.9	85.0	80.7	34	1
Great Heart Seed	GT-5417X	87.5	79.6	—	39	1
Innvictis Seed	A5341XF	87.2	—	—	31	1
Progeny Ag	P 5554RX	85.9	86.0	80.2	34	2
Asgrow	AG53XF2	85.7	—	—	43	2
Local Seed	LS5614XF	85.4	—	—	34	1
DonMario	DM51X61	85.1	80.8	—	39	2
Innvictis Seed	A5451XF	84.1	—	—	31	1
NK Brand	NK57-A3XF	83.9	—	—	31	3
Local Seed	LS5386X	83.8	82.3	79.3	41	2
Credenz	CZ 5552XF	83.6	—	—	40	1
Asgrow	AG55XF0	83.5	—	—	36	1
Asgrow	AG56XF2	83.4	—	—	36	1
Progeny Ag	P 5425XF	83.4	—	—	34	1
Innvictis Seed	A5558X	82.6	—	—	36	3
Delta Grow	52X05/STS	82.0	79.3	77.3	40	2
Progeny Ag	P 5003XF	81.8	—	—	38	4
Progeny Ag	P 5252RX	81.3	82.3	80.1	39	3
Local Seed	LS5418XFS	80.6	—	—	45	1
Local Seed	LS5119XF	78.9	—	—	38	1
Credenz	CZ 5282XF	74.8	—	—	45	1
Great Heart Seed	GT-5214X	65.3	64.6	—	38	4
Mean		84.4				
CV		7.6				
R ²		53.0				
LSD (0.05)		10.5				
Error DF		56				

Table 47. Maturity Group V Enlist Nonirrigated Soybean Varieties (Todd Williams Farm, Olive Branch).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny	P 5521E3S	94.8	—	—	34	2
Progeny	P 5121E3S	87.9	—	—	30	1
Innvictis Seed	B 5401E	84.2	—	—	50	1
DonMario	DM51E62S	82.0	—	—	35	1
Delta Grow	53E30	76.5	—	—	34	1
Mean		85.1				
CV		18.4				
R ²		36.0				
LSD (0.05)		NS				
Error DF		8				
¹ No 2 or 3-year average						

STONEVILLE (clay) IRRIGATED, DELTA BRANCH

Crop Summary

The soybean plots were planted flat into a stale seedbed in late April. All plots quickly emerged to a good stand. Timely rainfall and irrigation at necessary times during

the growing season allowed for adequate soil moisture throughout the season. Harvest was completed in a timely manner without difficulty.

Planting date . . . April 30

Harvest date . . . October 6 (all groups)

Soil type Sharkey clay

Soil pH 7.0

Soil fertility P=H, K=H

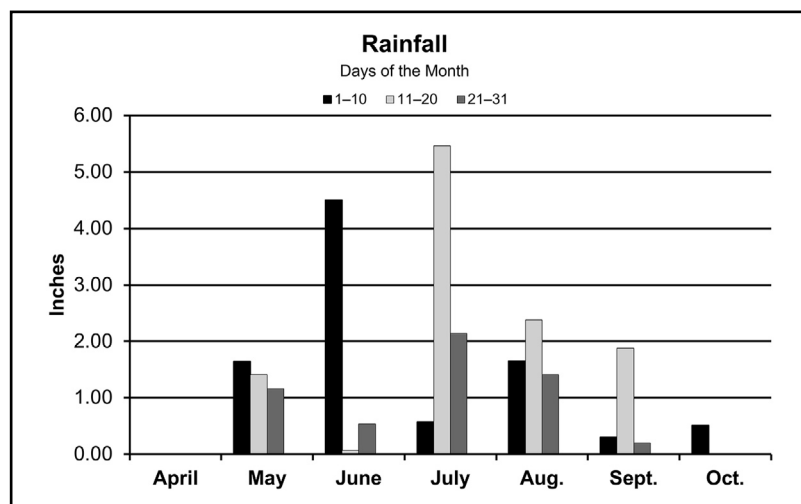
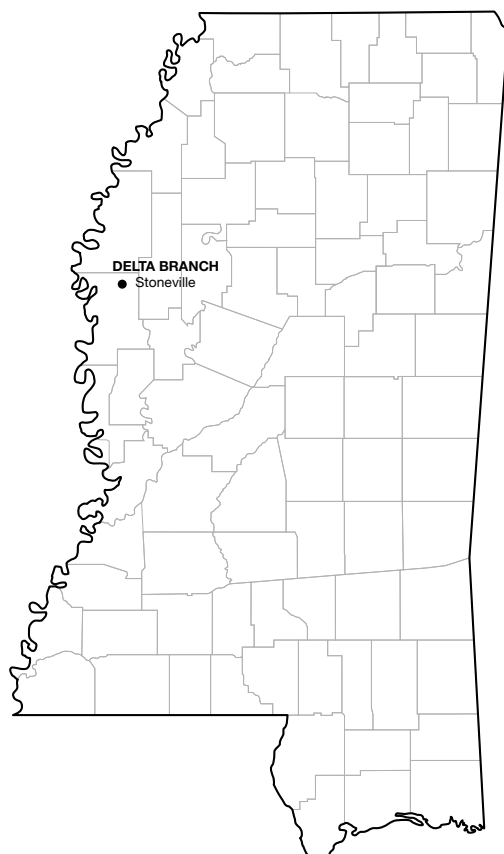
Previous crop . . . Soybeans

Irrigation Furrow irrigated as needed

Herbicide Preemergence — Authority Edge @ 7 oz/A, Dual II Magnum @ 32 oz/A, and Gramoxone @ 32 oz/A on April 30

Postemergence — (Enlist/Xtend) FirstRate @ 0.3 oz/A, Prefix @ 24 oz/A, and Roundup

PowerMax @ 32 oz/A on June 25; (Conventional) FirstRate @ 0.6 oz/A, Prefix @ 24 oz/A, and Select Max @ 16 oz/A on June 25



Rainfall Summary

	Inches
April	0.00
May	4.21
June	5.11
July	8.17
August	5.44
September	2.38
October	0.51
Total	25.82

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

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	89.1	77.8	—	33	1
Progeny Ag	P 4501XFS	88.6	—	—	29	2
MorSoy	MS 4681 RXT	88.4	—	—	27	1
Pioneer	P46A86X	87.9	79.7	—	31	1
Innictis Seed	A 4690XF	87.1	—	—	25	1
Progeny Ag	P 4604XFS	86.9	—	—	31	1
DonMario	DM45X61	86.7	80.7	—	34	1
Armor	46-F13	86.6	—	—	29	1
Armor	44-D49	85.7	78.4	—	28	1
MorSoy	MS 4531XF	85.4	—	—	34	1
Delta Grow	46X65	84.4	76.7	72.3	27	1
Local Seed Co	LS4517XFS	83.9	—	—	26	1
Great Heart Seed	GT-4344XF	83.9	—	—	23	1
Innictis Seed	A 4371XF	83.5	—	—	26	1
Asgrow	AG46XF2	83.3	—	—	25	1
NK Brand	NK45-P9XF	82.2	—	—	29	1
Local Seed Co	LS4415XF	82.0	—	—	23	1
USG	7461XFS	81.3	—	—	22	1
Credenz	CZ 4202XF	81.0	—	—	31	2
Delta Grow	46F17/STS	80.6	—	—	24	1
Beck's Hybrids	4119X2	80.3	—	—	23	1
Credenz	CZ 4562XF	80.0	—	—	32	2
Local Seed Co	LS4606XFS	79.8	—	—	31	1
MorSoy	MS 4640XF	79.5	—	—	28	1
Progeny Ag	P 4521XFS	79.3	—	—	32	1
Dyna-Gro	S46XF31S	78.7	—	—	24	1
Innictis Seed	A 4618X	78.4	77.0	72.7	35	1
Armor	46-D09	78.1	76.6	—	28	1
NK Brand	NK43-V8XF	77.6	—	—	26	1
AgriGold	G4620RX	77.4	77.0	—	27	1
Asgrow	AG45XF0	77.0	—	—	20	1
Great Heart Seed	GT-4677XS	75.0	75.3	71.2	22	1
Dyna-Gro	S46XS60	73.6	70.2	63.8	27	1
Dyna-Gro	S43XS70	73.3	—	—	20	1
Innictis Seed	A 4111XF	71.8	—	—	27	1
DonMario	DM46F62	71.5	—	—	28	1
Innictis Seed	A 4571XF	71.0	—	—	28	1
DonMario	DM42F62S	70.6	—	—	22	1
Great Heart Seed	GT-4681XFS	70.6	—	—	26	1
AgriGold	G4615XF	69.5	—	—	25	1
Great Heart Seed	GT-4255XS	68.7	—	—	25	1
Asgrow	AG44XF2	63.3	—	—	26	1
NK Brand	S44-C7X	62.5	70.0	65.9	21	1
NK Brand	NK39-A1XF	51.9	—	—	23	1
Mean		78.6				
CV		8.0				
R ²		71.8				
LSD (0.05)		10.2				
Error DF		86				

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

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	P47A64X	94.8	—	—	34	1
Progeny Ag	P 4851RX	91.8	80.9	75.5	34	1
Progeny Ag	P 4806XFS	91.8	—	—	24	1
Innvictis Seed	A 4831XF	86.6	—	—	22	1
Dyna-Gro	S48XT90	86.5	84.9	—	30	1
Armor	48-F22	85.7	—	—	27	1
Delta Grow	48F20	85.6	—	—	27	1
Innvictis Seed	A 4850XF	85.2	—	—	26	1
MorSoy	MS 4850 XF/STS	84.1	—	—	28	1
Delta Grow	48X45	83.6	80.9	74.1	25	1
Local Seed	LS4805XFS	83.4	—	—	20	1
Armor	48-D03	83.1	—	—	27	1
Progeny Ag	P 4970RX	82.7	83.2	—	33	1
NK Brand	S49-F5X	82.4	81.8	75.8	25	1
Local Seed	LS4795XS	82.3	79.9	—	24	1
Great Heart	GT-4979X	82.0	—	—	36	1
USG	7491XFS	81.9	—	—	27	1
Local Seed	LS4806XS	81.6	—	—	32	1
Innvictis Seed	A 4950X	80.9	81.5	72.8	37	2
Dyna-Gro	S49XT70	80.8	80.8	75.6	34	1
Asgrow	AG47XF2	80.8	—	—	25	1
Progeny Ag	P 4816RX	80.0	84.0	76.0	28	1
Beck's Hybrids	4991X2	79.9	—	—	24	1
Beck's Hybrids	4885XF	78.4	—	—	22	1
Innvictis Seed	A 4791XF	78.1	—	—	25	1
Asgrow	AG47XF0	77.4	—	—	27	1
Credenz	CZ 4742XF	76.8	—	—	31	1
AgriGold	G4813XF	76.6	—	—	24	1
Great Heart Seed	GT-4750XFS	76.5	—	—	23	1
Progeny Ag	P 4821RX	76.3	80.4	74.7	27	1
Credenz	CZ 4912XF	75.2	—	—	42	1
Armor	48-D25	75.1	78.2	73.0	29	1
Local Seed	LS4718XF	74.7	—	—	33	1
USG	7481XF	74.4	—	—	28	1
Great Heart Seed	GT-4828X	74.1	77.9	—	34	1
Great Heart Seed	GT-4841XFS	73.8	—	—	30	1
DonMario	DM48F61	73.6	—	—	32	1
AgriGold	G4820RX	73.0	78.9	—	26	1
Progeny Ag	P 4921XFS	73.0	—	—	24	1
Delta Grow	49F22/STS	71.1	—	—	28	1
Asgrow	AG48XF2	70.5	—	—	27	1
Local Seed	LS4707XF	69.1	—	—	24	1
Local Seed	LS4919XFS	69.1	—	—	29	1
Credenz	CZ 4892XF	67.0	—	—	31	1
Asgrow	AG48XF0	67.0	—	—	26	1
Mean		79.1				
CV		8.3				
R ²		62.0				
LSD (0.05)		10.7				
Error DF		88				

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

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Innvictis Seed	B 4841E	76.2	—	—	24	1
Delta Grow	47E20/STS	75.1	76.6	—	32	1
Progeny Ag	P 4775E3S	73.6	79.1	—	33	1
Dyna-Gro	S46ES91	73.3	—	—	31	1
Delta Grow	48E59	72.3	—	—	24	1
Pioneer	P46T51E	71.1	—	—	20	1
Pioneer	P49T62E	70.7	79.0	—	24	1
Dyna-Gro	S45ES10	69.0	—	—	26	1
Progeny Ag	P 4541E3S	68.8	—	—	24	1
Progeny Ag	P 4931E3S	67.9	—	—	29	1
Delta Grow	49E20	64.3	—	—	26	1
Innvictis Seed	B 4141E	62.1	—	—	22	1
Delta Grow	46E10	61.1	—	—	24	1
Innvictis Seed	B 4681E	58.4	—	—	19	1
Delta Grow	48E49/STS	56.3	57.9	56.8	24	1
Dyna-Gro	S49EN79	54.0	—	—	24	1
DonMario	DM48E62S	52.8	—	—	22	1
Mean		66.3				
CV		9.4				
R ²		74.0				
LSD (0.05)		10.4				
Error DF		32				

Table 51. Maturity Group V Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
DonMario	DM51E62S	71.0	—	—	28	1
Progeny	P 5521E3S	67.7	—	—	45	1
Innvictis Seed	B 5401E	65.7	—	—	39	1
Progeny	P 5121E3S	65.5	—	—	28	1
Delta Grow	53E30	60.5	—	—	32	1
Mean		66.1				
CV		12.4				
R ²		33.6				
LSD (0.05)		15.4				
Error DF		8				
¹ No 2- or 3-year average.						

Table 52. Maturity Group V Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	82.6	89.8	—	33	2
Pioneer	P53A67X	79.3	83.3	—	20	1
Progeny Ag	P 5003XF	78.2	—	—	27	2
Innvictis Seed	A5451XF	77.9	—	—	29	1
Progeny Ag	P 5425XF	71.7	—	—	21	1
Local Seed	LS5386X	71.3	78.3	71.5	24	1
Innvictis Seed	A5558X	71.2	—	—	24	1
Beck's Hybrids	5005XF	70.9	—	—	28	1
Delta Grow	54F20	70.3	—	—	18	1
Local Seed	LS5119XF	69.9	—	—	28	1
Innvictis Seed	A5341XF	69.5	—	—	22	1
Progeny Ag	P 5252RX	69.4	80.9	76.4	35	2
DonMario	DM51X61	69.0	82.5	—	29	1
Credenz	CZ 5552XF	68.6	—	—	25	1
Delta Grow	52X05/STS	68.5	79.0	75.1	31	1
Asgrow	AG56XF2	66.9	—	—	32	1
Progeny Ag	P 5554RX	65.9	77.2	70.5	26	1
Asgrow	AG55XF0	65.6	—	—	23	1
Dyna-Gro	S56XT99	64.8	76.1	72.8	18	1
Dyna-Gro	S52XT91	64.7	—	—	26	1
Great Heart Seed	GT-5214X	62.7	73.9	—	36	2
Asgrow	AG53XF2	62.5	—	—	31	1
NK Brand	S53-F7X	61.8	70.3	66.4	27	1
Great Heart Seed	GT-5417X	61.6	74.4	—	29	1
Local Seed	LS5614XF	60.8	—	—	22	1
Local Seed	LS5418XFS	60.7	—	—	29	1
NK Brand	NK57-A3XF	57.4	—	—	23	1
Progeny Ag	P 5016RXS	56.3	66.5	64.0	36	1
Credenz	CZ 5282XF	55.0	—	—	34	1
Mean		67.4				
CV		8.4				
R ²		70.0				
LSD (0.05)		9.3				
Error DF		56				

Table 53. Maturity Group IV Conventional Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	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>
Univ. Of Missouri	S16-5503R *	63.5	—	—	31	1
Univ. Of Missouri	S16-8898C *	61.6	—	—	30	1
Univ. of Missouri	S16-7922C	60.9	73.4	—	26	1
Univ. Of Missouri	S16-12137C *	59.7	—	—	34	2
Univ. Of Missouri	S16-5540R	58.3	72.3	—	26	1
Univ. Of Missouri	S17-2243C *	56.0	—	—	35	1
Univ. Of Missouri	S17-2193C *	55.4	—	—	34	1
Univ. Of Missouri	S09-13608C *	54.7	—	—	30	1
Univ. of Arkansas	R16-253 *	53.1	—	—	32	1
Univ. Of Missouri	S16-14730C	52.3	68.4	60.2	31	1
Univ. of Missouri	S16-11644C	51.5	66.5	—	21	1
Univ. of Arkansas	UA46i20C	48.9	64.5	—	29	1
Uni. of Arkansas	R15-2422 *	48.0	64.6	—	38	4
Mean		55.7				
CV		9.2				
R ²		63.7				
LSD (0.05)		8.6				
Error DF		24				

¹Variety followed by an asterisk indicates an experimental entry.

Table 54. Maturity Group V Conventional Irrigated Soybean Varieties (Delta Branch Station, Stoneville clay, Stoneville).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	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>
Univ. Of Missouri	S16-3747RY	71.1	77.1	—	24	1
Univ. Of Missouri	S16-7840C *	66.3	—	—	30	1
Univ. Of Missouri	S16-9090C *	64.2	—	—	28	1
Univ. Of Missouri	S16-15170C	61.6	75.1	—	34	1
Univ. Of Missouri	S16-14801C *	61.2	—	—	25	1
Univ. Of Missouri	S16-9478C *	59.1	—	—	24	1
Univ. Of Missouri	S16-11651C	58.5	74.6	—	26	1
Univ. Of Missouri	UA54i19GT	54.1	64.3	—	31	1
Univ. of Arkansas	R15-1587 *	53.8	—	—	23	1
Univ. of Arkansas	R13-13997 *	49.9	—	—	25	1
Mean		60.0				
CV		9.6				
R ²		66.0				
LSD (0.05)		9.8				
Error DF		18				
¹ Variety followed by an asterisk indicates an experimental entry.						
² No 3-year average						

STONEVILLE (loam) NONIRRIGATED, DELTA BRANCH

Crop Summary

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

throughout the season allowed for the plots to never stress for moisture. Harvest was completed in a timely manner, and excellent dryland yields were recorded.

Planting date . . . April 21

Harvest date . . . September 24 (all groups)

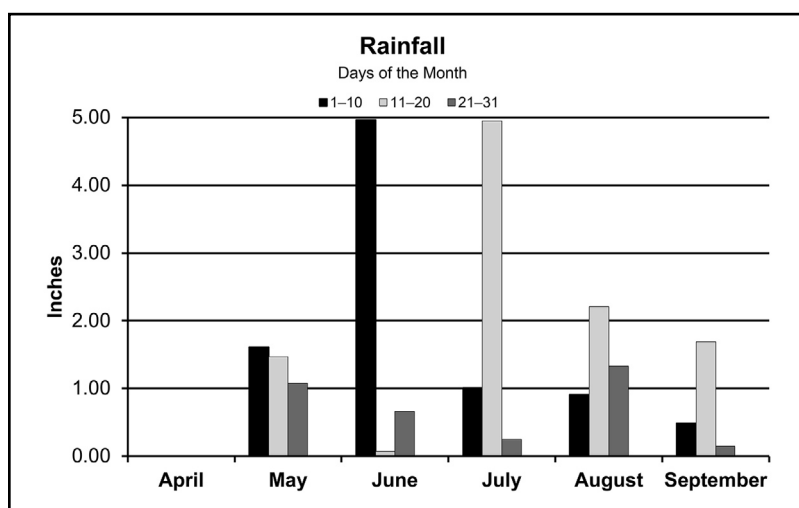
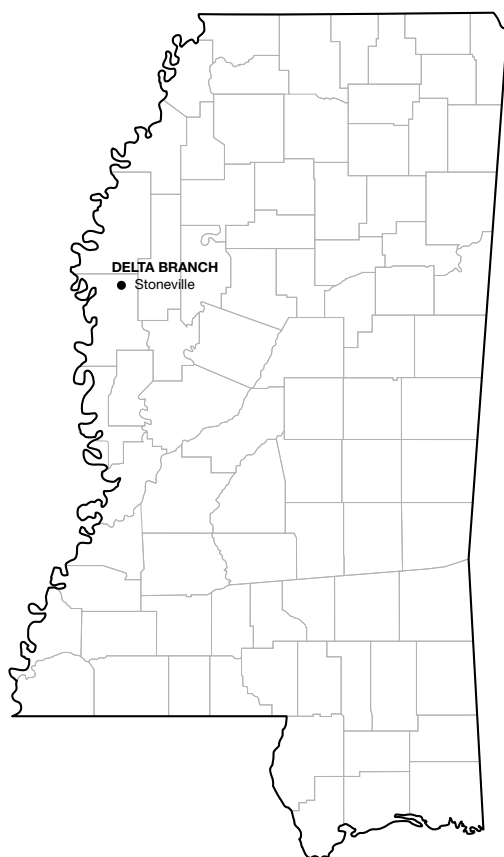
Soil type Bosket very fine sandy loam

Soil pH 6.7

Soil fertility P=H, K=H

Previous crop . . . Soybean

Herbicide Preemergence — Authority Edge @ 7 oz/A, Dual II Magnum @ 24 oz/A, and Gramoxone @ 32 oz/A on April 21



Rainfall Summary

	Inches
April	0.00
May	4.16
June	5.69
July	6.21
August	4.45
September	2.33
Total	22.84

Table 55. Maturity Group IV E Xtend Nonirrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 4604XFS	107.5	—	—	34	1
Delta Grow	46X65	106.2	89.7	85.2	27	1
NK Brand	NK43-V8XF	105.5	—	—	33	1
Beck's Hybrids	4119X2	104.8	—	—	30	1
Innictis Seed	A 4618X	104.3	82.4	85.1	30	1
AgriGold	G4620RX	103.8	87.5	—	34	1
Progeny Ag	P 4505RXS	102.3	88.0	—	35	1
Pioneer	P46A86X	102.3	86.5	—	35	1
Dyna-Gro	S46XF31S	101.7	—	—	35	1
Local Seed Co	LS4517XFS	100.4	—	—	34	1
Progeny Ag	P 4521XFS	98.6	—	—	31	1
Local Seed Co	LS4415XF	97.8	—	—	26	1
DonMario	DM45X61	97.7	86.1	—	34	1
DonMario	DM46F62	96.5	—	—	31	1
Armor	46-F13	96.3	—	—	30	1
Innictis Seed	A 4690XF	94.7	—	—	31	1
NK Brand	NK45-P9XF	94.3	—	—	40	1
AgriGold	G4615XF	93.5	—	—	35	1
Armor	44-D49	93.0	78.9	—	32	1
MorSoy	MS 4681 RXT	91.6	—	—	31	1
Innictis Seed	A 4571XF	91.6	—	—	29	1
Dyna-Gro	S43XS70	89.1	—	—	32	1
Armor	46-D09	89.0	76.2	—	27	1
Great Heart Seed	GT-4681XFS	89.0	—	—	31	1
Local Seed Co	LS4606XFS	87.8	—	—	35	1
Asgrow	AG45XF0	87.4	—	—	25	1
Progeny Ag	P 4501XFS	86.5	—	—	35	1
USG	7461XFS	86.4	—	—	29	1
NK Brand	S44-C7X	85.8	75.9	78.0	26	1
MorSoy	MS 4531XF	85.2	—	—	31	1
Great Heart Seed	GT-4344XF	84.1	—	—	35	1
Credenz	CZ 4562XF	84.0	—	—	32	1
Dyna-Gro	S46XS60	83.4	74.9	73.5	28	1
Credenz	CZ 4202XF	83.1	—	—	34	1
Great Heart Seed	GT-4255XS	82.3	—	—	30	1
Great Heart Seed	GT-4677XS	81.5	69.3	69.3	29	1
Asgrow	AG46XF2	81.4	—	—	32	1
Asgrow	AG44XF2	81.1	—	—	28	1
MorSoy	MS 4640XF	80.4	—	—	27	1
Innictis Seed	A 4371XF	79.8	—	—	31	1
Innictis Seed	A 4111XF	77.5	—	—	24	1
DonMario	DM42F62S	77.2	—	—	34	1
NK Brand	NK39-A1XF	73.3	—	—	26	1
Mean		91.2				
CV		12.0				
R ²		53.0				
LSD (0.05)		18.5				
Error DF		84				

Table 56. Maturity Group IV L Xtend Nonirrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	P47A64X	111.8	—	—	34	1
Progeny Ag	P 4821RX	107.2	81.3	71.7	28	1
Dyna-Gro	S48XT90	103.7	80.4	—	35	1
Armor	48-D03	100.9	—	—	29	1
USG	7481XF	99.3	—	—	32	1
Beck's Hybrids	4885XF	98.7	—	—	28	1
Delta Grow	48X45	98.6	78.4	78.6	28	1
Innvictis Seed	A 4950X	98.2	78.5	75.5	33	1
Progeny Ag	P 4970RX	97.7	73.6	—	33	1
NK Brand	S49-F5X	97.0	79.5	81.0	28	1
Armor	48-F22	96.2	—	—	30	1
Asgrow	AG48XF2	95.7	—	—	23	1
Great Heart Seed	GT-4750XFS	95.2	—	—	28	1
Innvictis Seed	A 4850XF	94.7	—	—	28	1
AgriGold	G4820RX	94.3	71.0	—	30	1
USG	7491XFS	93.9	—	—	32	1
Local Seed	LS4707XF	93.1	—	—	31	1
Innvictis Seed	A 4791XF	93.0	—	—	28	1
Delta Grow	48F20	92.2	—	—	29	1
Great Heart	GT-4979X	91.8	—	—	28	1
Progeny Ag	P 4816RX	91.5	69.0	71.1	30	1
Great Heart Seed	GT-4828X	91.4	72.2	—	29	1
MorSoy	MS 4850 XF/STS	91.3	—	—	29	1
Progeny Ag	P 4851RX	91.2	73.7	74.7	32	1
Asgrow	AG47XF2	90.9	—	—	28	1
Innvictis Seed	A 4831XF	90.9	—	—	35	1
Credenz	CZ 4912XF	90.8	—	—	44	1
DonMario	DM48F61	90.7	—	—	34	1
Local Seed	LS4795XS	89.9	75.5	—	28	1
Local Seed	LS4919XFS	89.8	—	—	35	1
Local Seed	LS4806XS	89.2	—	—	31	1
Local Seed	LS4805XFS	89.2	—	—	31	1
Dyna-Gro	S49XT70	89.2	71.6	72.7	38	1
Progeny Ag	P 4806XFS	88.7	—	—	29	1
Progeny Ag	P 4921XFS	87.7	—	—	29	1
Beck's Hybrids	4991X2	86.0	—	—	34	1
Asgrow	AG48XF0	85.4	—	—	26	1
Asgrow	AG47XF0	84.7	—	—	21	1
Credenz	CZ 4742XF	84.1	—	—	35	1
AgriGold	G4813XF	83.1	—	—	28	1
Armor	48-D25	77.3	68.0	73.1	29	1
Great Heart Seed	GT-4841XFS	76.9	—	—	26	1
Credenz	CZ 4892XF	75.3	—	—	27	1
Local Seed	LS4718XF	71.9	—	—	40	1
Mean		91.6				
CV		10.0				
R ²		60.0				
LSD (0.05)		15.7				
Error DF		86				

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

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 4775E3S	93.8	78.5	—	34	1
Progeny Ag	P 4541E3S	93.6	—	—	27	1
Innictis Seed	B 4841E	92.6	—	—	26	1
Pioneer	P49T62E	91.8	75.7	—	28	1
Delta Grow	47E20/STS	91.0	75.8	—	29	1
Dyna-Gro	S46ES91	91.0	—	—	28	1
Progeny Ag	P 4931E3S	90.2	—	—	25	1
Delta Grow	48E59	89.9	—	—	24	1
Dyna-Gro	S45ES10	89.4	—	—	24	1
Innictis Seed	B 4681E	87.7	—	—	26	1
Dyna-Gro	S49EN79	87.1	—	—	27	1
Pioneer	P46T51E	86.8	—	—	27	1
DonMario	DM48E62S	83.0	—	—	26	1
Delta Grow	49E20	82.8	—	—	23	1
Innictis Seed	B 4141E	81.9	—	—	27	1
Delta Grow	48E49/STS	79.9	66.3	71.1	25	1
Delta Grow	46E10	76.8	—	—	24	1
Mean		87.6				
CV		7.9				
R ²		59.0				
LSD (0.05)		11.6				
Error DF		32				

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 30

Harvest date . . . September 24 (all IVs); October 6 (all Vs)

Soil type Bosket very fine sandy loam

Soil pH 6.7

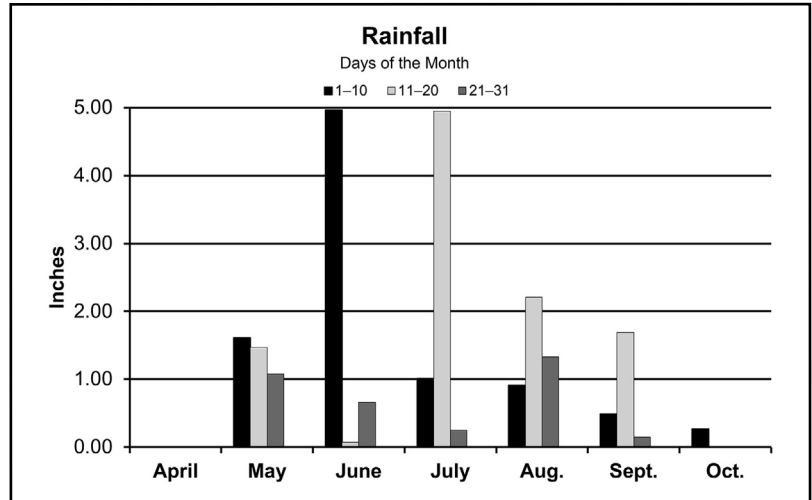
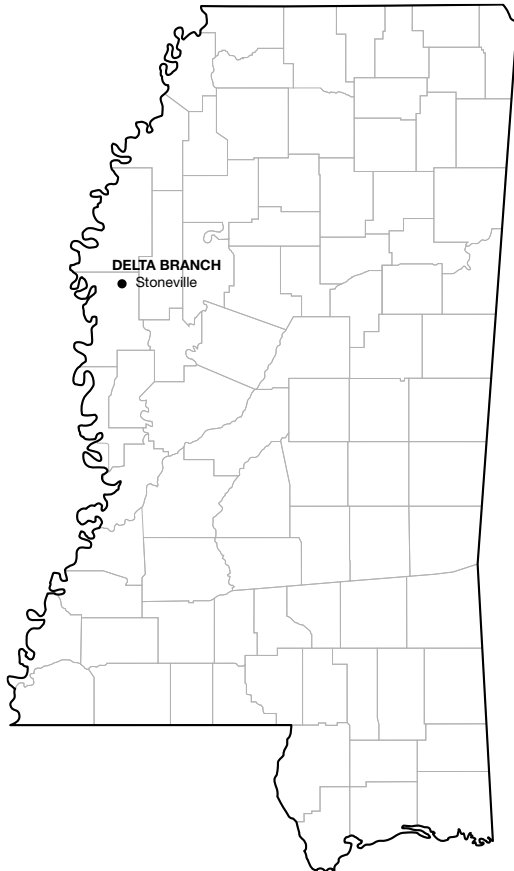
Soil fertility P=H, K=H

Previous crop . . . Corn

Herbicide Preemergence — Authority Edge @ 7 oz/A, Dual II Magnum @ 24 oz/A, and Gramoxone @ 32 oz/A on April 30

Postemergence — Roundup PowerMax @ 32 oz/A, Prefix @ 24 oz/A, and FirstRate @ 0.3 oz/A on June 25

Irrigation Furrow irrigation as needed



Rainfall Summary

	Inches
April	0.00
May	4.16
June	5.69
July	6.21
August	4.45
September	2.33
October	0.26
Total	23.10

Table 58. Maturity Group IV E Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 4604XFS	93.4	—	—	38	2
Local Seed Co	LS4517XFS	92.4	—	—	38	3
Delta Grow	46F17/STS	90.3	—	—	35	1
Innictis Seed	A 4690XF	89.0	—	—	33	1
Dyna-Gro	S46XF31S	88.8	—	—	43	1
Dyna-Gro	S46XS60	88.7	85.8	89.5	37	1
Armor	46-D09	88.7	93.0	—	37	1
DonMario	DM45X61	88.3	90.2	—	47	3
Great Heart Seed	GT-4255XS	88.1	—	—	36	1
NK Brand	S44-C7X	87.7	91.6	93.2	32	1
USG	7461XFS	87.3	—	—	40	1
MorSoy	MS 4531XF	86.9	—	—	40	2
Dyna-Gro	S43XS70	86.8	—	—	43	1
Local Seed Co	LS4606XFS	86.3	—	—	39	2
Delta Grow	46X65	85.7	90.5	93.4	33	1
Progeny Ag	P 4505RXS	85.6	88.4	—	41	2
NK Brand	NK43-V8XF	85.3	—	—	33	1
DonMario	DM42F62S	85.2	—	—	37	2
Innictis Seed	A 4618X	85.0	90.3	90.5	38	1
Armor	44-D49	84.8	90.6	—	39	1
Armor	46-F13	84.4	—	—	41	2
MorSoy	MS 4681 RXT	84.1	—	—	39	2
Great Heart Seed	GT-4681XFS	84.0	—	—	39	1
Great Heart Seed	GT-4344XF	83.6	—	—	39	2
Progeny Ag	P 4521XFS	83.5	—	—	33	1
Innictis Seed	A 4371XF	83.5	—	—	34	1
MorSoy	MS 4640XF	82.9	—	—	37	1
Progeny Ag	P 4501XFS	82.9	—	—	45	2
AgriGold	G4620RX	82.5	91.3	—	37	1
Pioneer	P46A86X	81.4	89.3	—	40	1
Local Seed Co	LS4415XF	80.8	—	—	35	2
DonMario	DM46F62	80.7	—	—	40	3
NK Brand	NK45-P9XF	80.6	—	—	44	2
Beck's Hybrids	4119X2	80.2	—	—	38	1
Asgrow	AG44XF2	79.4	—	—	37	1
Innictis Seed	A 4111XF	78.8	—	—	34	1
Great Heart Seed	GT-4677XS	78.1	88.0	92.0	36	1
Asgrow	AG46XF2	78.1	—	—	37	2
AgriGold	G4615XF	77.8	—	—	38	1
Innictis Seed	A 4571XF	77.4	—	—	35	1
Asgrow	AG45XF0	76.8	—	—	39	2
NK Brand	NK39-A1XF	72.2	—	—	29	1
Credenz	CZ 4562XF	70.7	—	—	43	2
Credenz	CZ 4202XF	69.4	—	—	41	2
Mean		83.4				
CV		5.9				
R ²		64.4				
LSD (0.05)		8.0				
Error DF		86				

Table 59. Maturity Group IV L Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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-4841XFS	90.9	—	—	38	1
Delta Grow	48X45	88.1	86.0	89.4	35	1
NK Brand	S49-F5X	88.0	86.8	89.9	35	1
MorSoy	MS 4850 XF/STS	87.2	—	—	37	1
Innvictis Seed	A 4831XF	87.2	—	—	36	2
Progeny Ag	P 4806XFS	87.0	—	—	39	1
AgriGold	G4813XF	86.9	—	—	40	1
Asgrow	AG47XF0	86.4	—	—	42	1
Delta Grow	48F20	86.0	—	—	35	1
Progeny Ag	P 4821RX	85.9	86.8	87.4	36	2
Armor	48-F22	85.8	—	—	37	1
Pioneer	P47A64X	85.7	—	—	42	1
Local Seed	LS4795XS	85.5	85.9	—	36	2
Great Heart Seed	GT-4750XFS	85.3	—	—	38	1
Armor	48-D03	85.2	—	—	38	1
Armor	48-D25	85.0	86.0	87.7	37	1
Local Seed	LS4805XFS	84.9	—	—	37	1
Progeny Ag	P 4970RX	84.9	92.0	—	43	2
Progeny Ag	P 4851RX	84.9	85.6	87.9	40	3
Innvictis Seed	A 4791XF	84.6	—	—	30	2
Dyna-Gro	S48XT90	84.6	86.1	—	36	1
Beck's Hybrids	4885XF	84.0	—	—	39	1
Asgrow	AG48XF2	83.9	—	—	34	3
Innvictis Seed	A 4850XF	83.8	—	—	37	1
AgriGold	G4820RX	83.7	81.6	—	40	1
Local Seed	LS4806XS	83.6	—	—	38	1
Great Heart	GT-4979X	83.5	—	—	44	2
Progeny Ag	P 4816RX	82.8	88.3	87.7	33	1
USG	7481XF	82.3	—	—	45	2
Local Seed	LS4707XF	81.5	—	—	41	2
Progeny Ag	P 4921XFS	81.1	—	—	35	2
Local Seed	LS4919XFS	80.5	—	—	38	2
USG	7491XFS	80.4	—	—	36	1
Delta Grow	49F22/STS	80.3	—	—	34	1
Credenz	CZ 4892XF	79.5	—	—	41	4
Beck's Hybrids	4991X2	79.3	—	—	35	2
Innvictis Seed	A 4950X	79.1	79.4	85.4	37	2
Dyna-Gro	S49XT70	78.8	77.6	84.6	39	1
DonMario	DM48F61	73.9	—	—	39	3
Local Seed	LS4718XF	73.3	—	—	43	2
Asgrow	AG48XF0	73.3	—	—	43	2
Asgrow	AG47XF2	71.6	—	—	34	1
Credenz	CZ 4742XF	68.8	—	—	42	4
Great Heart Seed	GT-4828X	67.8	75.8	—	40	1
Credenz	CZ 4912XF	67.6	—	—	49	2
Mean		82.1				
CV		6.3				
R ²		63.0				
LSD (0.05)		8.5				
Error DF		88				

Table 60. Maturity Group V Xtend Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 5003XF	89.3	—	—	43	3
Pioneer	P53A67X	86.4	89.8	—	30	1
DonMario	DM51X61	84.3	88.8	—	42	3
Dyna-Gro	S52XT91	81.1	—	—	35	2
Great Heart Seed	GT-5417X	80.5	83.6	—	42	1
Asgrow	AG56XF2	79.7	—	—	38	1
Beck's Hybrids	5005XF	78.4	—	—	39	1
Progeny Ag	P 5425XF	76.9	—	—	30	1
Innvictis Seed	A5451XF	76.3	—	—	30	1
Local Seed	LS5009XS	76.1	83.6	—	47	3
Local Seed	LS5119XF	75.7	—	—	33	1
Innvictis Seed	A5341XF	75.5	—	—	26	1
NK Brand	S53-F7X	75.1	82.2	87.3	37	1
Innvictis Seed	A5558X	74.8	—	—	34	1
Asgrow	AG53XF2	73.8	—	—	42	2
Delta Grow	54F20	73.3	—	—	27	1
Local Seed	LS5386X	72.9	81.2	85.1	47	2
Asgrow	AG55XF0	72.3	—	—	35	1
Dyna-Gro	S56XT99	72.2	80.9	79.5	30	1
Progeny Ag	P 5554RX	72.1	82.1	81.5	31	1
Progeny Ag	P 5016RXS	71.6	79.0	83.7	39	2
Credenz	CZ 5552XF	70.5	—	—	36	1
Delta Grow	52X05/STS	66.4	76.6	78.2	50	4
Local Seed	LS5614XF	65.8	—	—	29	1
NK Brand	NK57-A3XF	65.6	—	—	37	1
Progeny Ag	P 5252RX	64.3	74.6	76.7	50	3
Great Heart Seed	GT-5214X	60.3	74.2	—	44	3
Local Seed	LS5418XFS	59.5	—	—	45	1
Credenz	CZ 5282XF	52.0	—	—	48	2
Mean		73.2				
CV		7.0				
R ²		79.0				
LSD (0.05)		8.5				
Error DF		56				

Table 61. Maturity Group IV Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Innvictis Seed	B 4841E	94.9	—	—	37	3
Innvictis Seed	B 4681E	90.1	—	—	32	1
Delta Grow	48E59	87.9	—	—	33	1
Progeny Ag	P 4931E3S	86.7	—	—	39	3
Pioneer	P46T51E	85.8	—	—	35	1
Dyna-Gro	S45ES10	85.2	—	—	38	1
Innvictis Seed	B 4141E	83.3	—	—	37	4
Pioneer	P49T62E	83.3	83.7	—	39	1
Delta Grow	49E20	83.1	—	—	37	3
Delta Grow	47E20/STS	81.1	80.9	—	44	1
Delta Grow	48E49/STS	80.6	81.0	85.8	39	1
Delta Grow	46E10	79.6	—	—	40	2
Progeny Ag	P 4775E3S	77.7	86.2	—	47	2
Dyna-Gro	S46ES91	76.9	—	—	41	1
DonMario	DM48E62S	76.8	—	—	35	1
Progeny Ag	P 4541E3S	75.2	—	—	50	4
Dyna-Gro	S49EN79	71.1	—	—	42	2
Mean		82.3				
CV		8.5				
R ²		52.0				
LSD (0.05)		11.6				
Error DF		32				

Table 62. Maturity Group V Enlist Irrigated Soybean Varieties (Delta Branch Station, Stoneville loam, Stoneville).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Progeny	P 5521E3S	71.6	—	—	54	3
Delta Grow	53E30	67.3	—	—	44	1
Innictis Seed	B 5401E	66.4	—	—	52	4
Progeny	P 5121E3S	65.8	—	—	40	4
DonMario	DM51E62S	62.2	—	—	40	1
Mean		66.7				
CV		6.4				
R ²		60.2				
LSD (0.05)		8.0				
Error DF		8				
¹ No 2- or 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 speedy germination. All plots quickly emerged to a good stand. Rainfall was sporadic throughout the growing season. This loca-

tion experienced periods of heavy rainfall followed by periods of extremely dry weather. Harvest was completed in a timely manner.

Planting date ... April 21

Harvest date ... September 27

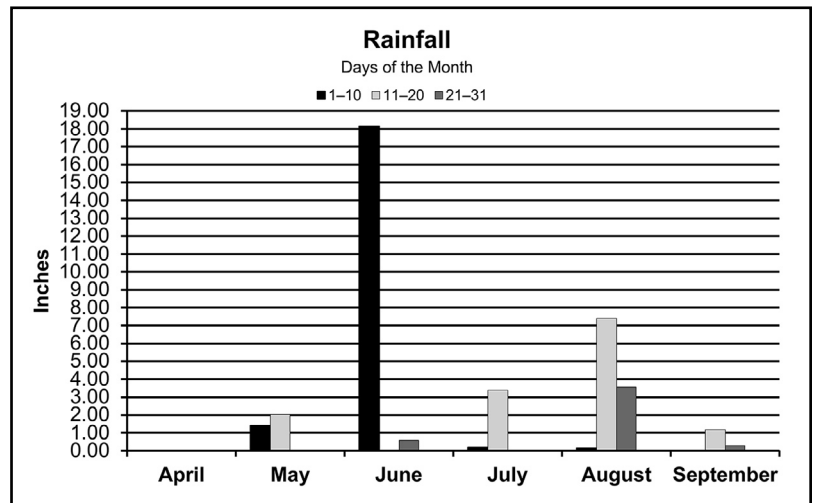
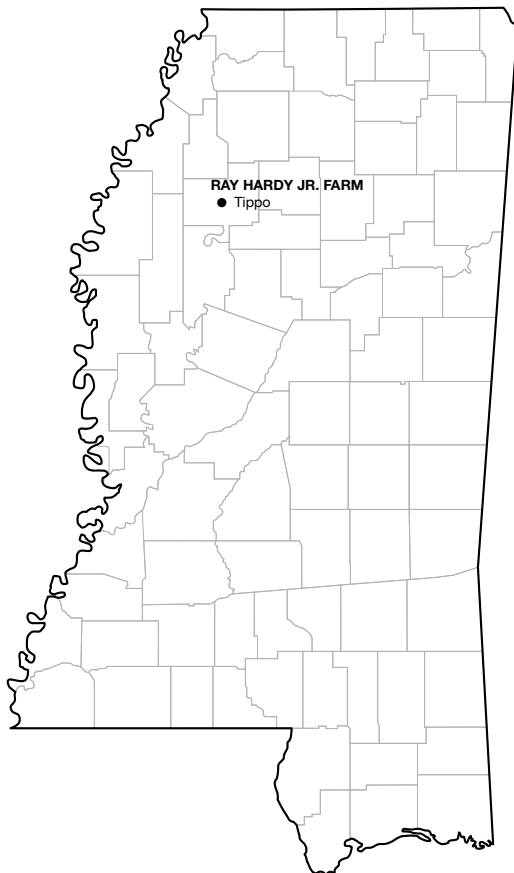
Soil typeDundee & Tensas silt loam

Soil pH6.3

Soil fertilityP=H, K=H

Previous crop ...Soybean

Herbicide Preemergence — Authority Edge @ 7 oz/A, Gramoxone @ 32 oz/A, and Dual II Magnum @ 24 oz/A on April 21



Rainfall Summary

	Inches
April	0.00
May	3.44
June	18.74
July	3.56
August	11.10
September	1.45
Total	38.29

Table 63. Maturity Group IV E Xtend Nonirrigated Soybean Varieties (Ray Hardy Jr. Farm, Tippo).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 Co	LS4415XF	53.2	—	—	23	1
Armor	44-D49	51.9	51.4	—	28	1
NK Brand	NK45-P9XF	51.9	—	—	35	1
Progeny Ag	P 4505RXS	50.5	52.2	—	24	1
MorSoy	MS 4640XF	49.8	—	—	29	1
Innictis Seed	A 4690XF	49.2	—	—	27	1
AgriGold	G4620RX	48.9	48.6	—	30	1
MorSoy	MS 4681 RXT	48.2	—	—	28	1
Progeny Ag	P 4604XFS	47.5	—	—	22	1
Dyna-Gro	S43XS70	47.3	—	—	31	1
USG	7461XFS	47.1	—	—	24	1
AgriGold	G4615XF	46.2	—	—	28	1
DonMario	DM45X61	46.1	48.7	—	28	1
Armor	46-F13	46.1	—	—	23	1
Great Heart Seed	GT-4344XF	46.1	—	—	32	1
Dyna-Gro	S46XF31S	45.7	—	—	26	1
Local Seed Co	LS4517XFS	45.5	—	—	24	1
Great Heart Seed	GT-4681XFS	45.5	—	—	24	1
Innictis Seed	A 4618X	45.5	49.6	54.5	26	1
Local Seed Co	LS4606XFS	44.9	—	—	28	1
MorSoy	MS 4531XF	44.6	—	—	28	1
Progeny Ag	P 4501XFS	43.9	—	—	27	1
NK Brand	NK39-A1XF	43.7	—	—	20	1
Asgrow	AG45XF0	43.7	—	—	24	1
Pioneer	P46A86X	42.8	54.1	—	32	1
Great Heart Seed	GT-4255XS	42.6	—	—	25	1
DonMario	DM46F62	42.5	—	—	28	1
Innictis Seed	A 4571XF	42.2	—	—	18	1
Dyna-Gro	S46XS60	41.8	44.3	50.4	25	1
DonMario	DM42F62S	41.5	—	—	21	1
Great Heart Seed	GT-4677XS	41.5	48.0	52.8	20	1
Progeny Ag	P 4521XFS	40.8	—	—	29	1
Armor	46-D09	40.8	41.2	—	25	1
Innictis Seed	A 4111XF	40.0	—	—	24	1
NK Brand	S44-C7X	39.9	45.0	48.9	25	1
Beck's Hybrids	4119X2	39.6	—	—	27	1
Innictis Seed	A 4371XF	39.4	—	—	27	1
Credenz	CZ 4562XF	39.4	—	—	32	1
Asgrow	AG44XF2	38.2	—	—	25	1
Delta Grow	46X65	38.1	43.9	50.6	22	1
Asgrow	AG46XF2	37.5	—	—	27	1
Credenz	CZ 4202XF	37.3	—	—	24	1
NK Brand	NK43-V8XF	35.9	—	—	31	1
Mean		44.1				
CV		11.0				
R ²		55.4				
LSD (0.05)		7.9				
Error DF		84				

Table 64. Maturity Group IV L Xtend Nonirrigated Soybean Varieties (Ray Hardy Jr. Farm, Tippecanoe).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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-D03	54.3	—	—	28	1
Great Heart	GT-4979X	54.3	—	—	26	1
Dyna-Gro	S48XT90	53.6	49.8	—	26	1
Innvictis Seed	A 4950X	53.4	53.9	58.7	27	1
Progeny Ag	P 4806XFS	53.0	—	—	25	1
Progeny Ag	P 4970RX	52.7	45.9	—	27	1
USG	7491XFS	52.3	—	—	26	1
AgriGold	G4813XF	51.7	—	—	24	1
Dyna-Gro	S49XT70	51.0	48.0	56.8	28	1
MorSoy	MS 4850 XF/STS	50.9	—	—	22	1
Progeny Ag	P 4851RX	49.9	50.6	58.4	26	1
Credenz	CZ 4742XF	49.8	—	—	29	1
Local Seed	LS4805XFS	49.6	—	—	24	1
AgriGold	G4820RX	49.6	51.4	—	26	1
Innvictis Seed	A 4850XF	49.6	—	—	23	1
Pioneer	P47A64X	49.4	—	—	28	1
Local Seed	LS4795XS	49.1	46.7	—	14	1
Delta Grow	48X45	49.0	50.8	55.0	25	1
Innvictis Seed	A 4831XF	48.9	—	—	24	1
Delta Grow	48F20	48.5	—	—	26	1
Local Seed	LS4919XFS	48.3	—	—	25	1
NK Brand	S49-F5X	48.1	52.0	55.9	26	1
Armor	48-F22	48.0	—	—	24	1
Local Seed	LS4707XF	47.8	—	—	26	1
Progeny Ag	P 4821RX	47.6	53.4	58.0	25	1
DonMario	DM48F61	47.2	—	—	28	1
Credenz	CZ 4912XF	47.1	—	—	32	1
Asgrow	AG47XF0	46.8	—	—	22	1
Beck's Hybrids	4885XF	46.8	—	—	24	1
Progeny Ag	P 4921XFS	46.8	—	—	25	1
Local Seed	LS4806XS	46.5	—	—	22	1
Progeny Ag	P 4816RX	46.3	53.6	57.2	23	1
Great Heart Seed	GT-4828X	45.8	47.0	—	27	1
Asgrow	AG48XF0	45.5	—	—	23	1
Great Heart Seed	GT-4841XFS	45.4	—	—	26	1
Asgrow	AG48XF2	45.3	—	—	25	1
Beck's Hybrids	4991X2	44.8	—	—	23	1
Great Heart Seed	GT-4750XFS	44.5	—	—	26	1
USG	7481XF	43.5	—	—	27	1
Armor	48-D25	43.2	48.8	55.6	24	1
Innvictis Seed	A 4791XF	43.0	—	—	20	1
Credenz	CZ 4892XF	42.1	—	—	27	1
Local Seed	LS4718XF	41.7	—	—	25	1
Asgrow	AG47XF2	40.6	—	—	21	1
Mean		48.0				
CV		7.9				
R ²		68.0				
LSD (0.05)		6.2				
Error DF		86				

VERONA, NORTHEAST MISSISSIPPI BRANCH

Crop Summary

The soybean plots were planted into a stale, raised seedbed that had been prepared the previous fall. Soil moisture at planting was adequate for germination. All plots quickly emerged to a good stand. This location

experienced timely rainfall throughout the season. Harvest was completed in a timely manner, and good yields were observed.

Planting dateApril 22

Harvest dateSeptember 29 (all IVs); October 13 (all Vs)

Soil typeLeeper silty clay loam

Soil pH6.5

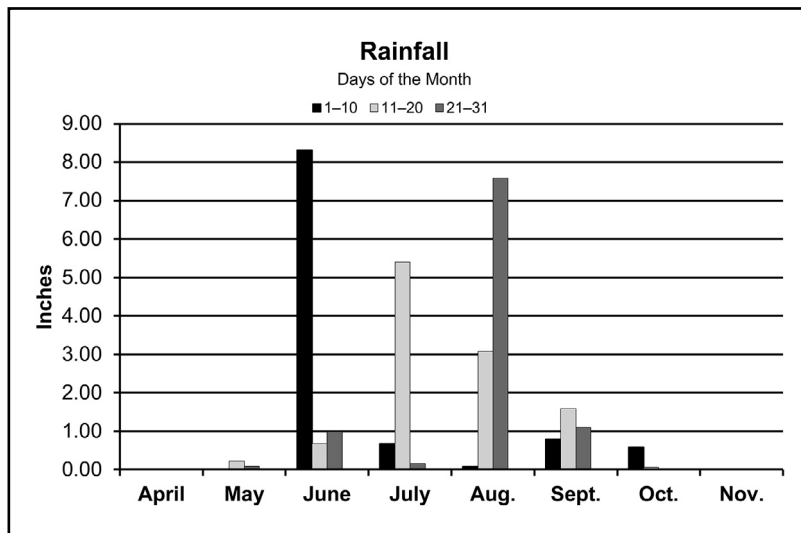
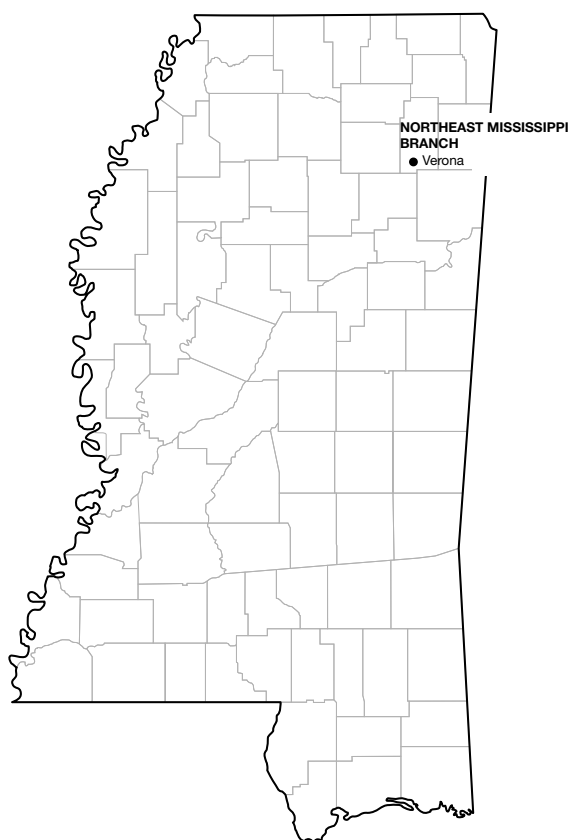
Soil fertilityP=H, K=M

Previous crop ...Soybean

HerbicidePreemergence — Authority Edge @ 7 oz/A and Gramoxone @ 32 oz/A on April 22

Postemergence — Prefix at 24 oz/A, FirstRate @ 0.3 oz/A, and Select Max @ 16 oz/A on June 28

InsecticideAcephate @ 0.75 lb/A and Bifenthrin @ 6.4 oz/A on August 13



Rainfall Summary

	Inches
April	0.02
May	0.32
June	9.98
July	6.23
August	10.75
September	3.48
October	0.64
November	0.00
Total	31.42

Table 65. Maturity Group IV E Xtend Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
DonMario	DM45X61	90.6	86.8	—	36	1
Local Seed Co	LS4606XFS	89.8	—	—	35	2
Great Heart Seed	GT-4677XS	89.8	85.5	82.6	29	1
Dyna-Gro	S46XS60	87.8	87.3	83.1	45	1
AgriGold	G4620RX	87.5	78.5	—	40	1
Progeny Ag	P 4505RXS	86.7	85.1	—	38	2
Progeny Ag	P 4521XFS	85.8	—	—	35	1
Innvictis Seed	A 4618X	84.5	81.0	75.9	36	1
Innvictis Seed	A 4690XF	84.4	—	—	32	1
Delta Grow	46X65	83.5	75.0	76.9	28	1
MorSoy	MS 4640XF	81.3	—	—	35	2
Armor	46-D09	81.2	81.6	—	35	2
MorSoy	MS 4681 RXT	80.4	—	—	36	2
Progeny Ag	P 4501XFS	80.3	—	—	40	3
Local Seed Co	LS4415XF	79.8	—	—	31	1
Armor	44-D49	79.5	82.9	—	33	1
Great Heart Seed	GT-4344XF	79.5	—	—	36	1
Progeny Ag	P 4604XFS	79.5	—	—	38	2
MorSoy	MS 4531XF	78.8	—	—	38	3
Delta Grow	46F17/STS	78.6	—	—	39	3
Beck's Hybrids	4119X2	77.4	—	—	33	1
Innvictis Seed	A 4571XF	76.4	—	—	25	1
AgriGold	G4615XF	76.1	—	—	40	2
Pioneer	P46A86X	75.3	77.3	—	34	1
Dyna-Gro	S46XF31S	74.9	—	—	36	1
DonMario	DM42F62S	74.8	—	—	30	3
DonMario	DM46F62	74.5	—	—	38	2
Armor	46-F13	74.0	—	—	31	1
Credenz	CZ 4562XF	74.0	—	—	35	1
Local Seed Co	LS4517XFS	73.4	—	—	37	3
NK Brand	NK45-P9XF	72.9	—	—	30	1
Great Heart Seed	GT-4681XFS	72.4	—	—	33	1
Credenz	CZ 4202XF	71.7	—	—	31	2
NK Brand	S44-C7X	71.2	71.6	67.4	32	1
Asgrow	AG44XF2	70.6	—	—	33	1
USG	7461XFS	69.2	—	—	31	1
Innvictis Seed	A 4371XF	67.6	—	—	31	1
Great Heart Seed	GT-4255XS	67.5	—	—	34	2
Dyna-Gro	S43XS70	66.8	—	—	34	1
Asgrow	AG46XF2	66.4	—	—	33	2
NK Brand	NK43-V8XF	63.4	—	—	31	1
Innvictis Seed	A 4111XF	62.7	—	—	32	1
Asgrow	AG45XF0	60.8	—	—	29	1
NK Brand	NK39-A1XF	57.9	—	—	34	1
Mean		76.4				
CV		12.4				
R ²		60.6				
LSD (0.05)		15.4				
Error DF		86				

Table 66. Maturity Group IV L Xtend Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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>
Inn victis Seed	A 4950X	90.1	85.1	85.2	34	2
Great Heart	GT-4979X	88.7	—	—	33	1
Armor	48-D03	87.6	—	—	31	1
Dyna-Gro	S49XT70	87.3	81.0	79.8	33	1
Delta Grow	49F22/STS	86.0	—	—	31	1
Credenz	CZ 4912XF	85.6	—	—	43	1
Local Seed	LS4919XFS	85.4	—	—	33	1
Credenz	CZ 4742XF	85.3	—	—	42	3
Progeny Ag	P 4970RX	83.7	81.1	—	30	2
DonMario	DM48F61	83.5	—	—	37	1
Armor	48-F22	80.9	—	—	33	1
Progeny Ag	P 4921XFS	80.5	—	—	33	1
Pioneer	P47A64X	79.8	—	—	36	2
Dyna-Gro	S48XT90	79.7	77.3	—	35	1
Armor	48-D25	79.5	80.0	77.5	34	1
NK Brand	S49-F5X	78.8	78.6	73.6	30	1
Progeny Ag	P 4806XFS	78.5	—	—	29	1
Progeny Ag	P 4851RX	78.0	79.2	80.5	35	2
Inn victis Seed	A 4850XF	77.3	—	—	31	1
Asgrow	AG47XF0	77.2	—	—	30	1
Great Heart Seed	GT-4841XFS	76.7	—	—	33	1
MorSoy	MS 4850 XF/STS	75.9	—	—	27	1
Local Seed	LS4806XS	75.8	—	—	30	1
Great Heart Seed	GT-4828X	75.1	77.5	—	29	1
Credenz	CZ 4892XF	75.1	—	—	34	1
Delta Grow	48X45	74.7	72.4	77.5	30	1
Asgrow	AG48XF2	74.6	—	—	29	2
Progeny Ag	P 4821RX	73.5	69.7	68.5	33	2
Inn victis Seed	A 4831XF	73.2	—	—	31	1
Local Seed	LS4805XFS	73.1	—	—	30	1
AgriGold	G4813XF	72.9	—	—	27	1
Local Seed	LS4718XF	71.7	—	—	37	2
USG	7491XFS	71.7	—	—	34	1
USG	7481XF	71.3	—	—	36	1
Progeny Ag	P 4816RX	71.1	74.4	77.8	30	1
Local Seed	LS4795XS	69.6	72.0	—	27	1
Local Seed	LS4707XF	69.3	—	—	30	1
Delta Grow	48F20	67.7	—	—	33	1
Beck's Hybrids	4885XF	67.6	—	—	28	1
AgriGold	G4820RX	66.5	69.6	—	30	1
Beck's Hybrids	4991X2	66.1	—	—	29	1
Asgrow	AG48XF0	65.9	—	—	30	1
Great Heart Seed	GT-4750XFS	65.0	—	—	28	1
Asgrow	AG47XF2	63.6	—	—	30	1
Inn victis Seed	A 4791XF	63.2	—	—	25	1
Mean		76.1				
CV		6.5				
R ²		81.0				
LSD (0.05)		8.1				
Error DF		88				

Table 67. Maturity Group V Xtend Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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	99.7	92.1	89.5	38	3
Progeny Ag	P 5252RX	98.8	84.2	86.9	40	3
Asgrow	AG56XF2	97.2	—	—	28	1
DonMario	DM51X61	94.6	82.7	—	34	2
Dyna-Gro	S56XT99	94.2	88.7	87.3	26	1
Innvictis Seed	A5558X	93.7	—	—	36	1
Local Seed	LS5009XS	91.4	79.9	—	33	2
Pioneer	P53A67X	88.3	92.1	—	21	1
Credenz	CZ 5282XF	88.2	—	—	39	3
Asgrow	AG55XF0	87.0	—	—	28	1
Progeny Ag	P 5554RX	86.3	80.5	79.8	31	1
Great Heart Seed	GT-5214X	85.9	86.6	—	38	4
Credenz	CZ 5552XF	85.1	—	—	28	1
Local Seed	LS5418XFS	84.7	—	—	36	1
NK Brand	S53-F7X	84.6	92.1	80.5	32	1
Innvictis Seed	A5451XF	80.9	—	—	25	1
Progeny Ag	P 5016RXS	79.4	92.1	67.6	32	1
Local Seed	LS5386X	78.8	71.7	73.7	32	2
Local Seed	LS5614XF	78.6	—	—	26	1
Progeny Ag	P 5425XF	77.6	—	—	23	1
NK Brand	NK57-A3XF	77.1	—	—	24	2
Delta Grow	54F20	76.4	—	—	25	1
Beck's Hybrids	5005XF	74.3	—	—	27	1
Innvictis Seed	A5341XF	73.3	—	—	27	1
Dyna-Gro	S52XT91	73.3	—	—	32	1
Progeny Ag	P 5003XF	71.0	—	—	28	1
Local Seed	LS5119XF	69.7	—	—	32	1
Asgrow	AG53XF2	68.4	—	—	29	1
Great Heart Seed	GT-5417X	64.2	60.2	—	29	1
Mean		82.9				
CV		10.4				
R ²		69.0				
LSD (0.05)		14.1				
Error DF		56				

Table 68. Maturity Group IV Enlist Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2021	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 4931E3S	78.9	—	—	31	2
Dyna-Gro	S46ES91	76.3	—	—	33	1
Delta Grow	49E20	76.2	—	—	31	1
Dyna-Gro	S49EN79	72.5	—	—	26	1
Progeny Ag	P 4775E3S	72.3	69.3	—	32	1
Delta Grow	47E20/STS	67.7	61.9	—	33	1
Delta Grow	48E59	67.2	—	—	28	1
Pioneer	P46T51E	66.3	—	—	28	1
Innvictis Seed	B 4841E	64.6	—	—	28	1
DonMario	DM48E62S	64.5	—	—	31	1
Pioneer	P49T62E	63.1	56.8	—	7	1
Dyna-Gro	S45ES10	58.3	—	—	29	1
Delta Grow	48E49/STS	56.4	51.2	59.6	27	1
Progeny Ag	P 4541E3S	55.9	—	—	33	1
Delta Grow	46E10	55.2	—	—	30	1
Innvictis Seed	B 4141E	51.2	—	—	23	1
Innvictis Seed	B 4681E	50.2	—	—	25	1
Mean		64.5				
CV		9.5				
R ²		87.0				
LSD (0.05)		10.2				
Error DF		32				

Table 69. Maturity Group V Enlist Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety	Yield			Plant height	Lodging score
		2021	2-yr. avg. ¹	3-yr. avg. ¹		
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>1-5</i>
Delta Grow	53E30	73.9	—	—	37	1
DonMario	DM51E62S	80.5	—	—	30	2
Innvictis Seed	B 5401E	104.9	—	—	48	4
Progeny	P 5121E3S	66.2	—	—	31	2
Progeny	P 5521E3S	106.3	—	—	39	4
Mean		86.4				
CV		8.4				
R ²		92.0				
LSD (0.05)		13.6				
Error DF		8				

¹No 2- or 3-year average.

Table 70. Maturity Group IV Conventional Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	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>
Univ. Of Missouri	S16-5503R *	103.0	—	—	31	1
Univ. of Missouri	S16-11644C	99.7	81.8	—	29	1
Univ. of Missouri	S16-7922C	96.9	83.3	—	27	1
Univ. Of Missouri	S17-2193C *	94.7	—	—	31	3
Univ. Of Missouri	S16-5540R	91.7	74.8	—	28	1
Univ. Of Missouri	S16-8898C *	91.5	—	—	30	1
Univ. Of Missouri	S09-13608C *	89.4	—	—	29	1
Univ. Of Missouri	S17-2243C *	82.6	—	—	31	1
Univ. of Arkansas	R16-253 *	79.6	—	—	28	1
Univ. Of Missouri	S16-14730C	75.2	67.3	—	29	1
Univ. of Arkansas	R15-2422 *	73.6	65.8	—	36	4
Univ. of Arkansas	UA46i20C	69.9	58.8	—	31	1
Univ. Of Missouri	S16-12137C *	64.2	—	—	38	3
Mean		85.5				
CV		8.2				
R ²		84.0				
LSD (0.05)		11.8				
Error DF		24				

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

Table 71. Maturity Group V Conventional Nonirrigated Soybean Varieties (Northeast Mississippi Branch, Verona).

Brand	Variety ¹	Yield			Plant height	Lodging score
		2021	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>
Univ. Of Missouri	S16-9090C *	104.7	—	—	25	1
Univ. Of Missouri	S16-15170C	102.2	86.7	—	30	1
Univ. Of Missouri	S16-11651C	99.9	85.5	—	27	1
Univ. Of Missouri	S16-14801C *	96.8	—	—	36	1
Univ. of Arkansas	R15-1587 *	95.8	—	—	30	1
Univ. Of Missouri	S16-7840C *	95.6	—	—	34	1
Univ. Of Missouri	UA54i19GT	95.6	81.2	—	25	1
Univ. of Arkansas	R13-13997 *	88.7	—	—	34	1
Univ. Of Missouri	S16-9478C *	88.2	—	—	36	1
Univ. Of Missouri	S16-3747RY	85.6	71.4	—	30	1
Mean		95.3				
CV		6.3				
R ²		68.0				
LSD (0.05)		10.3				
Error DF		18				

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

PLANT CHARACTERISTICS

Table 72. 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	G4620RX	Tan	Gray	Purple	Imp. Black	3066	4.6	—
AgriGold	G4615XF	Brown	LT	Purple	Black	2637	4.6	—
Armor	46-F13	Brown	LT	Purple	Black	2400	4.6	—
Armor	44-D49	Brown	LT	Purple	Black	2580	4.4	—
Armor	46-D09	Tan	LT	Purple	Black	2840	4.6	—
Asgrow	AG44XF2	Tan	LT	Purple	Black	3170	4.4	—
Asgrow	AG45XF0	Brown	LT	Purple	—	3370	4.5	—
Asgrow	AG46XF2	Brown	LT	White	Black	2850	4.6	—
Beck's Hybrids	4119X2	Tan	Gray	Purple	Imp. Black	2650	4.1	—
Credenz	CZ 4202XF	Tan	Gray	White	Buff	3050	4.2	—
Credenz	CZ 4562XF	Tan	Gray	White	Buff	2685	4.5	—
Delta Grow	46X65	Tan	LT	Purple	Black	2717	4.6	I
Delta Grow	46F17/STS	—	Grey	Purple	Grey	—	4.6	I
DonMario	DM42F62S	—	—	—	—	—	4.2	—
DonMario	DM45X61	—	—	—	—	—	4.5	—
DonMario	DM46F62	—	—	—	—	—	4.6	—
Dyna-Gro	S43XS70	Brown	LT	Purple	Black	2663	4.3	—
Dyna-Gro	S46XS60	Tan	LT	Purple	Black	3440	4.6	—
Dyna-Gro	S46XF31S	Brown	LT	Purple	Black	2685	4.6	—
Great Heart Seed	GT-4255XS	Tan	LT	Purple	Black	2850	4.2	I
Great Heart Seed	GT-4677XS	Tan	LT	Purple	Black	3100	4.6	I
Great Heart Seed	GT-4681XFS	Brown	LT	Purple	Grey	2900	4.6	I
Great Heart Seed	GT-4344XF	Brown	Gray	Purple	Imp. Black	2970	4.3	—
Innictis Seed	A 4111XF	—	—	—	—	—	4.1	—
Innictis Seed	A 4690XF	—	—	—	—	—	4.6	—
Innictis Seed	A 4618X	—	—	—	—	—	4.6	—
Innictis Seed	A 4571XF	—	—	—	—	—	4.5	—
Innictis Seed	A 4371XF	—	—	—	—	—	4.3	—
Local Seed Co.	LS4606XFS	Brown	LT	Purple	—	2503	4.6	—
Local Seed Co.	LS4415XF	—	—	—	—	2739	4.4	—
Local Seed Co.	LS4517XFS	—	—	—	—	2676	4.5	—
MorSoy	MS 4681 RXT	Brown	LT	Purple	Black	2750	4.6	—
MorSoy	MS 4531XF	Tawny	LT	White	Black	—	4.5	—
MorSoy	MS 4640XF	Brown	LT	Purple	Black	2480	4.6	—
NK	NK39-A1XF	—	—	—	—	2645	3.9	—
NK	NK43-V8XF	—	—	—	—	2563	4.3	—
NK	S44-C7X	Tan	Gray	Purple	Imp. Black	3240	4.4	—
NK	NK45-P9XF	—	—	—	—	3080	4.5	—
Pioneer	P46A86X	Brown	Gray	Purple	Buff	2962	4.6	—
Progeny	P 4505RXS	Brown	LT	Purple	Black	2885	4.5	—
Progeny	P 4501 XFS	Brown	LT	Purple	Black	2613	4.5	—
Progeny	P 4604XFS	Brown	LT	Purple	Black	2328	4.6	—
Progeny	P4521XFS	Brown	Grey	White	Buff	—	4.5	—
USG	7461XFS	Brown	LT	Purple	Black	2537	4.6	—

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 IV Late Xtend Soybeans

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
AgriGold	G4820RX	Tan	LT	Purple	Black	2831	4.8	—
AgriGold	G4813XF	Tan	LT	White	Black	2419	4.8	—
Armor	48-F22	Brown	Tawny	White	Black	2054	4.8	—
Armor	48-D25	Tan	LT	Purple	Black	2385	4.8	—
Armor	48-D03	Tan	LT	Purple	Black	2736	4.8	—
Asgrow	AG47XF0	Brown	Tawny	Purple	—	2390	4.7	—
Asgrow	AG47XF2	Brown	LT	Purple	Black	2740	4.7	—
Asgrow	AG48XF0	Brown	LT	Purple	—	2690	4.8	—
Asgrow	AG48XF2	Brown	Tawny	Purple	Black	2470	4.8	—
Beck's Hybrids	4885XF	Brown	Lt. Tan	Purple	Black	2800	4.8	—
Beck's Hybrids	4991X2	Brown	LT	Purple	Black	2700	4.9	—
Credenz	CZ 4742XF	Tan	Gray	Purple	Imp. Black	2220	4.7	—
Credenz	CZ 4892XF	Tan	Tawny	Purple	Black	2450	4.8	—
Credenz	CZ 4912XF	Brown	Grey	White	Buff	2220	4.9	—
Delta Grow	48X45	Tan	LT	Purple	Black	2215	4.8	I
Delta Grow	48F20	Brown	Tawny	White	Black	2380	4.8	—
Delta Grow	49F22/STS	Tan	Grey	White	Buff	—	4.9	I
DonMario	DM48F61	—	—	—	—	—	4.8	—
Dyna-Gro	S48XT90	Tan	LT	Purple	Black	2410	4.8	—
Dyna-Gro	S49XT70	Brown	LT	White	Black	2491	4.9	—
Great Heart Seed	GT-4979X	Tan	LT	Purple	Black	3000	4.9	I
Great Heart Seed	GT-4828X	Tan	LT	White	Black	2925	4.8	I
Great Heart Seed	GT-4841XFS	Brown	LT	White	Black	3020	4.8	I
Great Heart Seed	GT-4750XFS	Tan	LT	Purple	Black	2780	4.7	—
Innqvist Seed	A 4850XF	—	—	—	—	—	4.8	—
Innqvist Seed	A 4791XF	—	—	—	—	—	4.7	—
Innqvist Seed	A 4831XF	—	—	—	—	—	4.8	—
Innqvist Seed	A 4950X	—	—	—	—	—	4.9	—
Local Seed Co.	LS4795XS	Tan	LT	Purple	—	2488	4.7	—
Local Seed Co.	LS4707XF	Tan	LT	White	—	2952	4.7	—
Local Seed Co.	LS4805XFS	Brown	LT	White	—	2733	4.8	—
Local Seed Co.	LS4806XS (LSX4812XS)	Tan	LT	Purple	—	2495	4.8	—
Local Seed Co.	LS4919XFS	—	—	—	—	2731	4.9	—
Local Seed Co.	LS4718XF	—	—	—	—	2901	4.7	—
MorSoy	MS 4850 XF/STS	Brown	LT	White	Black	2400	4.8	—
NK	S49-F5X	Tan	LT	Purple	Black	2749	4.9	—
Pioneer	P47A64X	Brown	Gray	White	Imp. Black	2827	4.7	—
Progeny	P 4816RX	Tan	LT	Purple	Black	2333	4.8	—
Progeny	P 4821RX	Brown	Tawny	Purple	Black	2607	4.8	—
Progeny	P 4851RX	Brown	LT	Purple	Black	2340	4.8	—
Progeny	P 4970RX	Tan	LT	Purple	Black	2295	4.9	—
Progeny	P 4806XFS	Brown	LT	Purple	Black	2218	4.8	—
Progeny	P 4921XFS	Brown	Grey	White	Imp. Black	—	4.9	—
USG	7481XF	Tan	LT	White	Black	3025	4.8	—
USG	7491XFS	Brown	Tawny	White	Black	2307	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 74. Plant Characteristics of Maturity Group IV Enlist Soybeans

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
Delta Grow	48E49 STS	—	Tawny	White	Brown	2978	4.8	I
Delta Grow	47E20	—	Gray	Purple	Imp. Black	2623	4.7	I
Delta Grow	48E59	—	Gray	White	Buff	2651	4.8	I
Delta Grow	49E20	—	Gray	White	Buff	2493	4.9	I
Delta Grow	46E10	—	—	—	—	—	4.6	—
DonMario	DM48E62S	—	—	—	—	—	4.8	—
Dyna-Gro	S45ES10	Brown	Tawny	White	Brown	3000	4.5	—
Dyna-Gro	S46ES91	Brown	Gray	Purple	Imp. Black	2729	4.6	—
Dyna-Gro	S49EN79	—	—	—	—	2796	4.9	—
Innvictis Seed	B 4681E	—	—	—	—	—	4.6	—
Innvictis Seed	B 4141E	—	—	—	—	—	4.1	—
Innvictis Seed	B 4841E	—	—	—	—	—	4.8	—
Pioneer	P49T62E	Brown	Gray	Purple	Imp. Black	2671	4.9	—
Pioneer	P46T51E	—	—	—	—	3092	4.6	—
Progeny	P 4775E3S	Brown	Gray	Purple	Imp. Black	2607	4.7	—
Progeny	P 4931E3S	—	—	—	—	2547	4.9	—
Progeny	4541E3S	—	—	—	—	—	4.5	—

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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 75. 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	AG53XF2	Brown	LT	Purple	Black	2870	5.3	—
Asgrow	AG55XF0	Tan	Tawny	White	—	2980	5.5	—
Asgrow	AG56XF2	Tan	Tawny	White	Black	2930	5.6	—
Beck's Hybrids	5005XF	Brown	Tawny	White	Black	2700	5.0	—
Credenz	CZ 5282XF	Tan	Gray	Purple	Imp. Black	3050	5.2	—
Credenz	CZ 5552XF	Tan	Tawny	Purple	Black	3150	5.5	—
Delta Grow	52X05 STS	Tan	Gray	White	Buff	2795	5.2	—
Delta Grow	54F20	Brown	Tawny	Purple	Black	2720	5.4	—
DonMario	DM51X61	—	—	—	—	—	5.1	—
Dyna-Gro	S52XT91	Tan	Tawny	Purple	Black	2866	5.2	—
Dyna-Gro	S56XT99	Tan	Tawny	White	Black	2434	5.6	—
Great Heart Seed	GT-5214X	Brown	Tan	Purple	Black	2772	5.2	I
Great Heart Seed	GT-5417X	Tan	Tawny	Purple	Black	2146	5.4	I
Innvictis Seed	A 5341XF	—	—	—	—	—	5.3	—
Innvictis Seed	A 5451XF	—	—	—	—	—	5.4	—
Innvictis Seed	A 5558X	—	—	—	—	—	5.5	—
Local Seed Co.	LS5009XS	Tan	LT	Purple	—	2537	5.0	—
Local Seed Co.	LS5386X	Tan	LT	Purple	—	2687	5.3	—
Local Seed Co.	LS5418XFS	—	—	—	—	3000	5.4	—
Local Seed Co.	LS5614XF	—	—	—	—	2550	5.6	—
Local Seed Co.	LS5119XF	—	—	—	—	2533	5.1	—
NK	NK57-A3XF	—	—	—	—	2500	5.7	—
NK	S53-F7X	Brown	Gray	Purple	Imp. Black	2750	5.3	—
Pioneer	P53A67X	Tan	Tawny	White	Black	3140	5.3	—
Progeny	P 5016RXS	Brown	LT	Purple	Black	2815	5.0	—
Progeny	P 5252RX	Tan	Gray	White	Buff	2623	5.2	—
Progeny	P 5003XF	Tan	LT	White	Black	2562	5.0	—
Progeny	P 5425XF	Brown	Tawny	Purple	Black	3172	5.4	—
Progeny	P 5554RX	Tan	Tawny	White	Black	—	5.5	—

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 76. Plant Characteristics of Maturity Group V Enlist Soybeans

Brand	Variety	Color				Seeds ¹	Growth	
		Bloom	Pubescence	Pod wall	Hilum		D/I ²	RM ³
Delta Grow	53E30	—	Grey	Purple	Grey	—	5.3	Semi
Don Mario	DM51E62S	—	—	—	—	—	5.1	—
Innvictis Seed	B 5401E	—	—	—	—	—	5.4	—
Progeny	P5521E3S	—	—	—	—	2984	5.5	—
Progeny	5121E3S	—	—	—	—	—	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 77. 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
Uni. of Arkansas	R16-253	Tan	Tawny	White	—	2810	4.6	I
Uni. of Arkansas	UA46i20C(R16-259)	Tan	Tawny	Purple	Black	3036	4.6	I
Uni. of Arkansas	R15-2422	Tan	Gray	Purple	—	3176	4.7	I
Uni. of Missouri	S17-2243C	Black	Tawny	Purple	Imp. Black	2903	4.5	D
Uni. of Missouri	S16-12137C	Tan	Tawny	Purple	Imp. Black	2454	4.6	I
Uni. of Missouri	S16-5540R	Tan	Tawny	White	Brown	2613	4.6	SD
Uni. of Missouri	S09-13608C	Brown	Gray	White	Black	2834	4.7	I
Uni. of Missouri	S16-14730C	Tan	Tawny	Purple	Black	2681	4.7	I
Uni. of Missouri	S17-2193C	Black	Tawny	Purple	Buff	2834	4.7	I
Uni. of Missouri	S16-5503R	Tan	Tawny	White	Black	2690	4.8	SD
Uni. of Missouri	S16-8898C	Tan	Tawny	Purple	Black	2619	4.8	I
Uni. of Missouri	S16-11644C	Tan	Tawny	White	Imp. Black	3100	4.9	SD
Uni. of Missouri	S16-7922C	Tan	Tawny	White	Imp. Black	3024	4.9	SD

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 78. 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 ³
Uni. of Arkansas	UA54i19GT(R13-14635RR)	Tan	Grey	White	Buff	2809	5.4	—
Uni. of Arkansas	R13-13997	Tan	Tawny	S	—	2867	5L	—
Uni. of Arkansas	R15-1587	Tan	Gray	Purple	—	3099	5E	—
Uni. of Missouri	S16-3747RY	Black	Gray	White	Buff	2521	5	D
Uni. of Missouri	S16-14801C	Tan	Gray	Purple	Buff	2846	5	D
Uni. of Missouri	S16-7840C	Tan	Tawny	White	Brown	2749	5	D
Uni. of Missouri	S16-9090C	Tan	Gray	White	Black	3058	5.2	SD
Uni. of Missouri	S16-9478C	Tan	Tawny	White	Black	3000	5.2	SD
Uni. of Missouri	S16-11651C	Tan	Tawny	White	Black	3274	5.3	SD
Uni. of Missouri	S16-15170C	Tan	Gray	White	Brown	2900	5.3	I

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.

2021 SOYBEAN VARIETY TRIAL STEM CANKER REPORT

All of the soybean entries in the 2021 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. 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.

Note: Some entries were added to the stem canker inoculation trials that may not be included in the official variety trial reports from a standpoint of yield or disease response from the specific OVT locations throughout the state. Varieties that were added to each set are noted in each corresponding table.

Table 79. Response of Maturity Group IV Early Xtend Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Agrigold G4440RX (Check)	3.4 a	MR
Progeny P4255 (Check)	6.0 a	MS
USG 7447XTS (Check)	5.2 a	MS
AgriGold G4615XF	0.0 e	R
AgriGold G4620RX	1.3 bc	R
Armor 44-D49	0.0 e	R
Armor 46-D09	0.7 a	R
Armor 46-F13	0.1 de	R
*Asgrow AG43X0	0.1 de	R
Asgrow AG44XF2	0.2 dc	R
Asgrow AG45XF0	0.1 de	R
*Asgrow AG46X6	0.0 e	R
Asgrow AG46XF2	7.0 a	S
Beck's Hybrids 4119X2	0.0 e	R
Credenz CZ 4202XF	0.0 e	R
Credenz CZ 4562XF	0.0 e	R
Delta Grow 46F17/STS	1.0 ab	R
Delta Grow 46X65	0.8 ab	R
DonMario DM42F62S	0.2 de	R
DonMario DM45X61	0.7 ab	R
DonMario DM46F62	0.0 e	R
Dyna-Gro S43XS70	0.0 e	R
Dyna-Gro S46XF31S	0.1 de	R
Dyna-Gro S46XS60	1.3 ab	R
Great Heart Seed GT-4255XS	0.2 de	R
Great Heart Seed GT-4344XF	0.0 e	R
Great Heart Seed GT-4677XS	0.0 e	R
Great Heart Seed GT-4681XFS	0.0 e	R
Innictis Seed A 4111XF	0.0 e	R
Innictis Seed A 4371XF	0.1 de	R
Innictis Seed A 4571XF	0.0 e	R
Innictis Seed A 4618X	0.0 e	R
Innictis Seed A 4690XF	0.0 e	R
*Local Seed Company LS4299XS	0.0 e	R
Local Seed Company LS4415XF	0.0 e	R
Local Seed Company LS4517XFS	0.0 de	R
Local Seed Company LS4606XFS	0.1 de	R
MorSoy MS 4531XF	0.0 e	R
MorSoy MS 4640XF	0.7 ab	R
MorSoy MS 4681 RXT	0.0 e	R
NK NK39-A1XF	0.0 e	R
NK NK43-V8XF	0.0 e	R
NK NK45-P9XF	0.0 e	R
NK S44-C7X	0.0 e	R
*Pioneer P42A96X	0.6 ab	R
Pioneer P46A86X	0.0 e	R
Progeny P 4501XFS	0.0 e	R
Progeny P 4505RXS	0.1 de	R
Progeny P 4521XFS	0.2 de	R
Progeny P 4604XFS	0.0 e	R
USG 7461XFS	1.0 ab	R
MSE	53.7	—
CV (%)	3.4	—
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 80. Response of Maturity Group IV Late Xtend Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Petrus Seed 4916GT (Check)	7.4 a	S
AgriGold G4813XF	0.0 d	R
AgriGold G4820RX	0.0 d	R
Armor 48-D03	0.0 d	R
Armor 48-D25	0.0 d	R
Armor 48-F22	2.0 a	R
Asgrow AG46X6	0.2 c	R
Asgrow AG47XF0	0.0 d	R
Asgrow AG47XF2	0.0 d	R
Asgrow AG48XF0	0.3 cd	R
Asgrow AG48XF2	0.0 d	R
Beck's Hybrids 4885XF	0.0 d	R
Beck's Hybrids 4991X2	0.1 cd	R
Credenz CZ 4742XF	0.9 cd	R
Credenz CZ 4892XF	0.0 d	R
Credenz CZ 4912XF	0.0 d	R
*Delta Grow 47X95RR2X	0.0 d	R
Delta Grow 48F20	0.0 d	R
Delta Grow 48X45	3.1 a	MR
Delta Grow 49F22/STS	0.0 d	R
DonMario DM48F61	0.0 d	R
Dyna-Gro S48XT90	0.1 cd	R
Dyna-Gro S49XT70	0.0 d	R
Great Heart Seed GT-4750XFS	0.0 d	R
Great Heart Seed GT-4828X	0.0 d	R
Great Heart Seed GT-4841XFS	0.0 d	R
Great Heart Seed GT-4979X	0.2 cd	R
Innictis Seed A 4791XF	0.0 d	R
Innictis Seed A 4831XF	0.0 d	R
Innictis Seed A 4850XF	0.0 d	R
Innictis Seed A 4950X	2.1 a	R
Local Seed Company LS4707XF	0.2 cd	R
Local Seed Company LS4718XF	0.0 d	R
Local Seed Company LS4795XS	0.0 d	R
Local Seed Company LS4805XFS	3.4 ab	MR
Local Seed Company LS4806XS (LSX48	0.1 cd	R
Local Seed Company LS4919XFS	0.0 cd	R
MorSoy MS 4850 XF/STS	0.0 d	R
*NK S47-Y9X	0.1 cd	R
NK S49-F5X	0.1 cd	R
Pioneer P47A64X	0.0 d	R
*Pioneer P48A60X	0.0 d	R
Progeny P 4806XFS	0.0 d	R
Progeny P 4816RX	0.4 bc	R
Progeny P 4821RX	0.1 cd	R
Progeny P 4851RX	0.1 cd	R
Progeny P 4921XFS	0.0 d	R
Progeny P 4970RX	0.1 cd	R
USG 7481XF	0.0 d	R
*USG 7489XT	0.5 cd	R
USG 7491XFS	3.0 a	MR
MSE	904.9	—
CV (%)	27.7	—
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 81. Response of Maturity Group IV Enlist Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Agrigold G4440RX (Check)	4.3 a	MR
Progeny P4255 (Check)	—	—
*Delta Grow DG45E10	0.1 b	R
Delta Grow DG46E10	0.0 c	R
Delta Grow DG47E20	0.0 c	R
Delta Grow DG48E49 STS	0.0 c	R
Delta Grow DG48E59	0.0 b	R
Delta Grow DG49E20	0.1 b	R
DonMario DM48E62S	0.0 c	R
Dyna-Gro S45ES10	0.0 c	R
Dyna-Gro S46ES91	0.0 c	R
Dyna-Gro S49EN79	1.4 a	R
Innictis Seed B 4141E	0.0 c	R
Innictis Seed B 4681E	0.0 c	R
Innictis Seed B 4841E	0.0 c	R
*Pioneer P44T04SE	0.0 c	R
*Pioneer P45T88E	0.0 c	R
Pioneer P46T51E	0.0 c	R
Pioneer P49T62E	0.0 c	R
Progeny P 4541E3S	0.0 c	R
Progeny P 4775E3S	0.0 c	R
Progeny P 4931E3S	0.0 c	R
MSE	35.1	—
CV (%)	13.9	—
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 82. Response of Maturity Group IV Conventional and RoundUp Ready Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Go Soy 49G16 (check)	7.9 a	S
J77-339 (check)	4.6 bc	MR
Petrus Seed 4916 GT (check)	7.6 a	S
Univ. of Missouri S15-10879C (check)	7.0 a	S
Univ. of Arkansas R15-2422	0.5 e	R
Univ. of Arkansas R16-253	0.4 e	R
Univ. of Arkansas UA46i20C	0.0 e	R
Univ. of Missouri S09-13608C	0.0 e	R
Univ. of Missouri S16-11644C	6.8 ab	MS
Univ. of Missouri S16-12137C	0.0 e	R
Univ. of Missouri S16-14730C	2.8 cd	R
Univ. of Missouri S16-5503R	6.2 ab	MS
Univ. of Missouri S16-5540R	6.7 ab	MS
Univ. of Missouri S16-7922C	0.3 e	R
Univ. of Missouri S16-8898C	2.3 d	R
Univ. of Missouri S17-2193C	0.0 e	R
Univ. of Missouri S17-2243C	0.0 e	R
MSE	42.6	—
CV (%)	19.5	—
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 83. Response of Maturity Group V Xtend Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Delta Grow 52X05/STS (check)	6.6 a	MS
Progeny P5688RX (Check)	5.7 ab	MS
*Asgrow AG53X0	1.9 bc	R
Asgrow AG53XF2	0.0 e	R
Asgrow AG55XF0	0.1 de	R
Asgrow AG56XF2	0.0 e	R
Beck's Hybrids 5005XF	0.0 de	R
Credenz CZ 5282XF	0.0 e	R
Credenz CZ 5552XF	0.0 e	R
Delta Grow 52X05 STS	0.3 de	R
Delta Grow 54F20	0.0 e	R
DonMario DM51X61	0.0 e	R
Dyna-Gro S52XT91	0.1 de	R
Dyna-Gro S56XT99	1.0 de	R
Great Heart Seed GT-5214X	0.2 de	R
Great Heart Seed GT-5417X	0.0 e	R
Innictis Seed A 5341XF	4.7 ab	MR
Innictis Seed A 5451XF	0.3 de	R
Innictis Seed A 5558X	0.0 e	R
Local Seed Co. LS5009XS	0.0 e	R
Local Seed Co. LS5119XF	0.0 e	R
Local Seed Co. LS5386X	0.1 de	R
Local Seed Co. LS5418XFS	0.0 e	R
Local Seed Co. LS5614XF	0.0 e	R
NK NK57-A3XF	4.9 ab	MR/MS
NK S53-F7X	0.2 de	R
Pioneer P53A67X	0.0 e	R
Progeny P 5003XF	0.4 de	R
Progeny P 5016RXS	0.0 e	R
Progeny P 5252RX	0.0 e	R
*Progeny P 5424XF	0.1 de	R
Progeny P 5425XF	0.2 cd	R
Progeny P 5554RX	0.2 de	R
MSE	369.0	—
CV (%)	28.9	—
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 84. Response of Maturity Group V Enlist Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Progeny P5688RX (Check)	2.0 a	R
Terral REV 5190E (Check)	3.0 ab	MR
Delta Grow 53E30	0.5 bcd	R
Don Mario DM51E62S	1.0 abc	R
Innqvist Seed B 5401E	0.0 d	R
Progeny 5121E3S	0.0 d	R
Progeny P5521E3S	0.1 cd	R
MSE	30.8	—
CV (%)	38.2	—
P-value for F-statistic	0.0039	—

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 85. Response of Maturity Group V Conventional and RoundUp Ready Soybean Cultivars to Stem Canker, 2021.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
J77-339 (check)	6.2 a	MS
Univ. of Missouri S16-15809C (check)	0.1 c	R
Univ. of Arkansas R13-13997	2.0 b	R
Univ. of Arkansas R15-1587	0.1 c	R
Univ. of Arkansas UA54i19GT(R1)	3.2 b	MR
Univ. of Missouri S16-11651C	2.5 b	R
Univ. of Missouri S16-14801C	0.0 c	R
Univ. of Missouri S16-15170C	0.0 c	R
Univ. of Missouri S16-3747RY	0.0 c	R
Univ. of Missouri S16-7840C	3.4 b	MR
Univ. of Missouri S16-9090C	3.2 b	MR
Univ. of Missouri S16-9478C	2.1 b	R
MSE	31.1	—
CV (%)	22.8	—
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.

SUMMARY OF DAMAGED KERNEL TOTALS

Table 86. Summary of Damaged Kernel Total (DKT) by Variety for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety	MG	Tech.	Cystal Springs (not irrigated)			Stoneville, loam (Irrigated)			Verona (not irrigated)			Average DKT %
				Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	
Delta Grow	48E49/STS	IV	Enlist	4/27	10/14	10.4	4/30	9/24	1.0	4/22	9/29	4.3	5.2
Delta Grow	47E20/STS	IV	Enlist	4/27	10/14	8.3	4/30	9/24	0.9	4/22	9/29	1.5	3.6
Pioneer	P49T62E	IV	Enlist	4/27	10/14	9.0	4/30	9/24	1.2	4/22	9/29	10.3	6.8
Progeny Ag	P 4775E3S	IV	Enlist	4/27	10/14	8.2	4/30	9/24	0.8	4/22	9/29	3.0	4.0
Dyna-Gro	S45ES10	IV	Enlist	4/27	10/14	9.1	4/30	9/24	0.9	4/22	9/29	3.0	4.3
Dyna-Gro	S46ES91	IV	Enlist	4/27	10/14	6.8	4/30	9/24	0.8	4/22	9/29	3.5	3.7
Dyna-Gro	S49EN79	IV	Enlist	4/27	10/14	9.0	4/30	9/24	2.9	4/22	9/29	9.8	7.2
Delta Grow	48E59	IV	Enlist	4/27	10/14	7.9	4/30	9/24	0.6	4/22	9/29	4.2	4.2
Delta Grow	49E20	IV	Enlist	4/27	10/14	5.5	4/30	9/24	1.4	4/22	9/29	3.2	3.4
Delta Grow	46E10	IV	Enlist	4/27	10/14	9.9	4/30	9/24	0.6	4/22	9/29	5.7	5.4
Pioneer	P46T51E	IV	Enlist	4/27	10/14	8.8	4/30	9/24	0.6	4/22	9/29	3.0	4.1
Progeny Ag	P 4931E3S	IV	Enlist	4/27	10/14	5.1	4/30	9/24	1.0	4/22	9/29	3.0	3.0
DonMario	DM48E62S	IV	Enlist	4/27	10/14	5.0	4/30	9/24	0.4	4/22	9/29	3.6	3.0
Innvictis Seed	B 4681E	IV	Enlist	4/27	10/14	7.5	4/30	9/24	2.4	4/22	9/29	12.1	7.3
Innvictis Seed	B 4141E	IV	Enlist	4/27	10/14	11.7	4/30	9/24	1.5	4/22	9/29	7.1	6.8
Innvictis Seed	B 4841E	IV	Enlist	4/27	10/14	6.6	4/30	9/24	0.6	4/22	9/29	3.3	3.5
Progeny Ag	P 4541E3S	IV	Enlist	4/27	10/14	9.9	4/30	9/24	0.6	4/22	9/29	22.4	11.0
Armor	46-D09	IV Early	Xtend	4/27	10/14	8.0	4/30	9/24	0.5	4/22	9/29	2.2	3.6
AgriGold	G4620RX	IV Early	Xtend	4/27	10/14	9.4	4/30	9/24	1.2	4/22	9/29	1.3	4.0
Beck's Hybrids	4119X2	IV Early	Xtend	4/27	10/14	9.8	4/30	9/24	0.9	4/22	9/29	2.3	4.3
Armor	44-D49	IV Early	Xtend	4/27	10/14	7.8	4/30	9/24	0.8	4/22	9/29	3.5	4.0
Dyna-Gro	S43XS70	IV Early	Xtend	4/27	10/14	6.1	4/30	9/24	0.5	4/22	9/29	2.9	3.2
Progeny Ag	P 4505RXS	IV Early	Xtend	4/27	10/14	5.0	4/30	9/24	0.7	4/22	9/29	3.5	3.1
Innvictis Seed	A 4618X	IV Early	Xtend	4/27	10/14	12.2	4/30	9/24	1.4	4/22	9/29	5.8	6.5
Delta Grow	46F17/STS	IV Early	Xtend	4/27	10/14	5.6	4/30	9/24	0.8	4/22	9/29	3.8	3.4
NK Brand	S44-C7X	IV Early	Xtend	4/27	10/14	11.8	4/30	9/24	1.7	4/22	9/29	3.0	5.5
Great Heart Seed	GT-4255XS	IV Early	Xtend	4/27	10/14	9.1	4/30	9/24	1.2	4/22	9/29	3.9	4.7
Dyna-Gro	S46XS60	IV Early	Xtend	4/27	10/14	4.7	4/30	9/24	0.6	4/22	9/29	2.5	2.6
Great Heart Seed	GT-4677XS	IV Early	Xtend	4/27	10/14	6.4	4/30	9/24	1.0	4/22	9/29	2.4	3.3
Delta Grow	46X65	IV Early	Xtend	4/27	10/14	6.9	4/30	9/24	0.6	4/22	9/29	2.2	3.2
Pioneer	P46A86X	IV Early	Xtend	4/27	10/14	7.3	4/30	9/24	0.7	4/22	9/29	2.8	3.6
MorSoy	MS 4681 RXT	IV Early	Xtend	4/27	10/14	7.3	4/30	9/24	0.5	4/22	9/29	3.9	3.9
DonMario	DM45X61	IV Early	Xtend	4/27	10/14	9.6	4/30	9/24	0.6	4/22	9/29	2.8	4.3
AgriGold	G4615XF	IV Early	Xtend Flex	4/27	10/14	6.7	4/30	9/24	2.2	4/22	9/29	1.6	3.5
Great Heart Seed	GT-4681XFS	IV Early	Xtend Flex	4/27	10/14	4.8	4/30	9/24	1.6	4/22	9/29	3.3	3.2
Credenz	CZ 4202XF	IV Early	Xtend Flex	4/27	10/14	4.0	4/30	9/24	0.5	4/22	9/29	1.2	1.9
Credenz	CZ 4562XF	IV Early	Xtend Flex	4/27	10/14	8.4	4/30	9/24	0.7	4/22	9/29	1.4	3.5
USG	7461XFS	IV Early	Xtend Flex	4/27	10/14	7.5	4/30	9/24	1.6	4/22	9/29	2.4	3.8
Armor	46-F13	IV Early	Xtend Flex	4/27	10/14	7.4	4/30	9/24	0.6	4/22	9/29	2.0	3.3
NK Brand	NK39-A1XF	IV Early	Xtend Flex	4/27	10/14	21.5	4/30	9/24	2.5	4/22	9/29	8.3	10.8
NK Brand	NK43-V8XF	IV Early	Xtend Flex	4/27	10/14	9.4	4/30	9/24	1.3	4/22	9/29	4.7	5.1
NK Brand	NK45-P9XF	IV Early	Xtend Flex	4/27	10/14	13.1	4/30	9/24	1.3	4/22	9/29	3.6	6.0
Great Heart Seed	GT-4344XF	IV Early	Xtend Flex	4/27	10/14	8.7	4/30	9/24	0.8	4/22	9/29	3.2	4.2
Local Seed Co	LS4606XFS	IV Early	Xtend Flex	4/27	10/14	6.5	4/30	9/24	1.3	4/22	9/29	5.2	4.3
Dyna-Gro	S46XF31S	IV Early	Xtend Flex	4/27	10/14	6.1	4/30	9/24	0.7	4/22	9/29	2.6	3.1
Asgrow	AG44XF2	IV Early	Xtend Flex	4/27	10/14	10.0	4/30	9/24	0.3	4/22	9/29	1.9	4.1
Asgrow	AG45XF0	IV Early	Xtend Flex	4/27	10/14	3.3	4/30	9/24	1.0	4/22	9/29	4.3	2.9
Asgrow	AG46XF2	IV Early	Xtend Flex	4/27	10/14	7.5	4/30	9/24	0.8	4/22	9/29	2.4	3.6
Progeny Ag	P 4501XFS	IV Early	Xtend Flex	4/27	10/14	4.0	4/30	9/24	0.7	4/22	9/29	2.8	2.5
Progeny Ag	P 4604XFS	IV Early	Xtend Flex	4/27	10/14	3.6	4/30	9/24	1.4	4/22	9/29	2.2	2.4
Local Seed Co	LS4415XF	IV Early	Xtend Flex	4/27	10/14	10.2	4/30	9/24	1.3	4/22	9/29	4.4	5.3
Local Seed Co	LS4517XFS	IV Early	Xtend Flex	4/27	10/14	6.5	4/30	9/24	1.1	4/22	9/29	4.8	4.1
DonMario	DM42F62S	IV Early	Xtend Flex	4/27	10/14	7.5	4/30	9/24	1.0	4/22	9/29	3.8	4.1
DonMario	DM46F62	IV Early	Xtend Flex	4/27	10/14	4.4	4/30	9/24	0.4	4/22	9/29	2.4	2.4
MorSoy	MS 4531XF	IV Early	Xtend Flex	4/27	10/14	8.2	4/30	9/24	0.7	4/22	9/29	4.9	4.6
MorSoy	MS 4640XF	IV Early	Xtend Flex	4/27	10/14	9.5	4/30	9/24	1.5	4/22	9/29	2.9	4.6
Innvictis Seed	A 4111XF	IV Early	Xtend Flex	4/27	10/14	14.7	4/30	9/24	0.5	4/22	9/29	4.9	6.7
Innvictis Seed	A 4690XF	IV Early	Xtend Flex	4/27	10/14	13.6	4/30	9/24	1.2	4/22	9/29	1.9	5.6
Innvictis Seed	A 4571XF	IV Early	Xtend Flex	4/27	10/14	9.2	4/30	9/24	0.8	4/22	9/29	2.7	4.2
Innvictis Seed	A 4371XF	IV Early	Xtend Flex	4/27	10/14	4.9	4/30	9/24	0.8	4/22	9/29	2.6	2.8
Progeny Ag	P 4521XFS	IV Early	Xtend Flex	4/27	10/14	3.0	4/30	9/24	0.5	4/22	9/29	2.2	1.9
Progeny Ag	P 4816RX	IV Late	Xtend	4/27	10/14	8.5	4/30	9/24	1.4	4/22	9/29	2.7	4.2
Great Heart	GT-4979X	IV Late	Xtend	4/27	10/14	9.7	4/30	9/24	1.0	4/22	9/29	4.4	5.0
Dyna-Gro	S48XT90	IV Late	Xtend	4/27	10/14	5.1	4/30	9/24	1.5	4/22	9/29	3.5	3.4
AgriGold	G4820RX	IV Late	Xtend	4/27	10/14	4.9	4/30	9/24	1.5	4/22	9/29	2.2	2.9

Table 86 (continued). Summary of Damaged Kernel Total (DKT) by Variety for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety	MG	Tech.	Cystal Springs (not irrigated)			Stoneville, loam (Irrigated)			Verona (not irrigated)			Average DKT %
				Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	
Great Heart Seed	GT-4828X	IV Late	Xtend	4/27	10/14	5.2	4/30	9/24	1.2	4/22	9/29	2.5	3.0
Local Seed	LS4806XS	IV Late	Xtend	4/27	10/14	4.5	4/30	9/24	0.8	4/22	9/29	3.6	3.0
Beck's Hybrids	4991X2	IV Late	Xtend	4/27	10/14	8.0	4/30	9/24	1.8	4/22	9/29	3.3	4.4
Pioneer	P47A64X	IV Late	Xtend	4/27	10/14	13.9	4/30	9/24	1.3	4/22	9/29	8.8	8.0
Innvictis Seed	A 4950X	IV Late	Xtend	4/27	10/14	7.6	4/30	9/24	1.1	4/22	9/29	4.6	4.4
Progeny Ag	P 4851RX	IV Late	Xtend	4/27	10/14	11.0	4/30	9/24	1.8	4/22	9/29	3.3	5.4
Local Seed	LS4795XS	IV Late	Xtend	4/27	10/14	6.0	4/30	9/24	0.6	4/22	9/29	4.0	3.5
Dyna-Gro	S49XT70	IV Late	Xtend	4/27	10/14	8.3	4/30	9/24	0.9	4/22	9/29	2.4	3.9
Progeny Ag	P 4821RX	IV Late	Xtend	4/27	10/14	12.9	4/30	9/24	1.1	4/22	9/29	3.5	5.8
Delta Grow	48X45	IV Late	Xtend	4/27	10/14	4.2	4/30	9/24	1.3	4/22	9/29	3.3	2.9
Armor	48-D25	IV Late	Xtend	4/27	10/14	4.2	4/30	9/24	0.8	4/22	9/29	3.6	2.9
Progeny Ag	P 4970RX	IV Late	Xtend	4/27	10/14	6.3	4/30	9/24	1.3	4/22	9/29	5.1	4.2
Armor	48-D03	IV Late	Xtend	4/27	10/14	4.5	4/30	9/24	0.9	4/22	9/29	2.9	2.8
NK Brand	S49-F5X	IV Late	Xtend Flex	4/27	10/14	11.4	4/30	9/24	0.6	4/22	9/29	2.8	4.9
AgriGold	G4813XF	IV Late	Xtend Flex	4/27	10/14	7.7	4/30	9/24	2.2	4/22	9/29	2.9	4.3
Beck's Hybrids	4885XF	IV Late	Xtend Flex	4/27	10/14	4.5	4/30	9/24	1.2	4/22	9/29	2.2	2.6
Great Heart Seed	GT-4841XFS	IV Late	Xtend Flex	4/27	10/14	12.3	4/30	9/24	1.9	4/22	9/29	6.8	7.0
Credenz	CZ 4742XF	IV Late	Xtend Flex	4/27	10/14	7.0	4/30	9/24	0.5	4/22	9/29	2.6	3.4
Credenz	CZ 4892XF	IV Late	Xtend Flex	4/27	10/14	12.8	4/30	9/24	1.0	4/22	9/29	0.6	4.8
Credenz	CZ 4912XF	IV Late	Xtend Flex	4/27	10/14	11.9	4/30	9/24	0.2	4/22	9/29	0.6	4.2
USG	7481XF	IV Late	Xtend Flex	4/27	10/14	14.9	4/30	9/24	0.5	4/22	9/29	2.1	5.8
USG	7491XFS	IV Late	Xtend Flex	4/27	10/14	8.7	4/30	9/24	1.1	4/22	9/29	6.9	5.6
Great Heart Seed	GT-4750XFS	IV Late	Xtend Flex	4/27	10/14	12.1	4/30	9/24	0.8	4/22	9/29	3.5	5.5
Local Seed	LS4707XF	IV Late	Xtend Flex	4/27	10/14	8.3	4/30	9/24	0.6	4/22	9/29	2.5	3.8
Local Seed	LS4805XFS	IV Late	Xtend Flex	4/27	10/14	9.9	4/30	9/24	3.1	4/22	9/29	7.5	6.8
Armor	48-F22	IV Late	Xtend Flex	4/27	10/14	19.5	4/30	9/24	2.5	4/22	9/29	5.5	9.2
Asgrow	AG47XF0	IV Late	Xtend Flex	4/27	10/14	11.0	4/30	9/24	2.2	4/22	9/29	3.5	5.6
Asgrow	AG47XF2	IV Late	Xtend Flex	4/27	10/14	5.3	4/30	9/24	0.6	4/22	9/29	1.9	2.6
Asgrow	AG48XF0	IV Late	Xtend Flex	4/27	10/14	4.3	4/30	9/24	1.8	4/22	9/29	3.2	3.1
Asgrow	AG48XF2	IV Late	Xtend Flex	4/27	10/14	14.9	4/30	9/24	1.5	4/22	9/29	3.6	6.7
Delta Grow	48F20	IV Late	Xtend Flex	4/27	10/14	14.4	4/30	9/24	2.1	4/22	9/29	8.2	8.2
Progeny Ag	P 4806XFS	IV Late	Xtend Flex	4/27	10/14	11.1	4/30	9/24	1.4	4/22	9/29	7.2	6.6
Local Seed	LS4919XFS	IV Late	Xtend Flex	4/27	10/14	4.6	4/30	9/24	0.7	4/22	9/29	3.4	2.9
Local Seed	LS4718XF	IV Late	Xtend Flex	4/27	10/14	9.2	4/30	9/24	0.5	4/22	9/29	2.7	4.1
DonMario	DM48F61	IV Late	Xtend Flex	4/27	10/14	5.3	4/30	9/24	0.7	4/22	9/29	2.0	2.7
MorSoy	MS 4850 XF/STS	IV Late	Xtend Flex	4/27	10/14	12.0	4/30	9/24	2.6	4/22	9/29	4.2	6.3
Innvictis Seed	A 4850XF	IV Late	Xtend Flex	4/27	10/14	14.2	4/30	9/24	2.6	4/22	9/29	4.7	7.2
Innvictis Seed	A 4791XF	IV Late	Xtend Flex	4/27	10/14	7.0	4/30	9/24	0.8	4/22	9/29	2.3	3.4
Innvictis Seed	A 4831XF	IV Late	Xtend Flex	4/27	10/14	8.3	4/30	9/24	1.2	4/22	9/29	5.0	4.8
Progeny Ag	P 4921XFS	IV Late	Xtend Flex	4/27	10/14	3.0	4/30	9/24	0.5	4/22	9/29	2.8	2.1
Delta Grow	49F22/STS	IV Late	Xtend Flex	4/27	10/14	2.3	4/30	9/24	0.4	4/22	9/29	1.5	1.4
Progeny	P 5521E3S	V	Enlist	4/27	10/14	14.8	4/30	10/6	1.9	4/22	10/13	2.1	6.3
DonMario	DM51E62S	V	Enlist	4/27	10/14	11.2	4/30	10/6	1.6	4/22	10/13	4.5	5.8
Innvictis Seed	B 5401E	V	Enlist	4/27	10/14	5.9	4/30	10/6	1.5	4/22	10/13	1.5	3.0
Progeny	P 5121E3S	V	Enlist	4/27	10/14	13.5	4/30	10/6	1.6	4/22	10/13	10.3	8.5
Delta Grow	53E30	V	Enlist	4/27	10/14	4.4	4/30	10/6	1.4	4/22	10/13	2.8	2.9
Progeny Ag	P 5016RXS	V	Xtend	4/27	10/14	4.2	4/30	10/6	0.7	4/22	10/13	3.0	2.6
Progeny Ag	P 5554RX	V	Xtend	4/27	10/14	1.6	4/30	10/6	0.3	4/22	10/13	0.5	0.8
Local Seed	LS5386X	V	Xtend	4/27	10/14	5.2	4/30	10/6	1.7	4/22	10/13	2.6	3.2
Dyna-Gro	S56XT99	V	Xtend	4/27	10/14	1.3	4/30	10/6	0.7	4/22	10/13	0.4	0.8
Local Seed	LS5009XS	V	Xtend	4/27	10/14	5.1	4/30	10/6	1.2	4/22	10/13	2.7	3.0
Great Heart Seed	GT-5417X	V	Xtend	4/27	10/14	2.8	4/30	10/6	1.2	4/22	10/13	1.5	1.8
Progeny Ag	P 5252RX	V	Xtend	4/27	10/14	3.3	4/30	10/6	1.3	4/22	10/13	0.9	1.8
Delta Grow	52X05/STS	V	Xtend	4/27	10/14	3.5	4/30	10/6	0.3	4/22	10/13	1.3	1.7
Pioneer	P53A67X	V	Xtend	4/27	10/14	2.7	4/30	10/6	0.4	4/22	10/13	0.4	1.2
Great Heart Seed	GT-5214X	V	Xtend	4/27	10/14	7.0	4/30	10/6	2.1	4/22	10/13	1.6	3.6
Dyna-Gro	S52XT91	V	Xtend	4/27	10/14	3.4	4/30	10/6	1.0	4/22	10/13	1.0	1.8
DonMario	DM51X61	V	Xtend	4/27	10/14	4.3	4/30	10/6	0.7	4/22	10/13	4.2	3.1
Innvictis Seed	A5558X	V	Xtend	4/27	10/14	0.8	4/30	10/6	0.4	4/22	10/13	1.0	0.7
NK Brand	S53-F7X	V	Xtend Flex	4/27	10/14	8.4	4/30	10/6	1.6	4/22	10/13	4.5	4.8
Credenz	CZ 5282XF	V	Xtend Flex	4/27	10/14	1.4	4/30	10/6	1.7	4/22	10/13	0.9	1.3
Credenz	CZ 5552XF	V	Xtend Flex	4/27	10/14	1.3	4/30	10/6	0.9	4/22	10/13	0.6	0.9
NK Brand	NK57-A3XF	V	Xtend Flex	4/27	10/14	2.0	4/30	10/6	2.1	4/22	10/13	0.5	1.5
Beck's Hybrids	5005XF	V	Xtend Flex	4/27	10/14	11.4	4/30	10/6	3.9	4/22	10/13	7.4	7.6
Local Seed	LS5418XFS	V	Xtend Flex	4/27	10/14	5.0	4/30	10/6	2.0	4/22	10/13	1.8	2.9
Asgrow	AG53XF2	V	Xtend Flex	4/27	10/14	5.0	4/30	10/6	0.7	4/22	10/13	3.2	3.0
Asgrow	AG55XF0	V	Xtend Flex	4/27	10/14	1.8	4/30	10/6	1.0	4/22	10/13	0.5	1.1
Asgrow	AG56XF2	V	Xtend Flex	4/27	10/14	3.1	4/30	10/6	0.5	4/22	10/13	1.1	1.6
Progeny Ag	P 5003XF	V	Xtend Flex	4/27	10/14	4.6	4/30	10/6	1.7	4/22	10/13	2.4	2.9

Table 86 (continued). Summary of Damaged Kernel Total (DKT) by Variety for the 2021 Mississippi Soybean Variety Trials.

Brand	Variety	MG	Tech.	Cystal Springs (not irrigated)			Stoneville, loam (Irrigated)			Verona (not irrigated)			Average
				Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	Planting date	Harvest date	DKT %	DKT %
Delta Grow	54F20	V	Xtend Flex	4/27	10/14	0.9	4/30	10/6	0.6	4/22	10/13	0.5	0.7
Local Seed	LS5614XF	V	Xtend Flex	4/27	10/14	2.1	4/30	10/6	0.6	4/22	10/13	0.3	1.0
Progeny Ag	P 5425XF	V	Xtend Flex	4/27	10/14	0.7	4/30	10/6	0.1	4/22	10/13	0.6	0.5
Local Seed	LS5119XF	V	Xtend Flex	4/27	10/14	7.9	4/30	10/6	0.4	4/22	10/13	5.0	4.4
Innvictis Seed	A5341XF	V	Xtend Flex	4/27	10/14	1.6	4/30	10/6	0.4	4/22	10/13	0.6	0.9
Innvictis Seed	A5451XF	V	Xtend Flex	4/27	10/14	0.9	4/30	10/6	1.7	4/22	10/13	0.6	1.1

Public Varieties Entered

University of Arkansas	R15-2422 *
University of Arkansas	UA46i20C
University of Arkansas	R16-253 *
University of Arkansas	R13-13997 *
University of Arkansas	R15-1587 *
University of Missouri	S16-14730C
University of Missouri	S16-5540R
University of Missouri	S16-11644C
University of Missouri	S16-7922C
University of Missouri	S17-2243C *
University of Missouri	S16-12137C *
University of Missouri	S09-13608C *
University of Missouri	S17-2193C *
University of Missouri	S16-5503R *
University of Missouri	S16-8898C *
University of Missouri	S16-3747RY
University of Missouri	S16-11651C
University of Missouri	S16-15170C
University of Missouri	UA54i19GT
University of Missouri	S16-14801C *
University of Missouri	S16-7840C *
University of Missouri	S16-9090C *
University of Missouri	S16-9478C *

Commercial Varieties Entered

Company	Variety				Seed treatment
Armor Seed, LLC 183 Pennsylvania Ave. Waldenburg, AR 72475	Armor	46-F13			Acceleron+Insect+ilevo
	Armor	44-D49			
	Armor	46-D09			
	Armor	48-F22			
	Armor	48-D25			
	Armor	48-D03			
BASF 3694 Sparta Rd. Holcomb, MS 38940	Credenz	CZ 4202XF			PV+IL
	Credenz	CZ 4562XF			
	Credenz	CZ 4742XF			
	Credenz	CZ 4892XF			
	Credenz	CZ 4912XF			
	Credenz	CZ 5282XF			
Delta Grow Seed P.O. Box 219 England, AR 72046	Credenz	CZ 5552XF			CruiserMaxx
	Delta Grow	46X65	Delta Grow	52X05 STS	
	Delta Grow	46F17/STS	Delta Grow	54F20	
	Delta Grow	48X45	Delta Grow	53E30	
	Delta Grow	48F20			
	Delta Grow	49F22/STS			
	Delta Grow	48E49 STS			
	Delta Grow	47E20			
	Delta Grow	48E59			
	Delta Grow	49E20			
	Delta Grow	46E10			
Nutrien Ag Solutions/Dyna-Gro Seed 254 U.S. Hwy. 72 West Collierville, TN 38014	Dyna-Gro	S43XS70	Dyna-Gro	S52XT91	Equity Vip/Saltro
	Dyna-Gro	S46XS60	Dyna-Gro	S56XT99	
	Dyna-Gro	S46XF31S			
	Dyna-Gro	S48XT90			
	Dyna-Gro	S49XT70			
	Dyna-Gro	S45ES10			
	Dyna-Gro	S46ES91			
	Dyna-Gro	S49EN79			
Great Heart Seed 220 W. Washington St. Paris, IL 61944	Great Heart Seed	GT-4255XS	Great Heart Seed	GT-4979X	Great Start Max
	Great Heart Seed	GT-4677XS	Great Heart Seed	GT-4828X	
	Great Heart Seed	GT-4681XFS	Great Heart Seed	GT-4841XFS	
	Great Heart Seed	GT-4344XF	Great Heart Seed	GT-4750XFS	
	Great Heart Seed	GT-5214X			
	Great Heart Seed	GT-5417X			
Bayer Crop Science 800 N. Lindbergh Blvd. St. Louis, MO 63167	Asgrow	AG44XF2			Acceleron+Insect+ilevo
	Asgrow	AG45XF0			
	Asgrow	AG46XF2			
	Asgrow	AG47XF0			
	Asgrow	AG47XF2			
	Asgrow	AG48XF0			
	Asgrow	AG48XF2			
	Asgrow	AG53XF2			
	Asgrow	AG55XF0			
	Asgrow	AG56XF2			
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny	P 4505RXS	Progeny	P 4931E3S	Poncho/Votivo/Obvius Plus
	Progeny	P 4501 XFS	Progeny	4541E3S	
	Progeny	P 4604XFS	Progeny	P 5016RXS	
	Progeny	P4521XFS	Progeny	P 5252RX	
	Progeny	P 4816RX	Progeny	P 5003XF	
	Progeny	P 4821RX	Progeny	P 5425XF	
	Progeny	P 4851RX	Progeny	P 5554RX	
	Progeny	P 4970RX	Progeny	P5521E3S	
	Progeny	P 4806XFS	Progeny	5121E3S	
	Progeny	P 4921XFS			

Commercial Varieties Entered

Company	Variety				Seed treatment
Dupont Pioneer 59 Greif Pkwy., Suite 200 Delaware, OH 43015	Pioneer Pioneer Pioneer Pioneer Pioneer	P46A86X P47A64X P49T62E P46T51E P53A67X	Pioneer Pioneer		LumiGEN
UniSouth Genetics, Inc. 3205-C Hwy. 46 South Dickson, TN 37055	USG USG USG	7461XFS 7481XF 7491XFS			Ipconazole,imidicloprid,metalaxyl
AgriGold Hybrids St. 5381 Akin Road Francisville, IL 62460	AgriGold AgriGold	G4620RX G4615XF	AgriGold AgriGold	G4820RX G4813XF	AgriShield F+I
SeedKoz 1725 Windward Conc., Suite 410 Alpharetta, GA 30005	MorSoy MorSoy MorSoy	MS 4681 RXT MS 4531XF MS 4640XF	MorSoy	MS 4850 XF/STS	Avicta Complete+Innoculant
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	LS4606XFS LS4415XF LS4517XFS LS4795XS LS4707XF LS4805XFS LS4806XS(LS4812XS) LS4718XF	Local Seed Co Local Seed Co Local Seed Co Local Seed Co Local Seed Co Local Seed Co	LS5009XS LS5386X LS5418XFS LS5614XF LS5119XF LS4919XFS	Radius Premium
NK Seeds Beans+Vibrance+Salto 5210 State Rd. 945 Hickory, KY 42051	NK Seeds NK Seeds NK Seeds NK Seeds NK Seeds	NK39-A1XF NK43-V8XF S44-C7X NK45-P9XF S49-F5X	NK Seeds NK Seeds	NK57-A3XF S53-F7X	CruiserMaxx
Innvictis Seed	Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed	A 4111XF A 4690XF A 4618X A 4571XF A 4371XF A 4850XF A 4791XF A 4831XF A 4950X	Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed Innvictis Seed	B 4681E B 4141E B 4841E A 5341XF A 5451XF A 5558X B 5401E	
Beck's Hybrids	Beck's Hybrids Beck's Hybrids Beck's Hybrids Beck's Hybrids	4119X2 4885XF 4991X2 5005XF			
DonMario Seeds	DonMario DonMario DonMario DonMario DonMario DonMario DonMario	DM42F62S DM45X61 DM46F62 DM48F61 DM48E62S DM51X61 DM51E62S			



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Scott Willard, Director

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