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

MSBP Project Number: 36-2018
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CONTENTS

Introduction 2

Multi-year Project Summary

- **Soybean Variety Demonstration** 3
- **Soybean Variety Screening for Iron Deficiency Chlorosis Management** 4
- **Soybean Yield Response to R3/R4 Foliar Fungicide Applications** 5
- **Best Management Practices for Soybean Production in Rainfed Environments** 6
- **Fungicide Application Timing** 8
- **Fungicide Evaluation Across Row Spacing, Planting Date and Product** 12
- **Evaluation of Planting Date and Row Spacing on Soybean Development and Yield** 14
- **Evaluation of Iron Deficiency Chlorosis Management Strategies on Soybean Development and Yield** 15
- **Evaluation of Optimal Seeding Rate & Planting Approach for Replant Situations in Soybean** 18
- **Soybean Yield Response to Potassium Fertilizer** 22
- **Soybean Yield Response to Nematicide Seed Treatment In Rainfed Production Systems** 24

2018 Project Summary

- **Fungicide On-Farm Demonstration Trial** 25
- **2018 Soybean Mid MG IV Variety Response to IDC** 28
- **2018 Soybean Late MG IV Variety Response to IDC** 29
- **2018 Soybean MG V Variety Response to IDC** 30
- **2018 Soybean Seed Quality Results for MG IV Varieties** 31
- **2018 Soybean Variety Demonstration Program Summary** 32

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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 products and/or 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 third on the list of Mississippi's agricultural commodities in terms of value. Approximately 2.2 million acres of soybeans were harvested in Mississippi in 2018 with an average yield of 54.5 bushels per acre, a new state record. Soybean productivity has improved considerably in recent years due to a multitude of reasons including, but not limited to, improved management, technology and seed options.

During the 2018 production season, the SMART program consisted of demonstration and training events that promoted ideal practices to Mississippi's soybean producers. This 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.

SOYBEAN VARIETY DEMONSTRATION (ONGOING PROJECT)

Purpose: To evaluate the latest commercially available soybean varieties and their performance in production environments.

Procedure: These demonstrations are conducted annually with each year's data summarized and displayed as MSU Extension publications. Soybean varieties are planted in field-scale strips on producer fields. Varieties representing Roundup Ready, Roundup Ready 2 Yield, Roundup Ready 2 Xtend and LibertyLink traits from maturity groups recommended for Mississippi are utilized in this on-farm demonstration. Locations represent both irrigated and non-irrigated production systems as well as the major soil textures available in Mississippi. Standard agronomic practices are utilized across all varieties.

Results: A total of 148 varieties have been evaluated over the last four growing seasons. The average soybean yields across all varieties from all traits for each year were 55.7, 56.1, 58.5, and 58.9 bushels per acre from 2015 to 2018, respectively. The yield increase observed each year confirms that variety selection is likely the most important decision to be made each season. 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. For more details, please see https://mssoy.org/ or http://extension.msstate.edu/agriculture/crops/soybeans.

SOYBEAN VARIETY SCREENING FOR IRON DEFICIENCY CHLOROSIS MANAGEMENT (ONGOING PROJECT)

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

Procedure: In certain regions in Mississippi, soybeans are routinely planted on high pH soils where IDC is a known problem. To evaluate soybean varietal tolerance to IDC, commercially available varieties are planted in a small plot design to account for the natural variability of IDC symptoms throughout the field. Each variety is planted in three 15-inch-wide rows that are 15 feet long. All varieties at each location are replicated 3 times. Varietal susceptibility to IDC is evaluated throughout the growing season. Each year these data are summarized and displayed as an MSU Extension publication.

Table 1: Summary of IDC Screenings conducted 2015 through 2018.

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

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. Planting such varieties offers producers a management strategy to overcome IDC challenges. 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. The results from the "Soybean Variety Response to IDC" are published and available at the end of each growing season so that producers who face these challenges can use these data in variety selection decisions for the next year. For more details, please see https://mssoy.org/ or http://extension.msstate.edu/agriculture/crops/soybeans.

SOYBEAN YIELD RESPONSE TO R3/R4 FOLIAR FUNGICIDE APPLICATIONS (ONGOING PROJECT)

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

Procedure: On-farm fungicide demonstrations are annually conducted in large-scale plots located on producer fields. All fungicides are applied at the R3 or R4 growth stages. An untreated check is included for comparison purposes. Soybean yield is recorded to evaluate yield response to the automatic fungicide applications.

Table 1: Soybean yield averaged over all fungicide demonstration locations from 2015 – 2018.

Fungicide Treatment	Soybean Yield (bu/ac)		
	Irrigated	**Non-Irrigated**	**Overall**
Fungicide Applications	70.6	64.0	67.2
No Fungicide Application	68.3	63.6	66.0

Results: Data combined across 2015, 2016, 2017 and 2018 (Table 1) suggest that an automatic fungicide application to soybean at the R3/R4 growth stage will improve yield by 1.2 bushels per acre. However, in irrigated environments, the average yield response to an automatic fungicide application was 2.3 bushels per acre, suggesting that a high-yielding environment resulting from irrigation will likely provide the best opportunity for a significant response to foliar fungicide applicaton. Therefore, the results from this multi-year demonstration indicate that the decision to apply a foliar fungicide at the R3/R4 growth stage on fields without irrigation capabilities should be based on the yield potential and real or expected disease pressure that is present since the yield response is highly variable in these production environments.

BEST MANAGEMENT PRACTICES FOR SOYBEAN PRODUCTION IN RAINFED ENVIRONMENTS (ONGOING PROJECT)

Purpose: To evaluate the effects of different management practices on soybean growth, development, and yield in non-irrigated production systems.

Procedure: This experiment was conducted across 9 locations in Mississippi during the 2016, 2017, and 2018 growing seasons, and is planned to continue at 1 location each year moving forward. Each site was planted with an indeterminate MG IV soybean variety. Three different management treatments are listed in Tables 1-3.

Table 1: Low input management treatmentd described.

Input	Rate	Timing
Asgrow 4632	85,000 seeds/A	Planting
Roundup PowerMax	32 fl oz/A	V3
Roundup PowerMax	32 fl oz/A	R1

Table 2: Standard management treatment described

Input	Rate	Timing
0-0-60	70 Units	Pre-Plant
Asgrow 4632	110,000 seeds/A	Planting
Revise SB F (Seed Trt)	-	Planting
Dual Magnum	16 fl oz/A	Preemergence
Roundup PowerMax	32 fl oz/A	V3
Roundup PowerMax	32 fl oz/A	R1
Quadris	4 fl oz/A	R3
Discipline 2 EC	6.4 fl oz/A	R3
NIS	0.25% v/v	As needed

Table 3: Full management treatment described.

Input	Rate	Timing
0-0-60	90 Units	Pre-Plant
Asgrow 4632	140,000 seeds/A	Planting
Revise SB + (Seed Trt)	-	Planting
Gramoxone SL 2.0	32 fl oz/A	Preemergence
Boundary 6.5 EC	16 fl oz/A	Preemergence
Roundup PowerMax	32 fl oz/A	V3
Prefix	32 fl oz/A	V3
Roundup PowerMax	32 fl oz/A	R1
Quadris Top	8 fl oz/A	R3
Discipline 2 EC	6.4 fl oz/A	R3
Priaxor	4 fl oz/A	R5
Domark	4 fl oz/A	R5
Gramoxone SL 2.0	16 fl oz/A	R6.5
Defol 5	3 lb/A	R6.5
NIS	0.25% v/v	As needed

Table 4: Data collected in each treatment averaged across all locations and years.

	Low Input Management	Standard Management	Full Management
14 DAP Crop Vigor	6.67 c	7.11 b	7.59 a
28 DAP Crop Vigor	6.77 b	7.19 a	7.37 a
Plant Height (cm)	81.47 c	85.80 b	89.47 a
Stand Count 14 DAP	71,801 c	87,133 b	104,034 a
Yield (bu/ac)	40.83 b	43.04 ab	44.67 a

Results: These data reveal that the management practices described under the full management treatment resulted in greater crop vigor than the standard and low input treatments at 14 DAP. Full and standard management treatments also had greater crop vigor than the low input treatment at 28 DAP. Soybeans in the full management treatment were taller than those in the standard and lower input treatments. As expected, stand counts decreased when management practices became less intensive. The full management treatment resulted in greater yield when compared to the low input management treatment. An economic comparison among these practices is currently being conducted.

FUNGICIDE APPLICATION TIMING (STUDENT PROJECT – 2017 & 2018)

Purpose: To determine if delaying the timing of a preventative foliar fungicide application to later growth stages results in similar yield to that following applications made at the R3 timing.

Procedure: Experiments were conducted in 2017 and 2018 at the R.R. Foil Plant Science Research Center near Starkville, MS and at the Delta Research and Extension Center near Stoneville, MS. Treatments consisted of five application timings using three different fungicide options, with an untreated check for comparison purposes. Fungicide treatments included Quadris® (Azoxystrobin), Quadris Top® SBX (Azoxystrobin, Difenconazole), and the combination of Priaxor® (Fluxapyroxad, Pyraclostrobin) and Domark® (Tetraconazole). Fungicide products were applied in single applications at the R3, R4, R5, or R6 growth stages, along with a two-pass application at R3 followed by an application at R5. Additionally, grain quality samples collected at harvest were analyzed by Mid-South Grain Inspection Services, a USDA-certified grain inspection facility, to compare grain quality of harvested seed from each of the different fungicide application timings.

Figure 1: Soybean yield averaged across application products, locations and years.

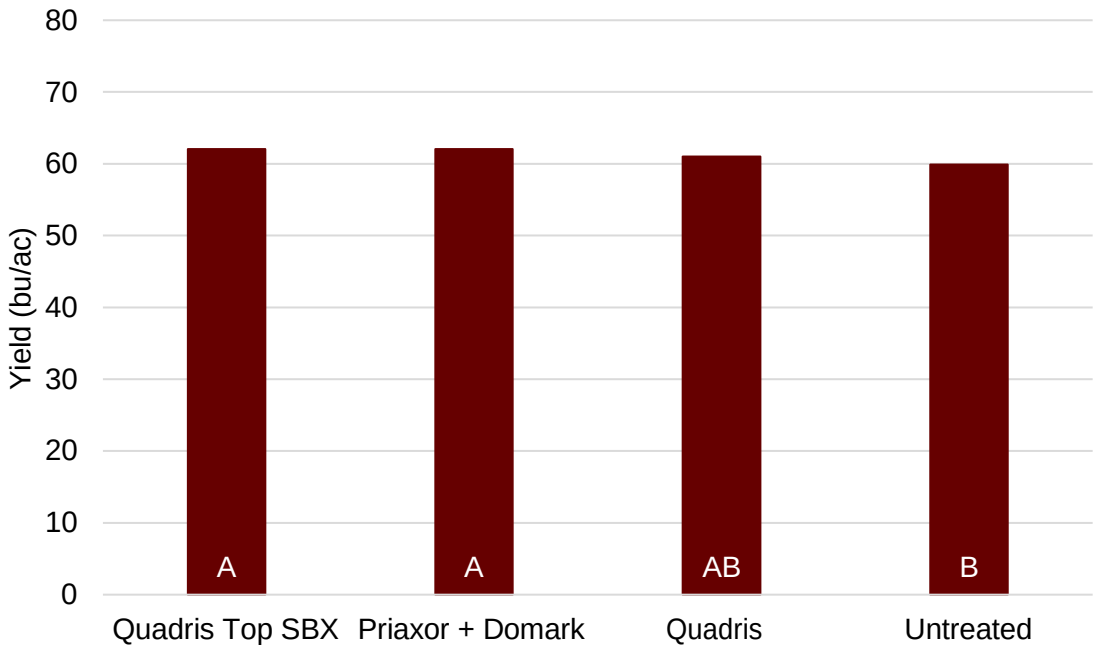


Figure 2: Soybean yield averaged across fungicide application timings, locations, and years.

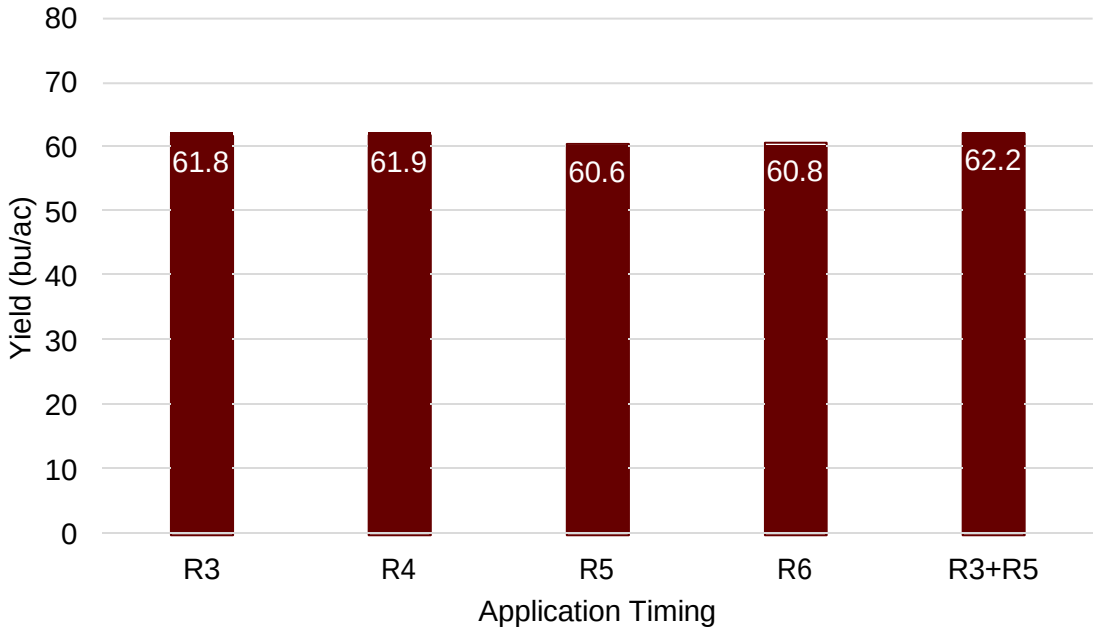


Figure 3: Percent increase in seed mass averaged across fungicide product, locations, and years.

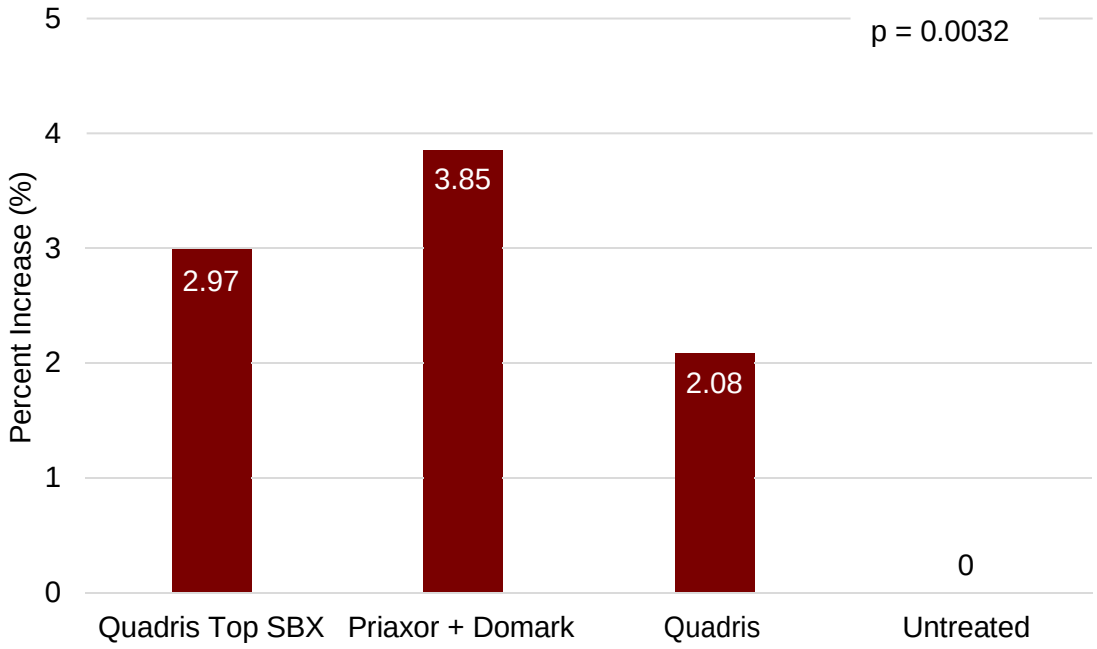


Figure 4: Soybean seed damage scores averaged across application timing and fungicide product, locations, and years.

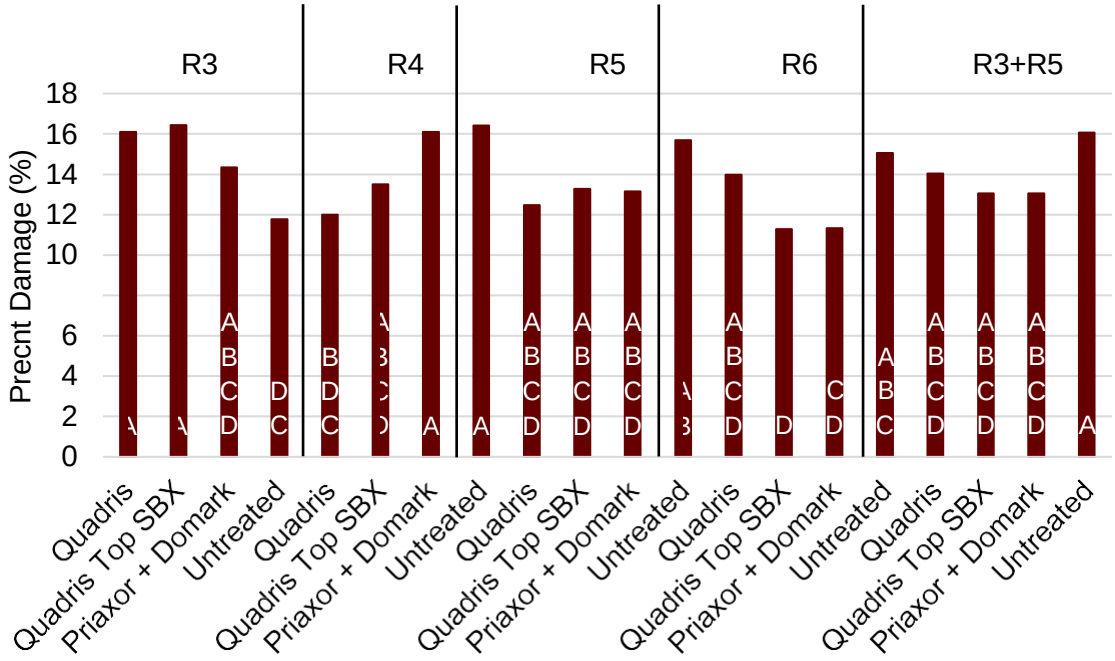


Table 1: Net Return above treatment at different application method costs at different estimated market prices.

Application Method	Aerial Application					
Soybean Market Price	$8.00 bu	$9.00 bu	$10.00 bu	$8.00 bu	$9.00 bu	$10.00 bu
Fungicide Product	----------$ per acre----------					
Untreated Control	-----	-----	-----	-----	-----	-----
Quadris	($0.89)	$0.48	$1.89	$2.11	$3.48	$4.89
Quadris (Two-Pass App.)	($23.52)	($22.48)	($21.41)	($17.52)	($16.48)	($15.41)
Quadris Top SBX	$4.21	$7.03	$9.94	$7.21	$10.03	$12.94
Quadris Top SBX (Two-Pass App.)	($17.21)	($13.83)	($25.35)	($11.21)	($7.83)	($4.34)
Priaxor D	($5.13)	($2.45)	$0.77	($2.13)	$0.55	$3.31
Priaxor D (Two-Pass App.)	($29.57)	($25.22)	($20.47)	($23.57)	($19.21)	($14.74)

Results: Results indicate soybean receiving an application of Quadris Top SBX or Priaxor + Domark produced greater yield when compared to soybean that did not receive a fungicide application (Figure 1 above). Application of Quadris resulted in no difference compared to the untreated check. Similar trends were observed when analyzing seed mass; ii.e., soybean receiving a multi-mode-of-action fungicide resulted in an overall increase in seed mass when compared to soybean receiving no fungicide (Figure 3 above). In addition, timing of fungicide application did not influence the yield response for application timing at any growth stage evaluated (Figure 2 above). After seed damage was assessed, damage percentages were scaled using a USDA-certified dockage scale and a monetary loss was established for each treatment. This price plus the cost of the treatment were deducted from the gross revenue, resulting in the net return above a fungicide treatment. At the lowest estimated market price ($8.00/ bu), Quadris Top SBX was the only treatment to result in profitability when figured as an aerial application. Quadris Top SBX application resulted in an average profitability of $4.21/acre at this price (Table 1 above). These data suggest that if making preventative fungicide application to soybean, producers should apply a multi-mode of action treatment at a single timing.

FUNGICIDE EVALUATION ACROSS ROW SPACING, PLANTING DATE AND PRODUCT (STUDENT PROJECT – 2017 & 2018)

Purpose: To evaluate the effects of preventative fungicide applications across multiple planting dates and row spacings on irrigated soybean growth, development, and yield.

Procedure: Experiments were conducted in 2018 at the R.R. Foil Plant Science Research Center near Starkville, MS and Black Belt Branch experiment station near Brooksville, MS. Soybean was planted in three row spacings-- ultra-narrow (15”), narrow (30”), and wide (38”)--on two dates--late-April (early) and late-May (late). Fungicide treatments included Quadris® (Azoxystrobin), Quadris Top® SBX (Azoxystrobin, Difenconazole), and the combination of Priaxor® (Fluxapyroxad, Pyraclostrobin) and Domark® (Tetraconazole). All applications were made at the R4 growth stage. An untreated check was included for each row spacing and planting date for comparison purposes. Grain quality analyses from samples collected at harvest were performed by Mid-South Grain Inspection Services, a USDA-certified grain inspection facility, to compare quality following each treatment. These quality ratings were then applied to USDA certified dockage scales to analyze the profitability of each treatment.

Figure 1: Yield averaged across planting dates and locations

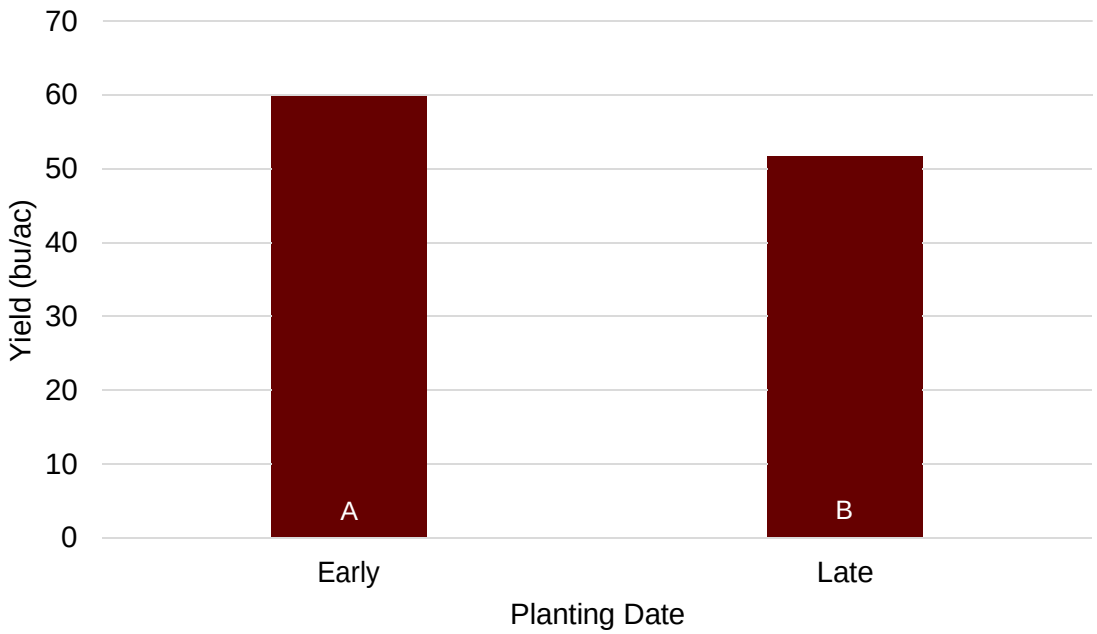


Figure 2: Seed quality damage scores averaged across planting date and locations.

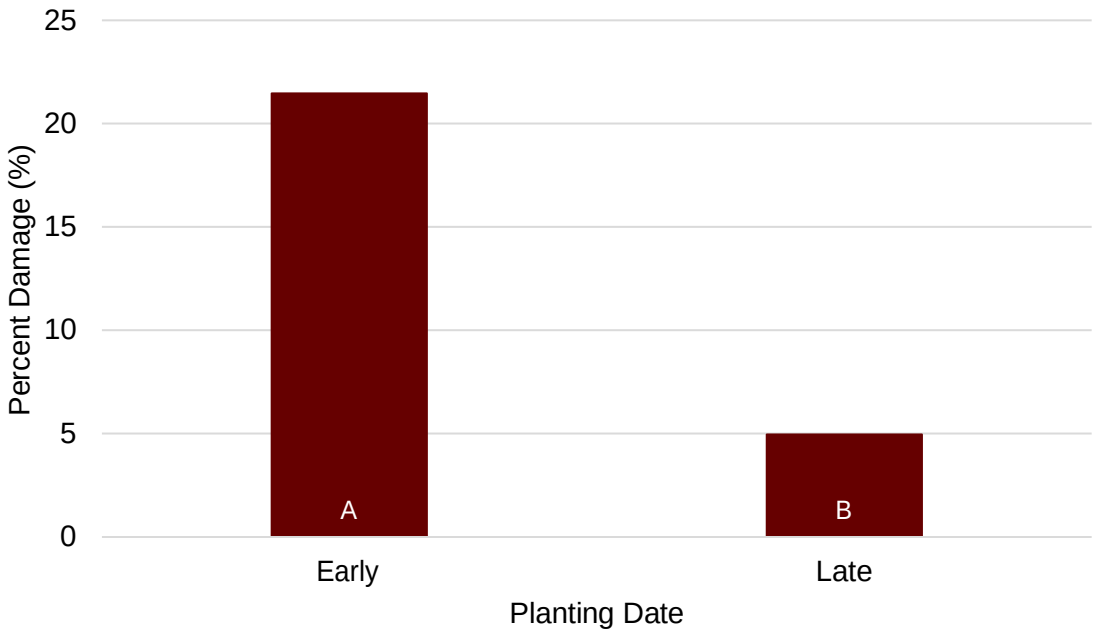


Table 1: Effect of planting date on seed damage, seed mass, deductions, and net return.

Treatment	Agronomics		Economics	
	Seed Damage (%)	Yield (bu/ac)	Deduction $ Acre	Net return above Treatment
Early Planting Date	**21 a**	**59.96 a**	**$26.01**	**$459.30**
Late Planting Date	**4.8 b**	**51.61 b**	**$5.68**	**$401.10**

Results: As expected, these results indicate that soybean planted early yielded more when compared to those planted later (Figure 1 above). When comparing Early vs. Late planting, grain damage percentages were greater in the early vs. later planting (Figure 2 above). When economics were evaluated, the yield benefit observed when planting early outweighs the larger deduction thus increasing overall net return above treatment (Table 1 above). These data suggest that soybean yield response to foliar fungicides applied automatically at the R4 growth stage are similar across differing row spacings and planting dates. These data also confirm that the implementation of the Early Soybean Planting System continues to be a successful practice despite the greater seed damage that was observed in 2018.

EVALUATION OF PLANTING DATE AND ROW SPACING ON SOYBEAN DEVELOPMENT AND YIELD (STUDENT PROJECT – 2016, 2017 & 2018)

Purpose: To evaluate the effects of row spacing and planting date on soybean growth, development, and yield in non-irrigated production systems.

Procedure: This experiment was conducted at 5 locations in Mississippi during the 2016, 2017, and 2018 growing seasons. All field sites were planted with an indeterminate MG IV soybean variety. Soybean was planted at a seeding rate of 130,000 seeds per acre across 5 planting dates, with targeted plantings at Mid-April, Early May, Mid-May, Early June and Mid-June. Row spacings consisted of 15-, 30-, and 38-inch-wide rows.

Table 1: Plant height, node and yield data averaged across all locations and years.

Height (cm)	71.34 c	84.67 a	84.47 a	83.21 a	76.48 b
Node	19.53 b	20.57 a	19.71 b	18.42 c	16.52 d
Yield (bu/ac)	43.58 ab	49.79 a	44.49 ab	40.27 bc	33.68 c

Table 2: Plant heights in all row spacing averaged across all locations and years.

Row Spacing (in)	Height (cm)
15	77.15 b
30	81.81 a
38	81.13 a

Results: There was no significant interaction between row spacing and planting date, indicating that soybean row spacing does not influence overall soybean yield in non-irrigated environments. As expected, planting date significantly influenced soybean height, total number of nodes, and yield. These data reveal that plants grew taller when planted in Early May, Mid-May and Early June compared to those planted in Mid-April and Mid-June (Table 1 above). The total number of nodes were greatest when soybean was planted during Early May compared to those planted in Mid-April, Mid-May, Early June and Mid-June (Table 1 above). Later planting dates resulted in lower soybean yield compared to earlier planting dates (Table 1 above). Row spacing significantly affected plant height. Row spacings of 30 and 38 inches had taller plants than those in 15-inch-wide rows (Table 2 above). These data suggest that a change to an alternate specific row spacing in non-irrigated production systems is not warranted. Producers can plant in those row configurations most convenient to their individual operations. However, the Early Soybean Production System should always be implemented to allow maximum soybean yield potential in these non-irrigated environments.

EVALUATION OF IRON DEFICIENCY CHLOROSIS (IDC) MANAGEMENT STRATEGIES ON SOYBEAN DEVELOPMENT AND YIELD (STUDENT PROJECT – 2016, 2017 & 2018)

Purpose: To evaluate the effects supplemental iron applications for management of Iron Deficiency Chlorosis (IDC) in soybean.

Figure 1: Common symptoms of Iron Deficiency Chlorosis

Procedure: Experiments were conducted at 2 locations in Mississippi during the 2016 growing season, at 3 locations in the 2017 growing season, and at 2 locations in the 2018 growing season. These locations were the Black Belt Experiment Station near Brooksville, MS and off-station locations near Prairie, MS and Okolona, MS. These sites were planted with an indeterminate MG V soybean variety with known susceptibility to Iron Deficiency Chlorosis (IDC). Plots were planted at a rate of 120,000 seeds per acre on 30-inch-wide rows. Plots were 4 rows wide by 40 feet long. The center two rows were treated while leaving untreated checks on rows 1 & 4. Treatments included 3 products, 3 application timings, and 4 rates. In 2016, these products were the following: Iron Plus (5% Fe) by Delta Ag, Sequestar 13.2% EDTA by Brandt, and Sequestar 6% EDDHA by Brandt. In 2017 & 2018, Iron Plus was replaced by F227-G (40% Fe) by Frit Industries at rates of 0.5, 1.0, 1.5, 2.0 lbs ai/ac. All other products were applied at a rate of 0.6, 0.12, 0.18, and 0.24 lb ai/A. Each rate was applied as foliar and in-furrow applications, and a split application except for the F227-G, which was always applied in-furrow at planting. Foliar applications were made when soybeans reached the V3 growth stage. Each application timing/method was treated as a separate experiment. Data collected included stand counts, weekly IDC ratings (1-no symptoms, 9-dead), plant heights/nodes, and yield. Stand counts were recorded after emergence and again at harvest to monitor the plant population. Plant heights and nodes were recorded at the R5.5 growth stage. The center two rows of each plot were machine-harvested to determine final soybean yield.

Figure 2: Visual differences between treated rows and untreated rows when Sequestar 6% EDDHA is applied in-furrow.

Table 1: Yield response to foliar-applied iron products averaged over all locations and years

Rate[1]	Sequestar 6%	Sequestar 13.2%	Iron Plus	F227-G	Untreated
	---------- Yield (bu/ac) ----------				
1	17.98 abcd	16.64 cd	18.78 abcd	17.98 bcd	18.50 abcd
2	16.52 d	18.28 abcd	20.66 ab	18.87 abcd	
3	18.50 abcd	19.53 ab	21.66 a	18.41 abcd	
4	18.37 abcd	18.96 abc	20.38 ab	17.68 bcd	

[1]Rates labeled 1, 2, 3, 4 are 0.06, 0.12, 0.18, and 0.24 lb ai/ac, respectively for Sequestar 6%, Sequestar 13.2%, and Iron Plus. Rates labeled 1, 2, 3, 4 are 0.5, 1.0, 1.5, and 2.0 lb ai/ac, respectively for F227G.

Table 2: Yield response to in-furrow iron products averaged over all locations and years

Rate[1]	Sequestar 6%	Sequestar 13.2%	Iron Plus	F227-G	Untreated
	---------- Yield (bu/ac) ----------				
1	14.95 abc	14.33 abc	12.03 c	13.19 abc	13.75 abc
2	16.84 a	15.16 abc	14.43 abc	14.61 abc	
3	14.79 abc	14.35 abc	12.80 bc	14.39 abc	
4	4	15.69 ab	14.62 abc	12.57 bc	

[1]Rates labeled 1, 2, 3, 4 are 0.06, 0.12, 0.18, and 0.24 lb ai/ac, respectively for Sequestar 6%, Sequestar 13.2%, and Iron Plus. Rates labeled 1, 2, 3, 4 are 0.5, 1.0, 1.5, and 2.0 lb ai/ac, respectively for F227G.

Table 3: Yield response to split-applied iron products averaged over all locations and years

Rate[1]	Sequestar 6%	Sequestar 13.2%	Iron Plus	F227-G	Untreated
	---------- Yield (bu/ac) ----------				
1	21.95 abcd	22.25 abcd	23.04 abcd	23.62 abc	21.12 bcd
2	22.07 abcd	23.64 ab	20.43 bcd	20.21 cd	
3	23.13 abcd	21.73 abcd	22.05 abcd	19.20 d	
4	24.24 a	22.50 abcd	23.53 abcd	22.27 abcd	

[1]Rates labeled 1, 2, 3, 4 are 0.06, 0.12, 0.18, and 0.24 lb ai/ac, respectively for Sequestar 6%, Sequestar 13.2%, and Iron Plus. Rates labeled 1, 2, 3, 4 are 0.5, 1.0, 1.5, and 2.0 lb ai/ac, respectively for F227G.

Results: These data revealed that yield differences among the foliar, split, or in-furrow experiments were not significant. This is likely due to the sporadic nature of IDC. Visual symptoms of IDC were reduced when Sequestar 6% was applied at rates of 0.18 and 0.24 lbs ai/ac when compared to the untreated check at 14, 28, and 42 DAP (not shown). Sequestar 6% at rates of 0.18 and 0.24 lbs ai/ac resulted in fewer visual symptoms than any of the other treatments at 14 and 28 DAP (not shown). While the irregularity along with the severity of iron chlorosis within plots caused drastically reduced yield potential that resulted in no differences, the Sequestar 6% at rates of 0.18 and 0.24 lbs ai/ac consistently showed positive results in affected areas as shown in Figure 2 above. Additional work is currently being conducted in a greenhouse setting to further evaluate the effectiveness that the Sequester 6% EDDHA product has on IDC as it relates to soybean growth and development. **However, at this time, data generated through the SMART program suggest that variety selection is the BMP of choice for IDC management in soybean.**

EVALUATION OF OPTIMAL SEEDING RATE AND PLANTING APPROACH FOR REPLANT SITUATIONS IN SOYBEAN (STUDENT PROJECT – 2016 & 2017)

Purpose: This study was conducted in order to determine the optimal replant seeding rate for various levels of reduced soybean populations.

Procedure: Experiments were conducted at four locations in Mississippi during the 2016 and 2017 growing seasons. These locations were the R.R. Foil Plant Science Research Center near Starkville, MS in 2016 and 2017 and the Black Belt Experiment Station near Brooksville, MS in 2016 and 2017. Seed was planted with a plot planter at a seeding rate of 130,000 seeds/A using an indeterminate MG 4 variety. Treatments at the initial planting date included combinations of Roundup Ready 2 Xtend and LibertyLink soybean seed. Percentages of RR2X/LL were 00/0, 75/25, 50/50, 25/75 and 0/100 (Table 1 below). In order to simulate a failed stand, plots were sprayed with glyphosate at the V1 growth stage to eliminate the LL variety, which were randomly distributed throughout the row. Plots were replanted approximately 2 weeks after the initial planting date. The replant percentages of RR2X were 100, 75, 50, 25 and 0, resulting in 25 total treatments and these were planted into the existing plots of the initial planting. Test plots were four, 38-inch-wide rows that were 40 feet long. All treatments were irrigated as needed and replicated 4 times.

Table 1. Treatments further described.

Initial RR2X/LL %	Replant Percentage %				
	0	25	50	75	100
100/0	100/0	100/25	100/50	100/75	100/100
75/25	75/0	75/25	75/50	75/75	75/100
50/50	50/0	50/25	50/50	50/75	50/100
25/75	25/0	25/25	25/50	25/75	25/100
0/100	0/0	0/25	0/50	0/75	0/100

Figure 1. Pictures demonstrating the stand reduction following the herbicide application.

Figure 2. Soybean plant Heights averaged across all years and locations.

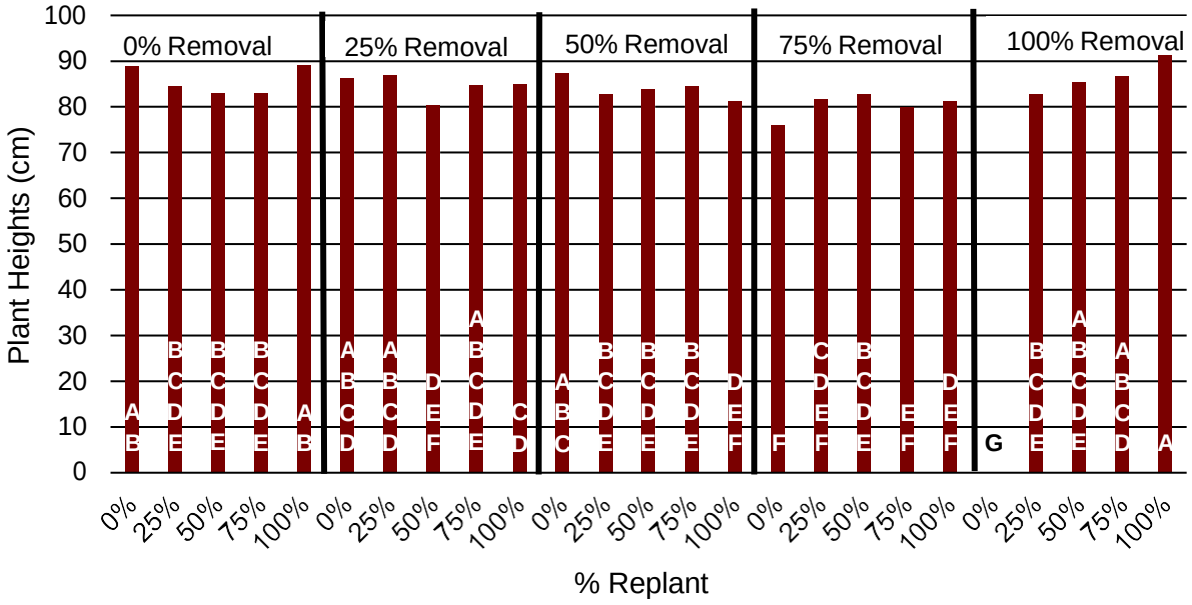


Figure 3. Soybean node counts averaged across all years and locations.

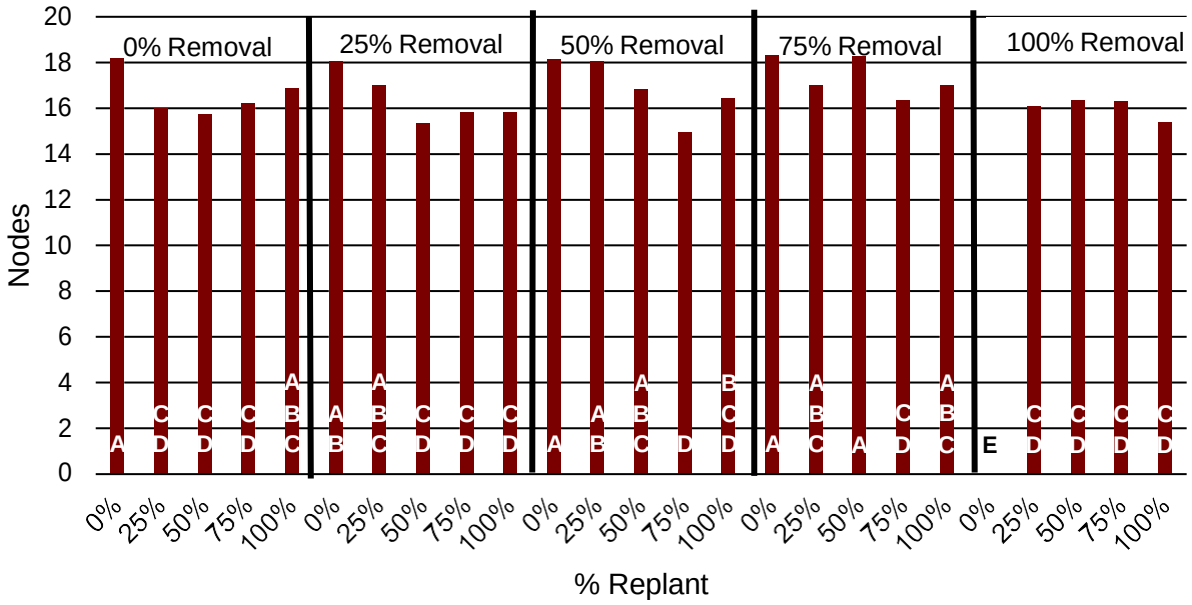
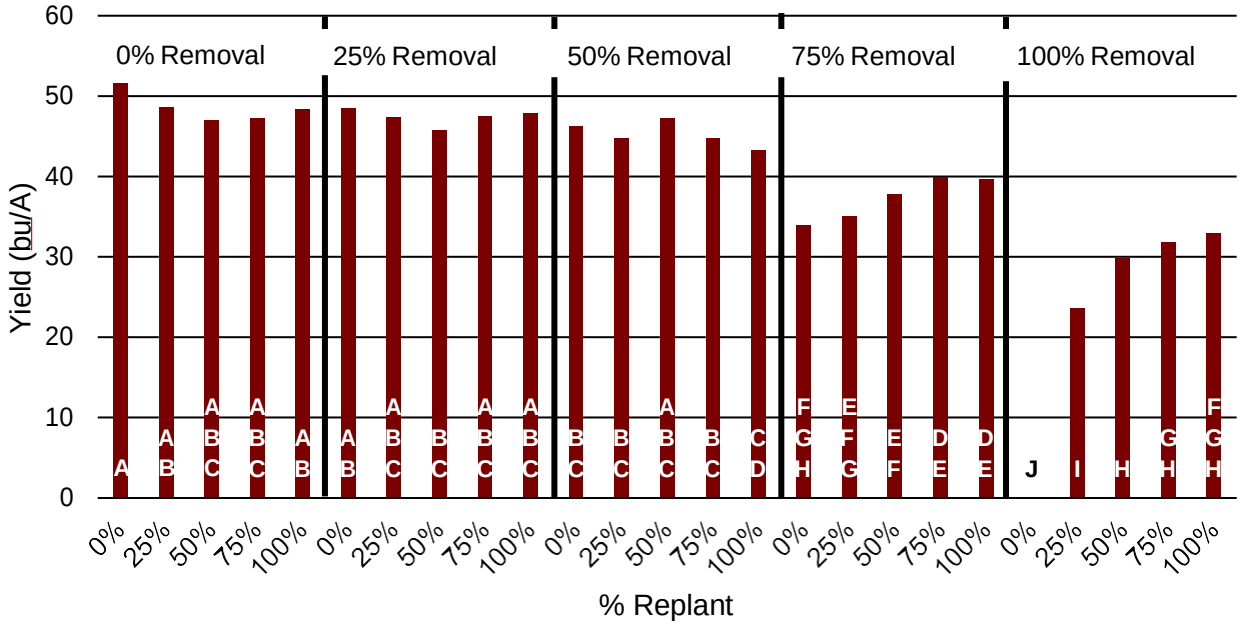


Figure 4. Soybean yield averaged across all years and locations.



Results: The combination of soybean stand removal and replant resulted in yield differences as well as differences in total number of nodes and plant heights. As expected, soybean yield for the comparison treatment of 0/0% removal/replant was greater than that of the 100/100% removal/replant, likely due to the delay in planting date that occurred and assuming complete removal and replant following a failed stand. No soybean yield difference were observed for treatments of 50/50% removal/replant and 0/0% removal/replant. When 75% of the initial population was removed, soybean yield was maximized by replanting at least 75% into the existing stand. No significant plant height difference was observed for the treatments of 0/0% removal/replant and 100/100% removal/replant. Final node count indicated a significant difference among the 0/0% removal/replant and 100/100% removal/replant. These data indicate that producers should maintain a reduced population of up to 50% (~ 60K or more actively growing plants per acre) as long as that population is uniform rather than terminating the existing crop and starting completely over. This is further evidence of how important planting date is in terms of soybean yield potential. Current projects are underway to further refine these figures as well as evaluate replant scenarios across differing planting dates and production systems.

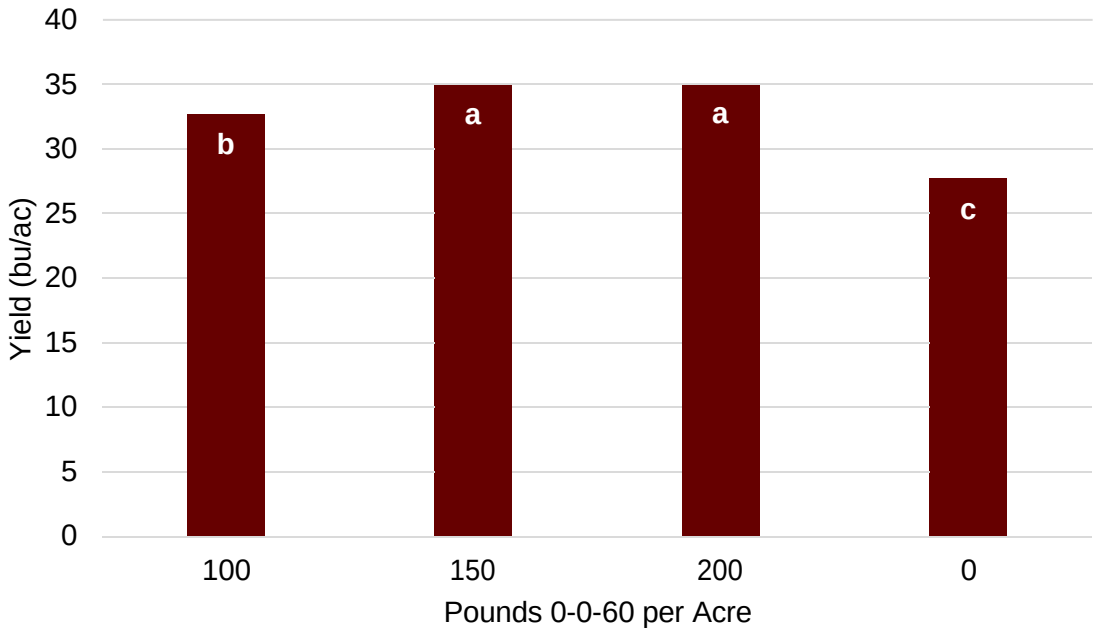
SOYBEAN YIELD RESPONSE TO POTASSIUM FERTILIZER (2016 & 2017)

Purpose: This demonstration field was found to be extremely deficient in potassium. Thus, the demonstration was designed to evaluate the effect of potassium fertilizer (0-0-60) on soybean yield when applied at various rates.

Procedure: This demonstration trial was conducted during the 2016 and 2017 growing seasons in Prentiss County near Baldwyn, Mississippi on 38-inch-wide single rows. Potassium (0-0-60) was applied at three rates (Table 1) along with an untreated check where no potassium was applied for comparison. The three application rates were 100, 150, and 200 pounds per acre. Soil samples were collected prior to planting and at harvest to monitor nutrient availability. Soybean yield was collected to determine the effectiveness of the potassium applications.

Figure 2. Visual potassium deficiency symptoms observed at the 2017 field site.

Table 1. Yield differences observed among different application rates of potassium fertilizer, averaged across years.



Results: Data analyzed across both years (2016 and 2017) suggest that the addition of potassium fertilizer (0-0-60) resulted in greater yields compared to treatments that received no potassium fertilizer. These demonstration results should serve as an example for how proper soil sampling and nutrient management can improve soybean yield where nutrient deficiencies often result in lower yield.

SOYBEAN YIELD RESPONSE TO NEMATICIDE SEED TREATMENT IN RAINFED PRODUCTION SYSTEMS (2015, 2016 & 2017)

Purpose: To evaluate the effect of nematicide seed treatments on soybean yield.

Procedure: Nematicide seed treatments were evaluated in 2015, 2016, and 2017. Nematicide seed treatments were applied to a soybean variety with known tolerance to SCN. These demonstrations were conducted in large-scale plots in producer fields that had historically contained a soybean cyst nematode population (SCN). Nematode samples were collected at all locations in order to confirm that all fields had exceeded threshold levels of SCN at the time of planting. Currently the threshold level for soybean cyst nematode is 1 per pint of soil. Nematode sampling and yield were collected at each location at the end of each growing season to determine the effectiveness of the seed treatments that were evaluated.

Table 1: Yield averages for each seed treatment evaluated during the 2015, 2016 and 2017 growing seasons.

Treatment	Soybean Yield (bu/ac)
CruiserMaxx + Vibrance	29.6
Clariva Complete	29.2
iLevo	29.1
Aveo	31.5

Results: Data combined across 2015, 2016 and 2017 suggest that no yield benefit was observed with the addition of a nematicide seed treatment to soybean. It should be noted that soybean cyst nematode pressure through each field across each year was highly variable; thus the yield response to nematicide seed treatment could vary under different environments.

FUNGICIDE ON-FARM DEMONSTRATION TRIAL

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

Procedure: Four fungicide treatments (TRTs) were applied in large field-scale plots. These TRTs are further explained in Table 1. This demonstration was conducted at four locations during the 2018 growing season: Lowndes County near Artesia, MS, Washington County near Greenville, MS, Bolivar County near Benoit, MS and Yazoo County, near Satartia, MS. All locations with the exception of the one near Satartia received applications by airplane at 5 GPA; the Satartia location applications were made using a ground spray rig at 10 GPA. Final plant height along with lodging, shattering, and green stem visual estimation scores were collected prior to harvest, and soybean yield was measured. Additionally, grain quality analyses from samples collected at harvest was performed by a USDA-certified grain inspection facility.

Table 1: Fungicide application treatments

TRT No.	Product	Application Timing	Application Rate
1	Quadris Top SBX	R3/R4	7 fl. oz./acre
1	NIS	R3/R4	0.25 % V/V
1	Satori Fungicide	R5.5/R6	6 fl. oz./acre
1	NIS	R5.5/R6	0.25 % V/V
2	Quadris Top SBX	R3/R4	7 fl. oz./acre
2	NIS	R3/R4	0.25% V/V
3	Satori Fungicide	R3/R4	6 fl. oz./acre
3	Monsoon	R3/R4	4 fl. oz./acre
3	NIS	R3/R4	0.25% V/V
4	Untreated Control		

Figure 1: Fungicide application trial layout

Quadris Top SBX + NIS @ R3/R4 Satori + NIS @R5.5/R6	**UNTREATED**	**Quadris Top SBX + NIS @ R3/R4**	**UNTREATED**	**Satori + Monsoon + NIS @ R3/R4**

Table 2: Plant height measurements along with lodging, shattering and green stem scores[1]

UNTREATED	TRT 1	TRT 2	TRT 3
---------- Plant Height (in) ----------			
38.3	38.1	39.3	41.5
---------- Lodging (0-10) ----------			
3.3	2.7	2.7	3.3
---------- Shattering (0-10) ----------			
1.7	1.3	0.7	1.7
---------- Green Stem (0-10) ----------			
1.3	1.3	1.3	0.3

[1]Data are averaged across all demonstration locations.

Figure 2: Yield differences among treatments averaged across all locations.

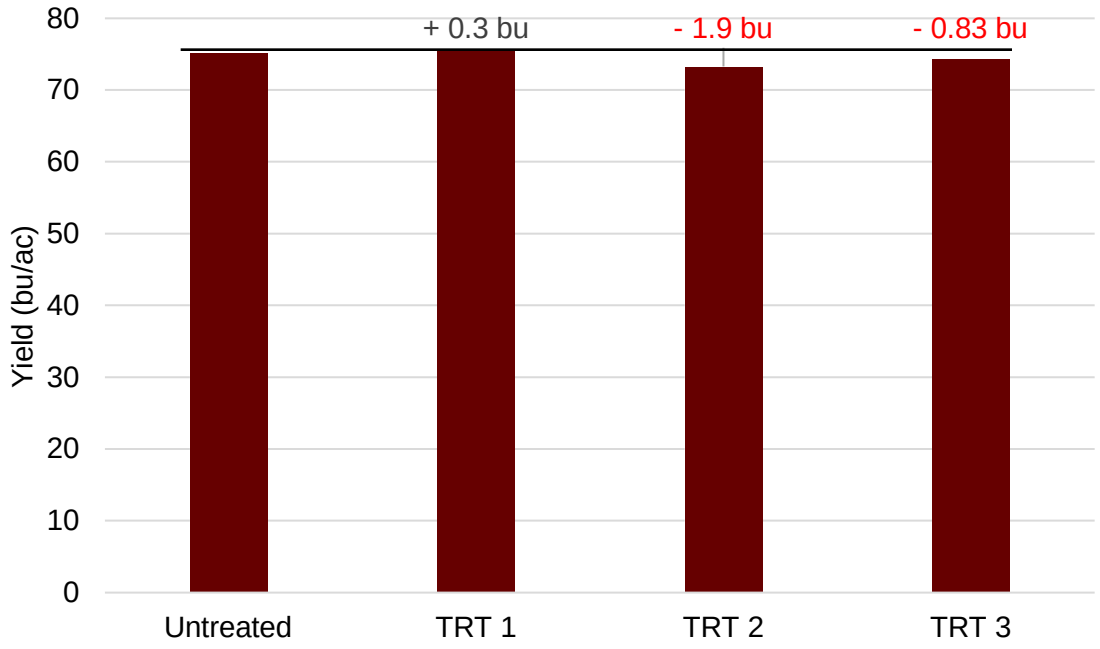


Table 3: Average Damaged Kernels Total (DKT) and damage CCC discounts by treatment.

Untreated	TRT 1	TRT 2	TRT 3
DKT (%)			
3.1	2.7	2.7	1.8
Discount per Bu ($)			
0.40	0.02	0.02	0.0

[1]Discounts were calculated using the 2018 Crop USDA CCC Premium and Discount Schedule

Table 4: Partial Budget Results for Fungicide Demonstration Trial.

Untreated	TRT 1	TRT 2	TRT 3
$ product cost per treatment[1]			
0.0	29.35	20.25	22.92
$ gross income (at $9.70/bu less discount)			
729.20	732.11	710.77	721.20
$ net return above treatment cost (gross income – product cost)			
727.69	701.25	689.05	698.28
$ gain per acre over untreated			
0.0	-26.45	-38.64	-29.42

[1]Product costs were determined using the MSU Extension 2018 Soybean Planning Budget

Results: No yield increases (Figure 2) were observed nor were any differences observed in plant height, lodging, shattering, and green stem scores (Table 2). Additionally, damaged kernels total and seed quality discounts showed no differences (Table 3) among treatments. No economic gain was observed from these fungicide applications (Table 4). These results indicate that no fungicide application evaluated in this study offered a yield or economic gain compared to the untreated check, given the conditions of the 2018 growing season. One factor to consider is that the varieties planted in each of these fields contained excellent disease packages, which likely impacted the lack of yield response to foliar fungicide applications.

IDC VARIETAL SCREENING - MATURITY GROUP IV MID

2018 Soybean Maturity Group IV Mid RR / RR2 / RR2X Variety Response to Iron Deficiency Chlorosis

Brand	Variety	IDC Tolerance Score[1]					Avg. IDC Tolerance	Yield (bu/A)[2]
Pioneer	P46A16R	3	4	4	5	4	4	58.0
Local Seed	LS4565XS	6	6	6	5	5	5	56.7
Great Heart	GT-4628X	5	4	5	4	9	6	55.9
Delta Grow	DG 4670 RR2	4	5	5	4	4	4	53.1
Asgrow	AG45X8	5	5	5	5	4	5	52.7
Croplan	RX 4500 S	6	5	6	5	5	6	50.8
Progeny	P4620RXS	6	6	7	6	5	6	49.9
AgriGold	G4605RX	5	5	6	5	5	6	49.8
Pioneer	P46A57BX	4	4	4	4	3	4	49.8
Dyna-Gro	S45XS37	6	6	6	5	4	5	48.9
Local Seed	LS4689X	6	6	5	6	4	5	48.5
Local Seed	LS4583X	5	6	6	5	5	5	47.4
Progeny	P4570RXS	5	6	6	6	6	6	46.6
AgriGold	G4579RX	5	6	6	6	5	6	46.0
Great Heart	GT-4685XS	5	6	6	6	5	6	45.8
Dyna-Gro	S45XS66	6	6	6	6	6	6	40.8
Asgrow	AG46X6	5	6	6	7	6	6	40.4
MorSoy	MS 4616 RXT	5	6	5	5	4	5	38.0
Delta Grow	DG 46X25RR2X	5	6	6	5	5	6	34.8
AGS	GS 46X17	7	7	7	7	7	7	33.0
Univ. of Missouri	S14-15146R	6	7	7	7	7	7	24.3
NK	S45-J3X	7	7	7	7	7	7	23.8
Croplan	RX4687S	6	7	7	8	7	7	23.5
Terral	REV 4679X	6	7	7	7	7	7	22.5
Local Seed	LS4677X	7	7	7	7	7	7	22.2
NK	S45-K5X	6	7	7	7	7	7	19.9
Mission Seed	A4637NSXR2	6	7	7	8	7	7	17.1

[1] Tolerance scores were assigned on a scale of 1 to 10 with 1 being completely tolerant and 10 being completely susceptible.
[2] Yield was only collected at one location, while tolerance scores were collected at two locations.

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 information regarding variety performance.

IDC VARIETAL SCREENING - MATURITY GROUP IV LATE

2018 Soybean Maturity Group IV Late RR / RR2 / RR2X
Variety Response to Iron Deficiency Chlorosis

Brand	Variety	IDC Tolerance Score[1]					Avg. IDC Tolerance	Yield (bu/A)[2]
Great Heart	GT-4979X	4	5	5	5	4	5	55.3
Asgrow	AG48X9	4	5	5	4	3	4	52.9
Terral	REV 4927X	4	5	5	4	3	4	51.8
GoSoy	49G16	4	5	6	6	5	5	48.2
USG	7489XTS	5	6	6	6	5	6	47.6
Delta Grow	DG 4790 RR2	4	5	6	5	5	5	47.3
Progeny	P4757RY	5	5	6	5	5	5	46.3
Progeny	P4799RXS	6	6	6	5	5	6	46.1
Dyna-Gro	S48XT56	4	6	6	6	6	5	43.7
Croplan	RX4825	4	6	6	6	5	5	43.2
NK	S48-R2X	3	4	4	5	4	4	42.7
AgriGold	G4995RX	6	6	6	5	5	5	42.5
Progeny	P4816RX	4	6	6	5	5	5	42.2
Progeny	P4955RX	5	5	6	6	6	6	40.9
MorSoy	MS 4846 RXT	5	6	6	6	5	5	40.8
Great Heart	GT-4833XS	6	6	6	6	6	6	39.9
Local Seed	LS4889XS	6	6	6	7	5	6	38.1
Armor	X47D22	5	5	6	5	5	5	38.1
Pioneer	P48A60X	5	6	6	6	6	6	38.0
Terral	REV 47A98	4	5	6	7	6	5	37.9
Local Seed	LS4966X	5	6	6	6	5	5	37.8
Dyna-Gro	S49XT39	5	5	6	6	6	6	36.6
Asgrow	AG47X9	6	6	6	7	6	6	35.5
Delta Grow	DG 48X45RR2X	5	6	6	6	6	6	34.4
Progeny	P4994RX	6	6	6	7	7	6	33.1
Terral	REV 4857X	6	6	6	6	6	6	29.1
USG	7496XTS	6	6	7	7	7	7	29.0
Univ. of Missouri	S14-15138R	6	6	7	7	6	6	28.9
Local Seed	LS4968XS	6	6	6	6	6	6	26.9
Petrus Seed	4916 GT	6	6	6	6	6	6	25.9
Terral	REV 48A26	5	6	6	7	7	6	24.9
Croplan	RX4927	6	7	7	7	7	7	23.2
Great Heart	GT-4721X	7	7	7	8	8	7	21.5
Asgrow	AG49X9	6	6	7	7	7	7	21.1
Progeny	P4851RX	7	7	7	7	8	7	19.7
Local Seed	LS4988X	6	6	7	7	7	6	19.7
Great Heart	GT-4809X	7	7	7	7	8	7	19.0
AGS	GS 48X18	6	7	7	7	7	7	18.0
Petrus Seed	479 GTS	6	6	7	8	7	7	16.8

[1] Tolerance scores were assigned on a scale of 1 to 10 with 1 being completely tolerant and 10 being completely susceptible.
[2] Yield was only collected at one location, while tolerance scores were collected at two locations.

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 information regarding variety performance.

IDC VARIETAL SCREENING - MATURITY GROUP V

2018 Soybean Maturity Group V RR / RR2 / RR2X
Variety Response to Iron Deficiency Chlorosis

Brand	Variety	IDC Tolerance Score[1]					Avg. IDC Tolerance	Yield (bu/A)[2]
Dyna-Gro	S52XT08	2	4	4	3	3	3	58.8
Asgrow	AG55X7	3	3	4	4	3	3	56.5
Delta Grow	DG 5170 RR2/ST	4	4	4	3	3	3	53.7
Terral	REV 55A67	4	4	5	4	4	4	53.2
Pioneer	P54A75X	4	5	5	5	5	4	51.1
Progeny	P5226RYS	4	4	5	4	3	4	48.5
GoSoy	50G17	4	4	5	4	4	4	46.5
Delta Grow	DG 52X15	5	5	5	6	5	5	46.4
Progeny	P5279RXS	3	5	6	5	5	5	45.4
Progeny	P5752RY	4	5	5	5	4	5	45.0
Progeny	P5554RX	3	4	5	5	4	4	44.9
Progeny	P5252RX	4	5	5	5	5	5	44.5
AgriGold	G5288RX	5	6	6	6	6	6	43.5
Progeny	P5018RX	4	5	6	5	5	5	39.6
Terral	REV 52A98	4	5	5	5	5	5	38.5
Progeny	P5688RX	3	4	5	6	5	4	38.5
AGS	GS 51X18S	3	4	4	4	3	4	37.6
USG	75B75R	3	3	4	4	4	4	37.4
Dyna-Gro	S56XT99	2	4	5	5	4	4	36.8
Asgrow	AG52X9	6	6	7	6	6	6	34.3
Local Seed	LS5087X	4	5	5	5	5	5	34.1
Great Heart	GT-5324X	3	4	3	4	3	4	30.6
GoSoy	54G16	4	5	4	3	3	4	26.3
Asgrow	AG54X9	6	6	6	6	6	6	23.0
Terral	REV 51A56	5	6	7	7	7	6	22.1
Croplan	RX 5016 S	6	6	6	7	7	6	19.5
Terral	REV 56A58	5	6	7	7	7	6	18.8
AgriGold	G5000RX	5	7	7	7	7	7	18.0
Progeny	P5016RXS	6	6	7	7	7	7	14.8
NK	S50-G9XS	6	7	7	7	7	7	13.6
Asgrow	AG53X9	6	7	7	8	8	7	13.4
Uni. of Missouri	S14-9017R	7	8	8	9	8	8	4.2

[1] Tolerance scores were assigned on a scale of 1 to 10 with 1 being completely tolerant and 10 being completely susceptible.
[2] Yield was only collected at one location, while tolerance scores were collected at two locations.

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 information regarding variety performance.

SEED QUALITY RESULTS MG IV VARETIES FROM THE 2018 ON-FARM VARIETY DEMONSTRATION

Soybean Seed Quality Results for MG IV Varieties from the 2018 On-Farm Variety Demonstration

		DKT[1] Score by Individual County Location									
		Locations with Mixed to Light Soil Texture					Locations with Clay Soil Texture				
		Bolivar	Calhoun	Leflore	Pontotoc		Humphreys	Sharkey	Sunflower		
Brand	Variety	5-3-18[2] 10-23-18[3]	5-23-18 11-20-18	5-3-18 10-5-18	5-10-18 10-4-18	DKT[4] AVG	5-11-18 10-8-18	5-10-18 10-9-18	5-2-18 10-8-18	DKT[5] AVG	Overall DKT[6] AVG
AgriGold	G4440RX	4.1	52.8	13.1	6.5	19.1	1.8	2.5	2.9	2.4	12.0
AGS	GS48X18	5.8	37.1	14.1	3.2	15.1	1.5	6.7	6.3	4.8	10.7
Armor	47-D17	4.8	55.7	44.9	5.5	27.7	2.1	5.6	7.7	5.1	18.0
Armor	48-D24	7.9	48.0	12.0	2.5	17.6	2.8	6.5	4.8	4.7	12.1
Asgrow	AG45X8	4.7	45.7	35.5	4.0	22.5	4.1	3.2	4.5	3.9	14.5
Asgrow	AG46X6	8.0	42.1	23.6	8.0	20.4	3.6	3.8	7.3	4.9	13.8
Delta Grow	DG 48X45 D	6.3	33.1	16.7	2.4	14.6	2.7	4.8	5.8	4.4	10.3
Dyna-Gro	S45XS66	-	-	-	-	-	2.3	3.4	5.2	3.6	-
Dyna-Gro	S48XT56	6.5	30.6	12.9	2.6	13.2	-	-	-	-	-
Local Seed	LS4677X	5.8	30.8	17.4	6.8	15.2	2.9	4.9	5.6	4.5	10.6
NK	S43-V3X	5.2	32.1	26.0	11.2	18.6	1.0	2.3	6.8	3.4	12.1
NK	S45-K5X	3.7	26.2	25.2	5.7	15.2	-	-	-	-	-
NK	S48-R2X	-	-	-	-	-	2.7	3.0	2.2	2.6	-
Pioneer	P48A32X	5.9	27.9	42.4	4.7	20.2	3.5	5.6	3.1	4.0	13.3
Pioneer	P48A60X	5.4	24.4	10.2	6.4	11.6	3.1	-	3.2	3.2	7.5
Progeny	P 4816 RX	10.6	28.3	16.9	4.1	15.0	3.1	-	5.8	4.5	10.2
Progeny	P 4851 RX	5.3	24.0	28.7	3.7	15.4	1.7	-	5.5	3.7	10.2
Terral	REV 4857X	7.2	24.7	13.9	1.8	11.9	2.1	2.0	3.7	2.6	7.9
Terral	REV 4927X	6.2	32.3	25.0	3.1	16.7	2.9	2.3	2.0	2.4	10.5

[1]DKT = Damaged Kernels Total
[2]Planting Date
[3]Harvest Date
[4]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.2307$).
[5]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.2566$).
[6]DKT scores were analyzed in SAS 9.4, average scores were found to not be significantly different across the varieties that were evaluated ($\alpha = 0.2208$).
DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA designated grain inspector agency.

2018 MSU Extension Soybean Variety Demonstration Program

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Table of Contents

2018 Locations **4**

Participants and Acknowledgements **5**

2018 Location Details **6**

Soybean Variety Characteristics **7**

Yield Information **10**

Summary of Maturity Group IV (Mixed/Light Soil) Irrigated Roundup Ready 2 Xtend® Varieties **10**

Summary of Maturity Group IV (Mixed/Light Soil) Non-Irrigated Roundup Ready 2 Xtend Varieties **11**

Summary of Maturity Group IV (Clay Soil) Irrigated Roundup Ready 2 Xtend Varieties **12**

Summary of Maturity Group V Non-Irrigated Roundup Ready 2 Xtend Varieties **13**

Individual Locations **14**

Bolivar County – Irrigated – MG IV (Mixed/Light Soil) RR2X **14**

Bolivar County – Irrigated – MG IV (Clay Soil) RR2X **15**

Calhoun County – Non-Irrigated – MG IV (Mixed/Light Soil) RR2X **16**

Hinds County – Non-Irrigated – MG IV (Mixed/Light Soil) RR2X **17**

Humphreys County – Irrigated – MG IV (Clay Soil) RR2X **18**

Jefferson County – Non-Irrigated – MG V RR2X **19**

Lee County – Non-Irrigated – MG IV &V LL **20**

Leflore County – Irrigated – MG IV (Clay Soil) RR2X **21**

Leflore County – Irrigated – RR2X (Mixed/Light Soil) RR2X **22**

Madison County – Non-Irrigated – MG V RR2X **23**

Monroe County – Non-Irrigated – MG V RR2X **24**

Noxubee County – Non-Irrigated – MG IV (Clay Soil) RR2X **25**

Noxubee County – Non-Irrigated – MG V RR2X **26**

Noxubee County – Non-Irrigated – MG IV &V LL **27**

Oktibbeha County – Irrigated – MG IV (Mixed/Light Soil) RR2X **28**

Oktibbeha County – Irrigated – MG V RR2X **29**

Pontotoc County – Non-Irrigated – MG IV (Mixed/Light Soil) RR2X **30**

Rankin County – Non-Irrigated – MG IV (Mixed/Light Soil) RR2X.....31
Sharkey County – Irrigated – MG IV (Clay Soil) RR2X..... 32
Sunflower County – Irrigated – MG IV (Mixed/Light Soil) RR2X 33
Sunflower County – Irrigated – MG IV (Clay Soil) RR2X 34
Sunflower County – Irrigated – MG IV (Clay Soil) RR2X 35
Washington County – Irrigated – MG IV & V LL.....36

During the 2018 growing season, a total of 23 on-farm soybean variety demonstration plots were successfully conducted. The following information is intended to complement data generated through small-plot OVT testing programs.

2018 Locations

County	Demonstration Type	Irrigation Method
Bolivar	MG IV RR2X (Mixed/Light Soil)	Furrow
Bolivar	MG IV RR2X (Clay Soil)	Furrow
Calhoun	MG IV RR2X (Mixed/Light Soil)	None
Hinds	MG V RR2X	None
Humphreys	MG IV RR2X (Clay Soil)	Furrow
Jefferson	MG V RR2X	None
Lee	MG IV & V LL	None
Leflore	MG IV RR2X (Clay Soil)	Furrow
Leflore	MG IV RR2X (Mixed/Light Soil)	Furrow
Madison	MG V RR2X	None
Monroe	MG V RR2X	None
Noxubee	MG IV RR2X (Clay Soil)	None
Noxubee	MG V RR2X	None
Noxubee	MG IV & V LL	None
Oktibbeha	MG IV RR2X (Mixed/Light Soil)	Furrow
Oktibbeha	MG V RR2X	Furrow
Pontotoc	MG IV RR2X (Mixed/Light Soil)	None
Rankin	MG IV RR2X (Mixed/Light Soil)	None
Sharkey	MG IV RR2X (Clay Soil)	Furrow
Sunflower	MG IV RR2X (Mixed/Light Soil)	Furrow
Sunflower	MG IV RR2X (Clay Soil)	Furrow
Sunflower	MG IV RR2X (Clay Soil)	Furrow
Washington	MG IV & V LL	Furrow

MSU Extension Participants

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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 providing the seed used at each location. The relationships among participating individuals are critical for the continued success of this program.

Assistance in the conduct of this program provided by: Chase Floyd, Kyle Sorrels, Tanner Dinsmore, Jake Hall and Tristan Knight.

County	Plot Type	Planting Date	Seeding Rate	Plot Width	Row Spacing	Tillage System	Soil Series	Irrigation Method	Harvest Date
Bolivar	MG IV RR2X (Mixed/Light)	3-May	135,000	12 twin rows	38”	Conv.	Dundee silty clay loam	Furrow	23-Oct
Bolivar	MG IV RR2X (Clay)	3-May	140,000	8 rows	38”	Conv.	Sharkey clay	Furrow	7-Oct
Calhoun	MG IV RR2X (Mixed/Light)	23-May	130,000	8 twin rows	38”	Conv.	Chastain silt loam	None	20-Nov
Hinds	MG V RR2X	17-May	90,000	8 rows	30”	Conv.	Memphis silt loam	None	15-Oct
Humphreys	MG IV RR2X (Clay)	11-May	140,000	16 twin rows	38”	Conv.	Alligator- Dowling clay	Furrow	8-Oct
Jefferson	MG V RR2X	18-May	150,000	25 rows	19”	Min. Till.	Sharkey clay	None	9-Oct
Lee	MG IV & V LL	11-Jun	140,000	10 rows	15”	Min. Till	Mantachie fine sandy loam	None	12-Oct
Leflore	MG IV RR2X (Clay)	3-May	120,000	6 rows	38”	Conv.	Alligator clay	Furrow	9-Oct
Leflore	MG IV RR2X (Mixed/Light)	3-May	115,000	8 rows	38”	Conv.	Dundee loam	Furrow	5-Oct
Madison	MG V RR2X	1-May	120,000	6 rows	30”	Min. Till.	Calloway silt loam	None	2-Oct
Monroe	MG V RR2X	10-May	115,000	6 rows	30”	Min. Till.	Vaiden silty clay	None	24-Oct
Noxubee	MG IV RR2X (Clay)	15-May	130,000	4 rows	38”	Conv.	Brooksville silty clay	None	24-Sep
Noxubee	MG V RR2X	15-May	130,000	4 rows	38”	Conv.	Brooksville silty clay	None	24-Sep
Noxubee	MG IV LL	8-May	140,000	4 rows	38”	Conv.	Brooksville silty clay	None	25-Sep
Noxubee	MG V LL	8-May	140,000	4 rows	38”	Conv.	Brooksville silty clay	None	25-Sep
Oktibbeha	MG IV RR2X (Mixed/Light)	15-May	140,000	2 rows	38”	Conv.	Marietta fine sandy loam	Furrow	2-Oct
Oktibbeha	MG V RR2X	15-May	140,000	2 rows	38”	Conv.	Marietta fine sandy loam	Furrow	4-Oct
Pontotoc	MG IV RR2X (Mixed/Light)	10-May	128,000	4 rows	30”	No Till.	Adaton silt loam	None	4-Oct
Rankin	MG IV RR2X (Mixed/Light)	1-May	135,000	5 rows	30”	Min. Till.	Kipling silt loam	None	14-Sep
Sharkey	MG IV RR2X (Clay)	10-May	132,000	6 rows	38”	Conv.	Sharkey clay	Furrow	9-Oct
Sunflower	MG IV RR2X (Mixed/Light)	2-May	125,000	4 twin rows	30”	Min. Till	Alligator silty clay loam	Furrow	1-Oct
Sunflower	MG IV RR2X (Clay)	2-May	130,000	8 twin rows	30”	Min. Till.	Alligator clay	Furrow	1-Oct
Sunflower	MG IV RR2X (Clay)	2-May	120,000	12 twin rows	40”	Conv. Till	Alligator clay	Furrow	8-Oct
Washington	MG IV & V LL	10-May	138,000	16 rows	38”	Conv.	Dubbs very fine sandy loam	Furrow	11-Oct

Soybean Variety Characteristics

Maturity Group IV Roundup Ready 2 Xtend 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]
AgriGold	G4440RX	4.4	RR2X	I	MB	M	LT
AGS	GS48X18	4.8	RR2X	I	B	MT	T
Armor	46-D08	4.6	RR2X	I	-	MT	T
Armor	47-D17	4.7	RR2X	I	-	MT	LT
Armor	48-D24	4.8	RR2X	I	M	S	LT
Asgrow	AG45X8	4.5	RR2X/SR	I	MB	MT	LT
Asgrow	AG46X6	4.6	RR2X	I	MB	T	T
Delta Grow	DG 48X45 D	4.8	RR2X	-	B	M	-
Dyna-Gro	S45XS66	4.5	RR2X/STS	I	B	MT	LT
Dyna-Gro	S48XT56	4.8	RR2X	I	M	M	LT
Local Seed	LA4677X	4.6	RR2X	I	B	MT	LT
NK	S43-V3X	4.3	RR2X	I	M	MT	LT
NK	S45-K5X	4.5	RR2X	I	B	MT	LT
NK	S48-R2X	4.8	RR2X	I	MB	T	LT
Pioneer	P48A60X	4.8	RR2X	I	MB	M	LT
Pioneer	P48A32X	4.8	RR2X	I	MB	MT	LT
Progeny	P 4851 RX	4.8	RR2X	I	B	M	TL
Progeny	P 4816 RX	4.8	RR2X	I	MB	M	LT
Terral	REV 4857X	4.8	RR2X	I	M	MT	G
Terral	REV 4927X	4.9	RR2X	I	B	MT	LT

[1] – RR2X = Roundup Ready 2 Xtend; 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 Set

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
AgriGold	G5000RX	5.0	RR2X	I	MB	MT	LT
AGS	GS51X18S	5.1	RR2X/STS	I	MB	MT	G
Armor	53-D04	5.3	RR2X	D	M	M	G
Asgrow	AG52X9	5.2	RR2X	I	MB	T	T
Asgrow	AG55X7	5.5	RR2X	D	B	MS	T
Dyna-Gro	S56XT99	5.6	RR2X	D	MB	T	T
Local Seed	LS5087X	5.0	RR2X	I	B	MT	LT
NK	S52-Y7X	5.2	RR2X	I	M	MT	LT
NK	S56-B7X	5.6	RR2X	D	MB	M	G
Pioneer	P54A54X	5.4	RR2X	D	M	M	G
Pioneer	P55A49	5.5	RR2X	D	MB	MS	G
Progeny	P 5016 RXS	5.0	RR2X/STS	I	MB	T	LT
Progeny	P 5688 RX	5.6	RR2X	D	B	T	T

[1] – RR2X = Roundup Ready 2 Xtend; 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 LibertyLink Set

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
Credenz	CZ 4548 LL	4.5	LL	I	M	MT	LT
Credenz	CZ 4918 LL	4.9	LL	I	M	MT	LT
Delta Grow	DG 4587LL	4.5	LL/STS	I	M	MT	T
Delta Grow	DG 4977LL	4.9	LL/STS	I	M	MT	G
Dyna-Gro	49LL34	4.9	LL	I	M	T	G
Terral	REV 49L88	4.9	LL	I	MB	MT	T

Maturity Group V LibertyLink Set

Brand	Variety	Relative Maturity	Herbicide Package[1]	Growth Habit[2]	Canopy Width[3]	Plant Height[4]	Plant Color[5]
Credenz	CZ 5150 LL	5.1	LL	D	MB	MT	G
Credenz	CZ 5147 LL	5.1	LL	D	MB	M	T
Go Soy	5115LL	5.1	LL	I	MB	MT	T

[1] – LL = LibertyLink; 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 (Mixed/ Light Soil) Roundup Ready 2 Xtend Varieties Summarized across Irrigated Locations							
Total number of locations:		**4**					
Planting date range:		**2-May-18 to 15-May-18**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score[1]**	**Avg. Shattering Score[1]**	**Avg. Green Stem Score[1]**	**Avg. Seed Moisture**	**Average Yield[2]**
		Inches	**0 to 10**	**0 to 10**	**0 to 10**	**%**	**bu/acre**
Armor	48-D24	38	2	1	0	15.5	73.2
Delta Grow	DG 48X45 D	38	2	1	0	15.5	71.5
Asgrow	AG46X6	39	3	1	1	15.6	70.1
Dyna-Gro	S48XT56	39	2	1	1	15.3	69.9
Progeny	P 4816 RX	40	3	1	1	15.3	69.0
Terral	REV 4927X	39	3	2	0	15.0	67.3
Pioneer	P48A60X	40	3	1	0	15.1	66.8
Terral	REV 4857X	41	4	1	1	14.9	66.8
Asgrow	AG45X8	37	2	1	1	16.1	65.6
AGS	GS48X18	39	3	1	0	16.2	64.5
AgriGold	G4440RX	40	5	1	0	16.2	64.2
NK	S45-K5X	33	3	1	1	15.7	63.6
Local Seed	LS4677X	39	4	1	0	15.5	63.3
Armor	47-D17	43	5	1	1	15.6	62.6
Progeny	P 4851 RX	42	7	1	1	15.0	62.1
Pioneer	P48A32X	42	6	1	1	15.0	61.6
NK	S43-V3X	36	3	1	1	16.1	61.1
Average across all irr. locations:						**15.5**	**66.1**

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

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

Maturity Group IV (Mixed/ Light Soil) Roundup Ready 2 Xtend Varieties Summarized across Non-irrigated Locations							
Total number of locations:		**3**					
Planting date range:		**1-May-18 to 23-May-18**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score[1]**	**Avg. Shattering Score[1]**	**Avg. Green Stem Score[1]**	**Avg. Seed Moisture**	**Average Yield[2]**
		Inches	**0 to 10**	**0 to 10**	**0 to 10**	**%**	**bu/acre**
Terral	REV 4927X	38	3	1	1	9.8	53.8
Progeny	P 4851 RX	38	3	1	1	10.0	52.1
Armor	48-D24	32	2	1	2	10.5	52.0
Pioneer	P48A32X	37	4	1	2	10.2	52.0
Dyna-Gro	S48XT56	32	1	1	2	10.0	51.9
Asgrow	AG46X6	32	2	0	1	10.2	50.2
Terral	REV 4857X	39	2	1	0	10.1	50.2
Armor	47-D17	35	3	0	1	10.2	50.1
Progeny	P 4816 RX	34	1	0	2	10.1	49.8
Delta Grow	DG 48X45 D	31	2	1	2	10.1	49.2
Pioneer	P48A60X	33	1	1	0	9.9	49.0
NK	S45-K5X	30	1	1	0	10.1	45.5
Asgrow	AG45X8	33	1	1	1	10.0	44.6
AgriGold	G4440RX	35	2	2	0	11.2	42.9
AGS	GS48X18	33	3	0	0	10.0	42.1
NK	S43-V3X	35	1	2	1	10.5	39.9
Local Seed	LS4677X	33	3	1	1	10.1	39.6
Average across all irr. locations:						**10.7**	**47.9**

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

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

Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend Varieties Summarized across Irrigated Locations							
Total number of locations:		**6**					
Planting date range:		**2-May-18 to 11-May-18**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score[1]**	**Avg. Shattering Score[1]**	**Avg. Green Stem Score[1]**	**Avg. Seed Moisture**	**Average Yield[2]**
		Inches	**0 to 10**	**0 to 10**	**0 to 10**	**%**	**bu/acre**
Asgrow	AG46X6	37	4	1	1	12.1	77.3
AGS	GS48X18	41	3	1	1	12.2	77.1
Armor	48-D24	37	2	1	2	12.2	76.9
Pioneer	P48A60X	39	2	1	1	11.8	76.1
Pioneer	P48A32X	42	4	1	1	12.0	74.4
Terral	REV 4927X	39	3	1	1	12.1	73.9
Delta Grow	DG 48X45 D	37	2	1	2	12.2	73.8
Dyna-Gro	S45XS66	39	4	1	1	12.1	73.7
Armor	47-D17	43	5	1	1	12.2	73.4
Local Seed	LS4677X	38	3	1	1	12.0	72.3
Progeny	P 4816 RX	38	2	1	2	12.1	72.3
AgriGold	G4440RX	37	3	1	1	11.8	72.2
Asgrow	AG45X8	36	2	1	0	12.1	71.8
Progeny	P 4851 RX	39	6	1	2	12.0	71.3
Terral	REV 4857X	38	3	1	1	12.0	70.4
NK	S48-R2X	38	2	1	1	12.0	69.7
NK	S43-V3X	35	3	2	1	12.4	67.7
Average across all irr. locations:						**12.1**	**73.2**

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

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

Maturity Group V Roundup Ready 2 Xtend Varieties Summarized across Non-irrigated Locations							
Total number of locations:		**5**					
Planting date range:		**1-May-18 to 18-May-18**					
Brand	**Variety**	**Avg. Plant Height**	**Avg. Lodging Score[1]**	**Avg. Shattering Score[1]**	**Avg. Green Stem Score[1]**	**Avg. Seed Moisture**	**Average Yield[2]**
		Inches	**0 to 10**	**0 to 10**	**0 to 10**	**%**	**bu/acre**
AgriGold	G5000RX	39	2	1	1	12.5	51.4
Local Seed	LS5087X	40	2	1	1	12.4	49.8
Progeny	P 5016 RXS	48	2	1	1	12.5	51.7
AGS	GS51X18S	36	2	1	0	12.6	48.1
Asgrow	AG52X9	39	2	1	1	12.7	53.0
NK	S52-Y7X	34	1	1	1	12.3	48.8
Armor	53-D04	27	1	1	3	12.7	52.8
Pioneer	P54A54X	26	1	1	3	12.5	57.0
Asgrow	AG55X7	24	1	1	3	12.6	50.8
Pioneer	P55A49	26	1	1	3	12.5	54.4
Dyna-Gro	S56XT99	33	1	1	3	12.8	53.5
NK	S56-B7X	32	1	1	2	13.2	49.8
Progeny	P 5688 RX	34	2	1	3	13.2	53.3
Average across all irr. locations:						**12.7**	**51.9**

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

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

Bolivar County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Asgrow	AG46X6	46	4	1	1	6	-	8	7	13.6	96.4
Dyna-Gro	S48XT56	43	2	1	1	6	-	8	6	13.4	94.7
Armor	48-D24	44	2	1	0	6	-	9	8	13.5	93.7
Delta Grow	DG 48X45 D	42	2	1	0	6	1	7	7	13.5	91.1
Asgrow	AG45X8	41	2	2	1	6	-	9	8	13.9	90.2
Progeny	P 4816 RX	46	2	1	1	6	-	7	7	13.6	90.1
Pioneer	P48A32X	42	7	1	1	6	-	9	6	13.1	88.5
Terral	REV 4927X	42	5	1	0	6	-	8	9	13.1	87.7
AgriGold	G4440RX	43	7	1	0	6	-	7	7	14.1	87.4
AGS	GS48X18	44	4	1	0	6	-	8	7	13.8	85.4
Pioneer	P48A60X	42	3	1	1	7	-	8	7	13.7	85.4
NK	S43-V3X	35	3	2	2	7	-	8	6	13.8	85.3
NK	S45-K5X	32	1	1	1	7	-	7	9	13.5	84.9
Terral	REV 4857X	45	8	1	1	6	-	8	6	13.2	83.5
Local Seed	LS4677X	43	5	1	0	6	-	8	7	13.4	82.7
Armor	47-D17	43	5	1	0	6	-	7	8	13.7	82.5
Progeny	P 4851 RX	45	9	1	1	6	-	9	7	13.4	80.9
Plot Average:										**13.5**	**87.7**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Bolivar County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	Variety	Final Height	Lodging Score	Shattering Score	Green Stem Score	Disease Ratings				Seed Moisture	Yield[5]
						CLB[1]	FLS[2]	SBS[3]	TS[4]		
		Inches	0 to 10[6]	0 to 10[6]	0 to 10[6]	0 to 9[7]	0 to 9[7]	0 to 9[7]	0 to 9[7]	%	bu/acre
Armor	48-D24	39	1	3	0	6	1	6	7	10.7	89.1
Asgrow	AG46X6	36	7	2	0	6	-	7	6	10.8	87.6
Progeny	P 4816 RX	40	2	2	0	6	-	7	8	9.9	86.2
Delta Grow	DG 48X45 D	40	2	1	1	6	-	8	8	10.4	84.3
AgriGold	G4440RX	38	1	1	0	7	1	8	8	9.6	84.0
Terral	REV 4927X	40	5	1	0	7	-	8	7	10.3	83.6
Terral	REV 4857X	40	4	1	2	6	-	9	7	9.7	83.4
Pioneer	P48A60X	41	4	1	1	7	1	8	9	10.4	83.3
Pioneer	P48A32X	43	8	2	0	7	-	8	9	10.2	80.9
AGS	GS48X18	41	4	2	1	6	-	8	7	10.4	80.6
Asgrow	AG45X8	34	2	1	0	7	-	8	9	10.5	80.4
NK	S48-R2X	39	3	1	0	7	-	8	9	10.5	80.4
Local Seed	LS4677X	43	5	1	0	7	-	8	6	10.4	79.9
Dyna-Gro	S45XS66	41	6	2	0	6	1	7	6	10.9	78.3
Armor	47-D17	44	6	1	0	7	1	7	8	11.0	73.6
NK	S43-V3X	33	2	3	0	6	-	8	7	11.3	73.0
Progeny	P 4851 RX	38	9	1	2	6	1	7	9	10.5	71.3
										10.4	**81.2**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Calhoun County –Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Armor	47-D17	30	2	1	0	7	-	7	6	15.2	36.4
Terral	REV 4857X	44	2	1	0	7	-	8	8	15.5	36.3
Dyna-Gro	S48XT56	35	1	1	0	6	-	6	6	14.4	36.0
Armor	48-D24	35	3	1	0	7	-	7	7	15.3	35.4
Pioneer	P48A32X	35	4	1	0	7	-	7	7	15.4	33.9
Pioneer	P48A60X	33	1	2	0	7	-	7	6	15.1	33.6
Progeny	P 4851 RX	39	1	1	0	7	-	7	7	15.5	32.7
Progeny	P 4816 RX	46	1	1	0	7	-	7	8	15.4	32.2
Local Seed	LS4677X	38	4	1	0	7	-	8	6	14.8	32.0
Delta Grow	DG 48X45 D	33	3	1	0	7	-	7	7	15.2	31.8
AGS	GS48X18	29	5	1	0	7	-	7	7	14.8	26.2
Asgrow	AG46X6	27	2	1	0	7	-	7	6	15.4	25.4
Terral	REV 4927X	29	2	1	0	7	-	7	6	14.8	24.1
NK	S45-K5X	30	1	1	0	7	-	6	6	14.8	20.9
AgriGold	G4440RX	31	1	4	0	7	-	7	6	15.6	19.6
Asgrow	AG45X8	28	1	2	0	7	-	6	6	14.9	17.3
NK	S43-V3X	33	1	3	0	7	-	8	6	15.4	10.3
Plot Average:										**15.2**	**28.5**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Hinds County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Progeny	P 5688 RX	25	0	1	1	6	-	8	8	13.5	48.1
NK	S52-Y7X	25	0	1	1	7	-	7	8	12.7	46.4
Dyna-Gro	S56XT99	26	0	1	1	6	-	8	7	12.2	44.7
Local Seed	LS5087X	34	1	1	0	7	-	8	8	12.7	44.1
Asgrow	AG52X9	27	0	1	0	6	-	7	8	12.7	42.9
Progeny	P 5016 RXS	34	1	1	0	7	-	8	8	12.5	42.8
AgriGold	G5000RX	31	1	1	0	7	-	7	8	12.6	42.6
Armor	53-D04	20	0	1	0	6	-	7	7	12.5	41.5
Pioneer	P54A54X	16	0	1	1	6	-	8	7	12.2	40.8
AGS	GS51X18S	27	1	1	0	7	-	8	7	13.1	39.3
Pioneer	P55A49	19	0	1	0	6	-	8	8	12.3	37.5
NK	S56-B7X	23	0	1	0	6	-	7	7	12.6	35.0
Asgrow	AG55X7	17	0	1	1	6	-	7	7	12.6	32.4
Plot Average:										**12.6**	**41.4**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Humphreys County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Armor	47-D17	40	5	1	1	6	-	8	6	11.8	73.8
Asgrow	AG46X6	35	2	1	1	7	-	8	8	11.1	73.6
Progeny	P 4851 RX	40	4	1	1	7	-	8	7	11.9	72.1
Pioneer	P48A32X	44	3	1	0	7	-	7	6	12.0	71.6
Terral	REV 4927X	39	2	1	0	7	-	8	6	12.4	71.4
Dyna-Gro	S45XS66	40	4	1	0	7	-	8	6	11.2	70.6
Armor	48-D24	39	2	1	1	6	-	7	6	11.3	70.0
Delta Grow	DG 48X45 D	33	3	1	4	6	-	6	7	12.0	69.6
Progeny	P 4816 RX	40	3	1	2	7	-	7	6	12.5	69.3
Pioneer	P48A60X	36	1	1	0	7	-	8	8	11.6	68.7
Asgrow	AG45X8	38	2	1	0	7	-	7	7	10.8	68.1
Terral	REV 4857X	36	2	1	1	7	-	8	8	12.3	67.3
AGS	GS48X18	40	5	1	0	6	-	7	6	11.6	64.1
AgriGold	G4440RX	39	3	1	0	7	-	7	7	10.9	63.7
NK	S48-R2X	39	2	1	3	6	-	7	7	11.1	63.0
NK	S43-V3X	37	3	1	0	7	-	8	6	11.1	62.5
Local Seed	LS4677X	33	5	1	0	7	-	7	6	11.2	60.7
Plot Average:										**11.6**	**68.2**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Jefferson County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P54A54X	22	-	-	-	-	-	-	-	13.2	80.2
NK	S52-Y7X	26	-	-	-	-	-	-	-	13.2	80.0
Armor	53-D04	26	-	-	-	-	-	-	-	13.1	79.9
Asgrow	AG52X9	43	-	-	-	-	-	-	-	13.2	79.0
AgriGold	G5000RX	39	-	-	-	-	-	-	-	13.3	78.1
AGS	GS51X18S	42	-	-	-	-	-	-	-	13.3	76.3
Local Seed	LS5087X	41	-	-	-	-	-	-	-	13.1	76.1
Pioneer	P55A49	31	-	-	-	-	-	-	-	12.9	75.9
Asgrow	AG55X7	24	-	-	-	-	-	-	-	12.8	75.5
Progeny	P 5016 RXS	41	-	-	-	-	-	-	-	13.3	75.0
Dyna-Gro	S56XT99	35	-	-	-	-	-	-	-	13.1	71.4
Progeny	P 5688 RX	46	-	-	-	-	-	-	-	13.3	69.8
NK	S56-B7X	29	-	-	-	-	-	-	-	13.4	68.3
Plot Average:										**13.2**	**75.8**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Lee County – Non-Irrigated Maturity Group IV LibertyLink											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Delta Grow	DG 4587LL	30	2	2	3	6	-	8	7	12.1	62.3
Terral	REV 49L88	36	4	1	3	6	-	7	6	12.2	61.0
Credenz	CZ 4548 LL	28	0	3	1	7	-	7	7	12.2	51.8
Credenz	CZ 4918 LL	21	0	2	2	6	-	7	8	12.0	42.0
Delta Grow	DG 4977LL	35	3	2	1	6	-	-	-	12.3	41.7
Dyna-Gro	49LL34	28	1	1	1	6	-	7	7	12.0	38.4
Plot Average:										**12.1**	**49.5**
Lee County – Non-Irrigated Maturity Group V LibertyLink											
Credenz	CZ 5150 LL	33	2	2	2	6	-	7	8	11.8	49.8
GoSoy	5115LL	32	2	3	4	6	-	8	7	11.9	47.1
Credenz	CZ 5147 LL	25	0	1	6	6	3	8	8	11.8	43.0
Plot Average:										**11.8**	**46.6**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Leflore County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	Variety	Final Height	Lodging Score	Shattering Score	Green Stem Score	Disease Ratings				Seed Moisture	Yield[5]
						CLB[1]	FLS[2]	SBS[3]	TS[4]		
		Inches	0 to 10[6]	0 to 10[6]	0 to 10[6]	0 to 9[7]	0 to 9[7]	0 to 9[7]	0 to 9[7]	%	bu/acre
Armor	48-D24	34	2	1	2	7	1	7	6	12.8	66.1
Terral	REV 4927X	33	2	1	0	7	-	8	8	13.7	65.7
Asgrow	AG46X6	37	3	0	1	7	-	8	7	12.7	65.0
Progeny	P 4851 RX	32	3	2	0	7	-	8	7	13.5	64.5
Pioneer	P48A32X	39	3	1	0	7	-	8	6	13.7	64.4
Pioneer	P48A60X	39	1	2	0	7	-	8	7	13.0	64.0
Local Seed	LS4677X	38	2	0	0	7	-	7	7	12.9	63.4
Armor	47-D17	38	4	2	0	7	-	8	8	13.0	62.7
AGS	GS48X18	40	2	1	0	6	-	8	8	13.2	62.3
AgriGold	G4440RX	35	4	1	0	7	1	7	6	12.7	60.6
Progeny	P 4816 RX	35	1	0	0	7	-	7	6	13.2	60.4
Terral	REV 4857X	34	2	2	1	7	1	8	6	13.6	60.4
Dyna-Gro	S45XS66	38	3	0	0	7	-	7	8	12.7	60.3
NK	S43-V3X	30	2	1	0	7	-	8	7	12.9	59.1
Delta Grow	DG 48X45 D	37	1	0	0	7	-	8	6	13.2	57.9
Asgrow	AG45X8	35	3	1	0	7	-	7	7	12.8	56.9
NK	S48-R2X	36	1	0	0	6	-	7	6	13.4	53.9
Plot Average:										**13.1**	**61.6**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Leflore County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P48A60X	38	3	1	0	7	-	7	8	12.9	72.4
Armor	48-D24	37	2	1	0	7	-	8	6	14.4	71.4
Progeny	P 4816 RX	35	2	1	0	7	-	7	6	13.2	70.0
Delta Grow	DG 48X45 D	35	2	1	0	7	-	7	7	13.6	69.0
AGS	GS48X18	37	3	2	0	7	-	9	8	14.0	66.3
Local Seed	LS4677X	39	5	1	0	7	-	8	8	13.8	66.2
Dyna-Gro	S48XT56	38	2	2	0	7	-	9	7	13.0	64.1
Asgrow	AG46X6	39	4	1	0	7	-	9	7	14.0	63.7
NK	S45-K5X	33	2	1	0	7	-	8	6	15.0	61.5
Terral	REV 4857X	39	3	2	0	7	-	8	8	12.5	61.4
Terral	REV 4927X	36	3	3	0	7	-	8	7	12.3	56.1
AgriGold	G4440RX	39	5	1	0	7	-	9	8	14.5	56.0
Asgrow	AG45X8	34	2	1	0	7	-	8	7	14.4	55.3
Pioneer	P48A32X	40	9	1	0	7	-	8	8	12.3	49.8
Progeny	P 4851 RX	39	9	2	0	7	-	8	8	12.2	49.8
Armor	47-D17	45	8	2	0	7	1	8	7	13.7	49.5
NK	S43-V3X	33	4	1	0	7	-	8	7	14.7	47.1
Plot Average:										**13.6**	**60.6**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Madison County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P54A54X	30	1	1	0	-	-	-	-	12.4	56.1
Asgrow	AG55X7	23	1	1	0	-	-	-	-	12.6	54.1
Pioneer	P55A49	26	1	2	1	-	-	-	-	12.3	53.7
Dyna-Gro	S56XT99	31	1	1	1	-	-	-	-	13.0	52.8
Armor	53-D04	29	1	1	1	-	-	-	-	12.6	52.5
Progeny	P 5688 RX	31	3	1	0	-	-	-	-	13.4	50.6
NK	S56-B7X	41	1	1	0	-	-	-	-	12.8	49.1
Asgrow	AG52X9	44	2	1	0	-	-	-	-	12.1	48.7
AGS	GS51X18S	41	2	1	1	-	-	-	-	12.1	47.5
Progeny	P 5016 RXS	37	1	1	0	-	-	-	-	12.1	46.4
Local Seed	LS5087X	44	2	1	0	-	-	-	-	12.1	45.6
AgriGold	G5000RX	42	1	2	0	-	-	-	-	12.1	45.0
NK	S52-Y7X	41	1	1	0	-	-	-	-	12.2	41.7
Plot Average:										**12.4**	**49.5**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Monroe County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P54A54X	31	3	1	9	6	1	7	6	13.1	54.8
Progeny	P 5688 RX	38	2	1	8	6	-	7	7	13.1	53.8
Pioneer	P55A49	28	1	1	9	6	3	6	6	12.5	53.5
Dyna-Gro	S56XT99	38	3	1	8	6	-	7	6	12.9	50.7
Progeny	P 5016 RXS	35	2	1	0	7	-	7	6	12.5	48.8
Asgrow	AG52X9	39	2	1	0	6	-	7	6	13.1	48.5
Asgrow	AG55X7	26	1	1	9	6	3	7	7	13.0	47.9
NK	S56-B7X	35	3	1	6	7	-	7	8	13.2	47.1
Armor	53-D04	28	1	1	9	6	-	7	8	12.9	45.5
AgriGold	G5000RX	39	1	1	1	7	-	7	7	13.4	43.2
Local Seed	LS5087X	39	2	1	1	7	-	8	8	12.6	39.7
AGS	GS51X18S	32	2	1	0	6	-	7	8	12.8	38.8
NK	S52-Y7X	37	1	1	1	7	4	7	7	12.3	33.3
Plot Average:										**12.9**	**46.6**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Noxubee County – Non-Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P48A60X	40	1	0	0	-	-	-	-	11.5	49.5
Pioneer	P48A32X	44	2	1	0	-	-	-	-	11.5	46.9
Progeny	P 4851 RX	43	6	1	1	-	-	-	-	12.1	46.3
Progeny	P 4816 RX	37	1	1	1	-	-	-	-	11.7	45.0
Terral	REV 4927X	43	2	0	0	-	-	-	-	11.5	44.8
AgriGold	G4440RX	43	2	1	0	-	-	-	-	11.9	43.6
AGS	GS48X18	40	1	0	2	-	-	-	-	11.9	42.6
Delta Grow	DG 48X45 D	37	2	0	4	-	-	-	-	11.9	42.0
Armor	47-D17	44	5	0	1	-	-	-	-	12.3	41.9
Asgrow	AG46X6	38	2	3	0	-	-	-	-	12.3	41.9
Asgrow	AG45X8	40	3	0	0	-	-	-	-	12.0	41.7
Dyna-Gro	S45XS66	44	5	0	1	-	-	-	-	12.3	41.1
NK	S48-R2X	40	0	1	0	-	-	-	-	10.8	41.0
Armor	48-D24	37	1	0	2	-	-	-	-	12.3	40.8
Terral	REV 4857X	39	2	2	0	-	-	-	-	11.4	40.2
Local Seed	LS4677X	38	1	0	0	-	-	-	-	12.2	38.3
NK	S43-V3X	38	0	4	2	-	-	-	-	12.0	36.6
Plot Average:										**11.9**	**42.6**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Noxubee County – Non-Irrigated Maturity Group V Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P54A54X	30	1	1	0	-	-	-	-	11.7	53.0
Pioneer	P55A49	27	0	0	0	-	-	-	-	12.7	51.6
NK	S56-B7X	34	1	0	1	-	-	-	-	13.9	49.4
AgriGold	G5000RX	45	3	0	2	-	-	-	-	11.0	47.9
Dyna-Gro	S56XT99	34	0	0	2	-	-	-	-	13.0	47.9
Asgrow	AG52X9	43	2	0	2	-	-	-	-	12.2	46.0
Progeny	P 5016 RXS	92	4	0	3	-	-	-	-	12.0	45.6
Armor	53-D04	32	1	0	1	-	-	-	-	12.4	44.4
Asgrow	AG55X7	29	0	0	2	-	-	-	-	12.2	44.2
Progeny	P 5688 RX	31	1	0	2	-	-	-	-	12.7	44.0
Local Seed	LS5087X	42	3	0	1	-	-	-	-	11.3	43.6
NK	S52-Y7X	39	3	0	1	-	-	-	-	11.2	42.6
AGS	GS51X18S	40	2	1	0	-	-	-	-	11.8	38.7
Plot Average:										**12.2**	**46.1**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Noxubee County – Non-Irrigated Maturity Group IV LibertyLink											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Credenz	CZ 4918 LL	37	1	1	2	-	-	-	-	15.9	52.9
Terral	REV 49L88	38	4	1	3	-	-	-	-	17.4	45.9
Dyna-Gro	49LL34	32	2	0	3	-	-	-	-	18.1	40.7
Delta Grow	DG 4587LL	34	1	1	2	-	-	-	-	18.3	39.0
Delta Grow	DG 4977LL	39	4	3	0	-	-	-	-	15.0	36.2
Credenz	CZ 4548 LL	38	1	1	2	-	-	-	-	17.8	35.7
Plot Average:										**17.1**	**40.7**
Noxubee County – Non-Irrigated Maturity Group V LibertyLink											
GoSoy	5115LL	39	5	1	2	-	-	-	-	15.5	47.3
Credenz	CZ 5150 LL	38	4	1	2	-	-	-	-	17.9	45.6
Credenz	CZ 5147 LL	31	1	0	2	-	-	-	-	17.1	40.3
Plot Average:										**16.8**	**44.4**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Oktibbeha County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Armor	48-D24	43	2	1	0	-	-	-	-	21.1	56.7
Delta Grow	DG 48X45 D	40	2	1	0	-	-	-	-	21.9	56.6
Terral	REV 4927X	46	2	1	0	-	-	-	-	22.1	54.2
Progeny	P 4851 RX	44	3	1	0	-	-	-	-	22.0	54.0
NK	S43-V3X	39	1	1	0	-	-	-	-	20.2	50.5
Terral	REV 4857X	43	3	1	0	-	-	-	-	21.6	50.1
AgriGold	G4440RX	43	3	1	0	-	-	-	-	21.1	48.9
Dyna-Gro	S48XT56	43	2	1	0	-	-	-	-	21.1	48.6
Asgrow	AG45X8	42	3	1	0	-	-	-	-	20.8	48.5
Asgrow	AG46X6	43	3	1	0	-	-	-	-	20.6	48.1
Progeny	P 4816 RX	38	3	1	0	-	-	-	-	21.6	46.5
Armor	47-D17	45	4	1	0	-	-	-	-	21.4	45.8
NK	S45-K5X	39	4	1	0	-	-	-	-	20.3	44.9
Pioneer	P48A60X	43	4	1	0	-	-	-	-	20.8	42.5
AGS	GS48X18	42	3	1	0	-	-	-	-	23.2	39.2
Local Seed	LS4677X	44	3	1	0	-	-	-	-	20.7	37.9
Pioneer	P48A32X	47	5	1	0	-	-	-	-	21.7	36.1
Plot Average:										**21.3**	**47.6**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Oktibbeha County – Irrigated Maturity Group V Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Pioneer	P54A54X	31	2	1	0	-	-	-	-	19.8	54.7
Pioneer	P55A49	26	1	1	0	-	-	-	-	19.6	54.6
Progeny	P 5688 RX	33	1	1	0	-	-	-	-	20.0	51.4
Asgrow	AG55X7	33	1	1	0	-	-	-	-	19.7	49.5
Dyna-Gro	S56XT99	37	1	1	0	-	-	-	-	19.5	49.3
Asgrow	AG52X9	43	2	1	0	-	-	-	-	20.9	49.0
Armor	53-D04	33	1	1	0	-	-	-	-	20.3	48.8
AgriGold	G5000RX	46	4	1	0	-	-	-	-	20.5	47.1
NK	S56-B7X	31	1	1	0	-	-	-	-	20.7	47.0
Progeny	P 5016 RXS	42	4	1	0	-	-	-	-	20.7	44.7
Local Seed	LS5087X	43	4	1	0	-	-	-	-	20.4	44.3
NK	S52-Y7X	39	2	1	0	-	-	-	-	21.1	37.7
AGS	GS51X18S	41	4	1	0	-	-	-	-	18.9	36.6
Plot Average:										**20.2**	**47.3**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Pontotoc County – Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Armor	48-D24	28	1	-	7	6	-	7	6	13.0	58.1
Terral	REV 4927X	37	4	-	2	7	-	7	5	11.6	57.0
Progeny	P 4851 RX	35	5	-	3	7	-	6	5	12.0	56.8
Pioneer	P48A32X	39	7	-	4	7	-	7	5	12.2	56.7
Progeny	P 4816 RX	29	1	-	7	7	-	7	6	12.0	54.8
Armor	47-D17	34	3	-	5	6	-	6	5	12.6	54.5
Asgrow	AG46X6	32	2	-	5	6	-	7	5	12.6	54.5
Dyna-Gro	S48XT56	27	1	-	6	7	-	6	6	12.5	54.5
Asgrow	AG45X8	34	1	-	1	6	-	-	-	12.5	54.4
Delta Grow	DG 48X45 D	27	1	-	7	7	-	7	6	12.5	52.6
AgriGold	G4440RX	36	2	-	1	6	-	7	6	13.0	52.3
Terral	REV 4857X	30	1	-	1	7	-	6	5	11.7	49.1
NK	S43-V3X	35	1	-	1	6	-	7	6	13.1	48.3
Pioneer	P48A60X	31	2	-	1	6	-	6	5	12.0	47.0
NK	S45-K5X	29	1	-	1	6	-	8	6	12.7	46.6
Local Seed	LS4677X	32	3	-	2	7	-	7	7	12.4	42.9
AGS	GS48X18	30	2	-	1	7	-	7	5	12.7	42.7
Plot Average:										**12.4**	**51.9**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Rankin County – Non-Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Terral	REV 4927X	36	5	1	1	-	-	-	-	12.9	72.4
Asgrow	AG46X6	35	3	0	0	-	-	-	-	12.7	70.6
NK	S45-K5X	31	2	1	0	-	-	-	-	12.7	69.0
Progeny	P 4851 RX	39	6	1	0	-	-	-	-	12.4	66.9
Pioneer	P48A60X	33	2	2	0	-	-	-	-	12.6	66.4
Pioneer	P48A32X	37	5	1	2	-	-	-	-	13.1	65.5
Dyna-Gro	S48XT56	31	1	1	2	-	-	-	-	13.2	65.3
Terral	REV 4857X	40	3	1	0	-	-	-	-	13.1	65.3
Delta Grow	DG 48X45 D	33	2	1	1	-	-	-	-	12.8	63.1
Armor	48-D24	34	3	2	0	-	-	-	-	13.5	62.4
Progeny	P 4816 RX	30	2	0	0	-	-	-	-	13.0	62.4
Asgrow	AG45X8	32	3	2	1	-	-	-	-	12.6	62.2
NK	S43-V3X	33	2	2	1	-	-	-	-	13.5	61.1
Armor	47-D17	37	5	0	0	-	-	-	-	13.1	59.4
AGS	GS48X18	35	4	0	0	-	-	-	-	12.6	57.5
AgriGold	G4440RX	36	4	2	0	-	-	-	-	16.0	56.7
Local Seed	LS4677X	35	5	1	0	-	-	-	-	13.2	51.7
Plot Average:										**13.1**	**63.4**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Sharkey County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Delta Grow	DG 48X45 D	38	1	0	8	6	2	7	7	14.1	75.2
Pioneer	P48A60X	43	1	0	6	7	-	8	7	13.0	72.1
Armor	48-D24	38	1	0	6	6	1	8	8	14.0	71.6
Asgrow	AG46X6	39	1	0	1	6	-	7	7	14.5	71.4
Progeny	P 4816 RX	38	1	0	8	6	1	7	8	13.4	71.1
AGS	GS48X18	44	1	0	3	7	-	8	8	13.8	70.7
Armor	47-D17	45	2	0	3	6	-	8	7	13.3	69.8
Terral	REV 4927X	43	4	0	2	7	-	7	6	12.7	68.8
Dyna-Gro	S45XS66	43	2	0	3	7	1	7	6	13.7	68.7
Asgrow	AG45X8	42	1	0	2	7	-	8	9	13.8	68.5
AgriGold	G4440RX	38	2	0	4	7	-	7	6	14.0	67.0
Local Seed	LS4677X	44	1	0	4	7	-	8	7	13.5	66.4
Pioneer	P48A32X	43	3	0	7	7	-	8	6	12.9	66.3
Progeny	P 4851 RX	44	5	0	7	7	1	7	7	13.6	64.7
NK	S48-R2X	44	1	1	3	6	5	8	7	13.1	63.0
NK	S43-V3X	41	3	0	4	7	-	8	6	14.8	60.9
Terral	REV 4857X	43	2	0	4	7	-	8	6	13.6	60.9
Plot Average:										**13.6**	**68.1**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Sunflower County – Irrigated Maturity Group IV (Mixed/Light Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Armor	47-D17	37	4	1	2	6	-	8	7	13.6	72.6
Terral	REV 4857X	38	2	1	2	6	-	8	7	12.4	72.3
Asgrow	AG46X6	30	2	1	2	7	-	8	8	14.1	72.2
Dyna-Gro	S48XT56	33	1	1	1	6	-	8	7	13.5	72.2
Pioneer	P48A32X	38	4	1	1	7	-	8	7	12.7	72.0
Terral	REV 4927X	34	3	1	1	7	-	7	7	12.4	71.4
Armor	48-D24	30	2	1	1	-	-	-	-	12.8	71.0
Progeny	P 4816 RX	39	3	1	1	7	-	9	8	12.8	69.6
Delta Grow	DG 48X45 D	33	2	1	1	7	-	8	7	13.1	69.2
Asgrow	AG45X8	31	2	1	1	7	-	9	9	15.1	68.5
AGS	GS48X18	32	3	1	1	7	-	8	9	13.6	67.1
Pioneer	P48A60X	36	1	1	0	7	-	8	8	13.1	66.9
Local Seed	LS4677X	28	4	1	1	7	-	8	9	13.9	66.4
AgriGold	G4440RX	34	4	1	1	7	-	9	6	15.1	64.4
Progeny	P 4851 RX	38	5	1	1	7	-	8	7	12.5	63.8
NK	S45-K5X	28	3	1	2	7	-	8	9	14.0	63.2
NK	S43-V3X	34	3	1	1	7	-	8	7	15.5	61.6
Plot Average:										**13.5**	**68.5**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Sunflower County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	**Variety**	**Final Height**	**Lodging Score**	**Shattering Score**	**Green Stem Score**	**Disease Ratings**				**Seed Moisture**	**Yield[5]**
						CLB[1]	**FLS[2]**	**SBS[3]**	**TS[4]**		
		Inches	**0 to 10[6]**	**0 to 10[6]**	**0 to 10[6]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**0 to 9[7]**	**%**	**bu/acre**
Armor	48-D24	42	3	1	1	-	-	-	-	13.5	87.8
Asgrow	AG46X6	38	4	1	1	-	-	-	-	12.5	86.3
Dyna-Gro	S45XS66	42	4	1	1	-	-	-	-	12.9	85.9
Pioneer	P48A60X	38	2	1	1	-	-	-	-	12.4	84.6
Local Seed	LS4677X	36	4	1	0	-	-	-	-	13.2	84.5
AGS	GS48X18	41	4	1	0	-	-	-	-	13.6	83.2
Asgrow	AG45X8	37	3	1	0	-	-	-	-	13.7	83.0
AgriGold	G4440RX	37	4	1	0	-	-	-	-	12.6	82.4
Delta Grow	DG 48X45 D	36	2	1	0	-	-	-	-	13.0	82.4
Armor	47-D17	43	5	1	0	-	-	-	-	13.1	81.4
Pioneer	P48A32X	40	3	1	1	-	-	-	-	12.7	80.7
NK	S48-R2X	32	1	1	0	-	-	-	-	13.1	80.4
NK	S43-V3X	33	3	1	0	-	-	-	-	12.6	79.5
Progeny	P 4851 RX	39	5	1	2	-	-	-	-	12.2	78.3
Progeny	P 4816 RX	38	2	1	2	-	-	-	-	13.1	76.3
Terral	REV 4857X	35	3	1	0	-	-	-	-	12.3	75.1
Terral	REV 4927X	38	2	1	1	-	-	-	-	13.2	71.6
Plot Average:										**12.9**	**81.4**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Sunflower County – Irrigated Maturity Group IV (Clay Soil) Roundup Ready 2 Xtend											
Brand	Variety	Final Height	Lodging Score	Shattering Score	Green Stem Score	Disease Ratings				Seed Moisture	Yield[5]
						CLB[1]	FLS[2]	SBS[3]	TS[4]		
		Inches	0 to 10[6]	0 to 10[6]	0 to 10[6]	0 to 9[7]	0 to 9[7]	0 to 9[7]	0 to 9[7]	%	bu/acre
Pioneer	P48A60X	40	2	1	0	-	-	-	-	10.3	83.8
Pioneer	P48A32X	42	6	1	0	-	-	-	-	10.6	82.2
Terral	REV 4927X	41	4	4	0	-	-	-	-	10.3	82.0
AGS	GS48X18	40	4	1	0	-	-	-	-	10.8	81.0
Asgrow	AG46X6	35	5	0	0	-	-	-	-	10.8	79.7
Armor	47-D17	45	8	1	0	-	-	-	-	10.8	79.3
Local Seed	LS4677X	36	3	0	0	-	-	-	-	10.9	79.3
Dyna-Gro	S45XS66	31	4	2	0	-	-	-	-	10.9	78.2
NK	S48-R2X	42	1	0	0	-	-	-	-	10.5	77.3
Progeny	P 4851 RX	41	8	1	0	-	-	-	-	10.3	76.7
Armor	48-D24	34	3	2	0	-	-	-	-	11.0	76.5
Terral	REV 4857X	38	2	2	0	-	-	-	-	10.2	75.5
AgriGold	G4440RX	35	5	2	0	-	-	-	-	10.9	75.3
Asgrow	AG45X8	30	2	2	0	-	-	-	-	10.9	73.8
Delta Grow	DG 48X45 D	37	2	0	0	-	-	-	-	10.6	73.4
NK	S43-V3X	36	5	3	0	-	-	-	-	11.6	71.3
Progeny	P 4816 RX	37	2	0	0	-	-	-	-	10.3	70.3
Plot Average:										**10.7**	**77.4**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.

Brand	Variety	Final Height	Lodging Score	Shattering Score	Green Stem Score	Disease Ratings				Seed Moisture	Yield[5]
						CLB[1]	FLS[2]	SBS[3]	TS[4]		
		Inches	0 to 10[6]	0 to 10[6]	0 to 10[6]	0 to 9[7]	0 to 9[7]	0 to 9[7]	0 to 9[7]	%	bu/acre
Washington County – Irrigated Maturity Group IV LibertyLink											
Credenz	CZ 4918 LL	45	3	1	0	7	-	8	8	13.7	64.1
Terral	REV 49L88	45	2	1	1	6	-	7	7	13.1	63.1
Delta Grow	DG 4587LL	45	4	1	0	6	-	7	7	14.1	60.7
Credenz	CZ 4548 LL	43	2	1	0	6	-	-	-	13.8	59.6
Dyna-Gro	49LL34	48	5	1	0	6	-	8	7	13.4	59.5
Delta Grow	DG 4977LL	46	5	1	0	6	-	8	8	13.6	52.4
Plot Average:										**13.6**	**59.9**
Washington County – Irrigated Maturity Group V LibertyLink											
Credenz	CZ 5147 LL	43	2	1	0	6	-	8	7	12.9	61.9
Credenz	CZ 5150 LL	47	4	1	0	6	-	8	8	12.5	59.8
GoSoy	5115LL	44	4	1	0	6	-	8	8	12.9	58.1
Plot Average:										**12.8**	**59.9**

[1]- Cercospora leaf blight severity ratings based on progression of disease from leaf tissue (0-5), to petioles (6), and to pods and main stems (7-9).
[2]- Frogeye leaf spot severity ratings.
[3]- Septoria brown spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[4]- Target spot severity ratings based on progression of disease from the lower canopy (0-3), to mid-canopy (4-6), to upper-canopy (7-9).
[5]- Soybean yield adjusted to standard moisture content of 13.0%.
[6]- Scores rated on scale of 0-10 with 0 being excellent and 10 being poor at harvest.
[7]- Scores rated on scale of 0-9 with 0 being excellent and 9 being most severe.