

# 2019 Grow for the Green Soybean Yield Challenge



## Harvest Results and Production Information





## **Soybean Yield Contests in Arkansas**

In 1999, the Arkansas Soybean Association established a yield contest with prizes being awarded to the top two or three producers in the State. Prizes were provided by equipment dealers and various seed companies.

The Race for 100 Soybean Yield Contest was established in 2007 by the Arkansas Soybean Promotion Board with administration by the Arkansas Soybean Association as a challenge to producers in addition to the Arkansas Soybean Association's yield contest. With the support of the Arkansas Soybean Promotion Board, the Association's contest transitioned to the Grow for the Green Soybean Yield Challenge in 2011. The contests were established as a way to share producer methods of achieving high yields in Arkansas. In 2013, the 100 Bushel barrier was broken by Matt Miles, Nelson Crow and Eddie Tackett. They became the original members of the Arkansas 100 Bushel Club. The 100-bushel barrier was broken again in 2014 when David Bennett recorded a State record grain yield of 112 bu/ac, and Sherrie Miles also attained membership into the Arkansas 100 Bushel Club with a recorded yield of 106.5 bu/ac and Matt Miles again broke the 100-bushel mark with a 100.6 bu/ac yield. In 2015 we added two new inductees into the Arkansas 100 Bushel Club: Perry Galloway attained a soybean grain yield of 109 bu/ac and Charles Galloway obtained grain yields of 101 bu/ac, and Matt Miles for the third year in row broke the 100 bu/ac soybean yield record with grain yields of 109 bu/ac. In 2016, six producers were added to the Arkansas 100 Bushel Club: Eddie Wray, James Wray, Jr., and Barbara Annette Wray achieved yields of 118.8 bu/ac, 109.7 bu/ac, and 108.8 bu/ac, respectively. Michael Taylor, Jr. attained a yield of 101.3 bu/ac, Martin Henry had a yield of 113.9 bu/ac, and Layne Miles produced a yield of 109.8 bu/ac. During 2017, nine individuals broke the 100 bu/ac yield target with four new inductees into the Arkansas 100 Bushel Club: Billy Wayne Tripp (100.5 bu/ac); John Newkirk (104.0 bu/ac); Mary Galloway (107.6 bu/ac); and Jason Berry (102.9 bu/ac). The 2018 overall state winner was William Palsa with a yield of 107.394 bu/ac.

In 2019, 7 producers achieved the 100-bushel mark. Matt Miles broke the record with 120.533 bu/ac with Pioneer P48A60X. Layne Miles & Sherrie Miles were repeat members of the 100-bushel club with 117.251 bu/ac and 101.007 bu/ac planting Pioneer P48A60X. New winners for 2019 were Brandon Cain with NK4S5-J3X and a yield of 100.200 bu/ac, Drew Counce with Pioneer P46A16R and a yield of 103.883 bu/ac, Mark Welty with Pioneer P48A60X and yield of 103.702 bu/ac and the Estate of Billy Garner with Pioneer P45A60X and a yield of 116.636 bu/ac. This brings us to 22 members of the 100-bushel club with special mention to Matt Miles for the 120 by 2020 win.

The current contest, the 2019 Grow for the Green Soybean Yield Challenge, was again funded by the Arkansas Soybean Promotion Board and administered by the Arkansas Soybean Association. In many instances the county extension faculty of the University of Arkansas System Division of Agriculture as well as private consultants and other interested parties worked closely with the producers to achieve the yields depicted in this booklet and their assistance in yield verification is much appreciated.

Complete production information on all harvested entries will be made available on the websites of the Arkansas Soybean Promotion Board and the Arkansas Soybean Association.

## 2019 Race for 100 & Grow for the Green Yield Contest Facts:

70 entries

32 harvest reports submitted

The Race for 100 was first funded in 2007 and took seven years to achieve. Three Arkansas growers made the mark in 2013. As of 2019, 22 producers have reached 100+ at least once.

2013

Nelson Crow	Pioneer 93Y92	100.767	1
Matt Miles	Asgrow 4632	107.634	2
Eddie Tackett	Pioneer 94Y70	104.832	3

2014

David Bennett	Asgrow 4632	112.012	4
Sherrie Miles	Pioneer 48T53	106.499	5
Matt Miles	Pioneer 45T11	100.609	

2015

Matt Miles	Pioneer	108.717	
Perry Galloway	Pioneer P46T21R	108.759	6
Charles Galloway	Asgrow 4232 RR	100.935	7

2016

Michael Taylor Jr	Asgrow AG47X6	101.319	8
James Wray	Pioneer P47T36R	118.802	9
Eddie Wray	Pioneer P47T36R	109.701	10
Barbara Annette Wray	Pioneer P46T21R	109.843	11
Martin Henry	Armor 48-D24	113.888	12
Layne Miles	NK S47-K5	100.994	13

2017

Matt Miles	Pioneer P47T36R	105.02	
Layne Miles	Pioneer P47T36R	108.052	
James Elton Wray	Asgrow AG46X6	105.918	
James E Wray Jr	Asgrow AG46X6	103.83	
Billy Wayne Tripp	Asgrow AG46X6	100.511	14
John Newkirk	Asgrow AG46X6	103.974	15
Perry Galloway	Hefty H48X7	108.904	
Mary Galloway	Hefty H49X7S	107.568	16
Jason Berry	Pioneer P46A16R	102.894	17

2018

William Palsa	Local Seed LS4565	107.394	18
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2019

<b>Matt Miles</b>	<b>Pioneer P48A60X</b>	<b>120.533</b>	
Estate of Billy Garner	Pioneer P45A60X	116.636	19
Drew Counce	Pioneer P46A16R	103.883	20
Sherrie Miles	Pioneer P48A60X	101.007	
Layne Miles	Pioneer 4P8A60X	117.251	
Mark Welty	Pioneer P48A60X	103.702	21
Brandon Cain	NK 4S5-J3X	100.200	22

Field requirements:

5-7 acres with right angles.

Field must have been in soybeans at least once during previous three years.

Prizes awarded 2019

\$130000 available in the Grow for the Green Soybean Yield Contest.

Additional \$5000 available to 100 bu/a winners (new club members only).

\$10,000 available for any producers achieving 120 bu/ac.

## **An Overview of Production Practices used by Producers Obtaining Top Soybean Yields in the 2019 Arkansas Grow for the Green Yield Contest.**

Dr. Jeremy Ross

### **Introduction**

Again in 2019, we are pleased to announce that the Arkansas Grow for the Green Soybean Yield Challenge (GFTG) contest continues to be funded by soybean checkoff funds from an approved proposal by the Arkansas Soybean Promotion Board (ASPB). This proposal continues to be submitted and administered by the Arkansas Soybean Association (ARSA). The GFTG provides considerable data on the practices employed by the top row crop producers in the State. These soybean producers consistently obtain exceptional and documented grain yields that greatly exceed the state average. The GFTG contest is managed in cooperation with the University of Arkansas System Division of Agriculture, Cooperative Extension Service faculty and other approved crop advisors. In a competitive contest, such as the GFTG, all of the management practices employed by the contestants are not necessarily supported by research; nor are all of the practices employed by contestants consistent with current Cooperative Extension Service recommendations.

The 2019 GFTG program consisted of 70 registered producers, with 32 of the entries qualifying for prize consideration by obtaining yields of 60 bu/ac or better from their GFTG entry fields. In addition, 12 of the 32 producers (38%) recorded verified soybean grain yields of 90 bu/ac or higher. Since 2014, the GFTG has seen multiple contestants per year reach the 100 bu/ac goal, and seven producers reached this mark in 2019. For the fifth time, Matt Miles produced a soybean yield greater than 100 bu/ac. His 2019 yield of 120.533 bu/ac set a new state record. Four new producers were added to the Arkansas Soybean 100 Bushel Club, they were the Estate of Billy Garner (116.636 bu/ac), Drew Counce (103.883 bu/ac), Mark Welty (103.702 bu/ac), and Brandon Cain (100.200 bu/ac). These four new members brought the number of producers in the Arkansas Soybean 100 Bushel Club to twenty-two.

In the following pages of the booklet are some of the important management practices that these top soybean producers employed to obtain soybean grain yields that equal or exceed 60 bu/ac, and often exceeding 90 or even 100 bu/ac. In general, (but not always), these same management practices are supported by the basic and applied research conducted by the University of Arkansas System Division of Agriculture's research scientists and extension specialists.

### **Soils, Tillage, Crop Rotation and Planting Date**

Most top soybean growers obtain their absolute highest yields from fields that have good drainage, preferably both external (surface) and internal. Fields with silt loam or fine sandy loam alluvial soils often meet these drainage criteria and enable producers to consistently obtain outstanding corn and/or cotton yields. Regardless of soil texture, most of the top growers (especially on clay soils) employ the practice of bedding and they prefer to do this in the fall. Planting the soybean crop on beds helps both with surface drainage and enables them to effectively irrigate smaller size soybean plants if needed. Since the majority of the GFTG contestants strive to plant in early- to mid-April, the majority of (if not all) pre-plant tillage operations are done in the fall of the previous year. This enables producers to plant as soon as fields and environmental conditions enable them to get into the fields. These top soybean producers recognize the value of crop rotation and try to avoid planting soybean behind soybean (especially on silt or sandy loam soils). A majority of the GSTG contest fields are planted to soybean following rice, corn, or cotton. With the adverse weather conditions during the beginning of the planting window, many of the 2019 GFTG fields were planted relatively

later when compared to previous years. The average planting date for 2019 was May 4, with the range of planting dates from April 3 to June 18.

### **Application of Fertilizer Material**

When reviewing the fertilizer practices among the GFTG producers, it is difficult to draw strong conclusions except that the vast majority of producers participating in the contest do apply some commercial fertilizer and/or poultry litter (especially if soil test analysis recommends such additions). The top production soybean growers ensure that there are adequate plant nutrients available for their crop, as adequate soil fertility is one factor that can be controlled. There is some concern that additional in-season fertilizer additions (especially nitrogen) may also be needed to maximize yields, and we observed more in-season (often but not always foliar) applications of fertilizer, micronutrients, and products that are marketed to enhance the transport of sugars in the soybean plant. Much of the recent and current research does not necessarily support many of these foliar in-season applications but in an attempt to obtain the highest grain yields possible, extra inputs are often utilized by the GFTG participants.

### **Varieties, Seeding Rates and Row Widths**

Top producers give considerable thought to the varieties they plant in their GFTG fields. They make this decision based on varietal performance from several variety testing trials and recommendations by trusted seed company advisors. From a seed company perspective, there is a certain degree of recognition and a possible market advantage associated with varieties planted by these top producing soybean growers. Regardless of the variety chosen, nearly all possess one common characteristic: the most popular varieties have an indeterminate growth habit and the vast majority are classified as a maturity group IV (MG IV) variety. When the GFTG Contest was initiated, many of the top producers started out utilizing seeding rates that were in excess of 180,000 seed/ac, but most have reduced their seeding rates to 130,000 to 165,000 seed/ac. Depending on planting method, the range in seeding rates by GFTG producers in 2014 varied from 82,000 to 200,000 seed/ac, while in 2016, 2017, and 2018 the range in seeding rates by the GFTG participants was from 120,000 to 180,000 with an approximate average of 150,000 seed/ac. During 2019, this trend in seeding rate continued with the seeding rate for the 32 entries ranging from 105,000 to 170,000 seed/ac with the average seeding rate of 144,500 seed/ac. Most top soybean producers treat their seed with an approved fungicide and/or neonicotinoid insecticide.

Research findings tend to support row widths less than 30 inches wide, and most current GFTG producers place emphasis on reducing the effective row width to 30 inches or less by drilling or planting twin rows on a 38-60 inch bed. A major consideration for these producers is to bed the field to facilitate an early planting while production enough plant growth to obtain full canopy closure between the rows by the R2 growth stage. This aids in both weed management and efficient light absorption by the crop. Another consideration that impacts row width decisions is "soil texture". Although most growers prefer a 30-inch or less row-spacing, 100+ bu/ac soybean yields have been obtained from fields bedded on 38-inch centers. These fields are typically planted with two or more rows on the bed, resulting in 30-inch or less row spacing.

### **Pest Management**

There is debate whether the addition of a pesticide actually increases yield, but most GFTG producers feel that it does protect "yield potential". There is broad agreement that the addition of an appropriate "seed treatment" especially products that include an approved neonicotinoid insecticide (ex. CruiserMaxx, Poncho, etc.) does consistently increase soybean yield. Most GFTG producers apply pesticides to minimize the negative impact of weeds, insects, and diseases. GFTG producers are well aware that weeds and insects must be kept below the

economic threshold. In fact, many strive to eliminate all weed pressure (especially where weed resistance issues have developed) because weeds can and do significantly reduce yields if not controlled.

Due to increasing weed resistance issues in the state, essentially all GFTG producers applied a burndown (preplant) herbicide application (many of these contained labeled rates of products that contain dicamba prior to planting and seedling emergence). Additionally, all contestants applied pre and post-emergence herbicide applications. We did observe that there was some increase in the usage of products that contain metribuzin in 2015 to 2019. In 2019, 17 (53%) of the contest fields received an insecticide application. Many of these insecticide applications were done to control stinkbugs and corn earworms.

Since many diseases are initially difficult to recognize (and even harder to determine if the disease incidence will progress to the extent that will affect final grain yield), many GFTG producers followed the practice of applying fungicides (and sometimes including an insecticide) as insurance for those “just in case” situations. As a note, in 2014, when the previous state record yield of 112 bu/ac was obtained from a field in District 6 (SE Arkansas) the GFTG producer did not apply a fungicide; however, this field did receive an insecticide application to reduce stinkbugs. Over 75% of the 2019 GFTG fields received a least one fungicide application.

### **Water Management**

Essentially all GFTG producers have the ability to irrigate their soybean crop if there is a need to do so. Many of these GFTG producers, or their crop advisors, use some type of irrigation scheduling program to monitor soil moisture conditions during the cropping season and since these are yield contest fields, they often received additional irrigation in an attempt to make sure that soil moisture was adequate at all times. The 2014 cropping season was cooler and wetter than the norm across the state, and the 2015 and 2016 season started out similarly, but then turned to the more typical hot and dry conditions in late summer especially in the central and south eastern side of the State. Considerable dry periods existed in much of northeast and western Arkansas in 2016. During 2017, exceptional weather was experienced during the growing season, with above average rainfall and cooler than normal temperatures. Again, since contest fields often (but not always) receive extra attention, some surface irrigated fields (furrow) received 6 to 8 irrigation events. In 2015, there was one April 10 planted field in East Central Arkansas that was non-irrigated, yet produced grain yields of 89 bu/ac and in 2016 there was one non-irrigated field that produced yields of 67.4 bu/ac. Some of the fields that were irrigated received from 11 to 13 irrigation events. Again in 2017, although much of the state received adequate to excessive rainfall early in the season, the GFTG fields averaged 4.9 irrigations ranging from no irrigation events to 10. During 2018, GFTG fields averaged 5.7 irrigations events during the growing season. Three non-irrigated fields recorded yields greater than 72 bu/ac during 2018. For 2019, all but one of the GFTG fields were irrigated. As in the past, the vast majority of the GFTG fields were furrow irrigated, but there were also some three center pivot irrigated fields in the 2019 program.

### **Harvest Aids**

For the last few years, there were a few GFTG producers that applied a desiccant to facilitate the harvest operation. Thirteen producers (41%) in the 2019 GFTG contest decided to use harvest aids. In all cases, these growers did this to reduce moisture in the grain, dry down the main stem, and to facilitate leaf drop, with the goal of trying to increase combine efficiency at harvest and to enable themselves to harvest the field in a timely manner.



## **Summary**

For many GFTG producers, the 2019 cropping season started out slower than normal due to the cool and wet conditions early in the season. During July, August, and September the lack of appreciable rainfall and warmer than normal temperatures reduced disease pressure and caused an increase in the number of irrigations events compared to 2018. Even despite the slow start to the year, many producers obtained exceptional yields. The Arkansas GFTG Challenge encompasses seven geographical areas with differing soil textures and environmental conditions. This book contains the names of all of the contestants by district. Again, some of the more common (but not altogether exclusive) production practices used by nearly all GFTG participants included April plantings, indeterminate MG IV varieties, fungicide applications, and timely irrigation events. GFTG producers work hard to insure adequate drainage and irrigation capabilities. Commercial fertilizers and/or chicken litter were also common additions as well as outstanding pest control measures. Although the addition of corn into the rotation is credited by producers as a real plus in their quest to increase soybean yields, outstanding yields were obtained behind cotton, rice, and soybean. What the results do not reflect is the timeliness of management practices. Experience suggests that timely management practices are being applied to these soybean fields by the GFTG producers before the crop is subjected to significant yield decreasing stresses.

## **Acknowledgement**

The Arkansas Grow for the Green Yield Challenge is funded with Arkansas soybean grower checkoff funds allocated by the Arkansas Soybean Promotion Board to be administered by the Arkansas Soybean Association. This entire program is indebted to the outstanding cooperation from faculty and staff of the University of Arkansas System Division of Agriculture, Cooperative Extension Service with additional assistance from Certified Crop Advisors, Agriculture Consultants, and others.

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## 1-Northeast Delta

Producer	County	Variety	Herb. Tech.	Yield (bu/ac)
Casey Hook	Craighead	Pioneer P42A96X	RR2X	90.018
Mike Hook	Craighead	Pioneer P42A96X	RR2X	88.867

### **Producer:** Casey Hook – Casey Hook Farms LLC

Variety/Technology: Pioneer P42A96X (RR2X)  
4/23/19 4/12/18  
Previous Crops: Soybeans/cotton/soybeans  
Soil Type: Roellen Silty Clay Loam  
Fertilizer: Grid sampled, variable rate  
Planter/Row Width: 38" Twin Row, Great Plains Twin Row  
Seeding Rate/Depth: 105,000, 1"  
Seed Treatment: Reivse PBT, Vitalis, Aveo  
Pest Control

#### Weed Management:

Preplant – Roundup, Dicamba  
Preemerge – Roundup, Prefix  
Post-emergent – Roundup, Zidua

#### Insect Management:

Bifenthrin

#### Disease Management:

Priaxor (twice)

#### Other Foliar Apps:

Bio-Forge, X-Cyte, Carbose

#### Water Management:

Furrow, 8 waterings

#### Harvest Aids:

Gramoxone

#### Harvest Date:

10/4/19

### **Producer:**

### **Mike Hook – MKH Farms**

Variety/Technology: Pioneer P42A96X (RR2X)  
Planting Date: 4/19/19  
Previous Crops: Cotton/soybeans/soybeans  
Soil Type: Foley Silt loam  
Fertilizer: Grid sampled, variable rate  
Planter/Row Width: Great Plains, 38" Twin Row  
Seeding Rate/Depth: 116,000, 1 inch  
Seed Treatment: Reivse PBT, Vitalis, Aveo  
Pest Control

#### Weed Management:

Preplant – Dicamba, Roundup  
Preemerge – Roundup, Prefix  
Post-emergent – Roundup (twice), Zidua

#### Insect Management:

Bifenthrin (twice)

#### Disease Management:

Priaxor

#### Other Foliar Apps:

Bio-Forge, X-Cyte, Vitaterra

#### Water Management:

Furrow, 7 waterings

#### Harvest Aids:

Gramoxone

#### Harvest Date:

10/4/19

## 2-Northeast

Producer	County	Variety	Herb. Tech	Yield (bu/a)
Nick Ragsdell	Greene	Asgrow 46X6	Extend	92.574
Curt Alphin	Randolph	Credenz 4222	LL	85.803
Stuart Reithemeyer	Lawrence	Dynagro 48XT56	RR,Dicamba	85.297
Trey Scott	Poinsett	Pioneer P47A76	LL	83.690
Eric Hearnese	Lawrence	Asgrow 46X6	Extend	81.454
Keith Houchin	Poinsett	Armor 47D17	Dicamba	75.276

**Producer:** Nick Ragsdell – Ragsdell Farming Co, LLC  
 Variety/Technology: Asgrow AG46X6 (RR2X)  
 Planting Date: 4/13/19  
 Previous Crops: Rice/soybeans/rice  
 Soil Type: Askew Silt loam  
 Fertilizer:  
 Planter/Row Width: 7300 John Deere Max Emerge 2/30”  
 Seeding Rate/Depth: 140000, 1 inch  
 Seed Treatment: Magnum, First up (inoculant)  
 Pest Control  
 Weed Management: Pre-plant – Predisual (2 pints) – generic Boundary  
 Pre-emergent – Presidual (2 pints)  
 Post-Emerge – Roundup (32 oz) followed by Roundup (32 oz) & Zidua (1.5 oz)  
 Insect Management:  
 Disease Management:  
 Other Foliar Apps:  
 Water Management: 3 irrigations  
 Harvest Aids: Gramoxone (1 pint)  
 Harvest Date: 10/10/19

**Producer:** Curt Alphin  
 Variety/Technology: Credenz 4222 (LL)  
 Planting Date: 4/10/19  
 Previous Crops: Soybean/soybean/corn  
 Soil Type: Silt loam  
 Fertilizer: 100 lb Potash, 100 lb mesz  
 Planter/Row Width: Case 1290, 30”  
 Seeding Rate/Depth: 150000  
 Seed Treatment: Equity Vip, Dynastart PBC  
 Pest Control  
 Weed Management: Preplant –  
 Preemerge – Intimidator ( 3 pints) right behind planter  
 Post-emergent – Liberty (32 oz) – twice  
 Insect Management: Acephate  
 Disease Management: Priaxor  
 Other Foliar Apps:  
 Water Management: Row water every 7 days  
 Harvest Aids: Gramoxone  
 Harvest Date: 9/18/19

**Producer:** **Stuart Reithemeyer-J & P Reithemeyer Land Inc**  
Variety/Technology: Dynagro S48XT56 (RR2X)  
Planting Date: 4/28/19  
Previous Crops: Corn/soybeans/rice  
Soil Type: Silt loam  
Fertilizer: 125# Aspire on 4/26/19, 1 gal Monarch, 2 oz Radiate on 4/28/19, 100# potash at R1  
Planter/Row Width: JD Row Planter 1725, 12 Row, 30"  
Seeding Rate/Depth: 140000, 1 inch  
Seed Treatment: Equity Vip, Awaken St  
Pest Control  
Weed Management: Preplant –  
Preemerge – Roundup (40 oz), Intimidator (48 oz) 4/30/19  
Post-emergent – Roundup (40 oz), Anthem Max (3.2 Oz), Radiate (2 oz), 5/15/19 and Roundup (40 oz) on 5/24/19  
Insect Management:  
Disease Management: Quadris Top SBX (8oz)  
Other Foliar Apps:  
Water Management: Polypipe – 8 times (6/10,6/17, 7/8,7/15,7/29,8/5,8/12,8/26)  
Harvest Aids:  
Harvest Date: 10/19/19

**Producer:** **Trey Scott – Scott Brothers**  
Variety/Technology: Pioneer P47A76 (LL)  
Planting Date: 4/20/19  
Previous Crops: Rice/soybeans/rice  
Soil Type: Clay loam  
Fertilizer: 150# Aspire  
Planter/Row Width: Monosem Twin, 36"  
Seeding Rate/Depth: 145000, 1.5-2 inch  
Seed Treatment: Pioneer PPST  
Pest Control  
Weed Management: Preplant –  
Preemerge – Boundary (1.5 pt)  
Post-emergent – Prefix (32 oz), Liberty (29 oz) on 6/10  
Metolachlor (16 oz), Liberty (29 oz), Basagran (16 oz) on 6/21  
Insect Management:  
Disease Management: Miravis Top (13.7 oz)  
Other Foliar Apps:  
Water Management: Row water on 6/12,7/2,8/1  
Harvest Aids:  
Harvest Date: 10/2/19

**Producer:** **Stuart Reithemeyer-J & P Reithemeyer Land Inc**  
Variety/Technology: Dynagro S48XT56 (RR2X)  
Planting Date: 4/28/19  
Previous Crops: Corn/soybeans/rice  
Soil Type: Silt loam

Fertilizer: 125# Aspire on 4/26/19, 1 gal Monarch, 2 oz Radiate on 4/28/19, 100# Potash at R1  
 Planter/Row Width: JD Row Planter 1725, 12 Row, 30"  
 Seeding Rate/Depth: 140000, 1 inch  
 Seed Treatment: Equity Vip, Awaken St  
 Pest Control  
 Weed Management: Preplant –  
 Preemerge – Roundup (40 oz), Intimidator (48 oz) 4/30/19  
 Post-emergent – Roundup (40 oz), Anthem Max (3.2 Oz), Radiate (2 oz), 5/15/19 and Roundup (40 oz) on 5/24/19  
 Insect Management:  
 Disease Management: Quadris Top SBX (8oz)  
 Other Foliar Apps:  
 Water Management: Polypipe – 8 times (6/10,6/17, 7/8,7/15,7/29,8/5,8/12,8/26)  
 Harvest Aids:  
 Harvest Date: 10/19/19

### 3-White River Basin

Producer	County	Variety		Yield bu/a
Brandon Cain	White	NK S45-J3X	RR2X	100.200
Jerry Fuller	Monroe	Pioneer P47A76	LL	82.213
Terry Fuller	Monroe	Pioneer P49T62E	E3	74.446
Blake Culp	Monroe	Asgrow AG48X9	RR2X	73.100
Kyle Fuller	Monroe	Pioneer P47T36	R	71.124

**Producer:** Brandon Cain – Cain Farms  
 Variety/Technology: NK S45-J3X (RR2X)  
 Planting Date: 4/3/19  
 Previous Crops: Corn/soybeans/corn  
 Soil Type: Silt Loam  
 Fertilizer: 0-0-120  
 Planter/Row Width: JD 1720 – 16 row, 30"  
 Seeding Rate/Depth: 170000, 1.5 inch  
 Seed Treatment: Cruiser Max Vibrance  
 Pest Control  
 Weed Management: Preplant – Glyphosate (32 oz) (8 oz) & Dicamba  
 Preemerge –  
 Post-emergent – Glyphosate (32 oz), Zidua (2.5 oz), Engenia (12.3 oz)  
 Insect Management:  
 Disease Management: Priaxor (4 oz) at R5  
 Other Foliar Apps:  
 Water Management: Furrow, 3 times, 2000 ga./min  
 Harvest Aids: Gramoxone (18 oz)  
 Harvest Date: 9/7/19

**Producer:** Jerry Fuller – Jerry Fuller Farms  
 Variety/Technology: Pioneer P47A76L (LL)  
 Planting Date: 5/17/19  
 Previous Crops: Soybeans/corn/soybeans  
 Soil Type: Foley silt loam

Fertilizer: 120 lb K in fall  
Planter/Row Width: JD, 7.5"  
Seeding Rate/Depth: 145000, 1 inch  
Seed Treatment: Cruiser Max  
Pest Control  
Weed Management: Preplant – Gramoxone  
Preemergence – Dual/Sencor  
Post-emergent – Liberty, Dual  
Insect Management: Beseige, Acephate  
Disease Management: Approach Prima  
Other Foliar Apps:  
Water Management: Furrow 3 times  
Harvest Aids:  
Harvest Date: 9/21/19

**Producer: Terry Fuller – Terry Fuller Farms**

Variety/Technology: Pioneer P49T62E (E3)  
Planting Date: 5/25/19  
Previous Crops: Corn/soybeans/soybeans  
Soil Type: Memphis silt loam  
Fertilizer: 120 lb K  
Planter/Row Width: 7.5" on 30" beds  
Seeding Rate/Depth: 140000, 1 inch  
Seed Treatment: Cruiser Max  
Pest Control  
Weed Management: Preplant – Gramoxone  
Preemergence – Dual/Sencor  
Post-emergent – 2,4-D, Roundup, Dual  
Insect Management: Beseige, Acephate  
Disease Management: Miravis Top  
Other Foliar Apps:  
Water Management: Furrow 2 times  
Harvest Aids:  
Harvest Date: 10/4/19

**Producer: Blake Culp – B & L Farms**

Variety/Technology: Asgrow AG48X9 (RR2X)  
Planting Date: 5/18/19  
Previous Crops: Soybeans/corn/soybeans  
Soil Type: Memphis silt loam  
Fertilizer:  
Planter/Row Width: 30" single row  
Seeding Rate/Depth: 140000, 1 inch  
Seed Treatment: Cruiser Max  
Pest Control  
Weed Management: Preplant –  
Preemergence – Roundup, Dual, Sencor  
Post-emergent – Roundup, Dicamba  
Insect Management: Beseige, Acephate  
Disease Management: Approach Prima  
Other Foliar Apps:  
Water Management: Furrow 2 times, 3 inch each  
Harvest Aids:  
Harvest Date: 10/3/19

**Producer:** Kyle Fuller – Ray Fuller Farms  
 Variety/Technology: Pioneer P47T36 (R)  
 Planting Date: 5/26/19  
 Previous Crops: Corn/soybeans/corn  
 Soil Type: Foley Silt Loam  
 Fertilizer:  
 Planter/Row Width: 7.5" on 30" row  
 Seeding Rate/Depth: 150000, 1 inch  
 Seed Treatment: Cruiser Max  
 Pest Control  
 Weed Management: Preplant – Gramoxone  
 Preemergence – Dual, Sencor  
 Post-emergent – Dual, 2,4 D  
 Insect Management: Beseige, Acephate  
 Disease Management: Approach Prima  
 Other Foliar Apps:  
 Water Management: Pivot 3 applications  
 Harvest Aids:  
 Harvest Date: 9/30/19

**4-Central & Grand Prairie**

Producer	County	Variety	Herb. Tech.	Yield (bu/ac)
Drew Counce	Arkansas	Pioneer P46A16R	R	103.296
Taylor Burdett	Arkansas	Pioneer P46A16R	R	99.584
David Peter	Prairie	Pioneer P48A60X	RR2X	92.261
Jason Berry	Arkansas	Pioneer P44A72BX	Bolt RR2X	87.955
David Strohl	Prairie	Pioneer P44A08L	LL	86.332

**Producer:** Drew Counce-Drew Counce Farms  
 Variety/Technology: Pioneer P46A16R (R)  
 Planting Date: 4/25/19  
 Previous Crops: Rice/soybeans/soybeans  
 Soil Type: Silt loam  
 Fertilizer: 400# 0-14-41 on 4/25/19  
 Planter/Row Width: JD 1730 16 row, 30"  
 Seeding Rate/Depth: 140000, 2.5 inch  
 Seed Treatment: Pioneer Premium Seed Treatment  
 Pest Control  
 Weed Management: Preplant – Boundary (1.5 pt)  
 Preemergence –  
 Post-emergent – Prefix, Roundup (1 qt)  
 Insect Management: Lamb-Cy (3.6 oz/ac)  
 Disease Management: Miravis Top (8 oz) at R3 & R5  
 Other Foliar Apps:  
 Water Management: Well water/furrow 5 times (6/5,6/17,7/1,7/14,7/26)  
 Harvest Aids:  
 Harvest Date: 9/25/19

**Producer:** Taylor Burdett – Burdett Farming Partnership  
 Variety/Technology: Pioneer P46A16R (R)  
 Planting Date: 4/22/19

Previous Crops: Soybeans/rice/soybeans  
Soil Type: Silt loam  
Fertilizer: Variable rate  
Planter/Row Width: JD 1700, 8 row, 30"  
Seeding Rate/Depth: 123440, 1-1.25 inch  
Seed Treatment: Revise Seed Treatment  
Pest Control  
  
Weed Management: Preplant – Envy Intense (32 oz), Sharpen (1 oz), AMS (.25%), Invade HC (8 oz) – 3/21/19  
Preemergence – Zidua (1.5 oz) – 4/23/19  
Post-emergent – Envy Intense (32 oz), Vice (32 oz) – 6/13/19  
  
Insect Management:  
Disease Management: Priasox D (8 oz), Deliver K Plus (1 gal) – 7/3/19  
Other Foliar Apps:  
Water Management: Above ground water supply. Irrigated every 10 days beginning 6/19 and ending 8/22. 5 times  
Harvest Aids:  
Harvest Date: 9/18/19

**Producer: David Petter – Petter Farms Inc**  
Variety/Technology: Pioneer P48A60X (RR2X)  
Planting Date: 4/29/19  
Previous Crops: Soybeans, rice, soybeans  
Soil Type: Stuttgart silt loam  
Fertilizer: 27-90-148-22.5-0.5 on 4/29  
Planter/Row Width: JD 16 row, 30"  
Seeding Rate/Depth: 145000,  
Seed Treatment: Equity Vip (3 oz/cwt)  
Pest Control  
  
Weed Management: Preplant –  
Preemergence – Outlook (12.8 oz), Metribuzom 75 DF (5 oz)  
Post-emergent – Makaze Yield Pro (40 oz), Resource (4 oz), Medal EC (16 oz)  
  
Insect Management:  
Disease Management: Priaxor (4 oz) and Fitness (6 oz) at R3-6/27  
Other Foliar Apps:  
Water Management: Four times – 6/17, 7/8, 8/5, 8/20  
Harvest Aids: Gramoxone (16 oz) & Defol 5(32 oz)  
Harvest Date: 10/2/19

**Producer: Jason Berry – Jason Berry Inc**  
Variety/Technology: Pioneer P44A72BX (BoltRR2X)  
Planting Date: 4/29/19  
Previous Crops: Corn/soybeans/soybeans  
Soil Type: Silt loam  
Fertilizer: 300# 0-18-36 on 4/27  
Planter/Row Width: Great Plains Twin Row, 38"  
Seeding Rate/Depth: 140000  
Seed Treatment: Pioneer Premium Seed Treatment



## Pest Control

Weed Management: Preplant –  
Preemerge – Dual, Sencor  
Post-emergent – Roundup, Dual

Insect Management:  
Disease Management: Priaxor – twice

Other Foliar Apps: Crop Karb (1 qt), Perc Plus (8 oz)

Water Management: Furrow – 4 times

Harvest Aids:

Harvest Date: 10/2/19

## Producer:

**David Strohl – D & C farms**

Variety/Technology: Pioneer P44A08L (LL)

Planting Date: 5/16/19

Previous Crops: Rice/soybeans/soybeans

Soil Type: Dewitt Silt loam

Fertilizer: 18-60-120-15 (S) on 5/13/19

Planter/Row Width: JD 455 drill, 7.5”

Seeding Rate/Depth: 165000, 1.25 inch

Seed Treatment: Equity Vip(3 oz cwt), Consensus (.4 oz cwt)

Pest Control

Weed Management: Preplant –  
Preemerge – Intimidator (40 oz) – 5/18/19  
Post-emergent – Liberty (36 oz), Outlood (12.8 oz) – 6/11/19

Insect Management:  
Disease Management: Priaxor (4 oz), Fitness (6 oz) at R3 – 7/23/19

Other Foliar Apps:

Water Management: 4 irrigations – 7/11,7/27,8/21,9/5

Harvest Aids: Gramoxone (16 oz), Defol 5 (32 oz)

Harvest Date: 1/4/19

## 5-East Central

Producer	County	Variety	Herb. Tech.	Yield (bu/ac)
Chris Carnathan	Phillips	Asgrow AG 48X9	RR2X	90.289
Neil Culp	Phillips	Asgrow AG 45X8	RR2X	87.415
Terry Tolar	Phillips	Asgrow AG 49X9	RR2X	85.923
Leonard Rohrschieb	Phillips	NK S48-R2X	RR2X	77.010

## Producer:

**Chris Carnathan**

Variety/Technology: Asgrow AG 48X9 (RR2X)

Planting Date: 4/24/19

Previous Crops: Corn/soybeans/corn

Soil Type: Foley silt loam

Fertilizer: 200K

Planter/Row Width: 30”

Seeding Rate/Depth: 150,000,

Seed Treatment: Cruiser Max

Pest Control

Weed Management: Preplant – Salvo, Roundup

Insect Management:  
Disease Management:  
Other Foliar Apps:  
Water Management: Furrow twice  
Harvest Aids:  
Harvest Date: 9/26/19

**Producer:** **Neil Culp – Double A Farms**  
Variety/Technology: Asgrow AG 45X8 (RR2X)  
Planting Date: 4/24/19  
Previous Crops: Corn/soybeans/soybeans  
Soil Type: Foley silt loam  
Fertilizer: 200 lb K  
Planter/Row Width: 30"  
Seeding Rate/Depth: 140,000,  
Seed Treatment: Cruiser Max  
Pest Control

Weed Management: Preplant –  
Preemergence – Fierce  
Post-emergent – Glyphosate/Dicamba, Glyphosate/Dual  
Beseige & Acephate  
Insect Management:  
Disease Management:  
Other Foliar Apps:  
Water Management: Furrow twice  
Harvest Aids: Gramoxone (1 pt)  
Harvest Date: 9/13/19

**Producer:** **Terry Tolar – Tolar Lake Ridge Farms**  
Variety/Technology: Asgrow AG 49X9 (RR2X)  
Planting Date: 5/11/19  
Previous Crops: Corn/soybeans/soybeans  
Soil Type: Foley Silt loam  
Fertilizer: 120 units K  
Planter/Row Width: JD 1790, 15"  
Seeding Rate/Depth: 140,000, 1.5 inch  
Seed Treatment: Cruiser Max & Vibrant  
Pest Control

Weed Management: Preplant –  
Preemergence – Fierce  
Post-emergent -Zidua, Glyphosate  
Beseige (8 oz) & Acephate (.5 lb)  
Insect Management: Miravis Top  
Disease Management:  
Other Foliar Apps:  
Water Management: Pivot 4 times (6/6,8/5,8/19,9/2)  
Harvest Aids:  
Harvest Date: 9/30/19

**Producer:** **Leonard Rohrschieb – Rohrschieb Family Farms**  
Variety/Technology: NK S48R2X (RR2X)  
Planting Date: 5/24/19  
Previous Crops: Corn/soybeans/soybeans/

Soil Type: Newellton Silty Clay  
 Fertilizer: 200 lb K, 50 lb P  
 Planter/Row Width: 7.5"  
 Seeding Rate/Depth: 1550000, 1.5 inch  
 Seed Treatment: Cruiser Max  
 Pest Control  
 Weed Management: Preplant –  
 Preemerge -Boundary,  
 Post-emergent – Prefix, Roundupe  
 Insect Management: Beseige (8 oz), Acephate (.75 lb)  
 Disease Management: Approach Prima  
 Other Foliar Apps:  
 Water Management: Pivot – 3 applications – 1" each  
 Harvest Aids:  
 Harvest Date: 10/11/19

### 6-Southeast Delta

Producer	County	Variety	Herb. Tech.	Yield (bu/ac)
Matt Miles	Ashley	Pioneer P48A60X	RR2X	120.533
Layne Miles	Desha	Pioneer P48A60X	RR2X	117.251
Billy Garner Estate	Desha	Pioneer P48A60X	RR2X	116.636
Mark Welty	Chicot	Pioneer P48A60C	RR2X	103.702
Sherrie Miles	Desha	Pioneer P48A60X	RR2X	101.007
Caper Robertson	Desha	Armor 48D24	RR2X	83.035
Kenneth Robertson	Desha	Armor 48D24	RR2X	81.047

**Producer:** Matt Miles – Smiles Farms  
 Variety/Technology: Pioneer P48A60X (RR2X)  
 Planting Date: 4/22/19  
 Previous Crops: Cotton/soybeans/cotton  
 Soil Type: Herbert silt loam  
 Fertilizer: 1.5 ton litter 54-84-60 in oct 2018, variable K@ 93# on 4/26  
 Planter/Row Width: Monsem, 38" twin  
 Seeding Rate/Depth: 155000, 1 inch  
 Seed Treatment: Cruiser Max, Indigo  
 Pest Control  
 Weed Management: Preplant – burdown Glyphosate (40 oz), 2,4-D (1 pt), Dicamba (9 oz)  
 Preemerge – Metribuzin (5 oz), Gramoxone (32 oz), Metolchlor (1 pt)  
 Post-emergent -Prefix (32 oz), Glyphosate (32 oz)  
 Insect Management: Heligen (1.1 oz), Acephate (9/10#)  
 Disease Management:  
 Other Foliar Apps:  
 Water Management: Furrow 3 times, 2 acre inch  
 Harvest Aids: Paraquat (1 pt)  
 Harvest Date: 9/5/19

**Producer:**

Variety/Technology:

Planting Date:

Previous Crops:

Soil Type:

Fertilizer:

Planter/Row Width:

Seeding Rate/Depth:

Seed Treatment:

Pest Control

Weed Management:

Insect Management:

Disease Management:

Other Foliar Apps:

Water Management:

Harvest Aids:

Harvest Date:

**Layne Miles – Double M Farms**

Pioneer P48A60X (RR2X)

5/1/18

Corn/soybeans/corn

Herbert Silt loam

1.5 Tons/acre litter 10-24-18

Monosem twin, 38"

155000, 1 inch

Cruiser Max, Indigo

Preplant – Burndown Glyphosate (40 oz), 2,4-D (1 pt),  
Dicamba (9 oz)Preemergence – Metribuzin (5 oz), Gramoxone (32 oz),  
Metolachlor (1 pt)

Post-emergence – Glyphosate (32 oz), Prefix (32 oz)

Heligen (1.1 oz), Acephate (9/10 #)

Miravis Top (12.8 oz) art R3

4 irrigations – 2 acre/in

Paraquat (1 pt)

9/13/19

**Producer:**

Variety/Technology:

Planting Date:

Previous Crops:

Soil Type:

Fertilizer:

Planter/Row Width:

Seeding Rate/Depth:

Seed Treatment:

Pest Control

Weed Management:

Insect Management:

Disease Management:

Other Foliar Apps:

Water Management:

Harvest Aids:

Harvest Date:

**Billy Garner Estate – ABCO Farms**

Pioneer P48A60X (RR2X)

5/15/19

Cotton/soybeans/cotton

Hebert Silt loam

1.5 ton litter on 10/1/18

Monsem, twin 38"

155000, 1 inch

Cruiser Max

Preplant – Burndown Glyphosate (40 oz), 2,4-D (1 pt),  
Dicamba (9 oz)Preemergence – Metribuzin (5 oz), Gramoxone (32 oz),  
Metolachlor (1 pt)

Post-emergence - Glyphosate (32 oz), Prefix (32 oz)

Heligen (1.3 oz), Acephate (9/10#)

Miravis Top (12.8 oz) at R3

4 irrigations 1ac/in

Paraquat (1 pt)

9/26/19

**Producer:**

Variety/Technology:

Planting Date:

Previous Crops:

Soil Type:

Fertilizer:

Planter/Row Width:

Seeding Rate/Depth:

Seed Treatment:

**Mark Welty – Panther Forest Inc**

Pioneer P48A60X (RR2X)

4/24/19

Soybeans/corn/soybeans

Commerce silt loam

Variable rate P &amp; K fall 2018

Great Plains 38" twin row

140000,

Cruiser Max

Pest Control

Weed Management: Preplant – Burndown Roundup, Latego, Firezone  
Preemerge – Gramoxone, Zidua  
Post-emergent – Roundup, Prefix

Insect Management:

Disease Management: Miravis top

Other Foliar Apps:

Water Management: Furrow 3 times

Harvest Aids:

Harvest Date: 9/19/19

**Producer:**

**Sherrie Miles – Miles Bros Farms**

Variety/Technology: Pioneer P48A60X (RR2X)

Planting Date: 4/29/19

Previous Crops: Corn/soybeans/corn

Soil Type: Hebert Silt loam

Fertilizer: 1.5 ton chicken litter, 0-0-57 potash

Planter/Row Width: Monsem, twin 38"

Seeding Rate/Depth: 150000, 1 inch

Seed Treatment: Cruiser Max, Indigo

Pest Control

Preplant – Burndown Glyphosate (40 oz), 2,4-D (1 pt),  
Dicamba (9 oz)

Weed Management: Preemerge – Metribuzin (5 oz), Gramoxone (32 oz),  
Metolachlor (1 pt)

Insect Management: Post-emergent - Glyphosate (32 oz), Prefix (32 oz)

Disease Management: Heligen (1.3 oz), Acephate (9/10#)

Other Foliar Apps: Priaxor (4oz) at R3, Miravis top (13.7 oz) at R4

Water Management:

Harvest Aids: 3 times, 2 ac/in

Harvest Date: Paraquat (1 pt)

9/11/19

**Producer:**

**Caper Robertson – R & C Farms Inc.**

Variety/Technology: Armor 48D24 (RR2x)

Planting Date: 5/1/19

Previous Crops: Soybeans/soybeans/soybeans

Soil Type: Sharkey Clay

Fertilizer: 2 tons chicken litter – spring

Planter/Row Width: Great plains 202SP twin row -38"

Seeding Rate/Depth: 140000, 1.5 inch

Seed Treatment: Cruiser Max

Pest Control

Preplant –

Weed Management: Preemerge – Gramoxone, Verdict

Insect Management: Post-emergent – Roundup & Prefix, Roundup & Metolchlor

Disease Management: Brigade, Beseige & Acephate

Other Foliar Apps: Miravis Tip (13.7 oz)

Water Management:

Harvest Aids: Furrow every 10-12 days

Harvest Date:

9/30/29

**Producer:** **Kenneth Robertson – Kenneth Robertson Farms Partnership**  
 Variety/Technology: Armor 48D24 (RR2x)  
 Planting Date: 4/24/19  
 Previous Crops: Soybeans/soybeans/corn  
 Soil Type: Coushatta Complex.  
 Fertilizer: 1.75 tons chicken litter, fert 0-60-0  
 Planter/Row Width: Great plains 202SP twin row -38”  
 Seeding Rate/Depth: 150000, 1.5 inch  
 Seed Treatment: Cruiser Max  
 Pest Control  
 Weed Management: Preplant –  
 Preemergence – Gramoxone, Verdict  
 Post-emergent – Roundup & Prefix, Roundup & Metolchlor  
 Insect Management: Brigade, Beseige & Acephate  
 Disease Management: Miravis Tip (13.7 oz)  
 Other Foliar Apps:  
 Water Management: Furrow 5 times  
 Harvest Aids:  
 Harvest Date: 9/30/29

#### 7 - Western

Producer	County	Variety	Herb. Tech.	Yield (bu/ac)
Greg Hart	Conway	Terral REV 47L38	LL	68.586
James Gregory	Conway	Pioneer P45A29L	LL	60.781

**Producer:** **Greg Hart – Hart & Sons Farm**  
 Variety/Technology: Terral Rev 47L38 (LL)  
 Planting Date: 5/10/2019  
 Previous Crops: Soybeans/soybeans/soybeans  
 Soil Type: Silt loam  
 Fertilizer: None  
 Planter/Row Width: JD 1730 Max Emerge, 15”  
 Seeding Rate/Depth: 130,000, 1”  
 Seed Treatment: Seed Shield,  
 Pest Control  
 Weed Management: Preplant –  
 Preemergence – Valor (2 oz), Metribuzin (4 oz), Metrix plus (4 oz), Paraquat (1 qt),  
 Post-emergent -Shaden Star (18 oz), Liberty (36 oz)  
 Insect Management:  
 Disease Management:  
 Other Foliar Apps:  
 Water Management: Nonirrigated  
 Harvest Aids: Paraquat (16 oz)  
 Harvest Date: 10/4/19

**Producer:** **James Gregory – Gregory Brothers Farm LLC**  
 Variety/Technology: Pioneer P45A29L (LL)

Planting Date: 6/18/19  
 Previous Crops: Soybeans/corn/soybeans  
 Soil Type: Sandy loam  
 Fertilizer: none  
 Planter/Row Width: JD 1770, 15"  
 Seeding Rate/Depth: 155,000, 1.5 inch  
 Seed Treatment:  
 Pest Control: No till after floodwaters receded  
                   Preplant –  
                   Weed Management: Preemerge –  
   Post-emergent – Liberty (1 qt) & Dual (1 pt), Liberty (1qt)  
                   Insect Management:  
                   Disease Management:  
 Other Foliar Apps:  
 Water Management: 7 circles with center pivot  
 Harvest Aids:  
 Harvest Date: 11/15/19

**Conventional**

<b>Producer</b>	<b>County</b>	<b>Variety</b>	<b>Herb. Tech.</b>	<b>Yield (bu/ac)</b>
<b>Jon Carroll</b>	<b>Monroe</b>	<b>USG Ellis</b>	<b>Conv</b>	<b>67.186</b>

**Producer:** **Jon Carroll**  
 Variety/Technology: USG Ellis (Conv)  
 Planting Date: 5/6/19  
 Previous Crops: corn/soybeans/soybeans  
 Soil Type: Grenada silt lam  
 Fertilizer: 150 lb K  
 Planter/Row Width: JD 1720, 30"  
 Seeding Rate/Depth: 140,000, 1"  
 Seed Treatment: Cruiser Max  
 Pest Control:  
                   Preplant – Gramoxone  
                   Weed Management: Preemerge – Dual  
   Post-emergent -Prefix  
                   Insect Management:  
                   Disease Management:  
 Other Foliar Apps:  
 Water Management: Twice – 7/6 & 7/28  
 Harvest Aids:  
 Harvest Date: 10/25/19



This board, with a goal of improving the sustainability and profitability of the soybean industry in Arkansas, is responsible for distributing funds from the checkoff. Funds are used primarily for research and extension projects conducted by the University of Arkansas System Division of Agriculture, Agricultural Experiment Station and Cooperative Extension Service.

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