Soybean Management by Application of Research and Technology (SMART) Annual Summary

MSBP Project Number: 36-2022
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INTRODUCTION

The SMART program coordinated by Mississippi State University Extension and supported by the Mississippi Soybean Promotion Board is designed to assist with implementing best management practices (BMPs) and technologies into the farm level. In doing so, the latest research-proven practices can be demonstrated on the farm scale to assist with improving soybean yield and ultimately profitability.

Soybean is an integral component of Mississippi's agriculture production systems. Currently, soybean is second on the list of Mississippi's agricultural commodities in terms of value of production. Approximately 2.29 million acres of soybeans were harvested in Mississippi in 2022 with an average yield of 54.0 bushels per acre. Overall, soybean productivity has considerably increased in recent years due to a multitude of reasons including, but not limited to, improved management, technology, and seed options.

During the 2022 production season, the SMART program consisted of demonstration and training events that promoted ideal practices to Mississippi's soybean producers. This portion of the program is intended to provide you as soybean growers, crop consultants and other agriculture professionals with the latest information to assist throughout the growing season.

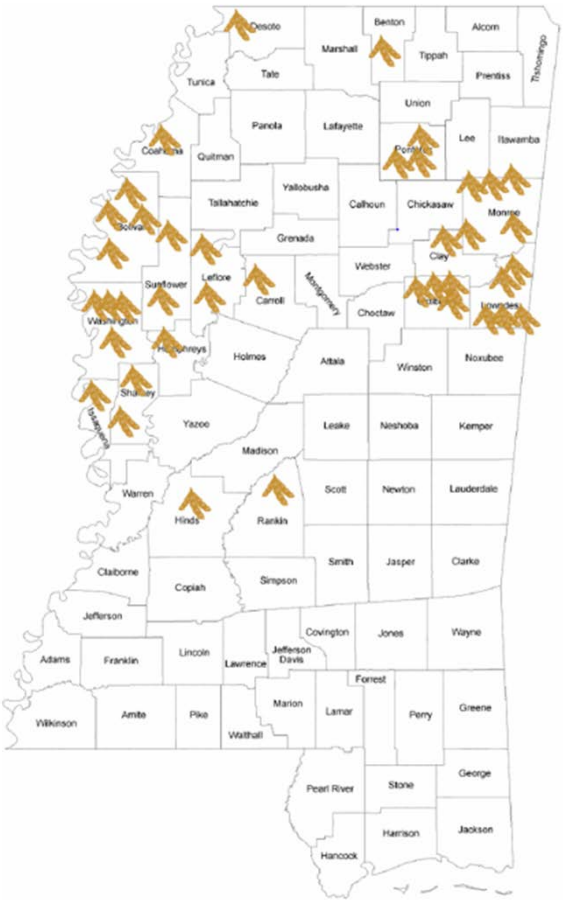


Figure 1: Map of Mississippi showing the 2022 locations.

SOYBEAN VARIETY DEMONSTRATION (ONGOING PROJECT)

Purpose: To evaluate commercially available soybean varieties performance in specific environments.

Procedure: These demonstrations are done each year and annual data are summarized and displayed as a MSU Extension publication. Soybean varieties are planted in large strips on producer fields. Varieties representing current commercially available herbicide tolerant traits from maturity groups recommended for Mississippi are utilized in this on-farm demonstration. Locations represent both irrigated and non-irrigated production systems. Standard agronomic practices are utilized across all varieties.

Results: A total of 309 varieties have been evaluated across the 2015 – 2022 growing seasons. These varieties have represented the Roundup Ready, Roundup Ready 2 Yield, Roundup Ready 2 Xtend, XtendFlex, LibertyLink, LibertyLinkGT27, and Enlist E3 traits. The average soybean yield across all varieties from all traits for each year were 55.7, 56.1, 58.5, 58.9, 44.5, 56.9, 62.9, 60.4 bushels per acre from 2015 to 2022, respectively. The variation in yield observed between years and between varieties confirms that variety selection is likely the most important decision to be made each season. Results from the 2022 on-farm soybean variety demonstration can be viewed in detail beginning on page 29 of this document. With the continued development and release of new varieties and new trait platforms, it is important to continue to conduct these on farm variety demonstrations each year so that producers have the most up to date variety information on hand to make this important management decision.

SOYBEAN VARIETY TOLERANCE TO IRON DEFICIENCY CHLOROSIS (ONGOING PROJECT)

Purpose: To evaluate soybean varietal response to Iron Deficiency Chlorosis (IDC).

Procedure: Soybean varieties that are commercially available in Mississippi are planted in areas with known issues of IDC. Soybean is planted in a small plot environment, with plots measuring 3 rows wide (15-inch row spacing) by 22 feet long. All varieties at each location were replicated 3 times. Varietal susceptibility to IDC is evaluated throughout the growing season. Each year these data are summarized and displayed as MSU Extension publications.

Table 1: Summary of IDC Screenings conducted 2015 through 2022.

Year	Maturity Group	Total Varieties Screened
2015	MG V	42
2016	MG V	28
2017	MG IV	37
2017	MG V	34
2018	MG IV	66
2018	MG V	32
2019	MG IV	80
2019	MG V	34
2020	MG IV	77
2020	MG V	29
2021	MG IV	87
2021	MG V	32
2022	MG IV	57
2022	MG V	15

Results: No variety has been found to be completely tolerant to IDC. However, some varieties have demonstrated the ability to quickly recover from IDC symptoms and continue to develop normally throughout the remainder of the growing season. Because it has been found that

varieties do vary greatly in susceptibly to IDC, it is important to continue to conduct this screening each year due to the constant changes in commercially available soybean varieties. Results from the Soybean Variety Response to IDC programming are published annually and available to producers, consultants, and other industry professionals. These results provide producers with options to combat IDC in their production fields and results from 2022 can be viewed in detail on pages 20 - 22 of this document.

SOYBEAN YIELD RESPONSE TO FOLIAR FUNGICIDES (ONGOING PROJECT)

Purpose: To evaluate the effect of an automatic foliar fungicide application on soybean growth and yield.

Procedure: During the growing seasons of 2015-2022, on-farm fungicide demonstrations have been conducted in large scale plots located on producer fields. All fungicides were applied during the late reproductive growth stages of soybean (R3/R4). All locations included an untreated check for comparison purposes. Soybean was evaluated for yield response to the automatic fungicide applications.

Table 1: Soybean yield averaged over all fungicide demonstration locations from 2015 – 2022.

Fungicide Treatment	Soybean Yield (bu/ac)		
	Irrigated	Non-Irrigated	Overall
Fungicide Applications	69.5	64.4	67.5
No Fungicide Application	67.4	64.0	65.7

Results: Data suggest that when averaged across all years and locations, an automatic fungicide application to soybean can increase yield by 1.8 bushels per acre (Table 1). When evaluated between irrigated environments and rainfed environments, the soybean yield increase observed following an automatic fungicide application is 2.1 and 0.4 bushels per acre, respectively. Profitability of an automatic fungicide application will depend on application costs as well as current soybean prices. The detailed results from 2022 can be viewed on the next page of this document under the 2022 SMART Program Summary section.

FUNGICIDE DEMONSTRATIONS

Purpose: This demonstration was designed to evaluate the effect of fungicide application products and timing on soybean growth, development, and yield.

Procedure: Four fungicide treatments (TRTs) were applied in large scale field plot. These treatments are further explained in Table 1. This demonstration was conducted in Issaquena County, near Mayersville, Mississippi, Sharkey County, near Cary, Mississippi, Washington County, near Leland, Mississippi, and Bolivar County, near Shelby, Mississippi during the 2022 growing season. The fungicide applications were applied by ground at an application volume of 15 GPA; except for the Washington County location, which was applied at an application volume of 10 GPA. All locations represented irrigated production systems. Soybean yield was measured in bushels per acre and is adjusted to 13% standard moisture content.

Table 1: Fungicide application treatments.

TRT No.	Product	Application Timing	Application Rate
1	Untreated Control		
2	Lucento	R4	5 fl. oz./acre
2	NIS	R4	0.25% v/v
3	Miravis Top	R4	13.7 fl. oz./acre
3	NIS	R4	0.25% v/v
4	Revytek	R4	8 fl. oz./acre
4	NIS	R4	0.25 % v/v

Figure 1: Fungicide application trial layout.

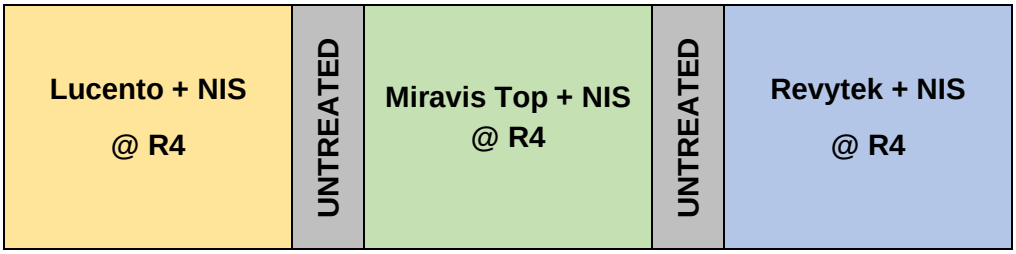


Figure 2: Yield differences among treatments (p=0.4569).

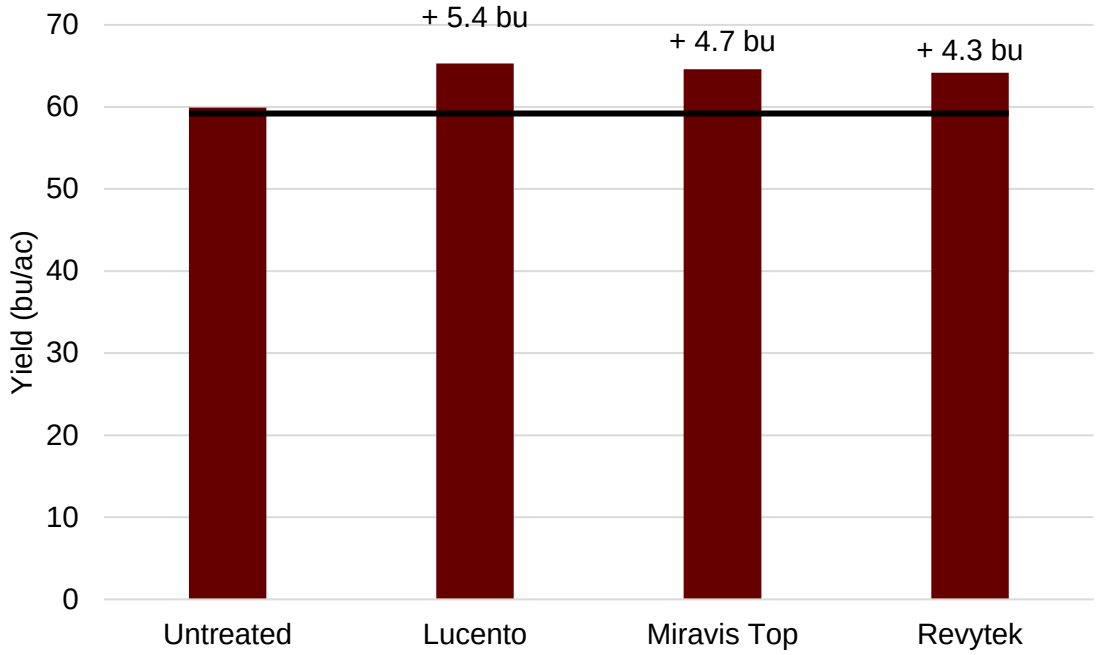


Table 2: Averaged Damaged Kernels Total (DKT) and damage CCC discounts[1] by treatment for irrigated locations (p = 0.3966)

Untreated	Lucento	Miravis Top	Revytek
---------- DKT (%) ----------			
4.6	3.4	4.2	4.9
---------- Discount per Bu ($) ----------			
0.10	0.06	0.10	0.10

[1]Discounts were calculated using the 2022 Crop USDA CCC Premium and Discount Schedule

Table 3: Partial budget results for fungicide demonstration trial.

Untreated	Lucento	Miravis Top	Revytek
---------- $ product cost per treatment[1] ----------			
0.0	19.35	17.09	19.84
---------- $ gross income (at $14.21/bu less discount) ----------			
851.48	927.84	917.68	911.89
----- $ net return above treatment cost (gross income – product cost – grain quality dockage) -----			
845.49	904.57	894.13	885.63
---------- $ gain per acre over untreated ----------			
0.00	59.08	48.64	40.14

[1]Product costs were determined using the MSU Extension 2022 Soybean Planning Budget

Results: No significant yield increases (Figure 2) were observed nor were any significant differences observed in damaged kernels total and seed quality discounts (Table 2). Economic gain was calculated based on average yield for all treatments across all locations (Table 3). These results indicate that no fungicide application evaluated in this study offered a statistical yield increase compared to the untreated check. Although not statistically different, the numerical yield gains indicate positive economic gain as displayed in Table 3. These results specific to the 4 locations of data referenced here can serve as a reminder that automatic fungicide application response varies by year and location. Many data sets exist that demonstration how automatic fungicide application sometimes provides a significant yield increase while other times the yield values do not separate from one another from a statistical standpoint. The bottom line is that the positive yield response desired from an automatic fungicide application does not occur with every application, but when it does occur the likelihood of a profitable response in greatly improved in years where commodity prices are favorable such as those observed in 2022.

EVALUATION OF SOYBEAN YIELD AND QUALITY FOLLOWING AUTOMATIC FUNGICIDE APPLICATION

Purpose: To evaluate the effects of preventative fungicide applications at the R4 growth stage on soybean yield and grain quality.

Procedure: Experiments were conducted in 2022 the R.R. Foil Plant Science Research Center near Starkville, MS. Nine fungicide treatments, as well as an untreated check were applied to furrow irrigated soybean at the R4 growth stage, treatment details are displayed in Table 1. Plot size was four 38-inch rows wide by 40 feet long. The center two rows of each plot were harvested, and soybean yield was adjusted to 13% moisture content. In addition to yield, grain quality samples were collected at harvest. These samples were analyzed by Mid-South Grain Inspection Services, a USDA certified grain inspection facility, to compare quality following each treatment for damaged total kernel (DKT) values. These quality ratings were then applied to USDA certified dockage scales to analyze the profitability of each treatment.

Table 1: Fungicide application treatments.

TRT No.	Product	Application Rate
1	Untreated Control	
2	Quadris	6 fl. oz./acre
2	NIS	0.25% v/v
3	Priaxor + Domark	4 fl. oz./acre + 4 fl. oz./acre
3	NIS	0.25% v/v
4	Quadris Top SBX	7 fl. oz./acre
4	NIS	0.25 % v/v
5	Miravis Top	13.7 fl. oz./acre
5	NIS	0.25% v/v
6	Revytek	8 fl. oz./acre
6	NIS	0.25% v/v
7	Lucento	5 fl. oz./acre
7	NIS	0.25% v/v
8	Approach Prima	6.4 fl. oz./acre
8	NIS	0.25% v/v
9	Trevo TRZ	14 fl. oz./acre
9	NIS	0.25% v/v
10	Stratego YLD	4 fl. oz./acre
10	NIS	0.25% v/v

Figure 1: Yield differences among fungicide treatments (p=0.6623).

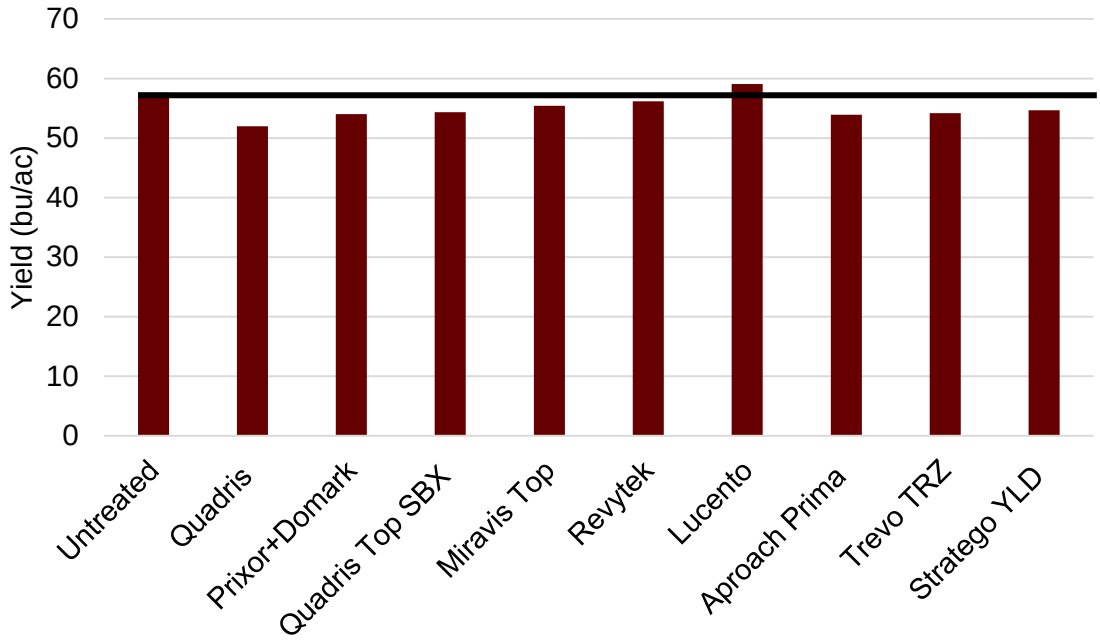
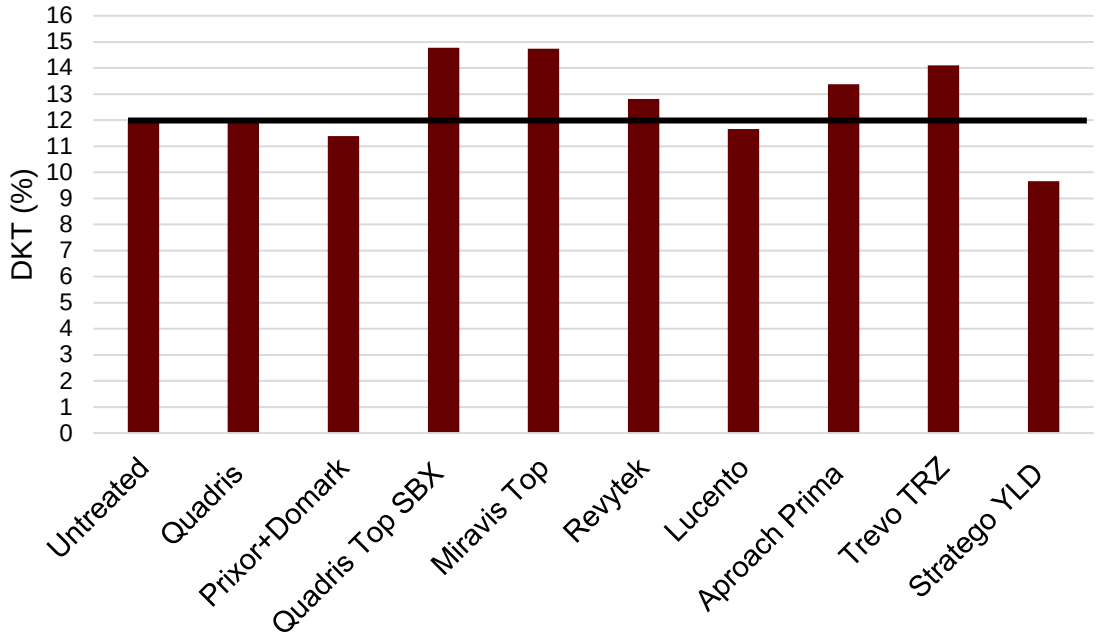


Figure 2: Quality differences (DKT) differences among fungicide treatments (p=0.0730).



Results: No significant yield increases (Figure 1) were observed nor were any significant differences observed in damaged kernels total (Figure 2). These results indicate that no fungicide application evaluated in this study offered a yield gain compared to the untreated check nor were any differences in DKT observed. These findings could be directly related to the growing conditions of the 2022 season at this location. Also, it should be considered that the variety planted at these locations contained an excellent disease package, which likely impacted the yield response of foliar fungicide applications.

EVALUTION OF HARVEST AID EFFICACY FOLLOWING AN APPLICATION FAILURE

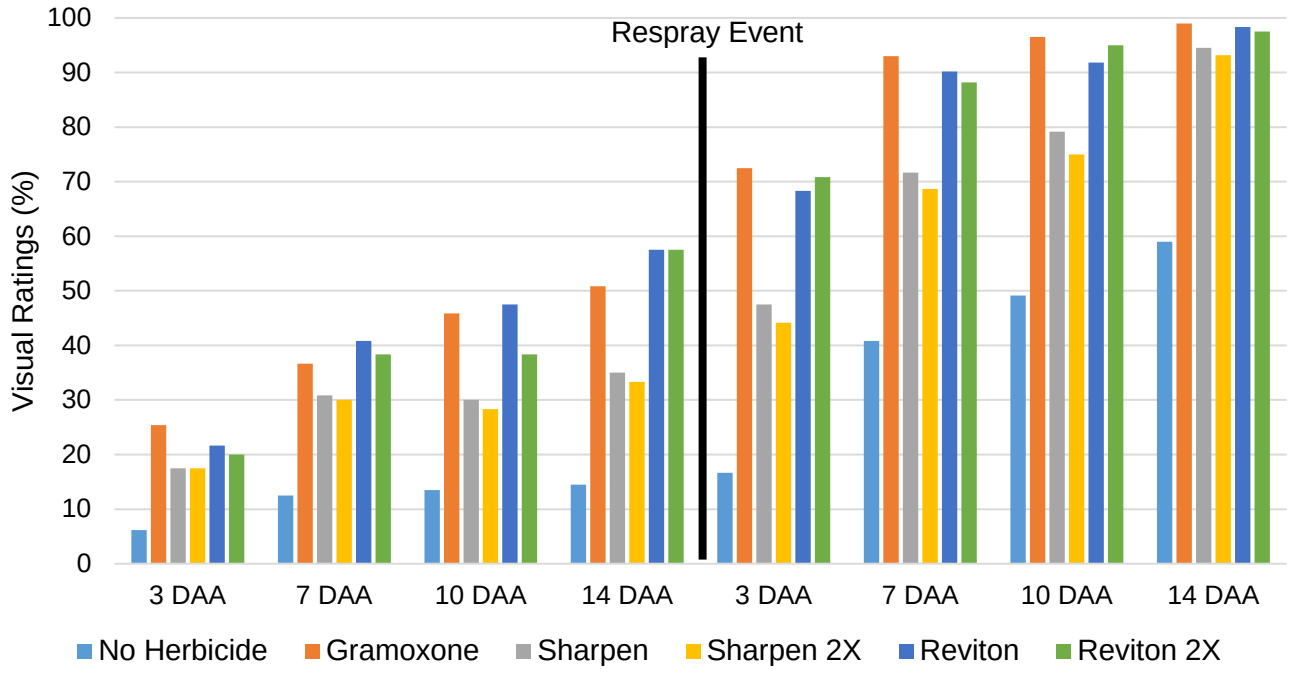
Purpose: To evaluate harvest aid applications on soybean growth and yield after a failed initial harvest aid application.

Procedure: An experiment was conducted in 2022 the R.R. Foil Plant Science Research Center near Starkville, MS. Treatments were arranged in a randomized complete block design with a factorial arrangement of treatments, with Factor A being the addition of sodium chlorate versus no sodium chlorate and Factor B being other harvest aid products for a total of twelve treatments including an untreated check. Treatments are further described in Table 1. Plot size was four 38-inch rows wide by 40 feet long. All harvest aids were applied to soybean at the R6.5 growth stage. Following the R6.5 application a significant weather event occurred which was believed to have caused the harvest aid products to underperform. A second harvest application was made 14 days after the initial application with the exact same treatments applied as the first application. Visual evaluations were collected both before and after the respray event to evaluate overall soybean desiccation The center two rows of each plot were harvested, and soybean yield was adjusted to 13% moisture content.

Table 1: Harvest Aid application treatments described.

TRT No.	Product	Application Rate
1	Untreated Control	
2	Gramoxone SL	0.25 lb ai/ac
2	NIS	0.5% v/v
3	Sharpen	0.0223 lb ai/ac
3	MSO	1.0 %v/v
4	Sharpen	0.0334 lb ai/ac
4	MSO	1.0 %v/v
5	Reviton	0.0221 lb ai/ac
5	MSO	1.0 %v/v
6	Reviton	0.0442 lb ai/ac
6	MSO	1.0 %v/v
7	Sodium chlorate	3 lb ai/ac
8	Sodium chlorate	3 lb ai/ac
8	Gramoxone SL	0.25 lb ai/ac
8	NIS	0.5% v/v
9	Sodium chlorate	3 lb ai/ac
9	Sharpen	0.0223 lb ai/ac
9	MSO	1.0 %v/v
10	Sodium chlorate	3 lb ai/ac
10	Sharpen	0.0334 lb ai/ac
10	MSO	1.0 %v/v
11	Sodium chlorate	3 lb ai/ac
11	Reviton	0.0221 lb ai/ac
11	MSO	1.0 %v/v
12	Sodium chlorate	3 lb ai/ac
12	Reviton	0.0442 lb ai/ac
12	MSO	1.0 %v/v

Figure 1: Desiccation visual ratings when a harvest aid is applied again after a failed initial application.



Results: No significant yield differences were observed (data not shown). Desiccation levels were found to differ (Figure 1). Overall, soybean desiccation was greater across all harvest aid products after the second harvest aid application. Poor environmental conditions such as rain/clouds or drops in air temperature near the time of harvest aid application should be taken into consideration as they may influence how those harvest aid applications might perform. In the event of a failure, these data indicate that when some level of leaves or green stems remain, it is possible to improve desiccation of the crop with a second application. However, additional research should be conducted to further evaluate this phenomenon when possible.

EVALUATION OF SOYBEAN YIELD RESPONSE TO COMMERCIALLY AVAILABLE BIOLOGICAL PRODUCTS

Purpose: To evaluate the use of biological products on soybean growth and yield.

Procedure – Trial 1: Experiments were conducted in 2022 at the R.R. Foil Plant Science Research Center near Starkville, MS and at the Delta Research and Extension Center near Stoneville, MS. Seven biological seed treatments were applied to soybean seed prior to planting. Untreated seed were included in an additional treatment for comparison purposes. Treatment details are displayed in Table 1.1. All treatments were arranged in a randomized complete block (RCB) with 6 replications. Plot size was four 38-inch rows wide by 40 feet long at the Starkville location and four 40-inch wide rows by 40 feet long at the Stoneville location. Asgrow AG 47XF0 was treated prior to planting. Data collection included plant stand counts, crop vigor visual ratings and yield. Soybean was machine harvested and yield was adjusted to 13% moisture content.

Table 1.1: Biological Product Details and Rates.

TRT No.	Product	Seed Treatment Rate
1	BioBuild Soy Bio ST+ R	0.0418 oz / lb
2	SabrEX Soybean PB	0.0087 oz / lb
3	Graph-EX	0.0087 oz / lb
4	Vault IP Plus	0.004 fl. oz / lb
5	LALFix Proyield	0.0150 fl. oz / lb
5	LALRise State SC	0.0024 fl. oz / lb
6	Rise and Shine	0.01000 oz / lb
7	MycoApply EndoFuse	0.0023 fl. oz / lb
8	Untreated Check	

Figure 1: Soybean Yield for Each Treatment (p=0.8115).

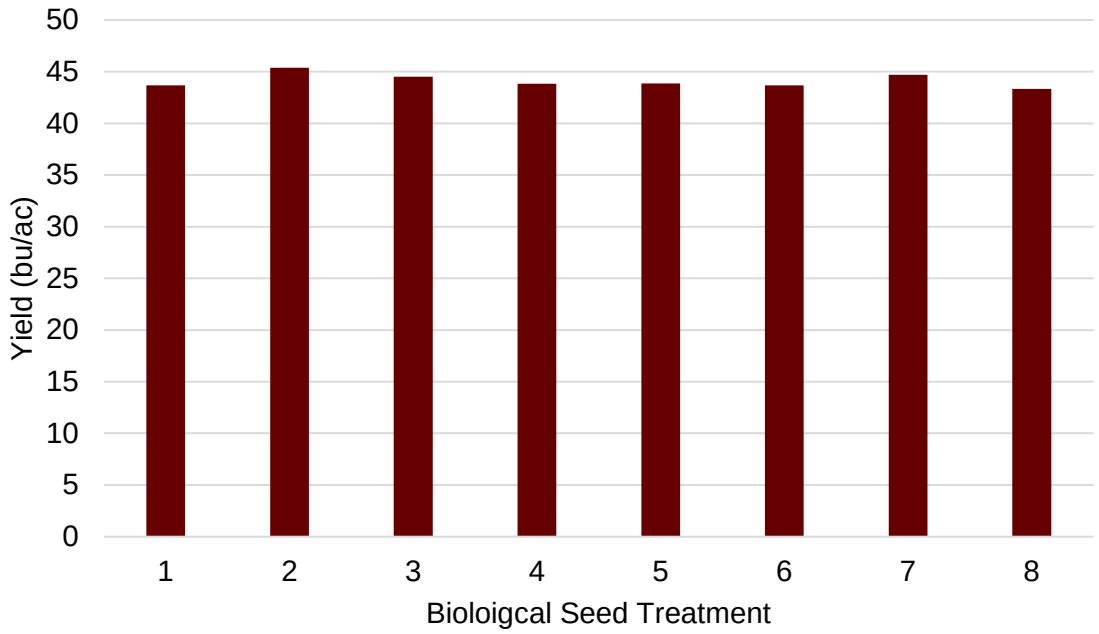


Table 1.2: Soybean Plant Population (p=0.0789) and Visual Crop Vigor (p=0.6467) Scores for Each Treatment.

TRT No.	Stand Count)	Crop Vigor
	---------- (plants/acre) ----------	---------- (1-10) ----------
1	123,347	8.7
2	127,066	8.5
3	131,293	8.3
4	135,936	8.3
5	128,502	8.5
6	133,635	8.6
7	132,157	8.3
8	137,847	8.5

Results – Trial 1: No significant yield increases (Figure 1) nor any differences in plant population or crop vigor (Table 1.2) were observed. These results indicate that no biological seed treatment applied offered a yield gain nor a benefit in plant population or crop vigor when compared to the untreated check.

Procedure – Trial 2: Experiments were conducted in 2022 at the R.R. Foil Plant Science Research Center near Starkville, MS and at the Delta Research and Extension Center near Stoneville, MS. Ten treatments were applied as described in Table 2.1. Treatments were arranged in a randomized complete block (RCB). All treatments were replicated six times at each location. Plot size was four 38-inch rows wide by 40 feet long at the Starkville location and four 40-inch wide rows by 40 feet long at the Stoneville location. Soybean was machine harvested and yield was adjusted to 13% moisture content.

Table 2.1: Biological Product Details, Application Timing, and Soybean Yield.

TRT #	Treatment and Application Description						Yield	
1	Untreated						36.7	A
2	Environoc ST	@ planting					37.4	A
3	Environoc ST	@ planting	BD-Biocast PLUS	@ planting			37.0	A
4	Environoc ST	@ planting	BD-Biocast PLUS	@ planting	PiKSi Dust Plus	@ V3	37.8	A
5	Environoc 401	@ planting					38.4	A
6	Environoc 401	@ planting	BW Meltdown	@ planting			36.6	A
7	BD-Biocast PLUS	@ planting					36.9	A
8	BD-Biocast PLUS	@ planting	PiKSi Dust Plus	@ V3			37.8	A
9	BD-Biocast PLUS	@ planting	BW-Advance	@ R4			36.4	A
10	BD-Biocast PLUS	@ planting	BW-Advance	@ R4	Revytek	@ R4	38.1	A

2022 Soybean Maturity Group IV (MG 4.5 – 4.6) RR2X & XF Variety Response to Iron Deficiency Chlorosis

Brand	Variety	IDC Tolerance Score[1]						Avg. IDC Tolerance Score[2]
Armor	46-F13	5	6	6	6	5	4	5
Asgrow	AG45XF3	5	5	5	6	5	4	5
Delta Grow Seed Co.	DG46X65RR2X/STS	6	5	5	6	6	5	5
Dyna-Gro Seed	S46XF31S	5	5	5	5	4	3	5
Dyna-Gro Seed	S46XS60	5	5	5	5	5	5	5
Great Heart Seed	GT-4677XS	5	5	5	5	5	5	5
Great Heart Seed	GT-4681XFS	5	5	5	5	5	4	5
Innvictis Seed Solutions	A4642XF	5	5	5	6	6	4	5
Innvictis Seed Solutions	A4690XF	5	5	5	5	5	4	5
NK Seeds	45-P9XF	5	6	6	5	6	5	5
Progeny Ag	P 4604XFS	5	6	6	5	6	6	5
Revere	4606XFS	5	6	6	6	5	4	5
Delta Grow Seed Co.	DG46F18	6	7	7	6	6	7	6
Gateway Seed	453RXS	6	6	6	6	6	6	6
Gateway Seed	469XF	6	6	6	7	6	6	6
Innvictis Seed Solutions	A4662XF	6	6	6	6	6	6	6
Progeny Ag	P 4505RXS	6	6	6	6	6	6	6
Progeny Ag	P 4521XFS	6	7	7	7	7	7	6
Revere	4526XF	5	6	6	6	6	5	6
Dyna-Gro Seed	S45XF02	6	7	7	7	7	7	7
Gateway Seed	465RXS	6	7	7	7	7	7	7
MorSoy	MS 4681	7	8	8	7	7	7	7
Beck's	4553XF	7	8	8	8	8	7	8
Innvictis Seed Solutions	A4632XF	7	8	8	8	8	8	8

[1] Tolerance scores were assigned on a scale of 1 to 10 with 1 being completely tolerant and 10 being completely susceptible. The six individual columns under this heading present tolerance scores collected at different rating intervals throughout the growing season. All scores are displayed as an average from two locations (Monroe County, MS & Lowndes County, MS), except for the sixth column, which is from Monroe County, MS only.

[2] Overall tolerance score averaged across all rating intervals and locations. ($p < 0.0001$).

These data are intended to serve as an additional resource for variety selection specifically for soils with a history of problems associated with iron deficiency chlorosis. Consult other sources such as results from Official Variety Trials and Demonstration Programs for detailed

2022 Soybean Maturity Group IV (MG 4.7 – 4.9) RR2X & XF Variety Response to Iron Deficiency Chlorosis

Brand	Variety	IDC Tolerance Score[1]						Avg. IDC Tolerance Score[2]
Beck's	4885XF	5	5	5	4	4	4	4
Armor	48-D25	5	5	5	5	5	3	5
Armor	48-F22	5	5	5	5	5	3	5
Asgrow	AG47XF3	5	6	6	5	5	6	5
Asgrow	AG48XF3	5	5	5	5	5	4	5
Dyna-Gro Seed	S48XT90	5	5	5	5	5	3	5
Gateway Seed	471XF	5	6	6	5	6	6	5
Great Heart Seed	GT-4979X	5	5	5	6	5	5	5
Innvictis Seed Solutions	A4950X	5	6	6	6	5	5	5
MorSoy Seed	MS 4846	6	5	5	6	6	4	5
Revere	4795XS	4	5	5	5	5	5	5
Revere	4806XS	5	6	6	5	5	4	5
Revere	4826XF	5	6	6	5	5	5	5
Revere	4925XFS	5	6	6	5	5	6	5
Delta Grow Seed Co.	DG48F33/STS	5	6	6	6	6	6	6
Delta Grow Seed Co.	DG48X45RR2X/STS	6	6	6	6	6	6	6
Dyna-Gro Seed	S47XF23S	6	6	6	6	6	5	6
Dyna-Gro Seed	S48XF61S	6	6	6	7	7	6	6
Dyna-Gro Seed	S49XF82S	6	7	7	6	6	6	6
Dyna-Gro Seed	S49XT70	6	6	6	6	6	5	6
Great Heart Seed	GT-4756XF	5	6	6	6	6	5	6
Great Heart Seed	GT-4762XF	6	7	7	7	7	7	6
Innvictis Seed Solutions	A4742XF	6	6	6	6	6	6	6
Innvictis Seed Solutions	A4850XF	6	7	7	6	6	7	6
Local Seed	LS4727XF	5	7	7	7	7	6	6
MorSoy Seed	MS 4852	6	6	6	6	6	6	6
NK Seeds	47-Z1XF	6	6	6	6	6	7	6
Progeny Ag	P 4806XFS	6	7	7	6	7	6	6
Asgrow	AG49XF3	6	8	8	8	8	8	7
Delta Grow	49XF29/STS	6	7	7	7	7	7	7
Dyna-Gro	S47XF52	6	7	7	7	7	6	7
Great Heart Seed	GT-4828X	7	7	7	8	7	8	7
Progeny Ag	P 4821RX	6	7	7	7	7	7	7

[1] Tolerance scores were assigned on a scale of 1 to 10 with 1 being completely tolerant and 10 being completely susceptible. The six individual columns under this heading present tolerance scores collected at different rating intervals throughout the growing season. All scores are displayed as an average from two locations (Monroe County, MS & Lowndes County, MS), except for the sixth column, which is from Monroe County, MS only.

[2] Overall tolerance score averaged across all rating intervals and locations. ($p < 0.0001$).

These data are intended to serve as an additional resource for variety selection specifically for soils with a history of problems associated with iron deficiency chlorosis. Consult other sources such as results from Official Variety Trials and Demonstration Programs for detailed

2022 Soybean Maturity Group V RR2X & XF
Variety Response to Iron Deficiency Chlorosis

Brand	Variety	IDC Tolerance Score[1]						Avg. IDC Tolerance Score[2]
NK Seeds	55-T2XF	5	6	6	6	5	4	5
Progeny Ag	P 5252RX	5	6	6	6	6	5	5
Progeny Ag	P 5554RX	5	5	5	6	5	5	5
Revere	LS5614XF	5	5	5	5	4	4	5
Asgrow	AG46XF2	5	6	6	6	6	5	6
Asgrow	AG53XF2	6	7	7	7	7	7	6
Dyna-Gro Seed	S52XT91	5	6	6	6	6	7	6
Revere	LS5386X	6	6	6	7	6	7	6
Revere	LS5588X	5	6	6	6	6	5	6
Delta Grow Seed Co.	DG52F22/STS	6	7	7	8	7	8	7
Delta Grow Seed Co.	DG54F20	6	7	7	7	8	9	7
Great Heart Seed	GT-5214X	6	8	8	7	8	8	7
Innvictis Seed Solutions	A5451XF	6	7	7	7	7	7	7
Progeny Ag	P 5016RXS	6	7	7	7	7	7	7
Revere	LS5029XF	6	7	7	7	7	8	7

[1] Tolerance scores were assigned on a scale of 1 to 10 with 1 being completely tolerant and 10 being completely susceptible. The six individual columns under this heading present tolerance scores collected at different rating intervals throughout the growing season. All scores are displayed as an average from two locations (Monroe County, MS & Lowndes County, MS), except for the sixth column, which is from Monroe County, MS only.

[2] Overall tolerance score averaged across all rating intervals and locations. ($p < 0.0001$).

These data are intended to serve as an additional resource for variety selection specifically for soils with a history of problems associated with iron deficiency chlorosis. Consult other sources such as results from Official Variety Trials and Demonstration Programs for detailed

Soybean Seed Quality Results for Irrigated MG IV EARLY RR2X & XF Varieties from the 2022 On-Farm Variety Demonstration

Brand	Variety	Damaged Kernels Total (DKT) Score by Individual County Location				Overall DKT[3] AVG
		Bolivar	Coahoma	Oktibbeha	Washington	
		05-11-2022[1] 09-30-2022[2]	05-18-2022 10-04-2022	05-13-2022 09-29-2022	05-11-2022 10-04-2022	
Asgrow	AG42XF2	0.3	0.6	1.6	2.0	1.1
Asgrow	AG43XF2	-	0.6	2.3	1.5	1.2
Beck's	4443XF	-	0.2	1.7	0.7	0.7
Delta Grow Seed Co.	44XF41	-	0.3	1.9	1.2	0.9
Dyna-Gro	S43XS70	0.7	0.3	2.5	0.9	1.1
NK Seeds	NK42-T5XF	-	1.2	1.8	2.0	1.5
NK Seeds	NK43-V8XF	-	0.5	4.1	1.2	1.7
NK Seeds	NK44-J4XFS	0.4	0.6	4.8	1.1	1.7
Pioneer	P44A21X	-	0.3	2.6	1.0	1.1
Progeny Ag	P 4200 RXS	1.2	0.8	2.6	2.1	1.7
Progeny Ag	P 4444 RXS	-	0.8	1.2	0.8	0.7
Revere Seed	4299XS	-	0.7	2.1	0.9	1.0
Revere Seed	4415XF	0.2	0.3	1.8	0.5	0.7

[1]Planting Date

[2]Harvest Date

[3]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.2916$). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspection agency.

Soybean Seed Quality Results for Irrigated MG IV (Mixed/Light) RR2X & XF Varieties from the 2022 On-Farm Variety Demonstration

Brand	Variety	Damaged Kernels Total (DKT) Score by Individual County Location							Overall DKT[3] AVG
		Bolivar	Carroll	DeSoto	Leflore	Leflore(2)	Sunflower	Washington	
		05-01-2022[1] 09-20-2022[2]	05-10-2022 10-05-2022	05-10-2022 10-04-2022	04-27-2022 09-28-2022	04-27-2022 09-13-2022	05-10-2022 09-30-2022	05-11-2022 10-04-2022	
Asgrow	AG47XF2	0.1	3.1	-	1.7	2.4	6.5	0.9	2.3
Asgrow	AG48X9	0.4	2.1	0.4	1.4	4.3	0.1	0.9	1.4
Asgrow	AG48XF2	0.8	1.6	1.0	2.7	3.9	0.2	1.7	1.7
Beck's	4553XF	0.1	-	0.5	2.6	3.5	1.4	3.4	2.0
Delta Grow Seed Co.	48X45	0.3	0.3	0.4	1.1	3.6	0.3	-	1.0
Dyna-Gro	S45XF02	0.2	2.1	0.8	2.5	2.6	1.2	1.8	1.6
Dyna-Gro	S48XT90	0.3	1.8	0.5	1.1	4.3	0.8	-	1.5
Great Heart Seed	GT-4677XS	0.4	1.0	0.5	1.3	1.6	0.9	2.3	1.1
Innvictis Seed Solutions	A4690XF	0.3	0.6	0.5	1.5	2.8	0.2	2.1	1.1
NK Seeds	NK48-H3XFS	0.4	1.7	0.7	2.7	3.0	0.7	1.0	1.5
NK Seeds	S49-F5X	0.4	1.9	0.7	-	2.1	1.1	1.1	1.2
Pioneer	P47A64X	0.2	3.4	0.7	1.8	4.7	0.3	1.3	1.8
Progeny Ag	P 4604 XFS	0.5	3.9	0.6	1.5	2.4	0.9	1.6	1.6
Progeny Ag	P 4806 XFS	0.6	3.1	0.5	1.1	4.9	0.5	2.6	1.9
Revere Seed	4795XS	0.9	0.7	0.3	0.7	2.5	0.6	2.3	1.1
Revere Seed	4925XFS	0.6	3.5	0.2	1.5	3.4	0.5	-	1.6

[1]Planting Date

[2]Harvest Date

[3]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.4938$). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspection agency.

Soybean Seed Quality Results for Irrigated MG IV (Clay) RR2X & XF Varieties from the 2022 On-Farm Variety Demonstration

Brand	Variety	Damaged Kernels Total (DKT) Score by Individual County Location					Overall DKT[3] AVG
		Bolivar	Humphreys	Sharkey	Sunflower	Washington	
		05-05-2022[1] 10-04-2022[2]	05-05-2022 10-06-2022	06-01-2022 10-10-2022	05-02-2022 09-29-2022	05-11-2022 10-04-2022	
Asgrow	AG47XF2	0.8	0.9	2.5	0.8	2.1	1.4
Asgrow	AG48X9	1.2	0.9	2.3	0.6	1.1	1.2
Asgrow	AG48XF2	0.9	1.4	2.8	1.1	3.7	2.0
Beck's	4885XF	1.0	1.2	4.7	0.9	-	2.0
Dyna-Gro	S46XF31S	0.7	0.8	2.4	0.7	-	1.2
Dyna-Gro	S47XF23	0.8	0.4	1.9	1.0	1.0	1.0
Great Heart Seed	GT-4979X	1.3	-	4.6	1.0	2.0	2.1
Innvictis Seed Solutions	A4850XF	0.9	0.5	2.7	-	2.4	1.5
NK Seeds	NK45-P9XF	0.8	1.4	3.0	1.4	2.0	1.7
NK Seeds	S49-F5X	1.1	-	4.1	1.7	2.2	2.1
Pioneer	P48A32X	1.1	0.3	4.1	0.6	0.7	1.4
Progeny Ag	P 4505 RXS	0.7	1.2	4.0	1.2	1.8	1.8
Progeny Ag	P 4604 XFS	0.9	1.2	3.5	0.5	0.9	1.4
Revere Seed	4606XFS	0.7	0.8	2.5	1.0	0.8	1.2
Revere Seed	4806XS	1.1	1.0	3.3	0.8	3.1	1.9

[1]Planting Date

[2]Harvest Date

[3]DKT scores were analyzed in SAS 9.4, average scores were found to be significantly different across the varieties that were evaluated ($\alpha = 0.0360$). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspection agency.

Soybean Seed Quality Results for Non-Irrigated MG IV (Mixed/Light) RR2X & XF Varieties from the 2022 On-Farm Variety Demonstration

Brand	Variety	Damaged Kernels Total (DKT) Score by Individual County Location				Overall DKT[3] AVG
		Benton	Monroe	Oktibbeha	Rankin	
		05-12-2022[1] 10-11-2022[2]	05-04-2022 09-28-2022	05-09-2022 09-27-2022	04-21-2022 09-15-2022	
Asgrow	AG47XF2	0.5	0.5	3.6	19.8	6.1
Asgrow	AG48X9	0.4	3.2	2.9	7.7	3.5
Asgrow	AG48XF2	0.8	8.5	6.9	16.6	8.2
Beck's	4553XF	0.6	7.1	3.9	22.2	8.4
Delta Grow Seed Co.	48X45	1.1	-	2.6	15.8	6.7
Dyna-Gro	S45XF02	0.5	7.2	7.2	25.3	10.1
Dyna-Gro	S48XT90	0.6	12.5	2.7	8.2	6.0
Great Heart Seed	GT-4677XS	0.7	11.1	4.2	14.6	7.7
Innvictis Seed Solutions	A4690XF	0.3	10.9	13.3	13.2	9.4
NK Seeds	NK48-H3XFS	0.5	6.6	8.0	8.9	6.0
NK Seeds	S49-F5X	0.9	2.1	6.8	13.9	5.9
Pioneer	P47A64X	0.4	-	7.0	12.9	6.9
Progeny Ag	P 4604 XFS	0.6	8.9	5.0	14.8	7.3
Progeny Ag	P 4806 XFS	1.7	11.9	7.7	23.0	11.1
Revere Seed	4795XS	0.3	8.0	1.9	10.7	5.2
Revere Seed	4925XFS	1.3	11.2	2.2	11.9	6.6

[1]Planting Date

[2]Harvest Date

[3]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.3135$). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspection agency.

Soybean Seed Quality Results for Non-Irrigated MG V RR2X & XF Varieties from the 2022 On-Farm Variety Demonstration

Brand	Variety	Damaged Kernels Total (DKT) Score by Individual County Location						Overall DKT[3] AVG
		Hinds	Lee	Monroe	Monroe(2)	Oktibbeha	Pontotoc	
		05-10-2022[1] 10-11-2022[2]	06-03-2022 10-17-2022	05-12-2022 10-21-2022	05-10-2022 10-12-2022	05-09-2022 09-27-2022	05-17-2022 10-06-2022	
Asgrow	AG53XF2	3.1	0.3	0.6	5.0	4.3	1.6	2.5
Dyna-Gro	S52XT91	3.8	0.6	1.7	5.4	2.4	0.8	2.5
Dyna-Gro	S56XT99	4.2	0.2	0.3	3.0	1.1	0.7	1.6
NK Seeds	S53-F7X	2.7	0.7	0.8	3.3	3.0	0	1.8
Pioneer	P53A67X	1.9	0.4	0.1	0.5	1.7	1.5	1.0
Progeny Ag	P 5554 RX	-	0.2	0.3	2.2	1.1	0.2	1.0
Revere Seed	5029XF	3.5	0.1	0.4	5.9	5.6	0.6	2.7
Revere Seed	5386X	3.6	0.2	1.6	5.8	1.8	0.7	2.3

[1]Planting Date

[2]Harvest Date

[3]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.0438$). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspection agency.

Soybean Seed Quality Results for Non-Irrigated MG IV ENLIST E3 Varieties from the 2022 On-Farm Variety Demonstration

Brand	Variety	Damaged Kernels Total (DKT) Score by Individual County Location		Overall DKT[3] AVG
		Oktibbeha	Pontotoc	
		05-04-2022[1] 09-28-2022[2]	05-17-2022 10-06-2022	
Delta Grow Seed Co.	47E20	2.2	0.3	1.3
Delta Grow Seed Co.	52E80	2.2	0.6	1.4
Dyna-Gro	S46ES91	4.4	0.6	2.5
Dyna-Gro	S49EN12	4.4	0.4	2.4
Pioneer	P42A84E	5.2	1.0	3.1
Pioneer	P48A14E	1.9	0.1	1.0
Pioneer	P52A14SE	2.3	0.5	1.4
Progeny Ag	P 4775 E3S	1.3	0.9	1.1
Progeny Ag	P 5521 E3	-	0.7	1.9

[1]Planting Date

[2]Harvest Date

[3]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.4453$). DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspection agency.

2022 Soybean Variety Demonstration Program

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During the 2022 growing season, a total of 30 on-farm soybean variety demonstration plots were successfully conducted. The following information is intended to complement data generated through small-plot variety testing programs.

2022 Locations

County	Demonstration Type	Irrigation Method
Benton	MG IV RR2X & XF (Mixed/Light Soil)	None
Bolivar	MG IV EARLY RR2X & XF	Furrow
Bolivar	MG IV RR2X & XF (Clay Soil)	Furrow
Bolivar	MG IV RR2x & XF (Mixed/Light Soil)	Furrow
Carroll	MG IV RR2X & XF (Mixed/Light Soil)	Furrow
Coahoma	MG IV EARLY RR2X & XF	Furrow
DeSoto	MG IV RR2X & XF (Mixed/Light Soil)	Furrow
Hinds	MG V RR2X & XF	None
Humphreys	MG IV RR2X & XF (Clay Soil)	Furrow
Lee	MG V RR2X & XF	None
Leflore	MG IV RR2X & XF (Mixed/Light Soil)	Furrow
Leflore	MG IV RR2X & XF (Mixed/Light Soil)	Furrow
Lowndes	MG IV RR2X & XF (Clay Soil)	None
Lowndes	MG V RR2X & XF	None
Monroe	MG IV RR2X & XF (Mixed/Light Soil)	None
Monroe	MG V RR2X & XF	None
Monroe	MG V RR2X & XF	None
Oktibbeha	MG IV EARLY RR2X & XF	Furrow
Oktibbeha	MG IV RR2X & XF (Mixed/Light Soil)	None
Oktibbeha	MG V RR2X & XF	None
Oktibbeha	MG IV Enlist E3	None
Pontotoc	MG V RR2X & XF	None
Pontotoc	MG IV Enlist E3	None
Rankin	MG IV RR2X & XF (Mixed/Light Soil)	None
Sharkey	MG IV RR2X & XF (Clay Soil)	Furrow
Sunflower	MG IV RR2X & XF (Clay Soil)	Furrow
Sunflower	MG IV RR2X & XF (Mixed/Light Soil)	Furrow
Washington	MG IV EARLY RR2X & XF	Furrow
Washington	MG IV RR2X & XF (Clay Soil)	Furrow
Washington	MG IV RR2X & XF (Mixed/Light Soil)	Furrow

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Mississippi State University Extension wishes to express special thanks to the many producers who cooperated with this year's on-farm soybean variety demonstration program as well as to the Mississippi Soybean Promotion Board for their continued support of these efforts. In addition, the seed companies and their representatives are sincerely appreciated for their support of this program. The relationships among participating individuals are critical for the continued success of this program.

Assistance in the conduct of this program provided by: Paul O'Neal, Michael Quin, and Ben Stoker.

2022 Location Details

County	Plot Type	Planting Date	Seeding Rate	Plot Width	Row Spacing	Tillage System	Soil Series	Irrigation Method	Harvest Date
Benton	MG IV RR2X & XF (Mixed/Light Soil)	12-May	140,000	14 rows	15”	No-Till	Arkabutla silt loam	None	11-Oct
Bolivar	MG IV EARLY RR2X & XF	11-May	145,000	6 twin rows	38”	Conv.	Pearson silt loam	Furrow	30-Sept
Bolivar	MG IV RR2X & XF (Clay Soil)	5-May	138,000	6 twin rows	38”	Conv.	Sharkey clay	Furrow	4-Oct.
Bolivar	MG IV RR2x & XF (Mixed/Light Soil)	1-May	130,000	6 twin rows	38”	Conv.	Forestdale silty clay loam	Furrow	20-Sept
Carroll	MG IV RR2X & XF (Mixed/Light Soil)	10-May	124,000	6 rows	38”	Conv.	Alder silt loam	Furrow	5-Oct
Coahoma	MG IV EARLY RR2X & XF	18-May	135,000	6 rows	40”	Conv.	Bosket sandy loam	Furrow	4-Oct
DeSoto	MG IV RR2X & XF (Mixed/Light Soil)	10-May	128,000	8 rows	40”	Conv.	Bosket very fine sandy loam	Furrow	4-Oct
Hinds	MG V RR2X & XF	10-May	120,000	6 rows	38”	Conv.	Memphis silt loam	None	11-Oct
Humphreys	MG IV RR2X & XF (Clay Soil)	5-May	133,000	12 rows	38”	Conv.	Alligator-Dowling clay	Furrow	6-Oct
Lee	MG V RR2X & XF	3-June	128,000	15 rows	19”	No-Till	Chewacla loam	None	17-Oct
Leflore	MG IV RR2X & XF (Mixed/Light Soil)	27-Apr	118,000	16 rows	38”	Conv.	Dundee loam	Furrow	28-Sept
Leflore	MG IV RR2X & XF (Mixed/Light Soil)	27- Apr	140,000	6 rows	38”	Conv.	Tensas silty clay loam	Furrow	13-Sept
Lowndes	MG IV RR2X & XF (Clay Soil)	9-May	120,000	6 rows	30”	Conv.	Okolona silty clay	None	28-Sept
Lowndes	MG V RR2X & XF	9-May	120,000	6 rows	30”	Conv.	Okolona silty clay	None	28-Sept
Monroe	MG IV RR2X & XF (Mixed/Light Soil)	4-May	130,000	6 rows	30”	Min. Till	Vaiden silty clay	None	28-Sept
Monroe	MG V RR2X & XF	10-May	120,000	6 rows	30”	Min. Till	Stough fine sandy loam	None	12-Oct
Monroe	MG V RR2X & XF	12-May	130,000	12 rows	30”	Min. Till	Vaiden silty clay	None	21-Oct
Oktibbeha	MG IV EARLY RR2X & XF	13-May	130,000	2 rows	38”	Conv.	Catalpa silty clay loam	Furrow	29-Sept
Oktibbeha	MG IV RR2X & XF (Mixed/Light Soil)	9-May	130,000	2 rows	38”	Conv.	Leeper silty clay loam	None	27-Sept
Oktibbeha	MG V RR2X & XF	9-May	130,000	2 rows	38”	Conv.	Leeper silty clay loam	None	27-Sept
Oktibbeha	MG IV Enlist E3	4-May	132,000	8 rows	38”	Conv.	Marietta fine sandy loam	None	22-Sept
Pontotoc	MG V RR2X & XF	17-May	128,000	8 rows	30”	No-Till	Falkner silt loam	None	6-Oct
Pontotoc	MG IV Enlist E3	17-May	128,000	8 rows	30”	No-Till	Falkner silt loam	None	6-Oct
Rankin	MG IV RR2X & XF (Mixed/Light Soil)	21-Apr	130,000	8 rows	38”	Conv.	Kipling silt loam	None	15-Sept
Sharkey	MG IV RR2X & XF (Clay Soil)	1-June	135,000	6 rows	38”	Conv.	Sharkey clay	Furrow	10-Oct
Sunflower	MG IV RR2X & XF (Clay Soil)	2-May	130,000	8 twin rows	38”	Conv.	Alligator clay	Furrow	29-Sept
Sunflower	MG IV RR2X & XF (Mixed/Light Soil)	10-May	140,000	6 rows	38”	Conv.	Dundee sandy loam	Furrow	30-Sept
Washington	MG IV EARLY RR2X & XF	11-May	139,000	8 twin rows	40”	Conv.	Sharkey clay	Furrow	4-Oct
Washington	MG IV RR2X & XF (Clay Soil)	11-May	139,000	8 twin rows	40”	Conv.	Sharkey clay	Furrow	4-Oct
Washington	MG IV RR2X & XF (Mixed/Light Soil)	11-May	139,000	8 twin rows	40”	Conv.	Bosket very fine sandy loam	Furrow	4-Oct

Soybean Variety Characteristics

Maturity Group IV Early Roundup Ready 2 Xtend & XtendFlex Set

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
Asgrow	AG42XF2	4.2	XF	I	MB	T	LT
Asgrow	AG43XF2	4.3	XF	I	MB	MT	LT
Beck's	4443XF	4.4	XF	I	T	T	G
Delta Grow Seed Co.	44XF41	4.4	XF	I	MB	TM	LT
Dyna-Gro Seed	S43XS70	4.3	RR2X/STS	I	M	TM	LT
NK Seeds	NK42-T5XF	4.2	XF	I	M	TM	LT
NK Seeds	NK43-V8XF	4.3	XF	I	M	TM	LT
NK Seeds	NK44-J4XFS	4.4	XF/STS	I	M	MT	G
Pioneer	P44A21X	4.4	RR2X	I	MB	MT	LT
Progeny Ag	P 4200RXS	4.2	RR2X/STS	I	MB	MT	LT
Progeny Ag	P 4444RXS	4.4	RR2X/STS	I	MB	M	LT
Revere	4299XS	4.2	RR2X/STS	I	M	MT	LT
Revere	4415XF	4.4	XF	I	MB	M	LT

[1] – RR2X = Roundup Ready 2 Xtend; XF = XtendFlex; SR/STS = sulfonylurea tolerant soybean
[2] – I = indeterminate; D = determinate
[3] – T = thin; M = medium; MB = medium-bushy; B = bushy
[4] – S = short; M = medium; MT = medium-tall; T = tall
[5] – G = gray; LT = light tawny; T = tawny

Soybean Variety Characteristics (cont.)

Maturity Group IV Roundup Ready 2 Xtend & XtendFlex Set (includes both Mixed/Light and Clay soil specific varieties)

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
Asgrow	AG47XF2	4.7	XF	I	MB	M	LT
Asgrow	AG48X9	4.8	RR2X	I	MB	MT	LT
Asgrow	AG48XF2	4.8	XF	I	MB	MT	T
Beck's	4553XF	4.5	XF	I	B	M	LT
Beck's	4885XF	4.8	XF	I	T	T	LT
Delta Grow Seed Co.	DG48X45RR2X/STS	4.8	RR2X	I	B	M	T
Dyna-Gro Seed	S45XF02	4.5	XF	I	MB	M	LT
Dyna-Gro Seed	S46XF31S	4.6	XF/STS	I	MB	T	LT
Dyna-Gro Seed	S47XF23	4.7	XF/STS	I	MB	MT	LT
Dyna-Gro Seed	S48XT90	4.8	RR2X	I	MB	M	LT
Great Heart Seed	GT-4677XS	4.6	RR2X/STS	I	MB	MT	LT
Great Heart Seed	GT-4979X	4.9	RR2X	I	M	MT	LT
Innvictis Seed Solutions	A4690XF	4.6	XF/STS	I	MB	T	LT
Innvictis Seed Solutions	A4850XF	4.8	XF/STS	I	M	MT	T
NK Seeds	NK45-P9XF	4.5	XF	I	M	T	LT
NK Seeds	NK48-H3XFS	4.8	XF/STS	I	M	MT	G
NK Seeds	S49-F5X	4.9	RR2X	I	MB	MT	LT
Pioneer	P47A64X	4.7	RR2X	I	MB	MT	G
Pioneer	P48A32X	4.8	RR2X	I	MB	MT	LT
Progeny Ag	P 4505 RXS	4.5	RR2X/STS	I	MB	MT	LT
Progeny Ag	P 4604 XFS	4.6	XF/STS	I	MB	T	LT
Progeny Ag	P 4806 XFS	4.8	XF/STS	I	M	T	LT
Revere	4606XFS	4.6	XF/STS	I	MB	MT	LT
Revere	4806XS	4.8	RR2X/STS	I	M	M	LT
Revere	4795XS	4.7	RR2X/STS	I	MB	M	LT
Revere	4925XFS	4.9	XF/STS	I	MB	MT	LT

[1] – RR2X = Roundup Ready 2 Xtend; XF = XtendFlex; SR/STS = sulfonylurea tolerant soybean
[2] – I = indeterminate; D = determinate
[3] – T = thin; M = medium; MB = medium-bushy; B = bushy
[4] – S = short; M = medium; MT = medium-tall; T = tall
[5] – G = gray; LT = light tawny; T = tawny

Soybean Variety Characteristics (cont.)

Maturity Group V Roundup Ready 2 Xtend & XtendFlex Set

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
Asgrow	AG53XF2	5.3	XF	I	MB	T	LT
Dyna-Gro Seed	S52XT91	5.2	RR2X	I	MB	MT	T
Dyna-Gro Seed	S56XT99	5.6	RR2X	D	MB	T	T
NK Seeds	S53-F7X	5.3	RR2X	I	M	T	G
Pioneer	P53A67X	5.3	RR2X	D	M	M	G
Progeny Ag	P 5554 RX	5.5	RR2X	D	B	M	T
Revere	5029XF	5.0	XF	I	B	T	LT
Revere	5386X	5.3	RR2X	I	M	M	LT

[1] – RR2X = Roundup Ready 2 Xtend; XF = XtendFlex; SR/STS = sulfonylurea tolerant soybean
[2] – I = indeterminate; D = determinate
[3] – T = thin; M = medium; MB = medium-bushy; B = bushy
[4] – S = short; M = medium; MT = medium-tall; T = tall
[5] – G = gray; LT = light tawny; T = tawny

Soybean Variety Characteristics (cont.)

Maturity Group IV & V Enlist E3 Set

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
Delta Grow Seed Co.	DG 47E20/STS	4.7	E3/STS	I	MB	MT	G
Delta Grow Seed Co.	DG 52E80	5.2	E3	I	MB	MT	LT
Dyna-Gro Seed	S46ES91	4.6	E3/STS	I	M	MT	G
Dyna-Gro Seed	S49EN12	4.9	E3	I	M	MT	LT
Pioneer	P42A84E	4.2	E3	I	T	MT	LT
Pioneer	P48A14E	4.8	E3	I	T	MT	LT
Pioneer	P52A14SE	5.2	E3/STS	D	M	S	G
Progeny Ag	P 4775E3S	4.7	E3/STS	I	MB	MT	G
Progeny Ag	P 5521 E3	5.5	E3	I	MB	MT	G

[1] – E3 = Enlist; STS = sulfonylurea tolerant soybean
[2] – I = indeterminate; D = determinate
[3] – T = thin; M = medium; MB = medium-bushy; B = bushy
[4] – S = short; M = medium; MT = medium-tall; T = tall
[5] – G = gray; LT = light tawny; T = tawny

Maturity Group IV EARLY Roundup Ready 2 Xtend & XtendFlex Varieties Summarized across Irrigated Locations							
Total number of locations:		**4**					
Planting date range:		**11-May-21 to 18-May-22**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score**	**Avg. Shattering Score**	**Avg. Green Stem Score**	**Avg. Seed Moisture**	**Average Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P44A21X	41	2	0	0	9.4	72.5
Progeny Ag	P 4200 RXS	42	4	0	0	9.8	71.7
NK Seeds	NK44-J4XFS	40	2	0	0	9.9	71.6
NK Seeds	NK43-V8XF	43	4	0	1	9.8	71.0
Dyna-Gro Seed	S43XS70	43	2	0	0	9.2	70.9
Revere	4299XS	40	3	0	0	9.4	70.3
NK Seeds	NK42-T5XF	37	2	0	0	9.9	68.8
Asgrow	AG43XF2	41	2	0	0	9.6	68.0
Revere	4415XF	39	3	0	0	9.8	67.7
Beck's	4443XF	41	2	0	0	9.7	65.3
Progeny Ag	P 4444 RXS	39	3	0	0	9.5	64.5
Delta Grow Seed Co.	44XF41	42	2	0	0	9.3	62.4
Asgrow	AG42XF2	41	3	0	0	9.7	61.8
Average across all irr. locations:						**9.6**	**68.2**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Maturity Group IV (Mixed/ Light Soil) Roundup Ready 2 Xtend & XtendFlex Varieties Summarized across Irrigated Locations							
Total number of locations:		**7**					
Planting date range:		**27-Apr-22 to 14-May-22**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score**	**Avg. Shattering Score**	**Avg. Green Stem Score**	**Avg. Seed Moisture**	**Average Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4806 XFS	36	2	1	2	9.9	67.2
Asgrow	AG47XF2	36	2	0	1	9.6	66.3
Pioneer	P47A64X	41	3	0	1	9.5	66.1
Asgrow	AG48XF2	36	2	1	0	9.6	65.5
Revere	4795XS	38	2	0	1	9.4	65.2
Delta Grow Seed Co.	48X45	36	2	0	1	9.9	65.1
Beck's	4553XF	35	2	0	1	9.5	64.9
Great Heart Seed	GT-4677XS	37	2	1	0	9.5	64.9
Progeny Ag	P 4604 XFS	43	2	0	1	9.6	64.6
NK Seeds	NK48-H3XFS	37	3	1	1	9.9	64.1
Asgrow	AG48X9	41	2	0	1	9.5	63.5
Dyna-Gro Seed	S45XF02	38	2	0	1	9.8	62.9
NK Seeds	S49-F5X	37	2	0	0	9.8	62.9
Dyna-Gro Seed	S48XT90	39	3	0	1	10.1	61.9
Innvictis Seed Solutions	A4690XF	41	3	0	1	9.7	61.8
Revere	4925XFS	42	2	0	1	9.6	60.8
Average across all irr. locations:						**9.7**	**64.2**

[1]- Soybean yield adjusted to standard moisture content of 13.0%

[2]- S cores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Maturity Group IV (Mixed/ Light Soil) Roundup Ready 2 Xtend & XtendFlex Varieties Summarized across Non-Irrigated Locations							
Total number of locations:		**4**					
Planting date range:		**21-Apr-22 to 12-May-22 or**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score**	**Avg. Shattering Score**	**Avg. Green Stem Score**	**Avg. Seed Moisture**	**Average Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P47A64X	41	1	0	2	11.3	66.1
Dyna-Gro Seed	S48XT90	36	3	0	4	13.7	63.5
Asgrow	AG48X9	37	2	0	1	11.5	63.3
Revere	4795XS	36	2	0	2	11.8	63.1
Progeny Ag	P 4604 XFS	40	2	0	1	11.5	59.4
NK Seeds	S49-F5X	34	1	0	1	11.2	58.2
NK Seeds	NK48-H3XFS	29	1	0	2	12.3	57.2
Delta Grow Seed Co.	48X45	33	1	0	5	12.1	57.0
Great Heart Seed	GT-4677XS	32	1	0	1	11.4	56.8
Innvictis Seed Solutions	A4690XF	39	2	0	1	11.4	56.7
Revere	4925XFS	37	1	0	1	11.8	56.1
Asgrow	AG48XF2	32	2	1	2	11.4	54.7
Dyna-Gro Seed	S45XF02	32	1	0	2	12.0	54.0
Beck's	4553XF	29	1	0	2	11.8	53.5
Asgrow	AG47XF2	33	1	0	3	11.6	53.2
Progeny Ag	P 4806 XFS	30	1	0	4	11.4	49.3
Average across all non-irr. locations:						**11.7**	**57.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex Varieties Summarized across Irrigated Locations							
Total number of locations:		**5**					
Planting date range:		**5-May-22 to 1-Jun-22**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score**	**Avg. Shattering Score**	**Avg. Green Stem Score**	**Avg. Seed Moisture**	**Average Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4505 RX	39	3	0	0	8.8	68.3
NK Seeds	S49-F5X	37	2	0	1	8.3	67.9
Asgrow	AG47XF2	35	2	0	0	8.4	65.6
Pioneer	P48A32X	40	2	0	1	8.6	65.3
Dyna-Gro Seed	S47XF23	36	2	0	0	8.8	64.8
Progeny Ag	P 4604 XFS	37	2	0	0	8.4	64.0
Asgrow	AG48XF2	36	2	0	0	8.8	63.8
Asgrow	AG48X9	38	2	0	1	8.6	63.5
NK Seeds	NK45-P9XF	38	3	0	0	8.3	63.4
Innvictis Seed Solutions	A4850XF	37	2	0	2	8.9	63.3
Dyna-Gro Seed	S46XF31S	39	2	0	0	8.4	63.2
Beck's	4885X	37	2	0	0	8.5	62.9
Revere	4806XS	36	1	0	1	8.5	62.2
Revere	4606XFS	40	2	0	0	8.4	61.3
Great Heart Seed	GT-4979X	42	2	0	1	8.5	59.3
Average across all irr. locations:						**8.5**	**63.9**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Maturity Group V Roundup Ready 2 Xtend & XtendFlex Varieties Summarized across Non-Irrigated Locations							
Total number of locations:		**7**					
Planting date range:		**9-May-22 to 3-Jun-22**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score**	**Avg. Shattering Score**	**Avg. Green Stem Score**	**Avg. Seed Moisture**	**Average Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P53A67X	25	1	0	2	11.5	51.4
Revere	5386X	36	1	1	2	11.8	51.2
Revere	5029XF	33	3	1	3	12.0	51.0
Dyna-Gro Seed	S52XT91	31	2	1	2	12.2	50.9
NK Seeds	S53-F7X	32	2	1	3	11.8	50.6
Asgrow	AG53XF2	34	1	1	2	12.8	49.9
Dyna-Gro Seed	S56XT99	29	1	1	2	11.0	49.9
Progeny Ag	P 5554 RX	29	1	1	1	12.0	49.0
Average across all non-irr. locations:						**11.9**	**50.5**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Benton County – Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Revere	4795XS	35	1	1	0	9.6	59.0
NK Seeds	S49-F5X	33	0	0	0	9.1	57.6
Great Heart Seed	GT-4677XS	28	0	0	0	9.2	55.5
Asgrow	AG48X9	37	1	0	0	8.8	55.5
Dyna-Gro Seed	S48XT90	34	2	0	3	9.6	54.9
Pioneer	P47A64X	39	0	0	1	9.1	54.8
NK Seeds	NK48-H3XFS	26	0	0	0	9.8	54.2
Beck's	4553XF	30	0	0	0	9.5	53.9
Progeny Ag	P 4604 XFS	37	1	0	0	9.7	53.9
Innvictis Seed Solutions	A4690XF	36	0	1	0	9.1	53.0
Asgrow	AG47XF2	33	1	0	0	9.8	52.0
Asgrow	AG48XF2	31	0	0	1	9.4	51.8
Dyna-Gro Seed	S45XF02	30	0	0	0	9.4	51.2
Progeny Ag	P 4806 XFS	27	0	0	2	7.9	47.9
Revere	4925XFS	37	0	0	0	9.6	47.4
Delta Grow Seed Co.	48X45	31	0	0	2	9.7	45.1
Plot Average:						**9.3**	**53.0**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Bolivar County – Irrigated Maturity Group IV EARLY Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
NK Seeds	NK43-V8XF	45	4	0	0	10.3	70.0
NK Seeds	NK44-J4XFS	44	3	0	0	10.7	68.9
NK Seeds	NK42-T5XF	39	2	0	0	10.3	68.5
Revere	4299XS	42	2	0	0	9.8	67.7
Dyna-Gro Seed	S43XS70	43	2	0	0	9.7	67.2
Progeny Ag	P 4200 RXS	46	4	0	0	10.0	64.7
Asgrow	AG42XF2	53	3	0	0	9.5	64.4
Revere	4415XF	43	4	0	0	9.7	64.0
Asgrow	AG43XF2	44	1	0	0	10.1	62.2
Pioneer	P44A21X	42	3	0	0	9.4	61.7
Delta Grow Seed Co.	44XF41	46	1	0	0	9.5	60.1
Progeny Ag	P 4444 RXS	42	4	0	0	9.5	59.2
Beck's	4443XF	44	2	0	0	9.9	58.6
Plot Average:						**9.8**	**64.4**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Bolivar County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4505 RX	40	3	0	0	8.4	85.1
NK Seeds	S49-F5X	40	3	0	0	7.4	84.7
Progeny Ag	P 4604 XFS	39	3	0	0	8.5	80.7
Asgrow	AG47XF2	42	2	0	0	7.6	79.3
Innvictis Seed Solutions	A4850XF	40	1	0	0	8.2	76.3
Asgrow	AG48XF2	41	1	0	0	8.3	75.7
Dyna-Gro Seed	S47XF23	35	1	0	0	8.4	74.8
Beck's	4885X	39	2	0	0	8.4	74.5
Asgrow	AG48X9	37	3	0	0	8.8	72.9
Pioneer	P48A32X	46	2	0	0	8.6	72.9
Revere	4806XS	39	2	0	0	8.4	72.4
Dyna-Gro Seed	S46XF31S	40	2	0	0	7.8	71.8
Great Heart Seed	GT-4979X	48	2	0	1	8.6	71.7
NK Seeds	NK45-P9XF	39	3	0	0	7.7	71.4
Revere	4606XFS	41	2	0	0	7.6	69.9
Plot Average:						**8.2**	**75.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Bolivar County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Asgrow	AG47XF2	46	3	0	0	9.1	71.6
NK Seeds	S49-F5X	46	2	0	0	9.4	70.4
Pioneer	P47A64X	48	2	0	0	8.8	69.3
Beck's	4553XF	42	2	0	0	9.5	69.0
Progeny Ag	P 4806 XFS	41	2	0	0	9.2	69.0
Revere	4795XS	44	3	0	0	9.0	67.4
Asgrow	AG48XF2	42	3	0	0	8.9	67.2
Revere	4925XFS	49	2	0	0	9.9	66.3
Delta Grow Seed Co.	48X45	45	3	0	0	9.1	66.0
Dyna-Gro Seed	S45XF02	41	2	0	0	9.3	65.5
Great Heart Seed	GT-4677XS	45	2	0	0	9.3	64.6
Progeny Ag	P 4604 XFS	51	3	0	0	9.2	64.0
Asgrow	AG48X9	49	2	0	0	9.0	63.1
NK Seeds	NK48-H3XFS	44	2	0	0	9.6	59.9
Innvictis Seed Solutions	A4690XF	53	3	0	0	9.3	58.6
Dyna-Gro Seed	S48XT90	46	2	0	0	9.4	58.0
Plot Average:						**9.3**	**65.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Carroll County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Asgrow	AG48XF2	26	1	4	2	10.6	53.9
Pioneer	P47A64X	33	1	1	3	10.2	53.5
Delta Grow Seed Co.	48X45	24	1	2	5	10.6	53.4
NK Seeds	S49-F5X	36	2	2	3	9.9	53.3
Innvictis Seed Solutions	A4690XF	35	2	2	3	10.9	52.4
Revere	4795XS	30	1	2	5	10.5	52.3
Dyna-Gro Seed	S48XT90	29	1	2	5	11.4	52.0
Asgrow	AG47XF2	24	2	0	4	10.8	51.3
Progeny Ag	P 4604 XFS	36	1	0	4	11.0	50.5
Great Heart Seed	GT-4677XS	24	1	2	2	9.8	50.3
Asgrow	AG48X9	27	1	0	4	10.6	49.6
Dyna-Gro Seed	S45XF02	22	1	2	2	11.5	48.6
Progeny Ag	P 4806 XFS	27	1	3	8	10.5	47.1
NK Seeds	NK48-H3XFS	25	1	3	4	11.2	46.8
Revere	4925XFS	37	2	2	4	10.2	46.5
Plot Average:						**10.6**	**50.8**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Coahoma County – Irrigated Maturity Group IV EARLY Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Dyna-Gro Seed	S43XS70	45	2	0	0	8.7	80.5
Revere	4299XS	37	3	0	1	9.5	79.9
NK Seeds	NK44-J4XFS	38	2	0	0	9.3	77.5
Pioneer	P44A21X	37	1	0	0	9.2	77.1
Progeny Ag	P 4200 RXS	40	5	0	0	8.8	76.3
NK Seeds	NK43-V8XF	43	4	0	0	9.2	74.8
Revere	4415XF	34	3	0	0	9.1	72.6
Asgrow	AG43XF2	39	1	0	0	8.9	70.9
NK Seeds	NK42-T5XF	36	1	0	0	9.5	70.2
Delta Grow Seed Co.	44XF41	42	3	0	0	8.7	69.9
Beck's	4443XF	41	2	0	0	8.8	66.0
Asgrow	AG42XF2	28	2	0	0	9.3	59.2
Plot Average:						**9.1**	**72.9**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

DeSoto County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4806 XFS	36	2	0	0	8.5	75.1
Revere	4795XS	38	2	0	0	8.4	73.6
Great Heart Seed	GT-4677XS	34	2	1	0	8.2	73.3
Asgrow	AG48X9	38	2	0	0	8.3	72.7
Asgrow	AG47XF2	35	4	0	0	8.4	72.6
Dyna-Gro Seed	S48XT90	41	5	0	0	8.7	72.2
Pioneer	P47A64X	38	3	0	0	8.3	71.4
Dyna-Gro Seed	S45XF02	34	3	0	0	8.4	70.7
Beck's	4553XF	37	3	0	0	8.5	70.3
Asgrow	AG48XF2	33	3	0	0	8.9	70.2
Delta Grow Seed Co.	48X45	35	1	0	3	8.9	70.2
Innvictis Seed Solutions	A4690XF	38	3	0	0	8.7	68.3
NK Seeds	S49-F5X	34	1	0	0	9.1	67.0
Progeny Ag	P 4604 XFS	43	3	0	0	8.7	66.7
NK Seeds	NK48-H3XFS	39	4	0	0	8.4	66.0
Revere	4925XFS	38	2	0	0	8.4	61.3
Plot Average:						**8.6**	**70.1**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Hinds County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Revere	5029XF	39	2	0	7	10.6	65.1
Dyna-Gro Seed	S56XT99	26	1	0	9	8.5	64.1
Revere	5386X	42	1	0	2	9.7	58.0
NK Seeds	S53-F7X	39	2	0	7	10.7	54.2
Asgrow	AG53XF2	38	1	0	6	10.2	50.9
Dyna-Gro Seed	S52XT91	33	1	0	6	10.6	50.5
Pioneer	P53A67X	21	1	0	9	11.4	49.1
Plot Average:						**10.2**	**56.0**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Humphreys County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4604 XFS	39	2	0	1	8.5	65.9
Dyna-Gro Seed	S47XF23	35	2	0	0	9.0	65.7
Asgrow	AG48XF2	35	2	0	1	10.7	65.7
Beck's	4885X	36	2	0	0	8.3	65.5
Asgrow	AG48X9	38	2	0	1	8.7	65.4
NK Seeds	S49-F5X	37	2	0	1	8.0	65.4
Dyna-Gro Seed	S46XF31S	40	2	0	1	8.9	65.1
Revere	4806XS	41	2	0	0	9.0	64.2
Progeny Ag	P 4505 RX	41	2	0	0	9.5	63.8
Revere	4606XFS	43	2	0	0	9.1	63.6
Pioneer	P48A32X	42	2	0	1	8.8	63.5
Asgrow	AG47XF2	33	2	0	0	8.9	63.2
NK Seeds	NK45-P9XF	37	3	0	1	9.7	62.6
Great Heart Seed	GT-4979X	42	3	0	1	8.4	58.5
Innvictis Seed Solutions	A4850XF	35	2	0	2	9.2	57.8
Plot Average:						**9.0**	**63.7**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Lee County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Dyna-Gro Seed	S52XT91	36	1	0	0	12.3	60.4
Revere	5029XF	34	3	0	0	13.3	60.3
Revere	5386X	44	1	0	1	12.6	56.1
Asgrow	AG53XF2	39	1	0	0	12.8	55.8
Dyna-Gro Seed	S56XT99	36	1	0	0	12.4	55.3
Progeny Ag	P 5554 RX	36	2	0	0	12.0	54.3
NK Seeds	S53-F7X	38	2	0	0	12.1	53.7
Pioneer	P53A67X	31	1	0	0	13.0	53.7
Plot Average:						**12.6**	**56.2**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Leflore County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
NK Seeds	NK48-H3XFS	38	3	1	0	10.9	79.6
Revere	4795XS	33	1	1	0	9.7	73.9
Great Heart Seed	GT-4677XS	38	1	1	0	9.6	73.7
Progeny Ag	P 4604 XFS	43	3	1	0	9.9	73.6
Progeny Ag	P 4806 XFS	34	1	1	0	10.3	73.0
Dyna-Gro Seed	S48XT90	39	3	1	0	10.6	72.5
Dyna-Gro Seed	S45XF02	46	2	1	0	9.5	72.1
Delta Grow Seed Co.	48X45	33	1	1	0	10.0	71.3
Revere	4925XFS	39	2	0	0	9.9	71.2
Pioneer	P47A64X	40	3	1	1	9.8	70.9
Asgrow	AG47XF2	33	1	1	0	9.8	70.8
Innvictis Seed Solutions	A4690XF	45	3	1	0	10.2	70.6
Asgrow	AG48XF2	35	3	1	0	10.4	69.3
Asgrow	AG48X9	38	2	1	0	10.0	67.9
Beck's	4553XF	34	2	1	0	9.6	67.4
Plot Average:						**10.0**	**71.8**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Leflore County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Asgrow	AG48XF2	25	4	0	1	12.2	73.1
Progeny Ag	P 4604 XFS	36	2	0	1	11.7	69.8
Innvictis Seed Solutions	A4690XF	30	3	0	1	12.2	68.8
Great Heart Seed	GT-4677XS	31	3	0	1	12.0	68.6
Asgrow	AG47XF2	29	2	0	0	12.0	68.6
Asgrow	AG48X9	39	3	0	1	11.6	67.6
Dyna-Gro Seed	S45XF02	34	3	0	1	11.6	66.8
Revere	4795XS	33	3	0	0	12.0	65.1
Beck's	4553XF	33	2	1	1	11.5	64.7
Dyna-Gro Seed	S48XT90	27	3	0	1	13.7	63.6
Progeny Ag	P 4806 XFS	28	3	0	1	14.3	60.9
Pioneer	P47A64X	28	4	0	2	12.8	60.6
NK Seeds	NK48-H3XFS	27	1	0	1	12.4	59.5
Revere	4925XFS	33	2	0	1	12.3	59.3
Delta Grow Seed Co.	48X45	35	3	0	1	13.6	57.8
NK Seeds	S49-F5X	27	4	0	0	12.7	54.4
Plot Average:						**12.4**	**64.3**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Lowndes County – Non-Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Asgrow	AG48X9	28	0	0	5	18.4	43.3
NK Seeds	S49-F5X	25	1	0	4	14.7	41.9
Great Heart Seed	GT-4979X	32	0	0	5	16.7	38.8
Innvictis Seed Solutions	A4850XF	27	1	0	8	13.5	37.2
Beck's	4885X	27	0	0	7	13.6	36.9
Revere	4806XS	23	0	0	5	17.3	36.9
Dyna-Gro Seed	S47XF23	27	0	0	7	13.7	36.5
NK Seeds	NK45-P9XF	27	0	0	5	14.4	35.3
Pioneer	P48A32X	33	1	0	6	14.0	34.1
Revere	4606XFS	31	0	0	7	15.1	33.9
Progeny Ag	P 4604 XFS	33	0	0	7	14.3	32.7
Asgrow	AG47XF2	23	0	0	3	13.2	32.3
Asgrow	AG48XF2	28	0	0	3	18.2	32.3
Progeny Ag	P 4505 RX	30	0	0	6	14.1	31.9
Dyna-Gro Seed	S46XF31S	30	1	0	6	14.5	31.9
Plot Average:						**15.0**	**35.7**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Lowndes County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
NK Seeds	S53-F7X	18	0	0	7	16.1	47.2
Progeny Ag	P 5554 RX	26	0	0	6	14.7	44.9
Dyna-Gro Seed	S56XT99	26	1	0	7	14.4	42.7
Dyna-Gro Seed	S52XT91	26	1	0	6	19.2	41.9
Pioneer	P53A67X	22	0	0	5	15.7	38.1
Asgrow	AG53XF2	30	0	0	6	24.6	38.0
Revere	5386X	30	0	0	4	19.6	36.8
Revere	5029XF	32	2	0	5	14.0	35.1
Plot Average:						**17.3**	**40.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Monroe County – Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Asgrow	AG48X9	32	3	0	4	11.4	53.2
Dyna-Gro Seed	S48XT90	31	3	0	8	12.3	49.1
Progeny Ag	P 4604 XFS	33	1	0	1	11.0	47.2
Revere	4795XS	28	3	0	7	11.4	47.2
Great Heart Seed	GT-4677XS	27	2	0	2	11.3	44.0
Innvictis Seed Solutions	A4690XF	32	3	0	1	11.1	43.6
Dyna-Gro Seed	S45XF02	24	1	1	4	12.4	43.0
NK Seeds	NK48-H3XFS	26	0	1	5	13.9	42.7
Revere	4925XFS	31	0	1	1	12.3	40.4
Delta Grow Seed Co.	48X45	26	1	0	7	12.1	39.4
Asgrow	AG48XF2	29	1	2	3	11.3	37.5
NK Seeds	S49-F5X	29	1	0	4	11.2	36.5
Asgrow	AG47XF2	27	1	1	7	11.2	36.3
Beck's	4553XF	25	1	1	4	11.8	35.9
Progeny Ag	P 4806 XFS	27	1	0	9	12.9	35.6
Plot Average:						**11.8**	**42.1**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Monroe County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Asgrow	AG53XF2	31	1	2	1	10.2	37.6
Progeny Ag	P 5554 RX	27	1	2	0	10.3	37.6
Revere	5386X	30	1	2	2	9.1	36.9
Pioneer	P53A67X	22	1	2	0	9.8	36.0
Dyna-Gro Seed	S56XT99	23	1	2	0	10.3	34.4
Dyna-Gro Seed	S52XT91	27	1	2	3	10.5	33.8
NK Seeds	S53-F7X	26	1	2	2	9.1	33.2
Revere	5029XF	25	1	2	4	10.6	32.9
Plot Average:						**10.0**	**35.3**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Monroe County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P53A67X	27	2	1	0	9.8	54.1
NK Seeds	S53-F7X	29	1	3	0	9.1	49.9
Progeny Ag	P 5554 RX	31	1	1	0	9.9	46.9
Revere	5386X	28	1	3	0	9.4	42.2
Dyna-Gro Seed	S52XT91	24	0	1	1	11.3	41.7
Asgrow	AG53XF2	25	0	3	2	10.5	39.6
Dyna-Gro Seed	S56XT99	33	1	2	0	10.1	38.1
Revere	5029XF	22	0	1	3	10.8	36.7
Plot Average:						**10.1**	**43.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Oktibbeha County – Irrigated Maturity Group IV EARLY Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P44A21X	42	2	0	0	11.6	77.7
Progeny Ag	P 4200 RXS	45	5	0	1	12.3	74.5
Beck's	4443XF	44	2	0	0	12.3	73.3
NK Seeds	NK43-V8XF	43	4	0	2	11.7	71.5
Revere	4415XF	41	3	0	1	12.2	70.9
Progeny Ag	P 4444 RXS	43	3	0	0	11.7	70.8
NK Seeds	NK44-J4XFS	43	2	0	1	12.0	70.6
Asgrow	AG43XF2	42	3	0	1	11.7	68.3
NK Seeds	NK42-T5XF	41	3	0	0	12.0	68.1
Dyna-Gro Seed	S43XS70	44	3	0	0	11.2	64.7
Revere	4299XS	43	4	0	0	11.0	63.4
Asgrow	AG42XF2	48	3	0	0	11.7	61.1
Delta Grow Seed Co.	44XF41	43	4	0	1	11.3	61.0
Plot Average:						**11.7**	**68.9**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Oktibbeha County – Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Dyna-Gro Seed	S48XT90	39	3	0	3	15.9	82.9
NK Seeds	S49-F5X	35	3	0	0	12.2	81.6
Revere	4925XFS	41	3	0	0	12.9	79.9
NK Seeds	NK48-H3XFS	36	3	0	1	12.7	78.0
Pioneer	P47A64X	42	2	0	1	12.7	77.6
Revere	4795XS	36	2	0	0	12.8	77.3
Delta Grow Seed Co.	48X45	35	3	0	2	12.9	77.1
Asgrow	AG48X9	41	2	0	1	12.8	75.3
Progeny Ag	P 4604 XFS	42	1	0	1	12.8	75.0
Dyna-Gro Seed	S45XF02	38	1	0	1	12.9	74.2
Asgrow	AG48XF2	38	4	0	1	12.6	74.1
Innvictis Seed Solutions	A4690XF	40	2	0	2	12.7	73.4
Progeny Ag	P 4806 XFS	33	2	0	1	12.2	72.8
Asgrow	AG47XF2	34	3	0	2	12.8	71.1
Beck's	4553XF	32	1	0	2	14.0	70.6
Great Heart Seed	GT-4677XS	34	1	0	2	12.4	69.6
Plot Average:						**12.9**	**75.7**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Oktibbeha County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Dyna-Gro Seed	S52XT91	40	4	0	0	12.8	75.1
Revere	5029XF	43	6	0	1	13.9	74.4
Pioneer	P53A67X	31	0	0	0	12.2	72.8
Revere	5386X	43	3	0	2	13.1	71.7
Asgrow	AG53XF2	42	2	0	1	12.9	71.2
NK Seeds	S53-F7X	41	4	0	2	16.9	69.4
Dyna-Gro Seed	S56XT99	34	2	0	1	12.9	68.3
Progeny Ag	P 5554 RX	34	3	0	1	17.0	61.6
Plot Average:						**13.9**	**70.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Oktibbeha County – Non-Irrigated Maturity Group IV & V Enlist E3							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Dyna-Gro Seed	S49EN12	37	3	0	1	12.1	73.0
Delta Grow Seed Co.	52E80	41	2	0	1	13.8	68.7
Pioneer	P42A84E	37	2	0	2	10.7	66.9
Pioneer	P48A14E	44	3	0	3	11.2	66.7
Dyna-Gro Seed	S46ES91	43	3	0	0	11.2	63.0
Delta Grow Seed Co.	47E20	40	2	0	1	11.4	62.2
Pioneer	P52A14SE	36	1	0	0	13.8	61.0
Progeny Ag	P 4775 E3S	43	2	0	2	11.6	60.8
Progeny Ag	P 5521 E3	57	9	0	0	10.5	57.7
Plot Average:						**11.8**	**64.4**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Pontotoc County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Revere	5386X	36	2	2	0	9.2	56.7
Asgrow	AG53XF2	32	2	2	0	8.3	56.4
Pioneer	P53A67X	17	0	0	0	8.3	56.2
Dyna-Gro Seed	S52XT91	31	3	1	0	8.9	52.9
Revere	5029XF	33	4	2	0	10.7	52.7
Progeny Ag	P 5554 RX	22	0	1	0	8.2	48.7
NK Seeds	S53-F7X	36	2	1	0	8.9	46.9
Dyna-Gro Seed	S56XT99	28	1	0	0	8.3	46.2
Plot Average:						**8.9**	**52.1**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Pontotoc County – Non-Irrigated Maturity Group IV & V Enlist E3							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P48A14E	42	4	2	0	8.7	58.5
Delta Grow Seed Co.	52E80	35	2	1	0	8.7	57.7
Dyna-Gro Seed	S49EN12	37	2	1	0	8.4	55.8
Pioneer	P42A84E	33	0	0	1	9.2	55.6
Progeny Ag	P 5521 E3	41	5	2	0	9.4	49.6
Progeny Ag	P 4775 E3S	47	2	2	0	9.0	46.9
Pioneer	P52A14SE	24	0	1	0	8.4	46.1
Dyna-Gro Seed	S46ES91	41	3	1	0	8.7	45.3
Delta Grow Seed Co.	47E20	42	3	1	0	9.2	44.0
Plot Average:						**8.9**	**51.1**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Rankin County – Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Revere	4795XS	44	2	0	2	13.3	69.1
Asgrow	AG48X9	38	2	0	1	12.9	69.1
Dyna-Gro Seed	S48XT90	41	3	0	3	16.8	67.0
Delta Grow Seed Co.	48X45	38	2	0	8	13.6	66.3
Pioneer	P47A64X	44	1	0	3	12.0	65.8
Progeny Ag	P 4604 XFS	46	3	0	2	12.6	61.5
Great Heart Seed	GT-4677XS	38	2	0	2	12.7	57.9
NK Seeds	S49-F5X	38	2	0	1	12.3	57.2
Innvictis Seed Solutions	A4690XF	47	3	0	2	12.8	56.8
Revere	4925XFS	40	2	0	3	12.3	56.7
Asgrow	AG48XF2	28	3	0	2	12.1	55.5
NK Seeds	NK48-H3XFS	30	1	0	1	12.9	53.7
Asgrow	AG47XF2	37	1	0	2	12.4	53.5
Dyna-Gro Seed	S45XF02	37	1	0	3	13.3	47.7
Progeny Ag	P 4806 XFS	31	1	0	4	12.5	41.0
Plot Average:						**13.0**	**58.6**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Sharkey County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P48A32X	33	1	0	2	8.1	56.2
NK Seeds	NK45-P9XF	36	4	1	0	7.5	52.9
Progeny Ag	P 4505 RX	33	2	0	0	8.2	52.5
Asgrow	AG47XF2	27	1	0	2	8.3	51.1
Dyna-Gro Seed	S47XF23	31	1	0	2	9.7	50.8
NK Seeds	S49-F5X	31	1	0	3	8.7	50.7
Asgrow	AG48X9	35	1	0	2	8.5	49.7
Dyna-Gro Seed	S46XF31S	37	3	0	1	8.3	49.5
Asgrow	AG48XF2	27	2	0	1	8.1	48.9
Progeny Ag	P 4604 XFS	31	1	0	1	7.9	47.5
Revere	4806XS	28	1	0	2	7.6	47.5
Beck's	4885X	32	1	0	2	8.7	46.9
Revere	4606XFS	31	1	0	2	8.2	46.7
Innvictis Seed Solutions	A4850XF	36	1	0	3	9.2	45.4
Great Heart Seed	GT-4979X	35	1	0	2	8.6	44.5
Plot Average:						**8.4**	**49.4**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Sunflower County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
NK Seeds	S49-F5X	36	2	0	0	9.5	75.6
Innvictis Seed Solutions	A4850XF	36	2	0	0	9.6	73.7
Progeny Ag	P 4505 RX	37	5	0	0	9.8	72.8
Pioneer	P48A32X	39	2	0	0	9.8	70.9
NK Seeds	NK45-P9XF	36	2	0	0	9.2	70.6
Asgrow	AG48X9	38	2	0	0	9.4	70.5
Asgrow	AG47XF2	35	1	0	0	9.3	70.1
Dyna-Gro Seed	S47XF23	41	2	0	0	9.1	69.8
Revere	4806XS	31	1	0	0	9.6	69.3
Beck's	4885X	38	3	0	0	9.2	68.2
Dyna-Gro Seed	S46XF31S	37	3	0	0	9.1	68.1
Progeny Ag	P 4604 XFS	35	3	0	0	9.4	68.0
Asgrow	AG48XF2	39	3	0	0	9.5	67.2
Great Heart Seed	GT-4979X	40	2	0	0	9.0	66.5
Revere	4606XFS	40	3	0	0	9.6	66.2
Plot Average:						**9.4**	**69.8**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Sunflower County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4806 XFS	39	0	0	4	8.9	78.0
NK Seeds	NK48-H3XFS	42	2	0	3	9.4	77.2
Delta Grow Seed Co.	48X45	38	0	0	1	9.4	72.3
Pioneer	P47A64X	52	1	0	0	9.2	69.6
NK Seeds	S49-F5X	39	0	0	0	9.2	69.6
Beck's	4553XF	35	1	0	0	10.1	68.8
Asgrow	AG47XF2	42	3	0	0	9.4	67.0
Progeny Ag	P 4604 XFS	49	2	0	0	9.1	66.5
Revere	4795XS	39	1	0	0	8.9	66.4
Asgrow	AG48XF2	39	0	0	0	9.4	65.4
Asgrow	AG48X9	45	0	0	1	9.1	63.5
Dyna-Gro Seed	S45XF02	44	2	0	0	10.0	63.2
Great Heart Seed	GT-4677XS	39	0	0	0	9.7	62.0
Revere	4925XFS	55	0	0	1	9.1	59.6
Innvictis Seed Solutions	A4690XF	40	1	0	0	9.4	58.0
Dyna-Gro Seed	S48XT90	44	4	0	0	9.7	55.2
Plot Average:						**9.4**	**66.4**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Washington County – Irrigated Maturity Group IV EARLY Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Pioneer	P44A21X	42	2	0	0	7.6	73.7
Progeny Ag	P 4200 RXS	37	2	0	0	7.9	71.4
Dyna-Gro Seed	S43XS70	41	1	0	0	7.2	71.0
Asgrow	AG43XF2	40	1	0	1	7.6	70.8
Revere	4299XS	39	2	0	0	7.3	70.2
NK Seeds	NK44-J4XFS	34	1	0	0	7.7	69.5
NK Seeds	NK42-T5XF	31	2	0	0	7.7	68.2
NK Seeds	NK43-V8XF	40	2	0	1	7.9	67.8
Progeny Ag	P 4444 RXS	36	2	0	0	7.4	63.5
Revere	4415XF	38	2	0	0	8.1	63.4
Beck's	4443XF	35	1	0	0	7.6	63.1
Asgrow	AG42XF2	35	2	0	1	8.2	62.5
Delta Grow Seed Co.	44XF41	38	1	0	0	7.5	58.8
Plot Average:						**7.7**	**67.2**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Washington County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4505 RX	44	2	0	0	7.9	67.6
Asgrow	AG47XF2	40	2	0	0	8.0	64.1
Innvictis Seed Solutions	A4850XF	38	2	0	3	8.2	63.1
Pioneer	P48A32X	42	2	0	0	7.6	63.1
Dyna-Gro Seed	S47XF23	38	2	0	0	7.6	63.0
NK Seeds	S49-F5X	41	2	0	0	8.1	63.0
Dyna-Gro Seed	S46XF31S	43	2	0	0	8.1	61.7
Asgrow	AG48XF2	41	2	0	0	7.6	61.4
Revere	4606XFS	46	1	0	0	7.7	59.9
NK Seeds	NK45-P9XF	43	2	0	0	7.6	59.7
Beck's	4885X	42	2	0	0	7.7	59.4
Asgrow	AG48X9	42	2	0	0	7.5	59.2
Progeny Ag	P 4604 XFS	43	2	0	0	7.5	57.8
Revere	4806XS	40	1	0	1	7.8	57.7
Great Heart Seed	GT-4979X	45	2	0	1	8.1	55.5
Plot Average:						**7.8**	**61.1**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.
[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.

Washington County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend & XtendFlex							
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Seed Moisture**	**Yield[1]**
		Inches	**0 to 10[2]**	**0 to 10[2]**	**0 to 10[2]**	**%**	**bu/acre**
Progeny Ag	P 4806 XFS	45	3	0	0	7.6	67.5
Pioneer	P47A64X	49	4	0	0	7.5	67.3
Delta Grow Seed Co.	48X45	44	2	0	0	7.8	64.4
NK Seeds	S49-F5X	44	3	0	0	7.8	62.9
Asgrow	AG47XF2	46	2	0	0	7.8	62.6
Great Heart Seed	GT-4677XS	45	2	0	0	7.7	61.4
Revere	4925XFS	45	3	0	0	7.1	61.2
Progeny Ag	P 4604 XFS	45	3	0	0	7.4	61.0
Asgrow	AG48X9	49	2	0	0	7.8	60.5
Dyna-Gro Seed	S48XT90	45	5	0	0	7.1	60.0
NK Seeds	NK48-H3XFS	48	5	0	1	7.4	59.5
Asgrow	AG48XF2	49	3	0	0	6.8	59.3
Revere	4795XS	47	3	0	0	7.4	57.7
Innvictis Seed Solutions	A4690XF	48	3	0	0	7.1	55.8
Dyna-Gro Seed	S45XF02	46	4	0	2	8.0	53.5
Beck's	4553XF	44	4	0	2	7.8	49.4
Plot Average:						**7.5**	**60.3**

[1]- Soybean yield adjusted to standard moisture content of 13.0%.

[2]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.