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# Arkansas Corn and Grain Sorghum Performance Tests 2018

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# Arkansas

## **Corn and Grain Sorghum Performance Tests 2018**



R.D. Bond • J.A. Still • J.F. Carlin

**UofA**  
DIVISION OF AGRICULTURE  
RESEARCH & EXTENSION  
*University of Arkansas System*

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R.D. Bond

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**Arkansas Agricultural Experiment Station  
University of Arkansas System  
Division of Agriculture  
Fayetteville, Arkansas 72704**

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# Arkansas Corn and Grain Sorghum Performance Tests<sup>1</sup> 2018

R.D. Bond<sup>2</sup>, J.A. Still<sup>3</sup>, and J.F. Carlin<sup>4</sup>

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## Introduction

Corn and grain sorghum performance tests are conducted each year in Arkansas by the University of Arkansas System Division of Agriculture. The tests provide information to companies marketing seed within the state, and aid the Arkansas Cooperative Extension Service in formulating recommendations for producers.

The 2018 corn performance tests contained 73 entries and were conducted at the Northeast Research and Extension Center (NEREC) at Keiser, the Lon Mann Cotton Research Station (LMCRS) near Marianna, the Bell Farming Company near Des Arc, the Rohwer Research Station (RRS) near Rohwer and the Rice Research and Extension Center (RREC) near Stuttgart. The 2018 grain sorghum performance tests contained 19 entries and were conducted at the NEREC, the LMCRS, the RRS, and the RREC. Test location maps for grain sorghum and corn can be found on page 44 and inside the back cover, respectively.

## Materials and Methods

Corn hybrids were divided into two maturity groups based on information provided by the originating companies. Entries were placed into a 116 or fewer days-to-maturity group (Early- to Mid-Season) or 117+ group (Mid- to Full-Season).

Within each test, entries were arranged as a randomized complete block design with four replications. Plots were two rows wide and 20–25 feet long depending on location. Seeding rates for grain sorghum hybrids at all locations as well as corn hybrids at the Keiser and Rohwer locations were based on the recommendations of the originating company. A vacuum-type planter is used to plant the corn tests at the Stuttgart and Bell Farm locations which requires a single seeding rate. A seeding rate of 33,000 plants per acre averaged from all participant-requested

plant populations was used to plant these locations. Specific location and management practice information accompany each table.

## Grain Sorghum Performance Measurements

**Yield:** Yields were calculated from the weight of threshed grain from each plot and are expressed as bushels per acre (bu./ac) at 14% moisture.

**Grain Moisture:** Expressed as a percent moisture of grain at harvest.

**Plant Height:** Average height in inches from the soil surface to the top of the grain head.

**Head Exertion:** Average distance in inches from the flag leaf to base of panicle.

### Head Compactness Scale:

1 = Head short and oval. Rachis branches intermediate in length.

2 = Head long and slender. Rachis branches strong and short.

3 = Head elongated and oval. Rachis branches beginning to weaken and intermediate in length.

4 = Head elongated and rectangular in shape. Rachis branches intermediate in strength and length.

5 = Head open and elongated. Rachis branches weak.

**Bird Damage:** A visual estimate of total percent grain loss from each plot.

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<sup>1</sup>Use of products and trade names in this report does not constitute a guarantee or warranty of the products named and does not signify that those products are approved to the exclusion of comparable products.

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<sup>4</sup>Program Director, Arkansas Agricultural Experiment Station, University of Arkansas, Fayetteville, Ark. 72704.

## Corn Performance Measurements

**Yield:** Yields were calculated from the weight of shelled corn harvested from each plot and are expressed as bushels per acre (bu./ac) at 15.5% moisture.

**Grain Moisture:** Expressed as a percent moisture of shelled grain at harvest.

**Root Lodging:** Average number of plants leaning more than 40 degrees from vertical at harvest.

**Stalk Lodging:** Average number of plants broken below an ear at harvest.

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**Plants/Acre:** The plant population expressed in the number of plants per acre.

**Ear Height:** The average distance in inches from the soil surface to the point of attachment of upper ear.

**Tip Cover:** Tip cover was rated as good (1), average (2), or poor (3). A rating of good was given when the husks reached well beyond the end of the ear and fit tightly. A rating of average was given when the husks reached the tip of the ear or fit loosely. A rating of poor was given when the ears were open to the weather.

### Variety Testing Website

This report and other information about variety testing for corn, cotton, grain sorghum, rice, small grains, and soybean can be found at:

<https://arkansas-variety-testing.uark.edu>

Disease ratings that do not appear in this or other reports may also be found on this website.





Table 1. Yields of Grain Sorghum Hybrids in Arkansas Performance Tests, 2018<sup>a,b</sup>.

Hybrid Name	Keiser	Keiser	Marianna	Stuttgart	Rohwer	Rohwer	Average
	Irrigated	Non-Irrigated	Irrigated	Irrigated	Irrigated	Non-Irrigated	
	.....(bu./ac).....						
DEKALB DKS 51-01	149.3	152.0	146.1	154.4	148.2	144.2	149.0
DEKALB DKS 53-53	135.9	143.6	138.4	154.8	161.6	149.3	147.2
Dyna-Gro M71GR04	125.5	125.7	135.3	169.7	133.8	123.4	135.6
Dyna-Gro GX17379	131.3	122.8	143.2	121.8	131.3	108.4	126.4
Dyna-Gro GX17948	151.0	123.5	139.4	128.5	154.6	145.1	140.3
Dyna-Gro GX17962	138.2	114.3	146.3	153.7	130.9	137.6	136.8
Dyna-Gro M69GB38	159.8	133.0	147.6	166.8	151.6	135.9	149.1
Dyna-Gro M60GB31	136.4	134.3	134.5	142.0	138.8	128.2	135.7
Dyna-Gro M69GR88	120.6	116.9	149.2	147.1	140.1	129.5	133.9
Dyna-Gro M73GR55	154.7	136.5	142.9	143.9	142.5	117.2	139.6
Dyna-Gro M74GB17	156.5	114.0	147.6	158.8	144.2	112.0	138.8
Pioneer P83G19	141.0	129.3	145.7	157.1	147.7	120.9	140.3
Pioneer P83P17	141.6	130.1	149.1	144.7	143.0	126.8	139.2
Pioneer P84P80	137.2	133.5	140.2	162.4	156.9	160.9	148.5
REV 9562	119.8	132.6	141.0	130.6	148.2	128.6	133.5
REV 9782	117.1	119.9	138.2	129.4	139.8	138.4	130.4
REV 9924	131.7	110.4	128.9	154.6	142.0	142.2	134.9
Sorghum Partners SP73B12	137.5	120.5	135.1	143.6	142.9	125.6	134.2
Sorghum Partners SP7715	130.0	135.9	137.9	146.0	138.1	120.7	134.8
GRAND MEAN	137.6	127.8	141.4	147.9	144.0	131.3	138.3
LSD (5%)	16.2	14.9	15.9	23.0	13.5	13.4	•
C.V.	9.9	9.8	9.5	13.1	7.9	7.3	•

<sup>a</sup> Keiser = Northeast Research and Extension Center, Keiser, Ark.

Marianna = Lon Mann Cotton Research Station, Marianna, Ark.

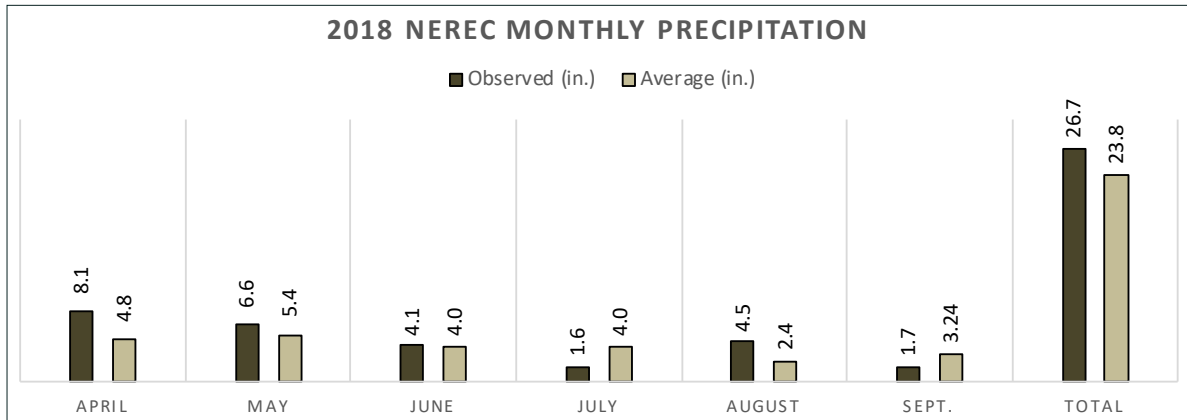
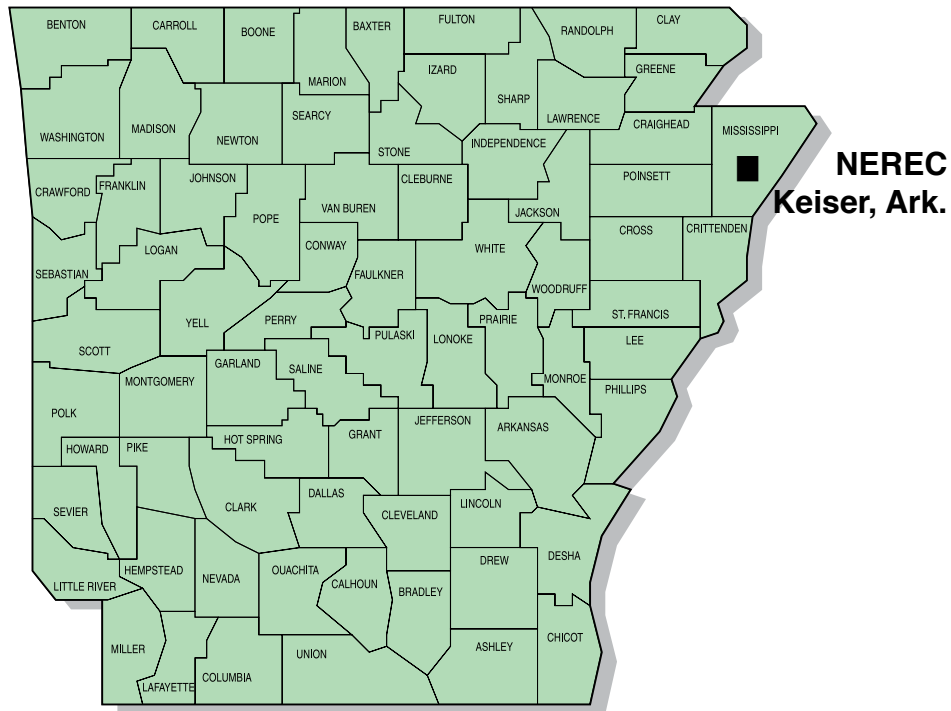
Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.

Rohwer = Rohwer Research Station, Rohwer, Ark.

<sup>b</sup> The Marianna and Stuttgart locations were originally planted on April 18 and 19, respectively. However, due to poor stands caused by cool, wet weather conditions, both trials were replanted on May 9 and 10, respectively.

# Keiser: Northeast Research and Extension Center (NEREC)

## Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2018



**Soil Series:** Sharkey clay

**Row Spacing:** 38 in.

**Planting Date:** May 1

**Irrigation Dates:** June 12,  
July 12, Aug. 1

**Fertilizer** 109 lb/ac N

**Application(s):** 217 lb/ac N

**Herbicide** Dual II Magnum + Atrazine

**Application(s):** Facet + Atrazine

**Insecticide** Prevathon + Sivanto

**Application(s):**

**Harvest Date:**

May 15

June 6

May 2

June 7

August 3

Sept. 13

**Table 2. Performance of Irrigated Grain Sorghum Hybrids, NEREC, Keiser, Ark., 2018.**

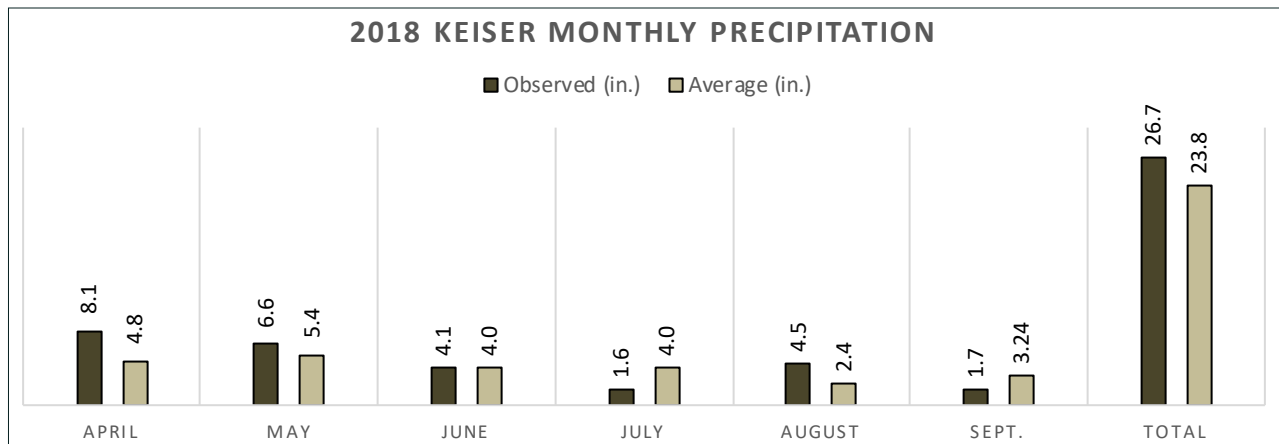
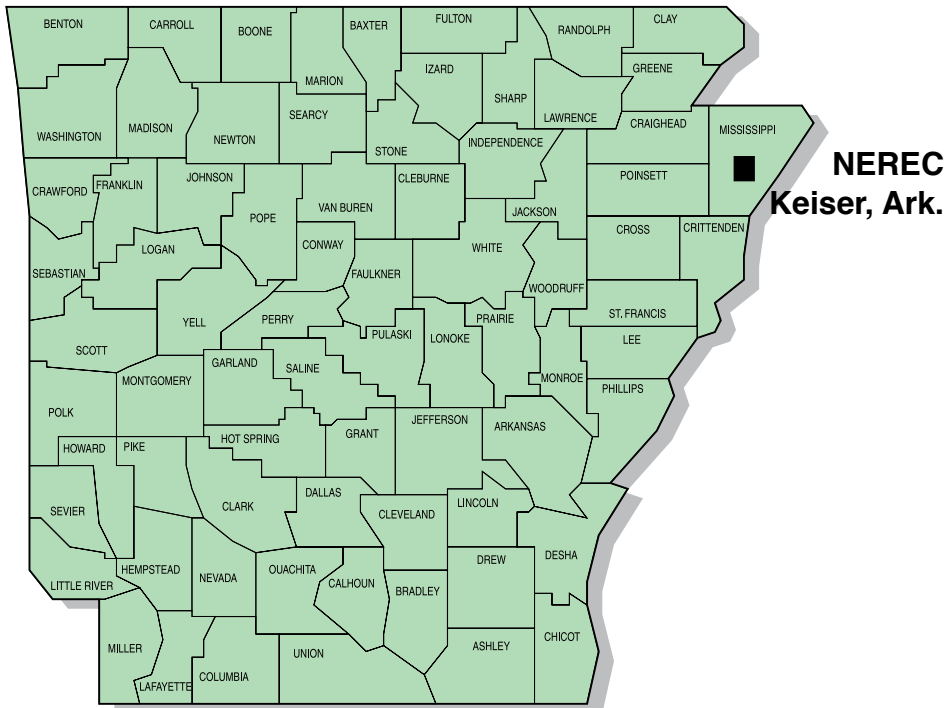
Hybrid Name	Yield (bu./ac)	2-Year <sup>a</sup>	3-Year <sup>b</sup>	Grain Moisture (%)	Plant Height (in.)	Head Exertion (in.)	Head <sup>c</sup>	Bird Damage (%)
		Avg. (bu./ac)	Avg. (bu./ac)				Comp. Rating	
Dyna-Gro M69GB38	159.8	•	•	13.3	56	10	2	10
Dyna-Gro M74GB17	156.5	124.6	•	13.1	56	7	1	6
Dyna-Gro M73GR55	154.7	138.8	•	13.5	60	4	1	8
Dyna-Gro GX17948	151.0	•	•	13.1	56	5	1	8
DEKALB DKS 51-01	149.3	137.2	124.8	13.0	58	10	2	8
Pioneer P83P17	141.6	131.5	•	13.1	58	4	2	5
Pioneer P83G19	141.0	131.6	•	12.7	55	3	3	9
Dyna-Gro GX17962	138.2	•	•	13.3	54	9	4	10
Sorghum Partners SP73B12	137.5	•	•	13.2	55	6	2	8
Pioneer P84P80	137.2	128.0	•	12.8	57	5	2	11
Dyna-Gro M60GB31	136.4	•	•	12.7	51	9	3	11
DEKALB DKS 53-53	135.9	117.4	114.3	13.2	56	8	1	6
REV 9924	131.7	122.8	119.4	12.9	53	6	2	10
Dyna-Gro GX17379	131.3	•	•	13.1	59	7	1	6
Sorghum Partners SP7715	130.0	122.3	•	13.0	59	12	2	9
Dyna-Gro M71GR04	125.5	125.8	•	12.7	59	7	1	14
Dyna-Gro M69GR88	120.6	•	•	12.5	51	9	2	9
REV 9562	119.8	109.2	110.4	12.9	53	9	3	15
REV 9782	117.1	113.7	110.9	12.8	54	10	2	11
GRAND MEAN	137.6	•	•	13.0	56	7	2	9
LSD (5%)	16.2	•	•	0.2	•	•	•	7
C.V.	9.9	•	•	1.2	•	•	•	•

<sup>a</sup> Average yield for 2017 and 2018.<sup>b</sup> Average yield for 2016, 2017, and 2018.<sup>c</sup> 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short;

3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength and length; 5 = Head open and elongated, rachis branches weak.

# Keiser: Northeast Research and Extension Center (NEREC)

## Non-Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2018



**Soil Series:** Sharkey clay

**Row Spacing:** 38 in.

**Planting Date:** May 1

**Fertilizer Application(s):** 109 lb/ac N (May 15)  
217 lb/ac N (June 6)

**Herbicide Application(s):** Dual II Magnum + Atrazine (May 2)  
Facet + Atrazine (June 7)

**Insecticide Application(s):** Prevathon + Sivanto (August 3)

**Harvest Date:** Sept. 13

**Table 3. Performance of Non-Irrigated Grain Sorghum Hybrids, Keiser, Ark., 2018.**

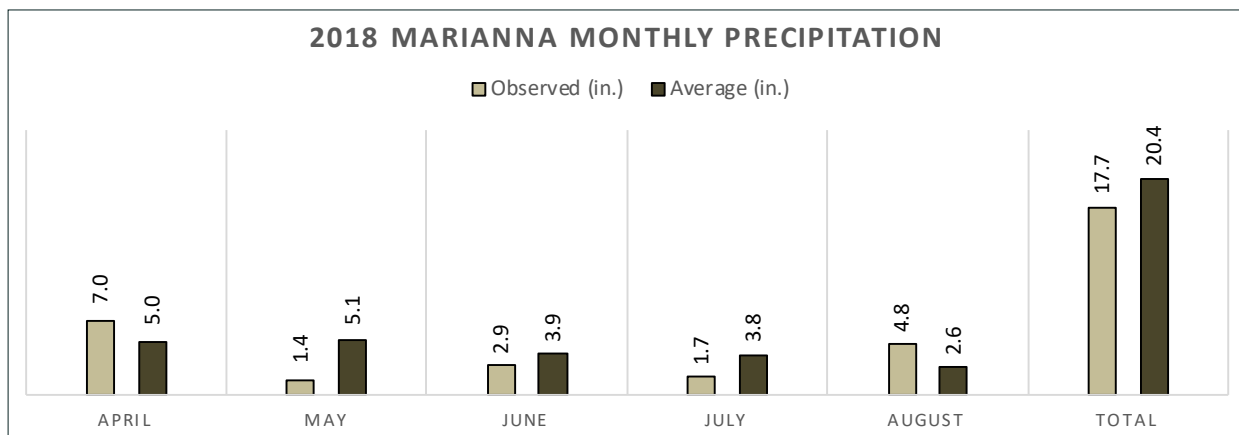
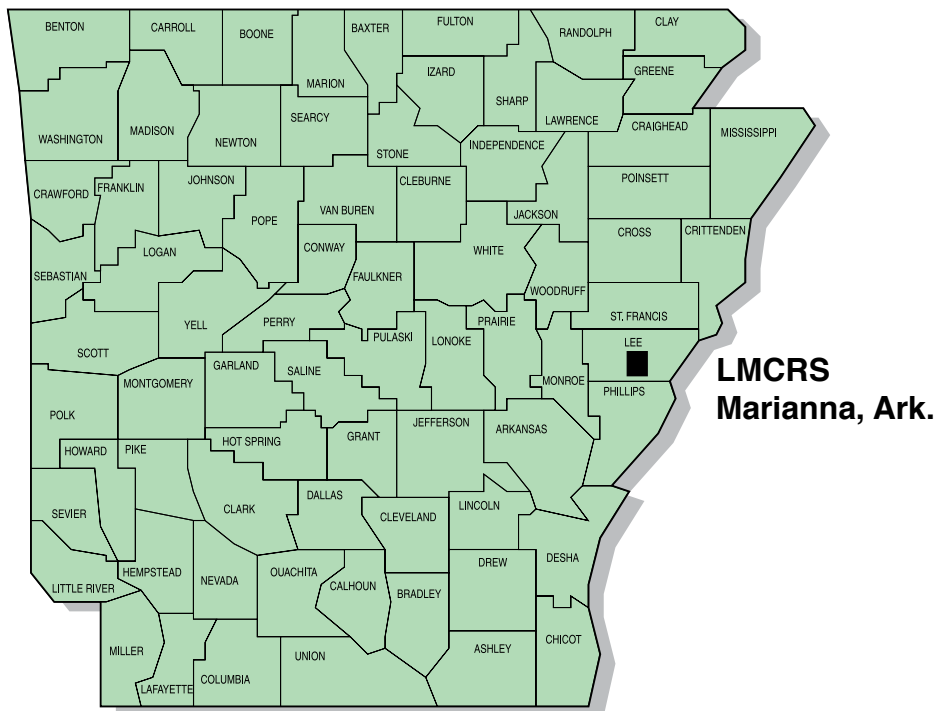
Hybrid Name	Yield (bu./ac)	2-Year <sup>a</sup>	3-Year <sup>b</sup>	Grain Moisture (%)	Plant Height (in.)	Head Exertion (in.)	Head <sup>c</sup>	Bird Damage (%)
		Avg. (bu./ac)	Avg. (bu./ac)				Comp. Rating	
DEKALB DKS 51-01	152.0	138.0	127.7	13.5	56	7	2	9
DEKALB DKS 53-53	143.6	133.7	129.5	13.5	57	6	2	8
Dyna-Gro M73GR55	136.5	124.3	•	14.6	55	4	1	9
Sorghum Partners SP7715	135.9	130.1	•	13.4	57	6	2	8
Dyna-Gro M60GB31	134.3	•	•	13.4	54	7	2	10
Pioneer P84P80	133.5	128.4	•	13.6	55	5	3	11
Dyna-Gro M69GB38	133.0	•	•	13.6	57	10	2	11
REV 9562	132.6	137.4	128.7	13.3	55	10	3	14
Pioneer P83P17	130.1	127.1	•	13.8	53	4	2	8
Pioneer P83G19	129.3	124.2	•	13.1	55	3	3	11
Dyna-Gro M71GR04	125.7	136.3	•	13.2	54	5	1	9
Dyna-Gro GX17948	123.5	•	•	13.7	54	6	2	9
Dyna-Gro GX17379	122.8	•	•	13.7	56	3	1	8
Sorghum Partners SP73B12	120.5	•	•	14.7	51	3	2	5
REV 9782	119.9	124.2	121.0	13.3	54	9	2	16
Dyna-Gro M69GR88	116.9	•	•	13.1	50	6	2	6
Dyna-Gro GX17962	114.3	•	•	13.6	52	5	3	6
Dyna-Gro M74GB17	114.0	122.0	•	13.8	58	9	2	6
REV 9924	110.4	117.2	118.9	13.1	54	4	3	9
GRAND MEAN	127.8	•	•	13.6	55	6	2	9
LSD (5%)	14.9	•	•	0.4	•	•	•	5
C.V.	9.8	•	•	2.7	•	•	•	•

<sup>a</sup> Average yield for 2017 and 2018.<sup>b</sup> Average yield for 2016, 2017, and 2018.

<sup>c</sup> 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short;  
 3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape,  
 rachis branches intermediate in strength and length; 5 = Head open and elongated, rachis branches weak.

# Lon Mann Cotton Research Center (LMCRS), Marianna, Ark.

## Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2018



**Soil Series:** Calloway silt loam  
**Row Spacing:** 38 in.  
**Planting Date:** April 18  
 replanted May 9  
**Irrigation Dates:** May 16, June 12, 18, 26,  
 July 2, 7, 13, 21, Aug. 3,  
 10  
**Insecticide Application(s):** Transform + Prevathon  
 July 18

**Fertilizer Application(s):** 18-46-0 50 lb/ac  
 0-0-60 150 lb/ac  
 21-0-0-24 100 lb/ac  
 46-0-0 75 lb/ac  
 Zinc 30 lb/ac  
 46-0-0 175 lb/ac  
 Am. Sulfate 50 lb/ac  
**Herbicide Application(s):** Dual II Magnum  
 Atrazine + Permit + Dual II Magnum  
**Harvest Date:**

} April 3

May 23

May 11

May 24

Aug. 28

Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, Ark., 2018.

Hybrid Name	Yield (bu./ac)	2-Year <sup>a</sup> Avg. (bu./ac)	3-Year <sup>b</sup> Avg. (bu./ac)	Grain Moisture (%)	Plant Height (in.)	Head Exertion (in.)	Head <sup>c</sup> Comp. Rating
Dyna-Gro M69GR88	149.2	•	•	18.1	49	4	1
Pioneer P83P17	149.1	136.6	•	14.1	53	3	2
Dyna-Gro M69GB38	147.6	•	•	15.3	54	3	3
Dyna-Gro M74GB17	147.6	138.8	•	16.4	59	4	3
Dyna-Gro GX17962	146.3	•	•	14.5	60	2	2
DEKALB DKS 51-01	146.1	135.0	143.9	14.7	55	2	1
Pioneer P83G19	145.7	132.4	•	17.1	57	2	3
Dyna-Gro GX17379	143.2	•	•	14.9	54	1	2
Dyna-Gro M73GR55	142.9	127.5	•	15.2	54	4	2
REV 9562	141.0	141.7	142.6	16.3	57	3	3
Pioneer P84P80	140.2	131.7	•	15.3	53	3	2
Dyna-Gro GX17948	139.4	•	•	16.9	58	1	3
DEKALB DKS 53-53	138.4	131.2	142.4	16.8	56	4	1
REV 9782	138.2	133.3	141.2	16.2	52	3	3
Sorghum Partners SP7715	137.9	131.1	•	15.7	51	2	3
Dyna-Gro M71GR04	135.3	141.1	•	16.2	51	2	3
Sorghum Partners SP 73B12	135.1	•	•	14.7	53	4	2
Dyna-Gro M60GB31	134.5	•	•	14.0	56	3	2
REV 9924	128.9	126.5	132.7	14.4	53	4	2
GRAND MEAN	141.4	•	•	15.6	54	3	2
LSD (5%)	15.9	•	•	1.9	•	•	•
C.V.	9.5	•	•	10.4	•	•	•

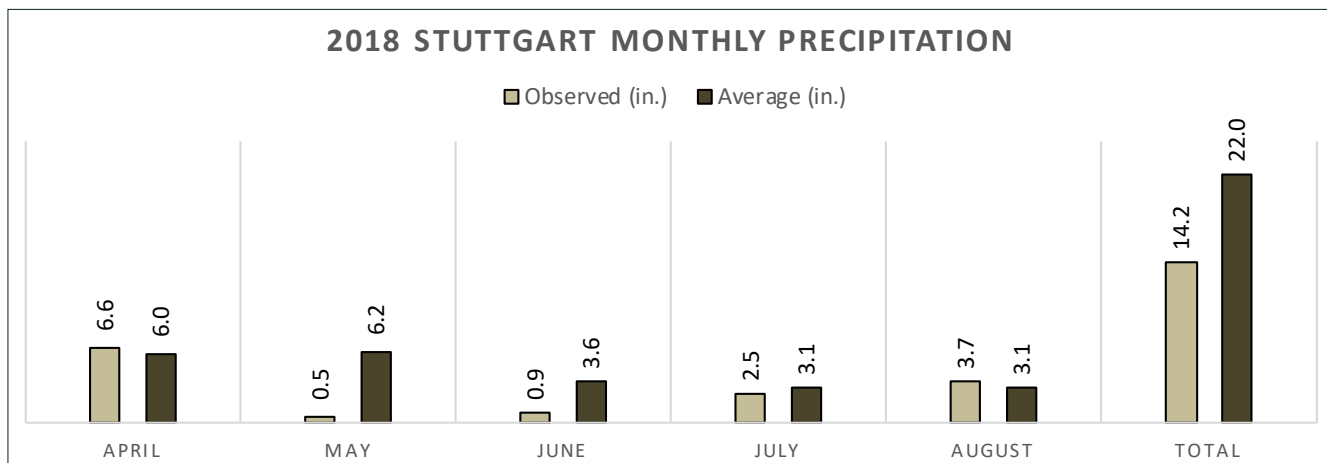
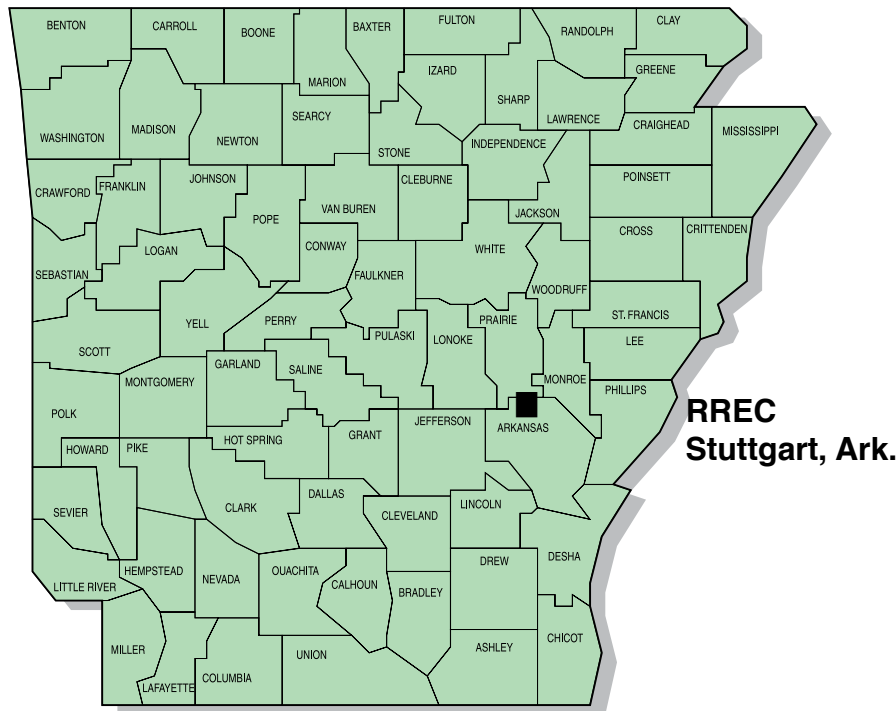
<sup>a</sup> Average yield for 2016 and 2018.<sup>b</sup> Average yield for 2015, 2016, and 2018.<sup>c</sup> 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short;

3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength and length; 5 = Head open and elongated, rachis branches weak.



# Stuttgart: Rice Research and Extension Center (RREC)

## Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2018



<b>Soil Series:</b>	Crowley silt loam	<b>Fertilizer Application(s):</b>	3400 lb/ac Lime 70 lb/ac N, 92 lb/ac P, 75 lb/ac K, 24 lb/ac Zn 200 lb/ac N 200 lb/ac N	March 22 April 3 May 16 May 30
<b>Row Spacing:</b>	30"	<b>Herbicide Application(s):</b>	Dual II Magnum + Atrazine RoundUp + Aim	April 20 August 15
<b>Soil pH:</b>	5.2	<b>Insecticide Application(s):</b>	Ravage + Sivanto Ravage + Sivanto	July 3 July 13
<b>Planting Date:</b>	April 19 replanted May 10	<b>Harvest Date:</b>		August 28
<b>Irrigation Dates:</b>	May 18, 31 June 15, 27 July 8			

**Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, Ark., 2018.**

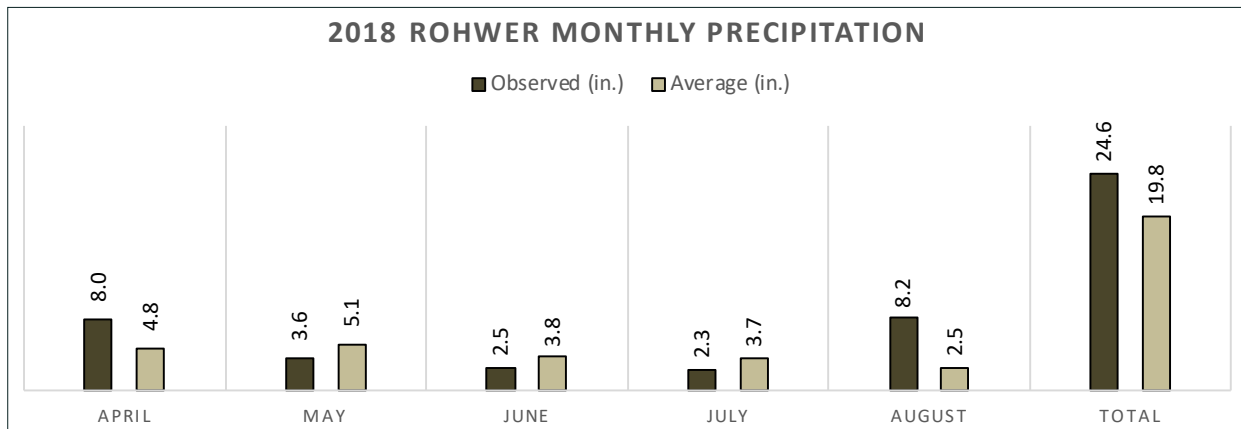
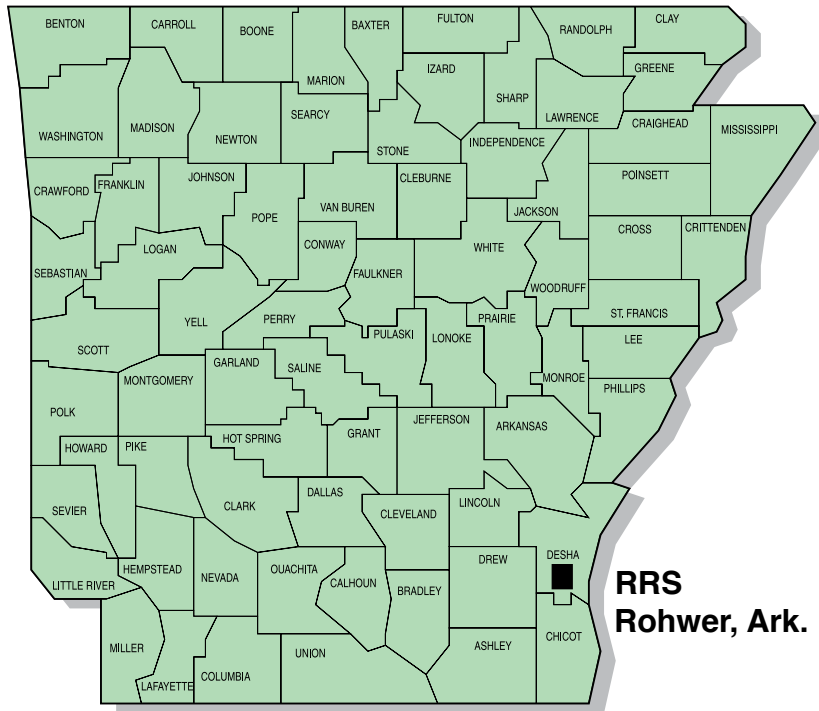
Hybrid Name	Yield (bu./ac)	2-Year <sup>a</sup>	3-Year <sup>b</sup>	Grain Moisture (%)	Plant Height (in.)	Head Exertion (in.)	Head <sup>c</sup>	Bird Damage (%)
		Avg. (bu./ac)	Avg. (bu./ac)				Comp. Rating	
Dyna-Gro M71GR04	169.7	141.1	•	13.7	63	3	3	2.5
Dyna-Gro M69GB38	166.8	•	•	13.2	62	8	1	1.3
Pioneer P84P80	162.4	131.7	•	12.9	57	2	3	3.8
Dyna-Gro M74GB17	158.8	138.8	•	13.7	62	2	1	1.3
Pioneer P83G19	157.1	132.4	•	12.9	56	1	2	6.3
DEKALB DKS 53-53	154.8	131.2	142.4	13.0	54	2	2	2.5
REV 9924	154.6	126.5	132.7	12.9	55	1	1	3.8
DEKALB DKS 51-01	154.4	135.0	143.9	13.1	56	2	2	2.5
Dyna-Gro GX17962	153.7	•	•	12.6	57	2	2	1.3
Dyna-Gro M69GR88	147.1	•	•	12.8	54	4	1	1.3
Sorghum Partners SP7715	146.0	131.1	•	13.8	61	6	1	0.0
Pioneer P83P17	144.7	136.6	•	13.3	60	2	1	1.3
Dyna-Gro M73GR55	143.9	127.5	•	13.8	60	2	1	0.0
Sorghum Partners SP 73B12	143.6	•	•	13.3	53	2	1	1.3
Dyna-Gro M60GB31	142.0	•	•	12.6	54	5	2	5.0
REV 9562	130.6	141.7	142.6	12.6	57	3	1	6.3
REV 9782	129.4	133.3	141.2	12.7	53	3	1	6.3
Dyna-Gro GX17948	128.5	•	•	13.2	58	1	1	2.5
Dyna-Gro GX17379	121.8	•	•	13.3	54	5	1	1.3
GRAND MEAN	147.9	•	•	13.1	57	3	1	2.6
LSD (5%)	23.0	•	•	0.3	•	•	•	3.6
C.V.	13.1	•	•	1.9	•	•	•	•

<sup>a</sup> Average yield for 2017 and 2018.<sup>b</sup> Average yield for 2016, 2017, and 2018.<sup>c</sup> 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short;

3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength and length; 5 = Head open and elongated, rachis branches weak.

# Rohwer: Rohwer Research Station (RRS)

## Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2018



<b>Soil Series:</b>	Herbert silt loam	<b>Fertilizer</b>	0-0-60 100 lb/ac	March 21
<b>Row Spacing:</b>	38"	<b>Application(s):</b>	32% liquid N, 25 gal/ac 32% liquid N, 25 gal/ac	May 18 May 29
<b>Planting Date:</b>	April 18	<b>Herbicide</b>	RoundUp	March 15
<b>Irrigation Dates:</b>	June 7, 14, 28 July 12, 27	<b>Application(s):</b>	Dual II Magnum + RoundUp + Atrazine Huskie + Dual II Magnum + Atrazine	April 20 May 30
		<b>Insecticide</b>	Beseige + Sivanto	July 5
		<b>Application(s):</b>	Prevathon	July 27
		<b>Harvest Date:</b>		Aug. 24

**Table 6. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, Ark., 2018.**

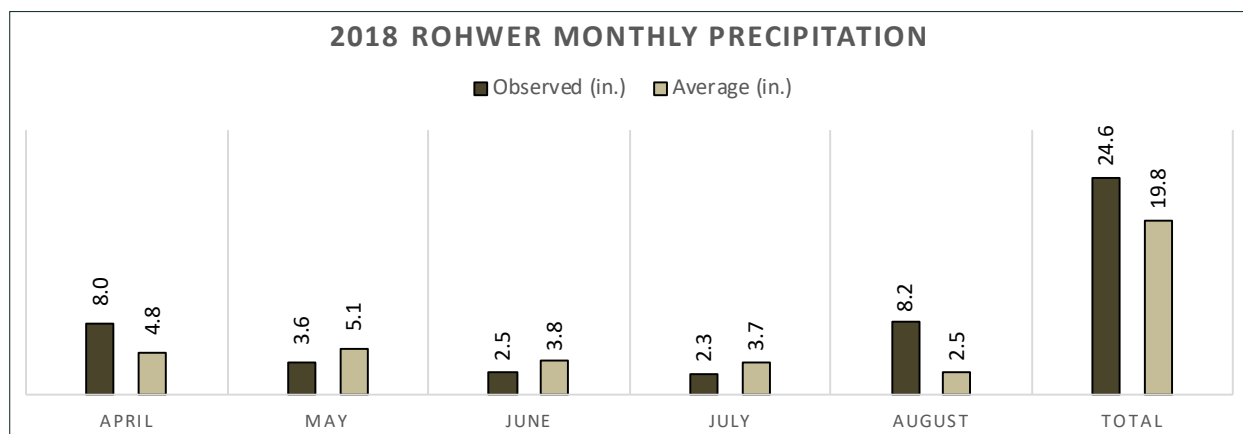
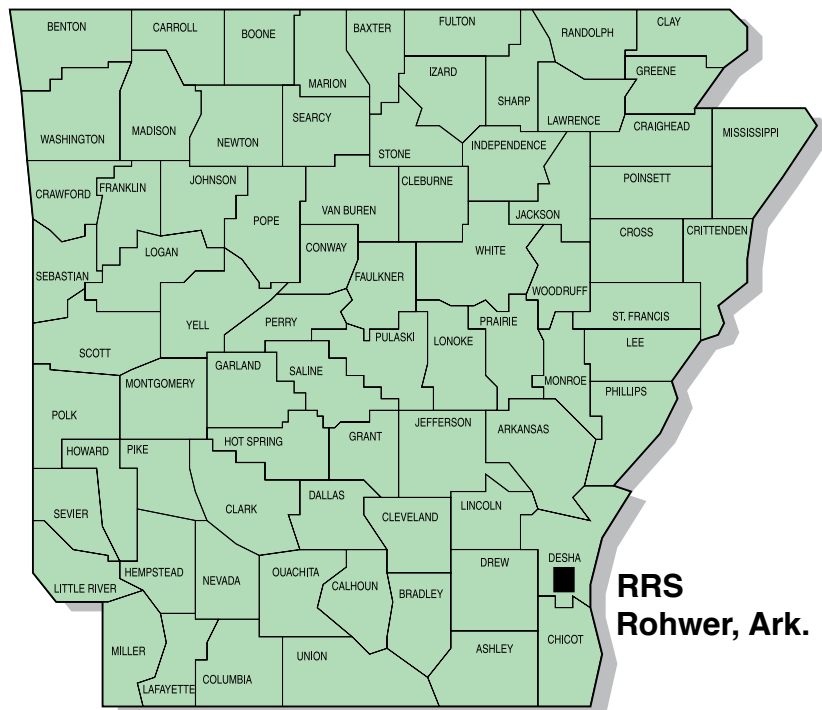
Hybrid Name	Yield (bu./ac)	2-Year <sup>a</sup>	3-Year <sup>b</sup>	Grain Moisture (%)	Plant Height (in.)	Head Exertion (in.)	Head <sup>c</sup> Comp. Rating
		Avg. (bu./ac)	Avg. (bu./ac)				
DEKALB DKS 53-53	161.6	154.0	132.0	14.4	66	4	3
Pioneer P84P80	156.9	155.4	•	15.3	64	4	4
Dyna-Gro GX17948	154.6	•	•	14.7	63	4	3
Dyna-Gro M69GB38	151.6	•	•	15.0	67	6	3
DEKALB DKS 51-01	148.2	149.8	130.4	14.3	69	8	3
REV 9562	148.2	144.1	135.0	14.3	66	4	4
Pioneer P83G19	147.7	147.8	•	15.0	63	4	3
Dyna-Gro M74GB17	144.2	143.5	•	14.7	65	6	3
Pioneer P83P17	143.0	147.9	•	17.5	66	6	3
Sorghum Partners SP 73B12	142.9	•	•	15.7	62	4	3
Dyna-Gro M73GR55	142.5	142.6	•	15.2	67	3	3
REV 9924	142.0	138.9	126.2	15.2	68	5	4
Dyna-Gro M69GR88	140.1	•	•	14.3	56	2	3
REV 9782	139.8	139.2	131.6	14.4	61	5	3
Dyna-Gro M60GB31	138.8	•	•	13.8	62	4	4
Sorghum Partners SP7715	138.1	134.8	•	14.6	68	6	3
Dyna-Gro M71GR04	133.8	146.9	•	14.6	65	4	3
Dyna-Gro GX17379	131.3	•	•	14.8	63	2	3
Dyna-Gro GX17962	130.9	•	•	14.6	61	4	4
GRAND MEAN	144.0	•	•	14.9	64	4	3
LSD (5%)	13.5	•	•	1.2	•	•	•
C.V.	7.9	•	•	6.8	•	•	•

<sup>a</sup> Average yield for 2017 and 2018.<sup>b</sup> Average yield for 2016, 2017, and 2018.<sup>c</sup> 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short;

3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength and length; 5 = Head open and elongated, rachis branches weak.

# Rohwer: Rohwer Research Station (RRS)

## Non-Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2018



**Soil Series:** Herbert silt loam  
**Row Spacing:** 38"  
**Planting Date:** April 18  
**Irrigation Dates:** June 7, 14, 28  
 July 12, 27

**Fertilizer** 0-0-60 100 lb/ac March 21  
**Application(s):** 32% liquid N, 25 gal/ac May 18  
 32% liquid N, 25 gal/ac May 29  
**Herbicide** Roundup March 15  
**Application(s):** RoundUp + Dual II Magnum + Atrazine April 20  
 Huskie + Dual II Magnum + Atrazine May 30  
**Insecticide** Beseige + Sivanto July 5  
**Application(s):** Prevathon July 27  
**Harvest Date:** Aug. 24

Table 7. Performance of Non-Irrigated Grain Sorghum Hybrids, Rohwer, Ark., 2018.

Hybrid Name	Yield	2-Year <sup>a</sup> Avg.	3-Year <sup>b</sup> Avg.	Grain Moisture	Plant Height	Head Exertion	Head <sup>c</sup> Comp. Rating
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)	(in.)	
Pioneer P84P80	160.9	150.5	•	14.1	50	1	3
DEKALB DKS 53-53	149.3	144.2	112.0	13.9	55	6	3
Dyna-Gro GX17948	145.1	•	•	14.8	59	3	3
DEKALB DKS 51-01	144.2	145.2	118.1	14.0	65	5	3
REV 9924	142.2	135.6	114.3	14.2	61	1	3
REV 9782	138.4	136.7	115.7	14.6	55	4	3
Dyna-Gro GX17962	137.6	•	•	13.6	56	3	4
Dyna-Gro M69GB38	135.9	•	•	14.6	51	4	3
Dyna-Gro M69GR88	129.5	•	•	14.2	54	3	3
REV 9562	128.6	123.7	109.1	14.1	53	3	3
Dyna-Gro M60GB31	128.2	•	•	13.3	54	1	4
Pioneer P83P17	126.8	139.2	•	15.4	56	2	3
Sorghum Partners SP 73B12	125.6	•	•	16.2	54	4	3
Dyna-Gro M71GR04	123.4	133.9	•	14.6	60	3	2
Pioneer P83G19	120.9	133.1	•	14.6	56	2	4
Sorghum Partners SP7715	120.7	127.2	•	15.0	53	1	3
Dyna-Gro M73GR55	117.2	124.5	•	15.3	60	3	3
Dyna-Gro M74GB17	112.0	130.5	•	15.0	53	1	2
Dyna-Gro GX17379	108.4	•	•	14.8	62	2	2
GRAND MEAN	131.3	•	•	14.5	56	3	3
LSD (5%)	13.4	•	•	0.6	•	•	•
C.V.	7.3	•	•	3.1	•	•	•

<sup>a</sup> Average yield for 2017 and 2018.<sup>b</sup> Average yield for 2016, 2017, and 2018.<sup>c</sup> 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short;

3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength and length; 5 = Head open and elongated, rachis branches weak.

**Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2018<sup>a,b</sup>.**

Hybrid Name (see p. 42 for Corn Trait Package Information)	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
.....(bu./ac).....						
<u>Early- to Mid-Season Hybrids</u>						
AgriGold A645-10VT2RIB	242.9	178.2	192.4	188.1	191.3	198.6
AgriGold A6544VT2RIB	256.6	223.6	198.2	204.3	205.3	217.6
AgriGold A6572VT2RIB	236.5	233.1	215.0	209.6	196.9	218.2
AgriGold A6659VT2RIB	264.8	214.8	196.0	204.5	236.5	223.3
Armor 0887	252.9	187.4	196.2	196.8	196.4	205.9
Armor 1447	236.6	211.9	191.8	211.5	209.4	212.2
Armor 1667	236.9	188.5	189.8	198.8	174.1	197.6
Armor X8111	251.0	200.5	215.4	187.0	205.6	211.9
Armor X8113	206.9	176.5	172.5	174.4	170.4	180.1
BH 8721VT2P	259.5	225.5	205.6	201.4	192.2	216.8
BH 8735VTTP	248.2	204.8	182.5	196.5	175.8	201.6
BH 8737VT2P	242.5	210.4	204.2	194.1	209.0	212.0
Croplan 5678SS	242.6	218.3	210.2	202.8	206.5	216.1
DEKALB DKC 62-53	247.1	212.3	200.6	199.1	186.9	209.2
DEKALB DKC 64-35	239.0	191.2	210.0	198.4	188.9	205.5
DEKALB DKC 65-95	251.9	218.0	203.4	228.3	198.8	220.1
DEKALB DKC 66-75	268.3	218.2	195.1	213.4	219.3	222.9
Dyna-Gro D52VC63	246.5	188.0	192.0	199.8	210.7	207.4
Dyna-Gro D54VC14	256.8	232.9	202.1	213.5	197.9	220.6
Hefty H6324 RIB	243.5	189.4	188.8	203.3	186.6	202.3
Hefty H6413 RIB	258.1	206.6	195.5	205.3	177.8	208.6
Hefty H6502 RIB	233.6	190.8	197.7	193.9	197.7	202.7
Hefty H6424 RIB	214.4	193.9	187.1	184.1	192.2	194.3
Hefty H6524 RIB	241.9	203.2	203.7	202.8	204.0	211.1
LG 5643VT2RIB	254.9	208.3	197.5	198.0	210.4	213.8
LG 5650VT2RIB	251.4	234.6	215.8	212.7	198.4	222.6
LG 5663VT2RIB	241.0	181.0	179.5	203.2	190.1	198.9
Local AV8614VYHR	261.2	226.6	215.1	209.8	196.0	221.7
Local LC1577VT2P	245.1	204.2	200.4	194.0	211.3	211.0
Local RL8430VYHR	229.9	202.5	206.1	160.8	175.5	195.0
Mission Mex1308VT2P	197.8	180.3	171.4	178.8	184.8	182.6
Mission Mex1548DGV2P	270.5	216.5	195.3	213.9	179.1	215.1
NK1573 3110	242.4	235.3	181.5	194.6	199.8	210.7
NK1694 3111	200.4	228.9	187.9	211.3	230.1	211.7
Pfister 71C1PCR	251.0	194.2	199.8	211.9	186.5	208.7
Pfister 74D2PCR	254.3	207.2	213.9	201.2	204.8	216.3
Pfister 75Y1PCR	251.1	220.4	211.6	203.5	195.7	216.5
Pioneer P1442YHR	252.6	213.7	181.6	185.2	174.4	201.5

**Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2018<sup>a,b</sup>, continued.**

Hybrid Name (see p. 42 for Corn Trait Package Information)	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
.....(bu./ac).....						
<u>Early- to Mid-Season Hybrids Continued</u>						
Progeny PGY 5115VT2P	257.6	211.6	198.5	207.4	215.6	218.1
Progeny PGY 6116VT2P	269.9	213.2	199.8	194.9	190.0	213.5
Progeny PGY 8116SS	244.9	202.9	184.7	200.2	182.7	203.1
Progeny PGY EXP1814	242.7	216.0	188.2	214.2	194.4	211.1
REV 23BHR55	211.4	155.2	192.7	171.5	202.3	186.6
REV 24BHR99	261.6	215.0	206.7	208.3	175.6	213.4
REV 25BHR26	232.3	170.1	197.8	206.4	168.6	195.0
REV 25BHR89	215.2	155.7	191.1	173.8	195.7	186.3
GRAND MEAN	243.9	204.6	197.0	199.3	195.5	208.0
LSD (5%)	15.8	19.6	18.5	18.2	22.4	18.9
C.V.	5.5	8.2	8.0	6.7	9.8	7.6
<u>Mid- to Full-Season</u>						
AgriGold A647-90VT2RIB	234.5	194.3	191.7	192.3	189.1	200.4
AgriGold A6711VT2PRO	251.4	213.4	201.8	190.3	200.5	211.5
Armor 1887	228.2	184.2	201.7	174.6	201.2	198.0
Armor X8117	236.0	213.2	204.2	180.9	217.5	210.3
Armor X8118	246.1	202.3	193.0	185.7	212.5	207.9
Augusta A1367 3220GT	269.5	213.3	205.1	194.9	195.8	215.7
Croplan 6027VT2	198.5	191.9	198.9	188.6	211.9	197.9
DEKALB DKC 67-44	258.3	207.4	203.1	209.3	257.7	227.1
DEKALB DKC 67-72	252.4	173.0	215.1	207.6	211.6	211.9
DEKALB DKC 68-26	252.9	192.2	205.1	193.4	211.7	211.0
DEKALB DKC 68-69	242.5	184.8	179.8	188.2	188.8	196.8
DEKALB DKC 70-27	252.4	190.3	203.0	191.1	210.4	209.4
Dyna-Gro CX17117	241.3	200.8	200.0	191.7	191.6	205.1
Dyna-Gro D57VP51	243.3	197.7	201.4	187.6	222.2	210.4
Dyna-Gro D58VC65	254.6	182.1	210.8	200.7	203.0	210.2
Local LC1776VT2P	238.4	204.5	210.8	190.4	207.5	210.3
Local LC1878VT2P	237.3	201.0	196.2	188.4	206.2	205.8
Local LC1987VT2P	223.6	190.5	190.1	181.7	183.6	193.9
Mission A1857SS	237.6	190.0	192.2	194.5	177.0	198.3
Pfister 77C1SE	222.1	206.5	186.2	190.9	200.8	201.3



**Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2018<sup>a,b</sup>, continued.**

Hybrid Name (see p. 42 for Corn Trait Package Information)	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
.....(bu./ac).....						
<u>Mid- to Full-Season Continued</u>						
Pioneer P1847VYHR	259.7	231.7	228.3	212.6	203.5	227.1
Pioneer P1870YHR	260.5	211.4	204.0	195.3	182.5	210.7
Pioneer P2089VYHR	245.6	241.6	194.5	184.9	175.5	208.4
Progeny PGY 6119VT2P	237.5	188.8	198.2	186.3	204.3	203.0
Progeny PGY EXP1817	255.7	194.7	205.3	193.5	207.6	211.4
REV 27BHR79	224.0	179.8	192.3	189.1	209.0	198.8
REV 28BHR18	256.8	192.9	197.0	192.0	181.2	204.0
GRAND MEAN	243.0	199.0	200.3	191.7	202.4	207.3
LSD (5%)	15.0	18.6	15.9	14.8	20.0	16.8
C.V.	5.2	7.9	6.7	6.5	8.4	7.0

<sup>a</sup> Keiser = Northwest Research and Extension Center, Keiser, Ark.

Marianna = Lon Mann Cotton Research Center, Marianna, Ark.

Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.

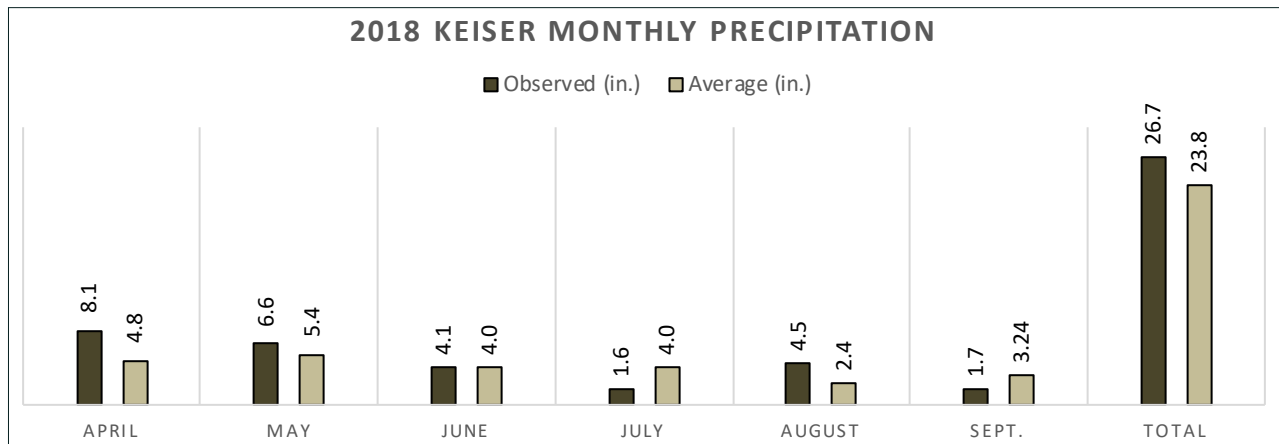
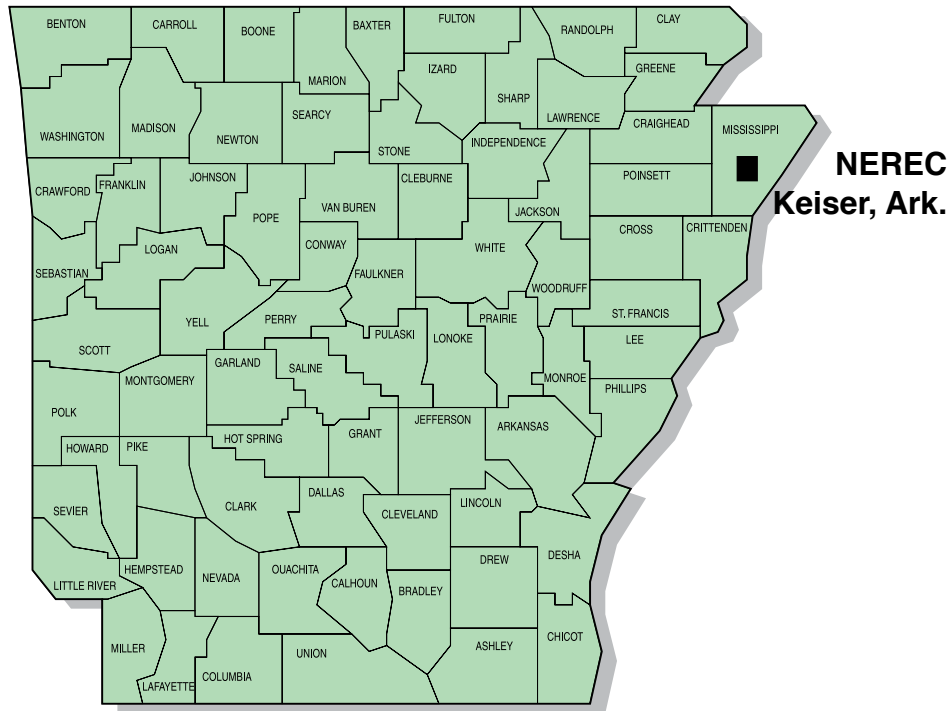
Rohwer = Southeast Research and Extension Center - Rohwer Division, Rohwer, Ark.

Bell Farm = Bell Farming Company, Des Arc, Ark.

<sup>b</sup>The Marianna location was originally planted on April 18. However, due to poor stands caused by cool, wet weather conditions, the trial was replanted on May 9.

## Keiser: Northeast Research and Extension Center (NEREC)

### Irrigated Corn Hybrids Trial Summary, 2018



Keiser-Corn

**Soil Series:** Sharkey clay

**Row Spacing:** 38 in.

**Planting Date:** May 1

**Irrigation Date(s):** June 11, July 9, 30

**Fertilizer Application(s):** 109 lb/ac N May 15  
434 lb/ac N May 25

**Herbicide Application(s):** Dual II Magnum + Atrazine April 20  
Acuron May 16

**Harvest Date:** Early and Late Hybrids Sept. 14

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2018.

Brand/Hybrid	Yield (bu./ac)	2-Year <sup>a</sup>	3-Year <sup>b</sup>	Grain Moisture (%)	Ear Height (in.)	Tip <sup>c</sup>	Plants Per Acre
		Avg. (bu./ac)	Avg. (bu./ac)			Cover Rating	
<u>Early- to Mid-Season Hybrids</u>							
Mission Mex1548DGVT2P	270.5	•	•	15.0	34	1	36156
Progeny PGY 6116VT2P	269.9	253.6	238.1	15.9	36	1	37549
DEKALB DKC 66-75	268.3	•	•	16.2	44	1	32716
AgriGold A6659VT2RIB	264.8	246.0	234.6	15.7	36	1	33925
REV 24BHR99	261.6	•	•	15.4	36	1	34204
Local AV8614VYHR	261.2	•	•	17.1	35	1	34668
BH 8721VT2P	259.5	•	•	14.5	35	1	34018
Hefty H6413 RIB	258.1	•	•	16.9	36	1	32623
Progeny PGY 5115VT2P	257.6	235.3	226.5	14.9	34	2	36713
Dyna-Gro D54VC14	256.8	•	•	15.1	30	2	32438
AgriGold A6544VT2RIB	256.6	233.2	•	14.7	35	1	31229
LG 5643VT2RIB	254.9	242.2	•	15.9	36	1	33832
Pfister 74D2PCR	254.3	•	•	18.8	33	2	30907
Armor 0887	252.9	•	•	14.0	35	2	30393
Pioneer P1442YHR	252.6	232.7	•	15.7	32	1	28255
DEKALB DKC 65-95	251.9	230.7	•	15.9	35	3	31973
LG 5650VT2RIB	251.4	232.6	•	15.4	30	2	31508
Pfister 75Y1PCR	251.1	•	•	18.5	35	1	35877
Armor X8111	251.0	•	•	14.6	33	1	33739
Pfister 71C1PCR	251.0	233.7	•	15.4	36	1	34111
BH 8735VTTP	248.2	•	•	15.0	45	1	32531
DEKALB DKC 62-53	247.1	•	•	15.0	36	3	35133
Dyna-Gro D52VC63	246.5	223.8	•	14.6	36	1	32531
Local LC1577VT2P	245.1	•	•	15.4	31	1	33088
Progeny PGY 8116SS	244.9	231.3	•	17.4	37	1	35040
Hefty H6324 RIB	243.5	•	•	14.7	35	2	35598
AgriGold A645-10VT2RIB	242.9	227.8	•	17.0	38	1	32252
Progeny PGY EXP1814	242.7	•	•	14.8	34	3	31137
Croplan 5678SS	242.6	•	•	16.1	32	1	33925
BH 8737VT2P	242.5	•	•	15.1	30	2	32438
NK1573 3110	242.4	•	•	15.8	38	1	34389
Hefty H6524 RIB	241.9	•	•	15.2	34	2	31415
LG 5663VT2RIB	241.0	224.0	215.7	15.0	36	3	32066
DEKALB DKC 64-35	239.0	230.1	218.7	15.8	30	2	35691
Armor 1667	236.9	237.0	•	15.2	40	1	32438
Armor 1447	236.6	217.8	•	15.4	31	2	32809
AgriGold A6572VT2RIB	236.5	217.1	•	15.4	38	1	28999
Hefty H6502 RIB	233.6	•	•	15.6	33	2	28162
REV 25BHR26	232.3	232.4	225.3	16.3	36	3	28255
Local RL8430VYHR	229.9	•	•	14.5	35	1	30951
REV 25BHR89	215.2	•	•	14.9	44	2	23794

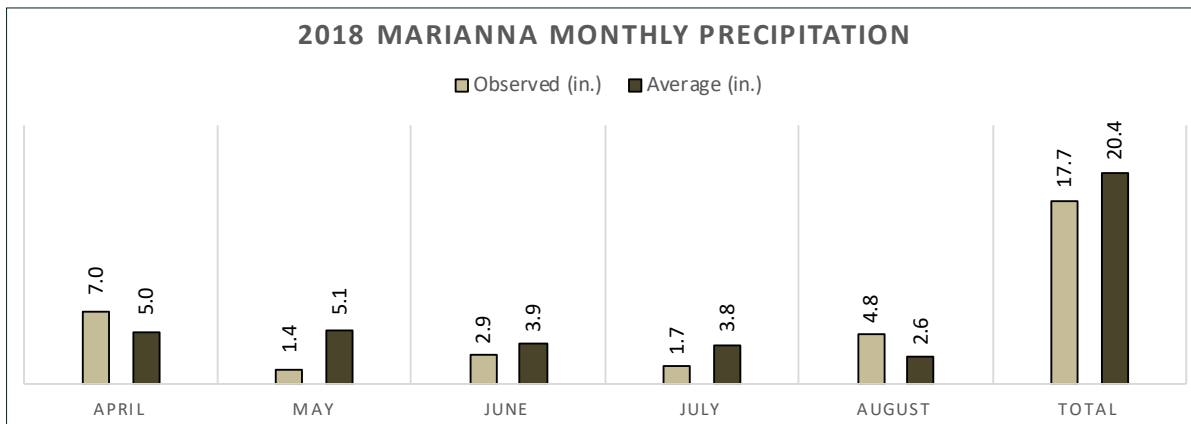
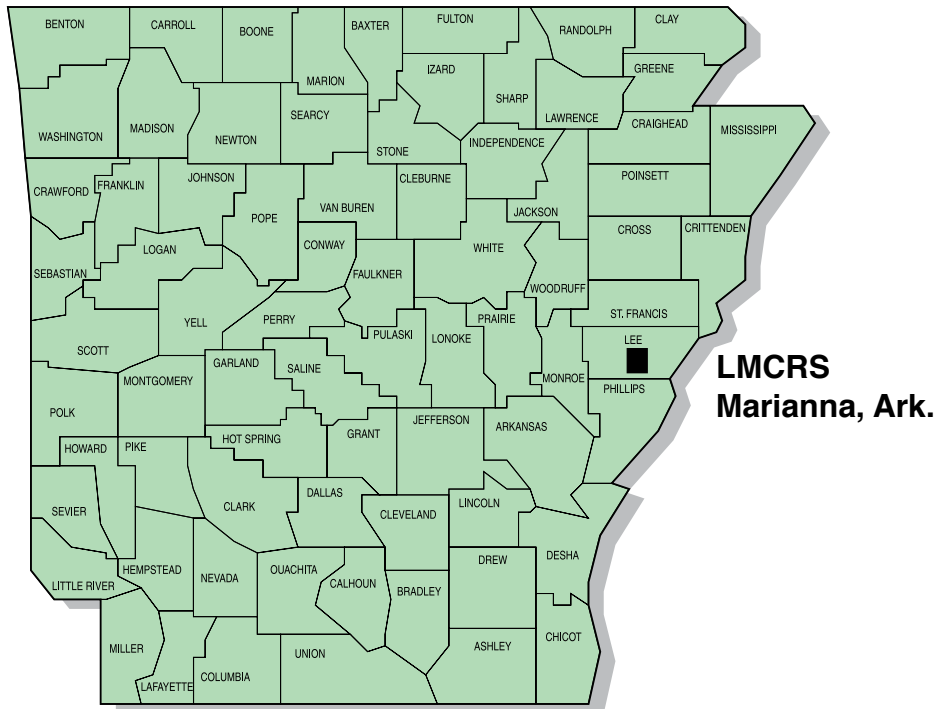
Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2018, continued.

Brand/Hybrid	Yield (bu./ac)	2-Year <sup>a</sup> Avg. (bu./ac)	3-Year <sup>b</sup> Avg. (bu./ac)	Grain Moisture (%)	Ear Height (in.)	Tip <sup>c</sup> Cover Rating	Plants Per Acre
<u>Early- to Mid-Season Hybrids Continued</u>							
Hefty H6424 RIB	214.4	•	•	15.2	29	3	27883
REV 23BHR55	211.4	213.3	208.6	15.4	34	3	26768
Armor X8113	206.9	•	•	15.1	32	1	29464
NK1694 3111	200.4	•	•	15.8	40	1	22678
Mission Mex1308VT2P	197.8	•	•	15.1	31	1	29464
GRAND MEAN	243.9	•	•	15.6	35	2	32081
LSD (5%)	15.8	•	•	1.9	•	•	2964
C.V.	5.5	•	•	10.2	•	•	8
<u>Mid- to Full-Season Hybrids</u>							
Augusta A1367 3220GT	269.5	•	•	20.3	38	3	33088
Pioneer P1870YHR	260.5	246.4	•	20.2	33	3	33274
Pioneer P1847VYHR	259.7	•	•	20.9	38	2	33460
DEKALB DKC 67-44	258.3	239.1	•	17.8	34	1	35040
REV 28BHR18	256.8	237.8	•	19.5	39	1	31136
Progeny PGY EXP1817	255.7	•	•	17.8	35	1	37735
Dyna-Gro D58VC65	254.6	234.3	242.8	14.1	33	1	31322
DEKALB DKC 68-26	252.9	233.2	•	20.6	35	1	31973
DEKALB DKC 70-27	252.4	234.0	•	22.1	36	1	34390
DEKALB DKC 67-72	252.4	224.6	•	15.0	33	1	38386
AgriGold A6711VT2PRO	251.4	235.2	245.4	15.3	34	1	29742
Armor X8118	246.1	•	•	16.8	32	1	35226
Pioneer P2089VYHR	245.6	242.7	•	19.5	37	3	30672
Dyna-Gro D57VP51	243.3	238.8	241.5	16.1	35	2	31136
DEKALB DKC 68-69	242.5	•	•	13.9	33	1	34854
Dyna-Gro CX17117	241.3	•	•	16.5	34	1	32902
Local LC1776VT2P	238.4	•	•	16.7	34	1	32438
Mission A1857SS	237.6	•	•	17.3	38	1	36620
Progeny PGY 6119VT2P	237.5	229.6	231.6	19.2	35	1	34947
Local LC1878VT2P	237.3	•	•	16.6	39	3	30579
Armor X8117	236.0	•	•	16.3	31	1	31601
AgriGold A647-90VT2RIB	234.5	•	•	19.0	38	1	32809
Armor 1887	228.2	216.2	•	19.6	36	2	33553
REV 27BHR79	224.0	•	•	18.4	36	2	30393
Local LC1987VT2P	223.6	•	•	18.4	35	3	29835
Pfister 77C1SE	222.1	•	•	24.5	40	2	33274
Croplan 6027VT2	198.5	•	•	18.2	37	3	27140
GRAND MEAN	243.0	•	•	18.2	35	2	32871
LSD (5%)	15.0	•	•	2.4	•	•	2586
C.V.	5.2	•	•	11.1	•	•	7

<sup>a</sup> Average yield for 2016 and 2017.<sup>b</sup> Average yield for 2015, 2016, and 2017.<sup>c</sup> Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the weather.

# Lon Mann Cotton Research Center (LMCRS), Marianna, Ark.

## Irrigated Corn Hybrids Trial Summary, 2018



**Soil Series:** Calloway silt loam

**Row Spacing:** 38 in.

**Planting Date:** April 18  
replanted May 9

**Irrigation Dates:** May 16, June 12, 18, 25,  
July 2, 7, 13, 21, Aug. 3, 10

**Fertilizer Application(s):** 18-46-0 50 lb/ac  
0-0-60 150 lb/ac  
21-0-0-24 100 lb/ac  
46-0-0 75 lb/ac  
Zinc 30 lb/ac

} April 3

46-0-0 350 lb/ac May 23  
Am. Sulfate 100 lb/ac

**Herbicide Application(s):** Dual II Magnum May 11  
Atrazine + Permit + Callisto + May 30  
Dual II Magnum

**Harvest Date:** Sept. 4

**Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2018.**

Brand/Hybrid	Yield (bu./ac)	2-Year <sup>a</sup>	3-Year <sup>b</sup>	Grain Moisture (%)	Tip <sup>c</sup>	Ear Height (in.)	Plant Height (in.)	Plants Per Acre
		Avg. (bu./ac)	Avg. (bu./ac)		Cover Rating			
<u>Early- to Mid-Season Hybrids</u>								
NK1573 3110	235.3	•	•	24.8	3	45	108	34991
LG 5650VT2RIB	234.6	•	•	22.7	3	47	106	33530
AgriGold A6572VT2RIB	233.1	•	•	22.9	1	48	102	33358
Dyna-Gro D54VC14	232.9	•	•	21.6	1	43	98	33702
NK1694 3111	228.9	•	•	26.3	2	45	105	34734
Local AV8614VYHR	226.6	•	•	22.1	3	45	109	34476
BH 8721VT2P	225.5	225.6	•	23.1	2	47	108	35421
AgriGold A6544VT2RIB	223.6	•	•	20.9	2	46	102	33100
Pfister 75Y1PCR	220.4	•	•	26.7	1	50	111	34303
Croplan 5678SS	218.3	•	•	22.8	1	41	96	33702
DEKALB DKC 66-75	218.2	•	•	22.7	2	50	103	35593
DEKALB DKC 65-95	218.0	•	•	24.6	3	46	102	32498
Mission Mex1548DGV2P	216.5	•	•	22.5	2	43	103	35077
Progeny PGY EXP1814	216.0	•	•	21.5	1	46	99	33874
REV 24BHR99	215.0	•	•	25.3	2	44	104	32068
AgriGold A6659VT2RIB	214.8	222.0	229.7	22.0	3	48	105	34562
Pioneer P1442YHR	213.7	•	•	23.3	3	50	111	34475
Progeny PGY 6116VT2P	213.2	208.6	•	23.6	2	48	104	35851
DEKALB DKC 62-53	212.3	•	•	24.9	3	43	97	33788
Armor 1447	211.9	•	•	22.0	2	45	97	33358
Progeny PGY 5115VT2P	211.6	218.3	217.4	22.7	3	44	102	37571
BH 8737VT2P	210.4	•	•	21.4	1	49	106	30177
LG 5643VT2RIB	208.3	•	•	20.9	2	46	102	31209
Pfister 74D2PCR	207.2	•	•	25.0	3	48	110	34905
Hefty H6413 RIB	206.6	•	•	23.6	1	46	102	33530
BH 8735VTP	204.8	•	•	23.5	2	48	115	32412
Local LC1577VT2P	204.2	•	•	22.7	3	44	96	32498
Hefty H6524 RIB	203.2	•	•	20.8	3	48	102	30779
Progeny PGY 8116SS	202.9	•	•	28.0	3	47	104	35593
Local RL8430VYHR	202.5	•	•	21.5	3	48	105	33616
Armor X8111	200.5	•	•	22.7	2	44	98	33960
Pfister 71C1PCR	194.2	•	•	27.5	1	47	104	36797
Hefty H6424 RIB	193.9	•	•	22.2	1	46	97	33702
DEKALB DKC 64-35	191.2	198.6	•	22.7	3	46	101	34819
Hefty H6502 RIB	190.8	•	•	26.3	3	46	99	31037
Hefty H6324 RIB	189.4	•	•	23.5	2	46	98	32842
Armor 1667	188.5	•	•	24.1	2	52	104	34389
Dyna-Gro D52VC63	188.0	•	•	26.8	3	40	100	32756
Armor 0887	187.4	•	•	21.0	2	42	99	33616
LG 5663VT2RIB	181.0	195.4	•	24.9	2	43	101	32154
Mission Mex1308VT2P	180.3	•	•	22.5	1	45	99	30349

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2018, continued.

Brand/Hybrid	Yield (bu./ac)	2-Year <sup>a</sup> Avg. (bu./ac)	3-Year <sup>b</sup> Avg. (bu./ac)	Grain Moisture (%)	Tip <sup>c</sup> Cover Rating	Ear Height (in.)	Plant Height (in.)	Plants Per Acre
<u>Early- to Mid-Season Hybrids Continued</u>								
AgriGold A645-10VT2RIB	178.2	•	•	28.2	2	42	101	33100
Armor X8113	176.5	•	•	25.8	1	47	100	31123
REV 25BHR26	170.1	191.5	214.4	21.7	3	50	112	31036
REV 25BHR89	155.7	•	•	25.8	3	49	111	32756
REV 23BHR55	155.2	193.0	217.8	20.5	3	46	104	30349
GRAND MEAN	204.6	•	•	23.5	•	46	103	33468
LSD (5%)	19.6	•	•	3.3	•	5	5	2486
C.V.	8.2	•	•	12.1	•	9	4	6
<u>Mid- to Full-Season Hybrids</u>								
Pioneer P2089VYHR	241.6	•	•	28.2	3	51	121	34389
Pioneer P1847VYHR	231.7	•	•	24.4	1	50	113	33702
AgriGold A6711VT2PRO	213.4	205.7	218.2	25.3	1	49	108	30779
Augusta A1367 3220GT	213.3	•	•	28.4	1	49	114	31896
Armor X8117	213.2	•	•	22.9	1	44	100	33100
Pioneer P1870YHR	211.4	•	•	25.9	2	46	106	33874
DEKALB DKC 67-44	207.4	•	•	25.8	1	48	107	31209
Pfister 77C1SE	206.5	•	•	28.8	1	48	101	33444
Local LC1776VT2P	204.5	•	•	25.2	3	47	108	33702
Armor X8118	202.3	•	•	25.2	1	48	108	31552
Local LC1878VT2P	201.0	•	•	25.4	3	48	103	32412
Dyna-Gro CX17117	200.8	•	•	26.2	1	47	107	34562
Dyna-Gro D57VP51	197.7	208.1	221.8	22.8	1	47	105	30263
Progeny PGY EXP1817	194.7	•	•	24.6	3	50	107	34562
AgriGold A647-90VT2RIB	194.3	•	•	25.3	3	48	108	33444
REV 28BHR18	192.9	•	•	26.9	3	52	110	31208
DEKALB DKC 68-26	192.2	•	•	23.3	2	48	106	33788
Croplan 602VT2	191.9	•	•	26.9	2	48	106	28629
Local LC1987VT2P	190.5	•	•	29.2	3	49	105	29231
DEKALB DKC 70-27	190.3	•	•	27.6	1	48	105	32154
Mission A1857SS	190.0	•	•	27.8	3	46	107	35421
Progeny PGY 6119VT2P	188.8	201.1	•	30.4	1	45	99	35593
DEKALB DKC 68-69	184.8	•	•	27.0	1	48	108	31896
Armor 1887	184.2	•	•	27.7	1	50	107	31037
Dyna-Gro D58VC65	182.1	189.6	•	25.5	1	47	101	32584
REV 27BHR79	179.8	•	•	26.1	2	51	115	32155
DEKALB DKC 67-72	173.0	•	•	25.3	1	42	97	34218
GRAND MEAN	199.0	•	•	26.2	•	48	107	32622
LSD (5%)	18.6	•	•	2.4	•	3	3.5	2136
C.V.	7.9	•	•	7.9	•	6	2.8	6

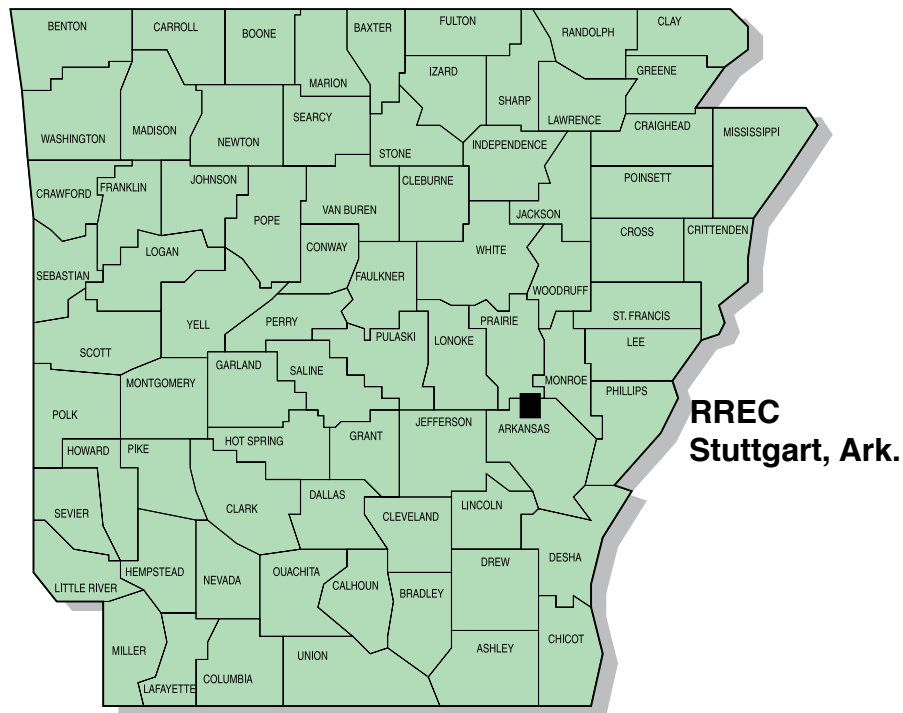
<sup>a</sup> Average yield for 2016 and 2018.

<sup>b</sup> Average yield for 2015, 2016, and 2018.

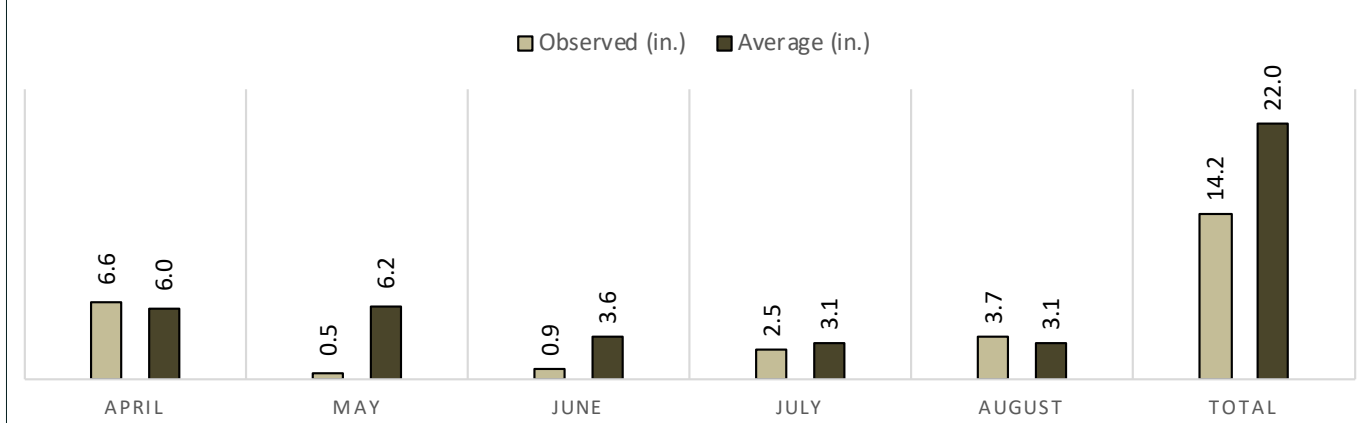
<sup>c</sup> Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the weather.

## Stuttgart: Rice Research and Extension Center (RREC)

### Irrigated Corn Hybrids Trial Summary, 2018



2018 STUTTGART MONTHLY PRECIPITATION



Stuttgart-Corn

<b>Soil Series:</b>	Crowley silt loam	<b>Fertilizer Application(s):</b>	3400 lb/ac Lime 70 lb/ac N, 92 lb/ac P, 75 lb/ac K, 24 lb/ac Zn 200 lb/ac N 200 lb/ac N	March 22 April 3 May 16 May 30
<b>Row Spacing:</b>	30"	<b>Herbicide Application(s):</b>	Dual II Magnum + Atrazine RoundUp + Aim	April 20 August 15
<b>Soil pH:</b>	5.2	<b>Insecticide Application(s):</b>	Ravage + Sivanto Ravage + Sivanto	July 3 July 13
<b>Planting Date:</b>	April 19	<b>Harvest Date:</b>		Sept. 19
<b>Irrigation Dates:</b>	May 18, 31 June 15, 27 July 8			



Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2018.

Brand/Hybrid	Yield (bu./A)	2-Year <sup>a</sup> Avg. (bu./A)	3-Year <sup>b</sup> Avg. (bu./A)	Grain Moisture (%)	Stalk <sup>c</sup> Lodging	Ear Height (in.)	Tip <sup>d</sup> Cover Rating
<u>Early- to Mid-Season Hybrids</u>							
LG 5650VT2RIB	215.8	231.6	•	15.7	0.0	39	1
Armor X8111	215.4	•	•	15.4	0.0	37	3
Local AV8614VYHR	215.1	•	•	16.3	0.0	38	1
AgriGold A6572VT2RIB	215.0	224.8	•	15.8	0.0	37	1
Pfister 74D2PCR	213.9	•	•	16.3	0.0	38	3
Pfister 75Y1PCR	211.6	•	•	17.0	0.0	44	3
Croplan 5678SS	210.2	•	•	15.5	0.0	34	1
DEKALB DKC 64-35	210.0	228.1	223.7	15.9	2.0	33	1
REV 24BHR99	206.7	•	•	15.9	0.0	37	2
Local RL8430VYHR	206.1	•	•	15.0	0.0	45	3
BH 8721VT2P	205.6	•	•	15.8	1.0	34	1
BH 8737VT2P	204.2	•	•	15.5	1.0	38	3
Hefty H6524 RIB	203.7	•	•	15.2	0.0	39	3
DEKALB DKC 65-95	203.4	221.7	•	16.0	0.0	35	2
Dyna-Gro D54VC14	202.1	•	•	15.4	1.0	33	3
DEKALB DKC 62-53	200.6	•	•	15.6	2.0	41	3
Local LC1577VT2P	200.4	•	•	15.4	1.0	34	3
Pfister 71C1PCR	199.8	216.9	•	15.8	0.0	42	2
Progeny PGY 6116VT2P	199.8	214.6	215.5	15.5	0.0	38	3
Progeny PGY 5115VT2P	198.5	211.4	214.4	15.3	1.0	34	1
AgriGold A6544VT2RIB	198.2	221.7	•	15.0	0.0	38	2
REV 25BHR26	197.8	223.8	225.5	15.8	0.0	40	2
Hefty H6502 RIB	197.7	•	•	16.2	0.0	38	3
LG 5643VT2RIB	197.5	224.9	•	15.2	0.0	39	3
Armor 0887	196.2	•	•	15.1	0.0	39	3
AgriGold A6659VT2RIB	196.0	220.7	217.8	15.7	0.0	32	1
Hefty H6413 RIB	195.5	•	•	15.8	0.0	45	2
Mission Mex1548DGVT2P	195.3	•	•	15.3	1.0	36	1
DEKALB DKC 66-75	195.1	•	•	16.0	0.0	40	3
REV 23BHR55	192.7	218.3	221.7	15.2	0.0	42	3
AgriGold A645-10VT2RIB	192.4	209.6	•	15.9	0.0	34	2
Dyna-Gro D52VC63	192.0	202.2	•	15.4	0.0	31	1
Armor 1447	191.8	226.0	•	15.5	0.0	33	2
REV 25BHR89	191.1	•	•	15.6	0.0	43	3
Armor 1667	189.8	213.8	•	15.8	0.0	43	2
Hefty H6324 RIB	188.8	•	•	15.0	0.0	38	3
Progeny PGY EXP1814	188.2	•	•	14.9	0.0	40	3
NK1694 3111	187.9	•	•	16.1	0.0	36	1
Hefty H6424 RIB	187.1	•	•	15.4	0.0	38	3
Progeny PGY 8116SS	184.7	218.7	•	15.7	0.0	35	1
BH 8735VTTP	182.5	•	•	15.9	0.0	45	1

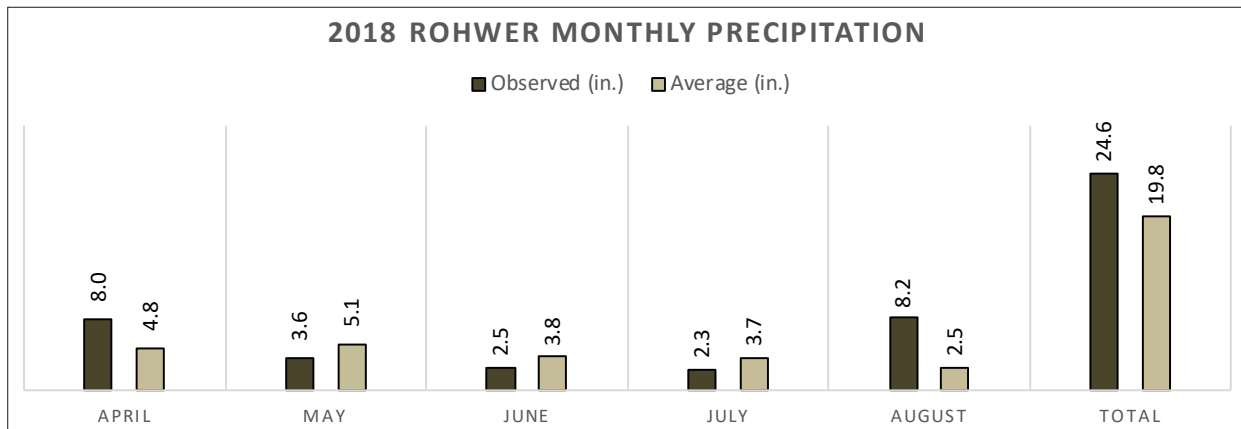
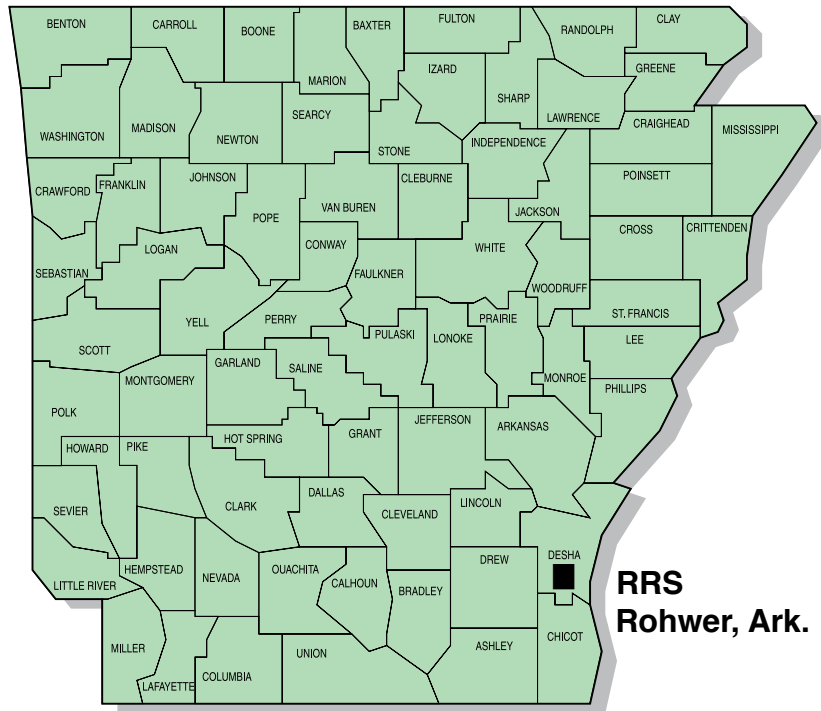
Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2018, continued.

Brand/Hybrid	Yield (bu./ac)	2-Year <sup>a</sup> Avg. (bu./ac)	3-Year <sup>b</sup> Avg. (bu./ac)	Grain Moisture (%)	Stalk <sup>c</sup> Lodging	Ear Height (in.)	Tip <sup>d</sup> Cover Rating
<u>Early- to Mid-Season Hybrids Continued</u>							
Pioneer P1442YHR	181.6	203.9	•	16.4	1.0	41	3
NK1573 3110	181.5	•	•	15.5	0.0	30	1
LG 5663VT2RIB	179.5	207.3	208.3	15.8	0.0	40	3
Armor X8113	172.5	•	•	15.1	0.0	33	2
Mission Mex1308VT2P	171.4	•	•	15.5	0.0	36	3
GRAND MEAN	197.0	•	•	15.6	0.2	38	2
LSD (5%)	18.5	•	•	0.4	0.9	•	•
C.V.	8.0	•	•	2.1	•	•	•
<u>Mid- to Full-Season Hybrids</u>							
Pioneer P1847VYHR	228.3	•	•	16.6	1.0	38	1
DEKALB DKC 67-72	215.1	226.6	•	16.2	0.0	35	1
Dyna-Gro D58VC65	210.8	226.3	225.9	15.8	1.0	36	1
Local LC1776VT2P	210.8	•	•	15.8	0.0	35	1
Progeny PGY EXP1817	205.3	•	•	15.7	0.0	40	2
Augusta A1367 3220GT	205.1	•	•	16.2	0.0	41	2
DEKALB DKC 68-26	205.1	215.6	•	17.3	0.0	36	1
Armor X8117	204.2	•	•	15.7	0.0	38	1
Pioneer P1870YHR	204.0	224.3	•	16.9	0.0	37	1
DEKALB DKC 67-44	203.1	225.2	•	16.6	0.0	33	1
DEKALB DKC 70-27	203.0	225.2	•	16.5	0.0	36	3
AgriGold A6711VT2PRO	201.8	219.5	223.5	15.7	0.0	34	1
Armor 1887	201.7	210.3	•	16.5	0.0	37	1
Dyna-Gro D57VP51	201.4	221.7	221.4	15.7	0.0	33	2
Dyna-Gro CX17117	200.0	•	•	16.2	0.0	42	2
Croplan 6027VT2	198.9	•	•	16.9	0.0	39	3
Progeny PGY 6119VT2P	198.2	212.4	214.3	16.2	0.0	42	1
REV 28BHR18	197.0	210.7	•	16.7	0.0	41	2
Local LC1878VT2P	196.2	•	•	16.1	0.0	42	1
Pioneer P2089VYHR	194.5	214.4	•	16.7	0.0	43	1
Armor X8118	193.0	•	•	16.1	0.0	39	1
REV 27BHR79	192.3	•	•	16.8	0.0	36	2
Mission A1857SS	192.2	•	•	16.3	0.0	41	2
AgriGold A647-90VT2RIB	191.7	•	•	16.4	0.0	35	2
Local LC1987VT2P	190.1	•	•	16.6	0.0	37	1
Pfister 77C1SE	186.2	•	•	17.2	0.0	38	3
DEKALB DKC 68-69	179.8	•	•	15.6	0.0	37	2
GRAND MEAN	200.3	•	•	16.3	0.1	38	2
LSD (5%)	15.9	•	•	0.5	0.4	•	•
C.V.	6.7	•	•	2.5	•	•	•

<sup>a</sup> Average yield for 2016 and 2017.<sup>b</sup> Average yield for 2015, 2016, and 2017.<sup>c</sup> Average number of plants broken below an ear at harvest.<sup>d</sup> Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the weather.

# Rohwer: Rohwer Research Station (RRS)

## Irrigated Corn Hybrids Trial Summary, 2018



**Soil Series:** Herbert silt loam  
**Row Spacing:** 38"  
**Planting Date:** April 10  
**Irrigation Dates:** May 15, 25,  
 June 1, 8, 15, 27  
 July 4, 10, 17, 24

**Fertilizer Application(s):** 32% liquid N, 34.5 gal/ac  
 May 8  
 May 23  
**Herbicide Application(s):** 2,4-D + RoundUp  
 March 14  
 Paraquat + Dual II Magnum + Atrazine  
 April 12  
 Halex GT + Atrazine  
 May 23  
**Harvest Date:** Aug. 29

**Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2018.**

<b>Brand/Hybrid</b>	<b>Yield</b>	<b>2-Year<sup>a</sup></b>	<b>3-Year<sup>b</sup></b>	<b>Grain</b>	<b>Ear</b>	<b>Plant</b>
	<b>(bu./ac)</b>	<b>Avg.</b>	<b>Avg.</b>	<b>Moisture</b>	<b>Height</b>	<b>Height</b>
		<b>(bu./ac)</b>	<b>(bu./ac)</b>	<b>(%)</b>	<b>(in.)</b>	<b>(in.)</b>
<b>Early- to Mid-Season Hybrids</b>						
DEKALB DKC 65-95	228.3	241.1	•	16.8	50	101
Progeny PGY EXP1814	214.2	•	•	16.2	52	92
Mission Mex1548DGV2P	213.9	•	•	17.0	49	105
Dyna-Gro D54VC14	213.5	•	•	16.1	46	96
DEKALB DKC 66-75	213.4	•	•	16.5	48	100
LG 5650VT2RIB	212.7	245.7	•	17.0	49	98
Pfister 71C1PCR	211.9	229.6	•	18.5	49	99
Armor 1447	211.5	238.7	•	16.1	48	99
NK1694 3111	211.3	•	•	17.4	47	99
Local AV8614VYHR	209.8	•	•	17.5	49	111
AgriGold A6572VT2RIB	209.6	231.4	•	16.2	52	104
REV 24BHR99	208.3	•	•	16.8	48	108
Progeny PGY 5115VT2P	207.4	222.1	229.0	16.5	46	95
REV 25BHR26	206.4	230.7	222.5	16.2	50	107
Hefty H6413 RIB	205.3	•	•	17.5	47	99
AgriGold A6659VT2RIB	204.5	237.2	238.5	17.2	46	104
AgriGold A6544VT2RIB	204.3	226.8	•	16.3	48	97
Pfister 75Y1PCR	203.5	•	•	18.5	50	108
Hefty H6324 RIB	203.3	•	•	15.9	48	98
LG 5663VT2RIB	203.2	229.1	227.8	16.7	49	98
Croplan 5678SS	202.8	•	•	16.7	49	100
Hefty H6524 RIB	202.8	•	•	16.5	50	99
BH 8721VT2P	201.4	•	•	17.8	49	108
Pfister 74D2PCR	201.2	•	•	17.5	49	108
Progeny PGY 8116SS	200.2	232.2	•	16.9	48	106
Dyna-Gro D52VC63	199.8	220.9	•	16.3	47	106
DEKALB DKC 62-53	199.1	•	•	15.5	47	103
Armor 1667	198.8	226.8	•	17.0	49	109
DEKALB DKC 64-35	198.4	226.2	229.8	16.4	46	100
LG 5643VT2RIB	198.0	226.1	•	15.7	48	106
Armor 0887	196.8	•	•	15.1	50	102
BH 8735VTTP	196.5	•	•	17.3	51	109
Progeny PGY 6116VT2P	194.9	220.1	219.8	17.3	48	102
NK1573 3110	194.6	•	•	16.1	45	101
BH 8737VT2P	194.1	•	•	16.3	48	104
Local LC1577VT2P	194.0	•	•	16.7	47	94
Hefty H6502 RIB	193.9	•	•	17.3	49	101
AgriGold A645-10VT2RIB	188.1	220.9	•	17.0	50	102
Armor X8111	187.0	•	•	15.4	47	101
Pioneer P1442YHR	185.2	205.8	•	17.1	49	104
Hefty H6424 RIB	184.1	•	•	16.4	45	90

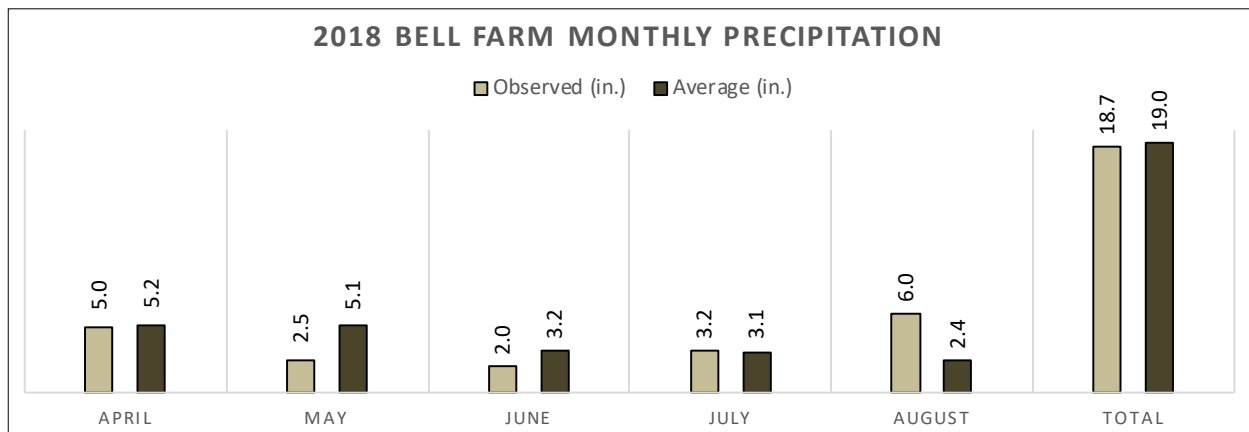
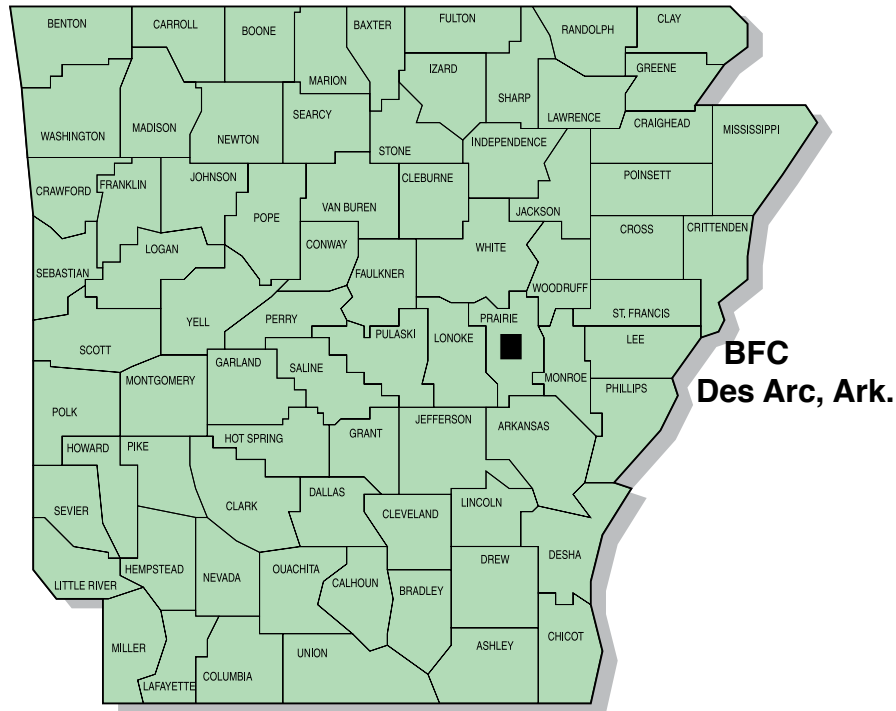
**Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2018, continued.**

<b>Brand/Hybrid</b>	<b>Yield</b>	<b>2-Year<sup>a</sup></b>	<b>3-Year<sup>b</sup></b>	<b>Grain</b>	<b>Ear</b>	<b>Plant</b>
	<b>(bu./ac)</b>	<b>Avg.</b>	<b>Avg.</b>	<b>Moisture</b>	<b>Height</b>	<b>Height</b>
		<b>(bu./ac)</b>	<b>(bu./ac)</b>	<b>(%)</b>	<b>(in.)</b>	<b>(in.)</b>
<u>Early- to Mid-Season Hybrids Continued</u>						
Mission Mex1308VT2P	178.8	•	•	16.4	47	98
Armor X8113	174.4	•	•	16.4	46	96
REV 25BHR89	173.8	•	•	16.5	46	101
REV 23BHR55	171.5	212.7	217.9	15.5	42	94
Local RL8430VYHR	160.8	•	•	15.3	45	102
GRAND MEAN	199.3	•	•	16.6	48	101
LSD (5%)	18.2	•	•	0.7	4	9
C.V.	6.7	•	•	3.3	5	6
<u>Mid- to Full-Season</u>						
Pioneer P1847VYHR	212.6	•	•	17.7	48	107
DEKALB DKC 67-44	209.3	240.2	•	17.1	48	101
DEKALB DKC 67-72	207.6	224.3	•	16.3	46	92
Dyna-Gro D58VC65	200.7	232.4	241.6	16.7	46	92
Pioneer P1870YHR	195.3	229.9	•	17.9	44	99
Augusta A1367 3220GT	194.9	•	•	18.3	47	110
Mission A1857SS	194.5	•	•	17.1	49	99
Progeny PGY EXP1817	193.5	•	•	17.9	46	100
DEKALB DKC 68-26	193.4	221.0	•	18.0	49	101
AgriGold A647-90VT2RIB	192.3	•	•	17.3	50	102
REV 28BHR18	192.0	225.3	•	17.7	50	105
Dyna-Gro CX17117	191.7	•	•	17.1	49	102
DEKALB DKC 70-27	191.1	232.3	•	17.6	47	101
Pfister 77C1SE	190.9	•	•	19.1	47	96
Local LC1776VT2P	190.4	•	•	17.6	44	97
AgriGold A6711VT2PRO	190.3	225.7	239.1	17.7	46	98
REV 27BHR79	189.1	•	•	17.4	47	110
Croplan 6027VT2	188.6	•	•	19.2	45	98
Local LC1878VT2P	188.4	•	•	16.8	49	101
DEKALB DKC 68-69	188.2	•	•	17.1	46	103
Dyna-Gro D57VP51	187.6	234.2	238.4	16.5	44	98
Progeny PGY 6119VT2P	186.3	233.0	233.9	18.0	46	97
Armor X8118	185.7	•	•	17.3	47	92
Pioneer P2089VYHR	184.9	224.1	•	16.8	47	109
Local LC1987VT2P	181.7	•	•	17.6	48	102
Armor X8117	180.9	•	•	16.2	46	92
Armor 1887	174.6	213.1	•	17.3	47	103
GRAND MEAN	191.7	•	•	17.4	47	100
LSD (5%)	14.8	•	•	0.7	3	5
C.V.	6.5	•	•	3.2	5	4

<sup>a</sup> Average yield for 2016 and 2017.<sup>b</sup> Average yield for 2015, 2016, and 2017.<sup>c</sup> Average number of plants broken below an ear at harvest.<sup>d</sup> Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the weather.

## Des Arc: Bell Farming Co. (BFC)

### Irrigated Corn Hybrids Trial Summary, 2018



**Soil Series:** Calhoun silt loam  
**Previous Crop:** Soybean  
**Row Spacing:** 30"  
**Planting Date:** April 19

**Fertilizer Application(s):** Fall 2017, 0-0-60 150 units  
 Spring 2018, 60-40-0-46 150 units  
 300 lb/ac urea May 14  
 150 lb/ac urea at V10 May 14  
**Herbicide Application(s):** Halex GT + Atrazine May 14  
**Harvest Date:** Sept. 4

Bell Farm-Corn

Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Co., Des Arc, Ark., 2018.

Brand/Hybrid	Yield (bu./A)	2-Year <sup>a</sup> Avg. (bu./A)	3-Year <sup>b</sup> Avg. (bu./A)	Grain Moisture (%)	Stalk <sup>c</sup> Lodging	Ear Height (in.)	Tip <sup>d</sup> Cover Rating
<u>Early- to Mid-Season Hybrids</u>							
AgriGold A6659VT2RIB	236.5	245.3	249.5	17.1	0.0	52	3
NK1694 3111	230.1	•	•	17.5	0.0	52	1
DEKALB DKC 66-75	219.3	•	•	17.4	0.0	58	2
Progeny PGY 5115VT2P	215.6	223.5	220.2	17.4	0.0	51	3
Local LC1577VT2P	211.3	•	•	17.4	0.0	38	1
Dyna-Gro D52VC63	210.7	222.0	•	16.6	0.0	55	1
LG 5643VT2RIB	210.4	224.1	•	16.8	0.0	46	1
Armor 1447	209.4	233.4	•	16.8	0.0	52	3
BH 8737VT2P	209.0	•	•	17.1	0.0	53	1
Croplan 5678SS	206.5	•	•	17.7	0.0	45	1
Armor X8111	205.6	•	•	16.6	0.0	53	1
AgriGold A6544VT2RIB	205.3	223.3	•	17.0	0.0	47	1
Pfister 74D2PCR	204.8	•	•	18.2	0.0	57	2
Hefty H6524 RIB	204.0	•	•	16.8	0.0	44	3
REV 23BHR55	202.3	229.3	231.7	16.2	0.0	56	2
NK1573 3110	199.8	•	•	17.0	0.0	54	3
DEKALB DKC 65-95	198.8	225.3	•	17.4	0.0	53	1
LG 5650VT2RIB	198.4	220.3	•	17.2	0.0	52	1
Dyna-Gro D54VC14	197.9	•	•	16.8	0.0	50	3
Hefty H6502 RIB	197.7	•	•	17.8	0.0	44	1
AgriGold A6572VT2RIB	196.9	211.0	•	16.9	0.0	51	1
Armor 0887	196.4	•	•	15.9	0.0	53	2
Local AV8614VYHR	196.0	•	•	17.1	0.0	49	2
Pfister 75Y1PCR	195.7	•	•	18.8	0.0	52	2
REV 25BHR89	195.7	•	•	17.1	0.0	51	3
Progeny PGY EXP1814	194.4	•	•	16.7	0.0	51	2
Hefty H6424 RIB	192.2	•	•	17.5	0.0	48	3
BH 8721VT2P	192.2	•	•	18.1	0.0	50	1
AgriGold A645-10VT2RIB	191.3	204.9	•	17.6	0.0	51	1
LG 5663VT2RIB	190.1	204.5	•	17.9	0.0	47	1
Progeny PGY 6116VT2P	190.0	216.0	•	17.0	0.0	52	2
DEKALB DKC 64-35	188.9	216.0	•	16.9	0.0	56	3
DEKALB DKC 62-53	186.9	•	•	16.4	0.0	43	1
Hefty H6324 RIB	186.6	•	•	16.5	0.0	50	1
Pfister 71C1PCR	186.5	201.7	•	18.2	0.0	55	1
Mission Mex1308VT2P	184.8	•	•	16.7	0.0	44	1
Progeny PGY 8116SS	182.7	202.9	•	17.4	0.0	54	1
Mission Mex1548DGV2P	179.1	•	•	16.8	0.0	51	3
Hefty H6413 RIB	177.8	•	•	16.7	0.0	49	2
BH 8735VTTP	175.8	•	•	17.4	0.0	55	1
REV 24BHR99	175.6	•	•	17.2	0.0	53	1

**Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Co., Des Arc, Ark., 2018, continued.**

<b>Brand/Hybrid</b>	<b>Yield</b>	<b>2-Year<sup>a</sup></b>	<b>3-Year<sup>b</sup></b>	<b>Grain</b>	<b>Stalk<sup>c</sup></b>	<b>Ear</b>	<b>Tip<sup>d</sup></b>
	<b>(bu./A)</b>	<b>Avg.</b>	<b>Avg.</b>	<b>Moisture</b>	<b>Lodging</b>	<b>Height</b>	<b>Cover</b>
		<b>(bu./A)</b>	<b>(bu./A)</b>	<b>(%)</b>		<b>(in.)</b>	<b>Rating</b>
<u>Early- to Mid-Season Hybrids Continued</u>							
Local RL8430VYHR	175.5	•	•	16.3	0.0	48	3
Pioneer P1442YHR	174.4	201.5	•	17.5	0.0	51	3
Armor 1667	174.1	202.8	•	17.6	0.0	55	3
Armor X8113	170.4	•	•	16.5	0.0	45	1
REV 25BHR26	168.6	218.6	229.9	16.8	0.0	55	3
GRAND MEAN	195.5	•	•	17.1	0.0	51	2
LSD (5%)	22.4	•	•	0.6	•	•	•
C.V.	9.8	•	•	3.1	•	•	•
<u>Mid- to Full-Season</u>							
DEKALB DKC 67-44	257.7	254.6	•	18.7	0.0	50	1
Dyna-Gro D57VP51	222.2	235.7	236.6	17.7	0.0	48	3
Armor X8117	217.5	•	•	18.2	0.0	48	1
Armor X8118	212.5	•	•	17.9	0.0	48	1
Croplan 6027VT2	211.9	•	•	19.8	0.0	48	1
DEKALB DKC 68-26	211.7	223.0	•	18.8	1.0	50	1
DEKALB DKC 67-72	211.6	217.1	•	17.9	0.0	42	2
DEKALB DKC 70-27	210.4	232.2	•	18.7	1.0	48	1
REV 27BHR79	209.0	•	•	18.4	0.0	52	3
Progeny PGY EXP1817	207.6	•	•	18.8	0.0	47	3
Local LC1776VT2P	207.5	•	•	18.4	0.0	49	1
Local LC1878VT2P	206.2	•	•	18.5	1.0	53	2
Progeny PGY 6119VT2P	204.3	221.6	•	19.2	0.0	47	1
Pioneer P1847VYHR	203.5	•	•	18.6	0.0	47	1
Dyna-Gro D58VC65	203.0	228.6	•	17.9	1.0	50	1
Armor 1887	201.2	220.9	•	18.2	0.0	47	1
Pfister 77C1SE	200.8	•	•	19.4	0.0	51	2
AgriGold A6711VT2PRO	200.5	224.7	234.5	17.8	0.0	50	1
Augusta A1367 3220GT	195.8	•	•	19.3	0.0	48	3
Dyna-Gro CX17117	191.6	•	•	18.2	0.0	51	1
AgriGold A647-90VT2RIB	189.1	•	•	18.5	0.0	47	1
DEKALB DKC 68-69	188.8	•	•	17.0	0.0	50	3
Local LC1987VT2P	183.6	•	•	18.6	0.0	48	1
Pioneer P1870YHR	182.5	224.8	•	19.1	0.0	45	2
REV 28BHR18	181.2	206.0	•	18.1	0.0	56	2
Mission A1857SS	177.0	•	•	18.5	2.0	51	2
Pioneer P2089VYHR	175.5	219.5	•	18.3	0.0	51	3
GRAND MEAN	202.4	•	•	18.5	0.2	49	2
LSD (5%)	20.0	•	•	0.6	0.9	•	•
C.V.	8.4	•	•	2.5	•	•	•

<sup>a</sup> Average yield for 2017 and 2018.<sup>b</sup> Average yield for 2015, 2017, and 2018.<sup>c</sup> Average number of plants broken below an ear at harvest.<sup>d</sup> Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the weather.



**Participants and Entries**  
**2018 Grain Sorghum Tests**

**Company****Hybrids**


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**Chromatin, Inc.**  
403 S. Monroe  
New Deal, TX 79350

Sorghum Partners SP73B12  
Sorghum Partners SP7715

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**Crop Production Services**  
1673 N. US Hwy 61  
Portageville, MO 63873

Dyna-Gro GX17379  
Dyna-Gro GX17948  
Dyna-Gro GX17962  
Dyna-Gro M60GB31  
Dyna-Gro M69GB38  
Dyna-Gro M69GR88  
Dyna-Gro M71GR04  
Dyna-Gro M73GR55  
Dyna-Gro M74GB17

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**Dupont Pioneer**  
59 Greif Parkway, Suite 200  
Delaware, OH 43015

Pioneer P83G19  
Pioneer P83P17  
Pioneer P84P80

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**Monsanto Company**  
800 N. Lindbergh Blvd.  
St. Louis, MO 63167

DEKALB DKS 51-01  
DEKALB DKS 53-53

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**Terral Seed, Inc.**  
P. O. Box 826  
Lake Providence, LA 71254

REV 9562  
REV 9782  
REV 9924

**Participants and Entries**  
**2018 Corn Tests**

**Company**

**Hybrids**

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**AgriGold Hybrids**  
5381 Akin Rd  
St. Francisville, IL 62460

AgriGold A645-10VT2RIB  
AgriGold A647-90VT2RIB  
AgriGold A6544VT2RIB  
AgriGold A6572VT2RIB  
AgriGold A6659VT2RIB  
AgriGold A6711VT2PRO

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**Armor Seed**  
P.O. Box 178  
Fisher, AR 72429

Armor 0887  
Armor 1447  
Armor 1667  
Armor 1887  
Armor X8111  
Armor X8113  
Armor X8117  
Armor X8118

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**Augusta Seed Coop.**  
P.O. Box 899  
Verona, VA 24482

Augusta A1367 3220GT

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**B-H Genetics**  
5933 FM 1157  
Ganado, TX 77962

BH 8721VT2P  
BH 8735VTTP  
BH 8737VT2P

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**Crop Production Services**  
1673 N. US Hwy 61  
Portageville, MO 63873

Dyna-Gro CX17117  
Dyna-Gro D52VC63  
Dyna-Gro D54VC14  
Dyna-Gro D57VP51  
Dyna-Gro D58VC65

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**Delta Grow Seed**  
P.O. Box 219  
England, AR 72046

Delta Grow DG2888GTCBLLVIP  
Delta Grow DG3660GTCBLLVIP

**Participants and Entries  
2018 Corn Tests, Continued**

<u>Company</u>	<u>Hybrids</u>
<b>Dupont Pioneer</b> 59 Greif Parkway, Suite 200 Delaware, OH 43015	Pioneer P1442YHR Pioneer P1847VYHR Pioneer P1870YHR Pioneer P2089VYHR
<b>Hefty Seed Co.</b> 47504 252 <sup>nd</sup> St. Baltic, SD 57003	Hefty H6324 RIB Hefty H6413 RIB Hefty H6424 RIB Hefty H6502 RIB Hefty H6524 RIB
<b>Land O'Lakes - Winfield Solutions, LLC</b> 4990 County Road 583 Blytheville, AR 72315	Croplan 5678SS Croplan 6027VT2
<b>LG Seeds Inc.</b> 22827 Shissler Rd. Elmwood, IL 61529	LG 5643VT2RIB LG 5650VT2RIB LG 5663VT2RIB
<b>Local Seed Co.</b> 802 Rozelle St. Memphis, TN 38104	Local AV8614VYHR Local LC1577VT2P Local LC1776VT2P Local LC1878VT2P Local LC1987VT2P Local RL8430VYHR
<b>Mission Seed Solutions</b> 516 N. Sharpe Ave. Cleveland, MS 38732	Mission A1857SS Mission Mex1308VT2P Mission Mex1548DGVT2P

**Participants and Entries  
2018 Corn Tests, Continued**

<u>Company</u>	<u>Hybrids</u>
<b>Monsanto Company</b> 800 N. Lindbergh Blvd. St. Louis, MO 63167	DEKALB DKC 62-53 DEKALB DKC 64-35 DEKALB DKC 65-95 DEKALB DKC 66-75 DEKALB DKC 67-44 DEKALB DKC 67-72 DEKALB DKC 68-26 DEKALB DKC 68-69 DEKALB DKC 70-27
<b>Pfister Seeds, LLC</b> 201 Knollwood Dr. Ste. A Champaign, IL 61820	Pfister 71C1PCR Pfister 74D2PCR Pfister 75Y1PCR Pfister 77C1SE
<b>Progeny Ag Products</b> 1529 Highway 193 Wynne, AR 72396	Progeny PGY 5115VT2P Progeny PGY 6116VT2P Progeny PGY 6119VT2P Progeny PGY 8116SS Progeny PGY EXP1814 Progeny PGY EXP1817
<b>Syngenta Seeds</b> 11055 Wayzata Blvd. Minnetonka, MN 55305	NK1573 3110 NK1694 3111
<b>Terral Seed, Inc.</b> P. O. Box 826 Lake Providence, LA 71254	REV 23BHR55 REV 24BHR99 REV 25BHR26 REV 25BHR89 REV 27BHR79 REV 28BHR18

### Corn Trait Package Information

Abbreviations Used:		WBC	Western Bean Cutworm
BCW	Black Cutworm	GT	Glyphosate Tolerant
CEW	Corn Earworm	LL	Liberty Link
ECB	European Corn Borer	RR2	Roundup Ready 2 Yield
FAW	Fall Armyworm	RIB	Refuge in Bag
RW	Corn Rootworm		
SB	Stalk Borer		
SWCB	Southern Corn Borer		
TAW	True Armyworm		

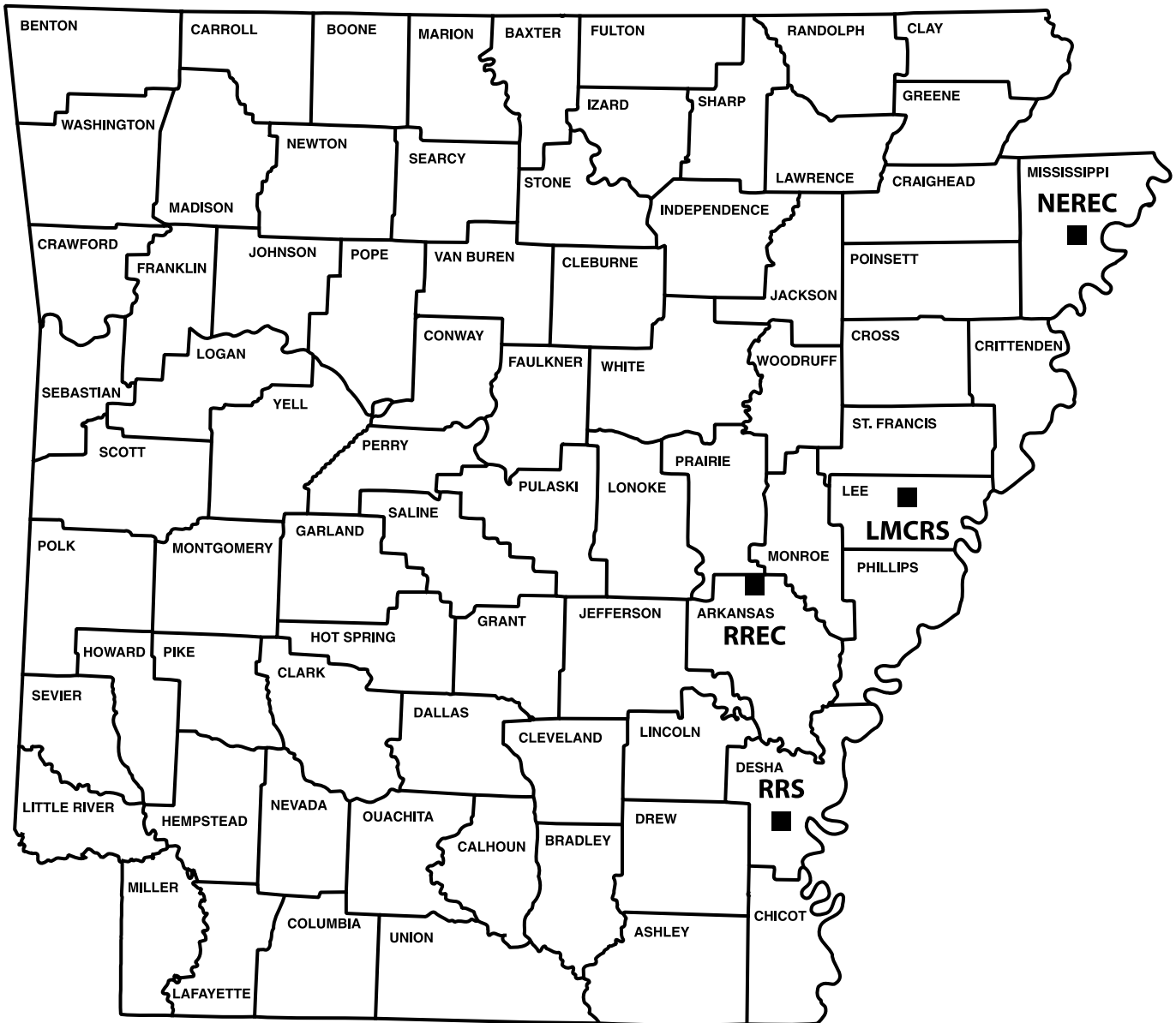
#### Insects **Controlled** or *Suppressed*

Trait Family	Product	(Above Ground)	(In Soil)	Herbicide Tolerance
<b>Agrisure</b>	Agrisure 3010, 3010A	ECB SWCB CEW FAW SB	—	GT LL
	Agrisure 3000GT, 3011A	ECB SWCB CEW FAW SB	RW	GT LL
	Agrisure Viptera 3110	BCW CEW ECB FAW SB SWCB TAW WBC	—	GT LL
	Agrisure Viptera 3111	BCW CEW ECB FAW SB SWCB TAW WBC	RW	GT LL
	Agrisure 3122 E-Z Refuge	BCW ECB FAW SB SWCB TAW WBC CEW	RW	GT
	Agrisure Viptera 3220 E-Z Refuge	BCW CEW ECB FAW SB SWCB TAW WBC	—	GT
	Agrisure Duracade 5122 E-Z Refuge	BCW ECB FAW SB SWCB TAW WBC CEW	RW	GT
	Agrisure Duracade 5222 E-Z Refuge	BCW CEW ECB FAW SB SWCB TAW WBC	RW	GT
<b>Herculex</b>	Herculex 1 (HX1)	BCW ECB FAW SB SWCB WBC CEW	—	LL RR2
	Herculex RW (HXRW)	—	RW	LL RR2
	Herculex XTRA (HXX)	BCW ECB FAW SB SWCB WBC CEW	RW	LL RR2
<b>Optimum</b>	Intrasect (YHR)	BCW ECB FAW SB SWCB WBC CEW	—	LL RR2
	AcreMax (AM)	BCW ECB FAW SB SWCB WBC CEW	—	LL RR2
	Leptra (VYHR)	BCW CEW ECB FAW SB SWCB TAW WBC	—	LL RR2
	AcreMax Leptra (AML)	BCW CEW ECB FAW SB SWCB TAW WBC	—	LL RR2
	AcreMax RW (AMRW)	—	RW	LL RR2

## Corn Trait Package Information, Continued

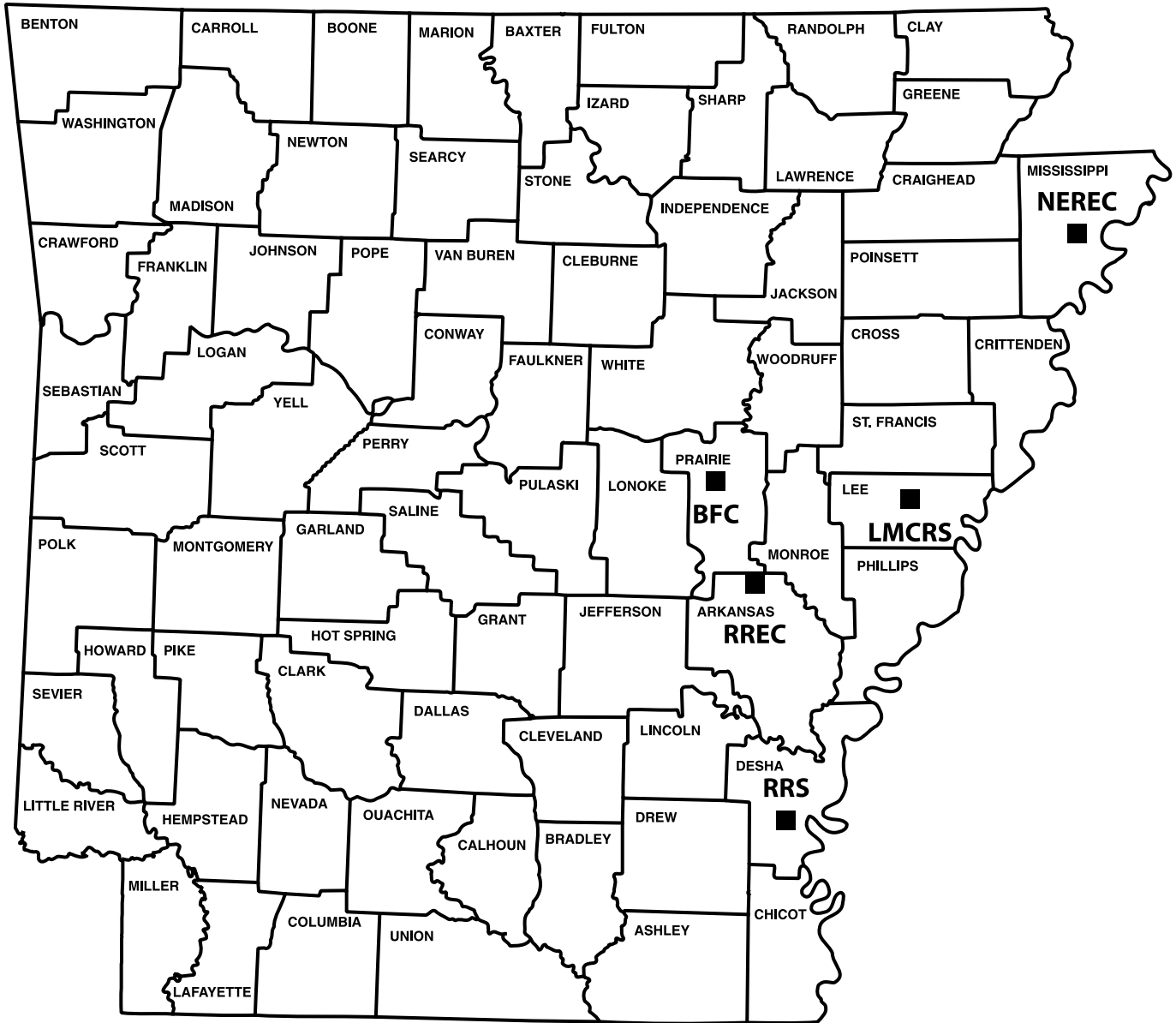
Trait Family	Product	Insects <b>Controlled</b> or <i>Suppressed</i>		Herbicide Tolerance
		(Above Ground)	(In Soil)	
<b>Optimum, cont.</b>	AcreMax1 (AM1)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	TRIssect (CHR)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	Intrasect TRIssect (CYHR)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	AcreMax TRIssect (AMT)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	Intrasect Xtra (YXR)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	AcreMax Xtra (AMX)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	Intrasect Xtreme (CYXR)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
	AcreMax Xtreme (AMXT)	BCW ECB FAW SB SWCB WBC <i>CEW</i>	RW	LL RR2
<b>YieldGard/ Genuity</b>	YieldGard CB (YGCB)	ECB SWCB <i>CEW FAW SB</i>	—	RR2
	YieldGard VT Rootworm	—	RW	RR2
	YieldGard VT Triple	ECB SWCB <i>CEW FAW SB</i>	RW	RR2
	Genuity VT Double PRO	CEW ECB FAW SB SWCB	—	RR2
	Genuity VT Double PRO RIB Complete	CEW ECB FAW SB SWCB	—	RR2
	Genuity VT Triple PRO	CEW ECB FAW SB SWCB	RW	RR2
	Genuity VT Triple PRO RIB Complete	CEW ECB FAW SB SWCB	RW	RR2
	Genuity VT SmartStax	BCW CEW ECB FAW SB SWCB WBC	RW	LL RR2
	Genuity VT SmartStax RIB Complete	BCW CEW ECB FAW SB SWCB WBC	RW	LL RR2
<b>Other Trait Families</b>	Powercore	BCW CEW ECB FAW SB SWCB WBC	—	LL RR2
	Powercore Refuge Advanced	BCW CEW ECB FAW SB SWCB WBC	—	LL RR2
	SmartStax	BCW CEW ECB FAW SB SWCB WBC	RW	LL RR2
	SmartStax Refuge Advanced	BCW CEW ECB FAW SB SWCB WBC	RW	LL RR2

# GRAIN SORGHUM TEST LOCATIONS



- LMCRS** - Lon Mann Cotton Research Station, Marianna, Arkansas
- NEREC** - Northeast Research and Extension Center, Keiser, Arkansas
- RREC** - Rice Research and Extension Center, Stuttgart, Arkansas
- RRS** - Rohwer Research Station, Rohwer, Arkansas

# CORN TEST LOCATIONS



- BFC** - Bell Farming Company, Des Arc, Arkansas
- LMCRS** - Lon Mann Cotton Research Station, Marianna, Arkansas
- NEREC** - Northeast Research and Extension Center, Keiser, Arkansas
- RREC** - Rice Research and Extension Center, Stuttgart, Arkansas
- RRS** - Rohwer Research Station





**DIVISION OF AGRICULTURE**  

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**RESEARCH & EXTENSION**

*University of Arkansas System*