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Arkansas Corn and Grain Sorghum Performance Tests 2019

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Arkansas

Corn and Grain Sorghum Performance Tests 2019

J.F. Carlin • R.D. Bond • J.A. Still

DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

ARKANSAS CROP VARIETY IMPROVEMENT PROGRAM

ARKANSAS AGRICULTURAL EXPERIMENT STATION

October 2019

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University of Arkansas System
Division of Agriculture
Fayetteville, Arkansas 72704

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Linda Martin, Program Technician II

Rice Research and Extension Center, Stuttgart
Bob Scott, Center Director
Jonathan McCoy, Program Technician III

Special thanks to Davis Bell for allowing us to conduct corn tests at the Bell Farming Company.

Report Statement

This Arkansas Agricultural Experiment Station (AAES) publication summarizes variety trial research conducted by the Arkansas Crop Variety Improvement Program. Variety trial information presented here furthers the AAES mission of conducting research that benefits the citizens of Arkansas by expanding agricultural profitability and strengthening local and state economies. This information is not a recommendation or an endorsement of any product by the University of Arkansas System Division of Agriculture or AAES. Recommendations interpreted from this information are made and presented by the Arkansas Cooperative Extension Service.

DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

ARKANSAS CROP VARIETY IMPROVEMENT PROGRAM

Contents

Arkansas Corn and Grain Sorghum Performance Tests[1] 2019

J.F. Carlin[2], R.D. Bond[3], and J.A. Still[4]

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 2019 corn performance tests contained 74 hybrids 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 2019 grain sorghum performance tests contained 19 hybrids 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 42 and inside the back cover, respectively.

Materials and Methods

Both corn and grain sorghum trials were designed as randomized complete blocks with four replications. Plots were two rows wide and 20–21 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 was used to plant the corn tests at the Stuttgart and Bell Farm locations which required 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 the 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. 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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[1] 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.

[2] Program Director, University of Arkansas System Division of Agriculture, Arkansas Agricultural Experiment Station, Fayetteville, 72704.

[3] Program Associate, University of Arkansas System Division of Agriculture, Arkansas Agricultural Experiment Station, Fayetteville, 72704.

[4] Program Technician III, University of Arkansas System Division of Agriculture, Arkansas Agricultural Experiment Station, Fayetteville, 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 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.

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 the 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://aaes.uark.edu/variety-testing/
Disease ratings that do not appear in this or other reports may also be found on this website.

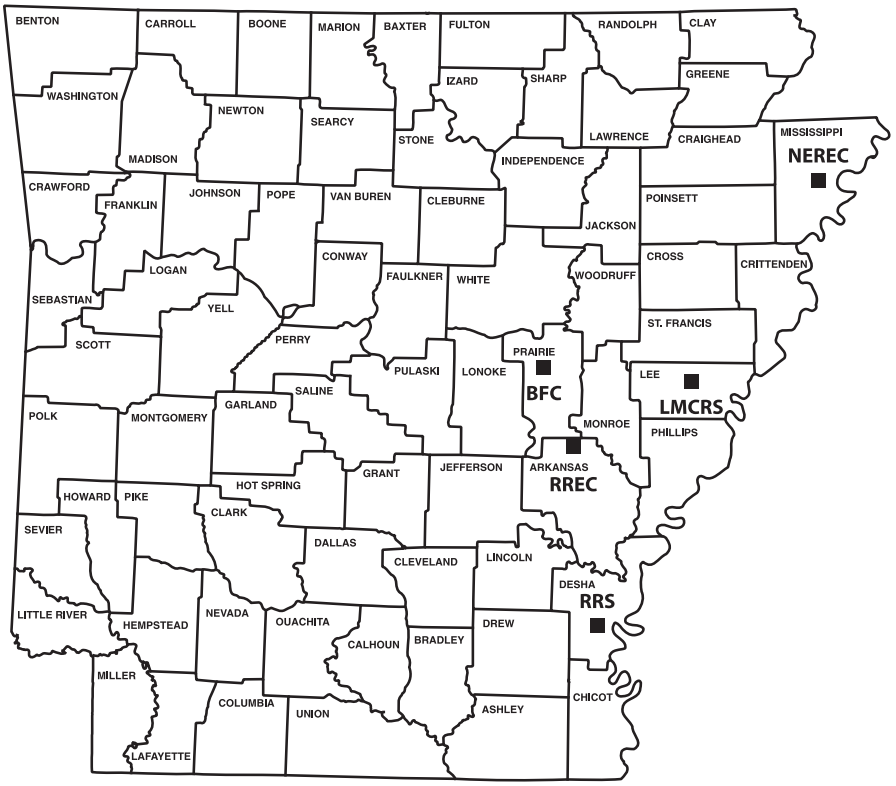
Table 1. Summary of Grain Sorghum and Corn Hybrid Arkansas Performance Tests, 2019.

Location	Irrigation	Row Spacing (in.)	Soil Type	Planting Date	Harvest Date	Trial Mean (bu./ac)
2019 Grain Sorghum Hybrid Performance Test Summary						
NEREC, Keiser, Ark.	Irrigated	38	Sharkey clay	4/24	8/27	125.3
NEREC, Keiser, Ark.	Non-Irrigated	38	Sharkey clay	4/24	8/27	123.1
LMCRS, Marianna, Ark.[a]	Irrigated	38	Calloway silt loam	•	•	•
RREC, Stuttgart, Ark.	Irrigated	30	Crowley silt loam	4/23	9/04	130.3
RRS, Rohwer, Ark.	Irrigated	38	Herbert silt loam	4/30	8/21	133.2
RRS, Rohwer, Ark.	Non-Irrigated	38	Herbert silt loam	4/30	8/21	134.8

Location	Irrigation	Row Spacing (in.)	Soil Type	Planting Date	Harvest Date	Trial Mean (bu./ac)
2019 Corn Hybrid Performance Test Summary						
NEREC, Keiser, Ark.	Irrigated	38	Sharkey clay	4/23	9/07	211.5
LMCRS, Marianna, Ark.	Irrigated	38	Calloway silt loam	4/24	9/03	221.4
RREC, Stuttgart, Ark.	Irrigated	30	Crowley silt loam	4/23	9/11	236.0
RRS, Rohwer, Ark.	Irrigated	38	Herbert silt loam	4/22	9/10	227.2
Bell Farming Co, Des Arc, Ark.	Irrigated	30	Calhoun silt loam	4/23	9/10	213.9

[a] The grain sorghum trial at Marianna was originally planted on April 24, but was replanted on May 30 due to poor stands caused by cool, wet weather conditions. The trial was ultimately discarded due to poor stands after replanting.

Test Locations 2019



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, Rohwer, Arkansas**

Table 2. Yields of Grain Sorghum Hybrids in Arkansas Performance Tests, 2019.[a, b]

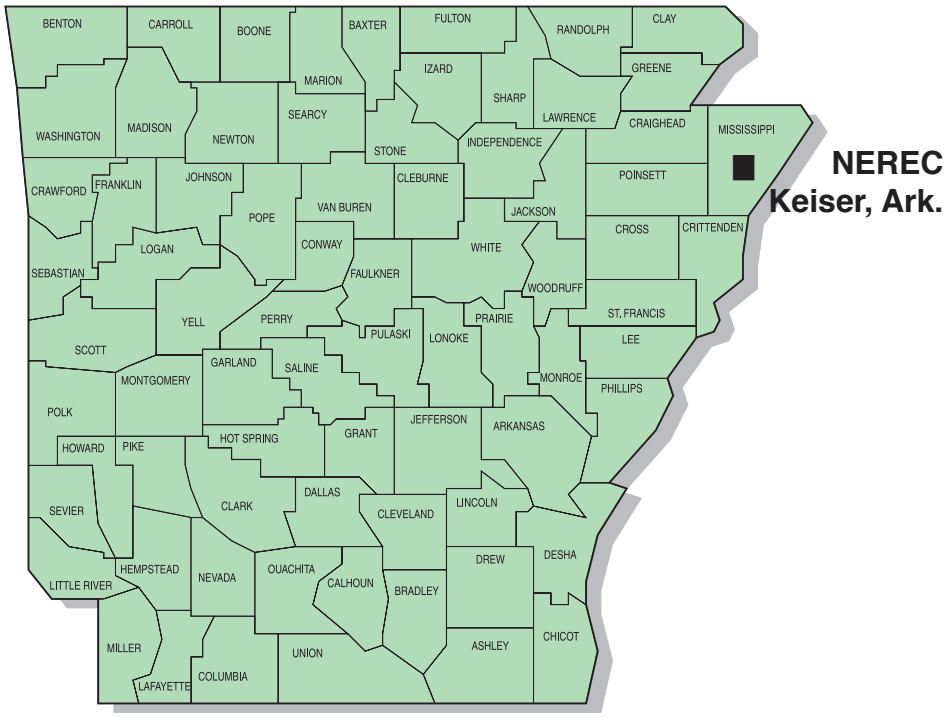
Hybrid Name	Keiser Irrigated	Keiser Non-Irrigated	Stuttgart Irrigated	Rohwer Irrigated	Rohwer Non-Irrigated	Average
	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)
DEKALB DKS 51-01	130.2	129.6	138.0	135.6	139.7	134.6
DEKALB DKS 53-53	134.1	128.2	156.5	138.6	153.9	142.2
DEKALB DKS 54-07	134.7	117.2	174.2	165.3	152.5	148.8
Dyna-Gro GX17457	138.0	130.0	111.0	136.9	148.9	132.9
Dyna-Gro GX17973	133.8	139.0	135.7	142.8	149.9	140.2
Dyna-Gro GX18395	118.1	128.9	88.4	119.4	113.4	113.6
Dyna-Gro GX18991	111.7	115.3	153.4	141.6	135.2	131.5
Dyna-Gro GX19981	121.3	115.6	153.3	145.8	143.8	135.9
Dyna-Gro M62GB77	98.2	104.6	76.6	109.5	121.6	102.1
Dyna-Gro M68GB18	136.3	126.3	129.3	138.6	136.1	133.3
Dyna-Gro M69GB38	129.8	123.9	162.0	147.9	140.6	140.8
Dyna-Gro M71GR04	137.8	126.4	137.8	121.2	137.4	132.1
Dyna-Gro M73GR55	105.4	101.8	140.2	141.7	142.2	126.2
Dyna-Gro M74GB17	117.5	112.7	127.7	119.4	109.0	117.3
Pioneer 83G19	130.9	129.7	138.8	137.5	138.4	135.0
Pioneer 84P80	143.1	140.8	137.1	132.6	139.1	138.5
REV 9620	121.8	115.6	106.5	128.5	128.7	120.2
SP 68M57	126.3	124.9	109.9	111.2	117.3	117.9
SP 74C40	111.5	104.5	113.3	126.3	126.8	116.5
SP 74M21	102.5	118.1	136.2	121.6	119.9	119.6
SP 7715	148.0	151.5	111.0	136.7	136.5	136.7
GRAND MEAN	125.3	123.1	130.3	133.2	134.8	129.3
LSD (5%)	11.3	13.1	11.9	10.9	10.8	11.6
C.V.	7.6	9.0	6.6	6.9	6.8	7.4

[a] Keiser = Notheast 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.

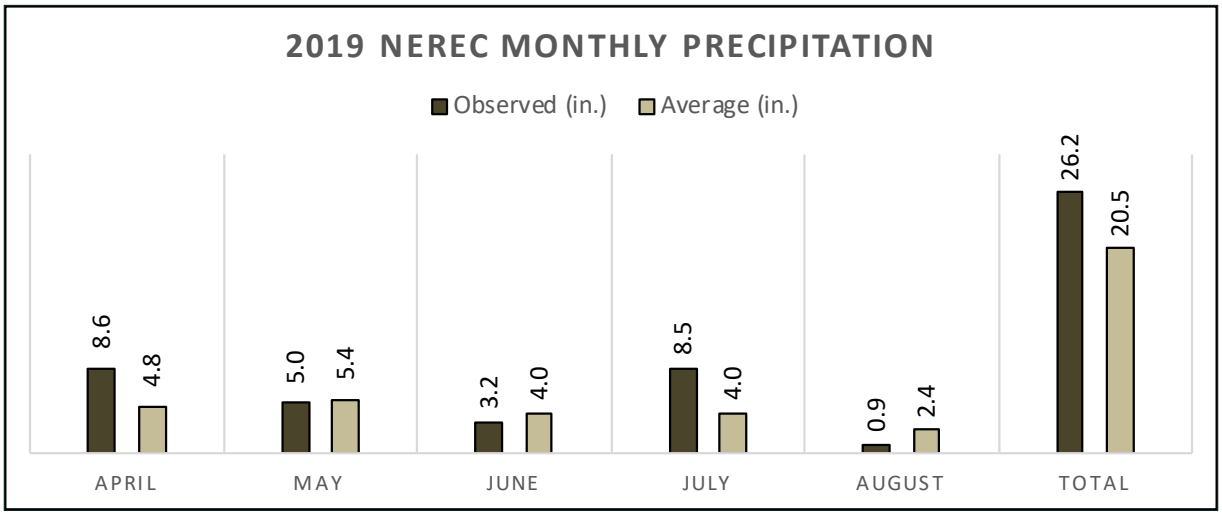
[b] The grain sorghum trial at Marianna was originally planted on April 24, but was replanted on May 30 due to poor stands caused by cool, wet weather conditions. The trial was ultimately discarded due to poor stands after replanting.

Keiser: Northeast Research and Extension Center (NEREC)

Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2019



NEREC
Keiser, Ark.



Soil Series:	Sharkey clay
Previous Crop:	Fallow
Soil pH	7.0
Row Spacing:	38 in.
Planting Date:	April 24
Irrigation Dates:	August 9
Harvest Date:	August 27

Fertilizer Application(s):	108 lb/ac N	May 16
	108 lb/ac N	May 27
Herbicide Application(s):	Dual II Magnum + Atrazine + Roundup	April 24
	Herbivore	May 16
	Atrazine + Facet + Charger Basic	May 24
	Facet + Atrazine	June 11
	Roundup	August 19
Other Application(s):	Avian Control	July 30

Table 3. Performance of Irrigated Grain Sorghum Hybrids, NEREC, Keiser, Ark., 2019.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Plant Height	Head Exertion	Head[c] Comp.	Bird Damage
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)	(in.)		(%)
SP 7715	148.0	139.0	•	18.0	56	9	3	5
Pioneer 84P80	143.1	140.2	•	17.0	53	4	3	13
Dyna-Gro GX17457	138.0	•	•	16.7	52	4	2	15
Dyna-Gro M71GR04	137.8	131.6	129.8	17.9	57	4	2	6
Dyna-Gro M68GB18	136.3	•	•	18.1	57	7	2	8
DEKALB DKS 54-07	134.7	•	•	18.0	61	7	2	4
DEKALB DKS 53-53	134.1	135.0	123.0	18.2	59	7	3	5
Dyna-Gro GX17973	133.8	•	•	16.3	60	10	1	14
Pioneer 83G19	130.9	136.0	•	18.1	55	4	5	5
DEKALB DKS 51-01	130.2	139.7	134.8	17.1	58	8	3	9
Dyna-Gro M69GB38	129.8	144.8	•	17.9	60	10	1	13
SP 68M57	126.3	•	•	17.1	50	4	2	6
REV 9620	121.8	•	•	17.0	62	9	4	8
Dyna-Gro GX19981	121.3	•	•	18.1	56	9	2	4
Dyna-Gro GX18395	118.1	•	•	17.3	52	6	3	9
Dyna-Gro M74GB17	117.5	137.0	122.2	17.0	55	6	2	15
Dyna-Gro GX18991	111.7	•	•	18.1	62	4	2	3
SP 74C40	111.5	•	•	18.6	50	5	2	5
Dyna-Gro M73GR55	105.4	130.1	127.7	17.9	56	6	2	6
SP 74M21	102.5	•	•	18.3	52	8	2	4
Dyna-Gro M62GB77	98.2	•	•	16.6	54	10	1	23
GRAND MEAN	125.3	•	•	17.6	56	7	2	8
LSD (5%)	11.3	•	•	0.5	•	•	•	•
C.V.	7.6	•	•	2.6	•	•	•	•

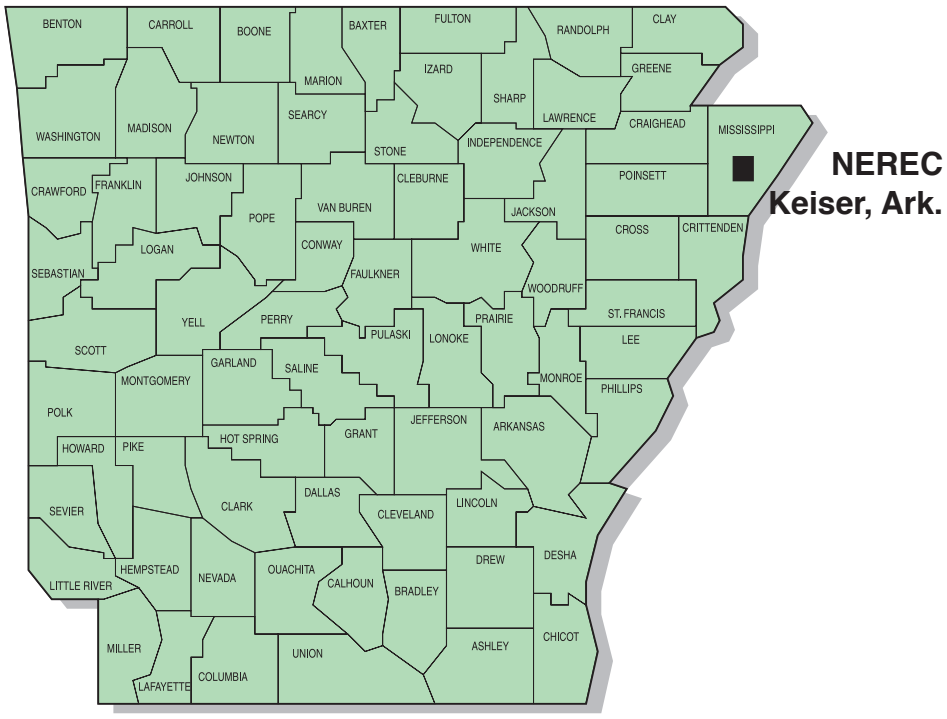
[a] Average yield for 2018 and 2019.

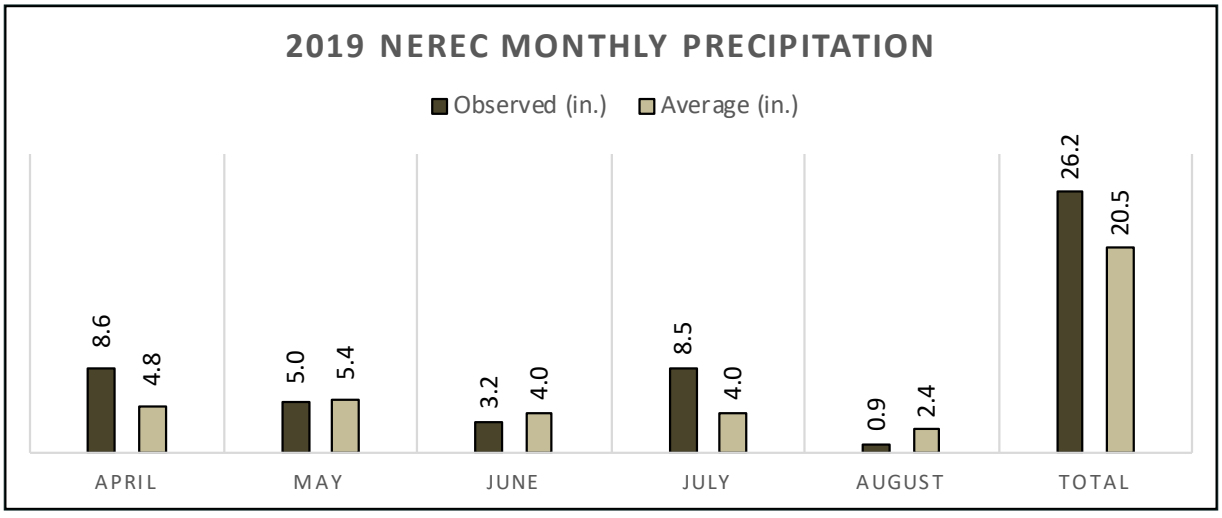
[b] Average yield for 2017, 2018, and 2019.

[c] 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, 2019





Soil Series:	Sharkey clay
Previous Crop:	Fallow
Soil pH	7.0
Row Spacing:	38 in.
Planting Date:	April 24
Harvest Date:	August 27

Fertilizer Application(s):	108 lb/ac N	May 16
	108 lb/ac N	May 27
Herbicide Application(s):	Dual II Magnum + Atrazine + Roundup	April 24
	Herbivore	May 16
	Atrazine + Facet + Charger Basic	May 24
	Facet + Atrazine	June 11
	Roundup	August 19
Other Application(s):	Avian Control	July 30

Table 4. Performance of Non-Irrigated Grain Sorghum Hybrids, Keiser, Ark., 2019.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Plant Height	Head Exertion	Head[c] Comp.	Bird Damage
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)	(in.)		(%)
SP 7715	151.5	143.7	•	17.9	56	5	3	6
Pioneer 84P80	140.8	137.1	•	16.9	55	4	3	9
Dyna-Gro GX17973	139.0	•	•	16.2	58	8	5	14
Dyna-Gro GX17457	130.0	•	•	16.7	56	7	2	10
Pioneer 83G19	129.7	129.5	•	18.0	54	3	5	7
DEKALB DKS 51-01	129.6	140.8	135.2	16.9	58	7	3	11
Dyna-Gro GX18395	128.9	•	•	17.1	53	4	3	6
DEKALB DKS 53-53	128.2	135.9	131.9	18.0	56	9	2	7
Dyna-Gro M71GR04	126.4	126.1	133.0	17.9	58	4	2	3
Dyna-Gro M68GB18	126.3	•	•	18.2	60	6	2	9
SP 68M57	124.9	•	•	16.7	50	8	3	5
Dyna-Gro M69GB38	123.9	128.4	•	18.1	58	10	2	7
SP 74M21	118.1	•	•	17.7	51	4	3	11
DEKALB DKS 54-07	117.2	•	•	18.2	58	8	2	10
REV 9620	115.6	•	•	16.9	62	9	3	10
Dyna-Gro GX19981	115.6	•	•	18.9	56	8	2	9
Dyna-Gro GX18991	115.3	•	•	18.2	62	6	2	6
Dyna-Gro M74GB17	112.7	113.3	118.9	17.2	54	6	3	9
Dyna-Gro M62GB77	104.6	•	•	16.7	54	9	1	11
SP 74C40	104.5	•	•	18.8	51	3	2	7
Dyna-Gro M73GR55	101.8	119.1	116.8	18.0	54	7	2	5
GRAND MEAN	123.1	•	•	17.6	56	6	3	8
LSD (5%)	13.1	•	•	0.6	•	•	•	•
C.V.	9.0	•	•	2.8	•	•	•	•

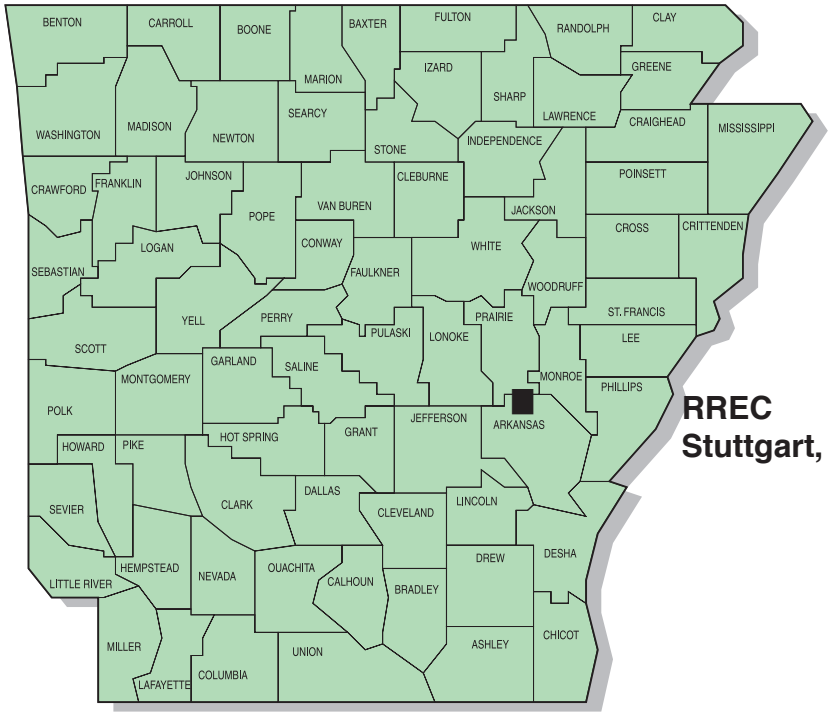
[a] Average yield for 2018 and 2019.

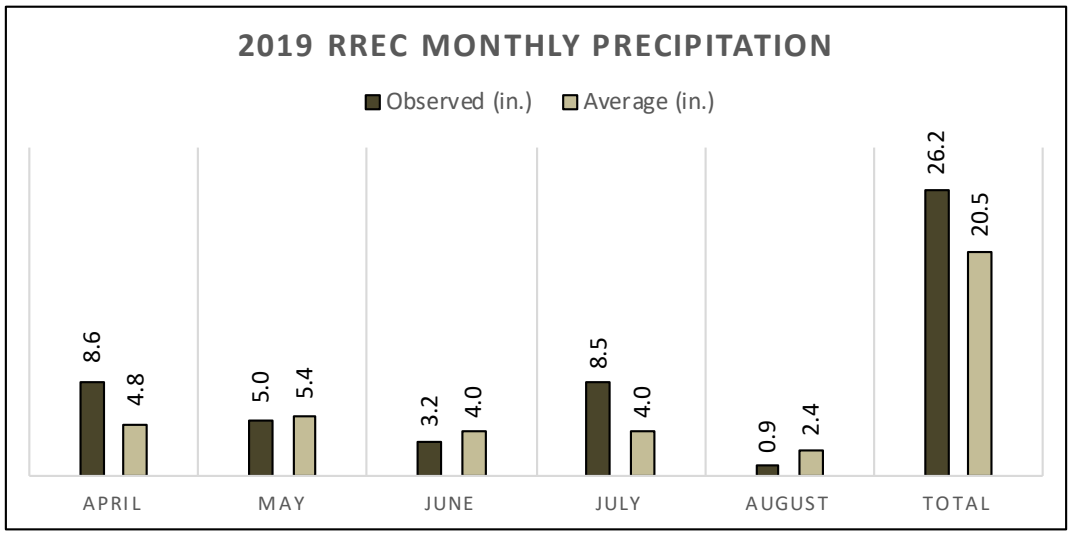
[b] Average yield for 2017, 2018, and 2019.

[c] 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, 2019





Soil Series:	Crowley silt loam
Row Spacing:	30"
Soil pH:	6.2
Planting Date:	April 23
Irrigation Dates:	June 21 July 4 August 8
Harvest Date:	September 4

Fertilizer Application(s):	80 lb/ac N, 92 lb/ac P, 90 lb/ac K, 24 lb/ac S, 10 lb/ac Zn	April 1
	115 lb/ac N	May 30
	92 lb/ac N	June 19
Herbicide Application(s):	Dual II Magnum + Atrazine	April 24
	RoundUp + Aim	August 16
Insecticide Application(s):	Ravage + Sivanto	June 28
	Ravage + Sivanto	July 10

Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, Ark., 2019.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Plant Height	Head Exertion	Head[c] Comp.	Bird Damage
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)	(in.)		(%)
DEKALB DKS 54-07	174.2	•	•	11.7	63	5	2	17
Dyna-Gro M69GB38	162.0	164.4	•	11.5	64	10	4	23
DEKALB DKS 53-53	156.5	155.6	167.8	11.5	56	5	3	17
Dyna-Gro GX18991	153.4	•	•	11.4	62	4	1	20
Dyna-Gro GX19981	153.3	•	•	11.7	57	5	2	27
Dyna-Gro M73GR55	140.2	142.0	158.5	12.8	62	4	2	7
Pioneer 83G19	138.8	147.9	•	11.4	61	4	4	30
DEKALB DKS 51-01	138.0	146.2	160.8	11.6	64	8	3	37
Dyna-Gro M71GR04	137.8	153.8	163.8	11.4	60	4	3	25
Pioneer 84P80	137.1	149.7	•	11.5	56	5	4	35
SP 74M21	136.2	•	•	11.5	58	9	1	27
Dyna-Gro GX17973	135.7	•	•	11.3	65	6	4	38
Dyna-Gro M68GB18	129.3	•	•	11.5	62	4	3	33
Dyna-Gro M74GB17	127.7	143.3	150.9	11.5	55	4	3	32
SP 74C40	113.3	•	•	11.6	54	5	1	42
Dyna-Gro GX17457	111.0	•	•	11.2	58	5	3	52
SP 7715	111.0	128.5	•	11.6	58	7	1	35
SP 68M57	109.9	•	•	11.2	54	5	2	33
REV 9620	106.5	•	•	11.2	60	5	2	43
Dyna-Gro GX18395	88.4	•	•	11.2	54	7	3	47
Dyna-Gro M62GB77	76.6	•	•	11.0	53	6	1	53
GRAND MEAN	130.3	•	•	11.5	59	6	2	32
LSD (5%)	11.9	•	•	0.7	•	•	•	11
C.V.	6.6	•	•	4.1	•	•	•	26

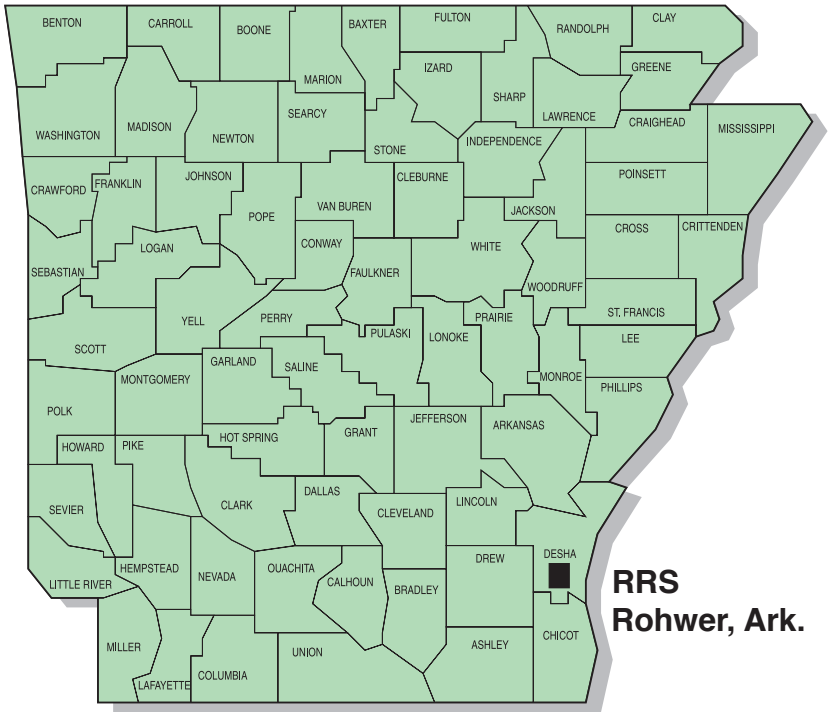
[a] Average yield for 2018 and 2019.

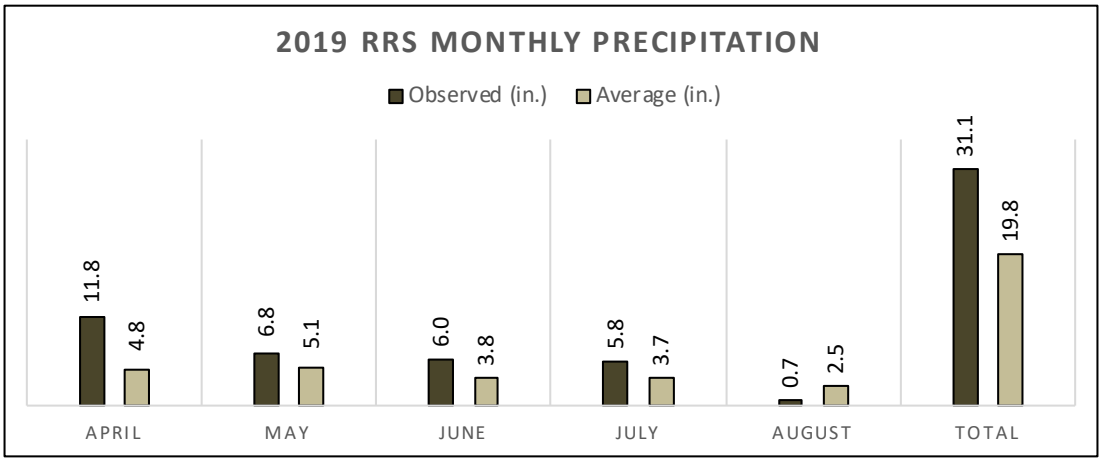
[b] Average yield for 2017, 2018, and 2019.

[c] 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, 2019





Soil Series:	Herbert silt loam
Previous Crop:	Soybean
Row Spacing:	38"
Planting Date:	April 30
Irrigation Dates:	June 17 July 3 July 31
Harvest Date:	August 21

Fertilizer Application(s):	0-0-60 150 lb/ac	April 29
	32% liquid N, 25 gal/ac	May 28
	32% liquid N, 25 gal/ac	June 3
Herbicide Application(s):	Dual II Magnum + Atrazine	April 30
	Huskie	May 30
	Dual II Magnum + Atrazine	June 3
Insecticide Application(s):	Sivanto	July 9
	Sivanto + Prevathon	July 25

Table 6. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, Ark., 2019.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b.] Avg.	Grain Moisture	Plant Height	Head Exertion	Head[c] Comp.
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)	(in.)	
DEKALB DKS 54-07	165.3	•	•	16.2	68	6	3
Dyna-Gro M69GB38	147.9	149.7	•	16.9	70	10	3
Dyna-Gro GX19981	145.8	•	•	16.9	61	4	3
Dyna-Gro GX17973	142.8	•	•	14.7	68	8	4
Dyna-Gro M73GR55	141.7	142.1	142.3	15.8	67	2	3
Dyna-Gro GX18991	141.6	•	•	15.8	67	4	3
DEKALB DKS 53-53	138.6	150.1	148.9	15.5	62	6	3
Dyna-Gro M68GB18	138.6	•	•	17.3	69	4	3
Pioneer 83G19	137.5	142.6	•	15.6	65	4	4
Dyna-Gro GX17457	136.9	•	•	14.9	58	4	2
SP 7715	136.7	137.4	•	16.7	65	10	2
DEKALB DKS 51-01	135.6	141.9	145.1	15.9	65	6	3
Pioneer 84P80	132.6	144.7	•	15.0	59	6	4
REV 9620	128.5	•	•	14.5	67	6	4
SP 74C40	126.3	•	•	20.2	58	4	3
SP 74M21	121.6	•	•	20.2	58	4	4
Dyna-Gro M71GR04	121.2	127.5	138.3	15.5	68	4	2
Dyna-Gro M74GB17	119.4	131.8	135.5	18.0	67	6	2
Dyna-Gro GX18395	119.4	•	•	16.2	62	8	4
SP 68M57	111.2	•	•	16.3	55	4	3
Dyna-Gro M62GB77	109.5	•	•	14.0	60	10	4
GRAND MEAN	133.2	•	•	16.3	64	6	3
LSD (5%)	10.9	•	•	0.9	•	•	•
C.V.	6.9	•	•	4.5	•	•	•

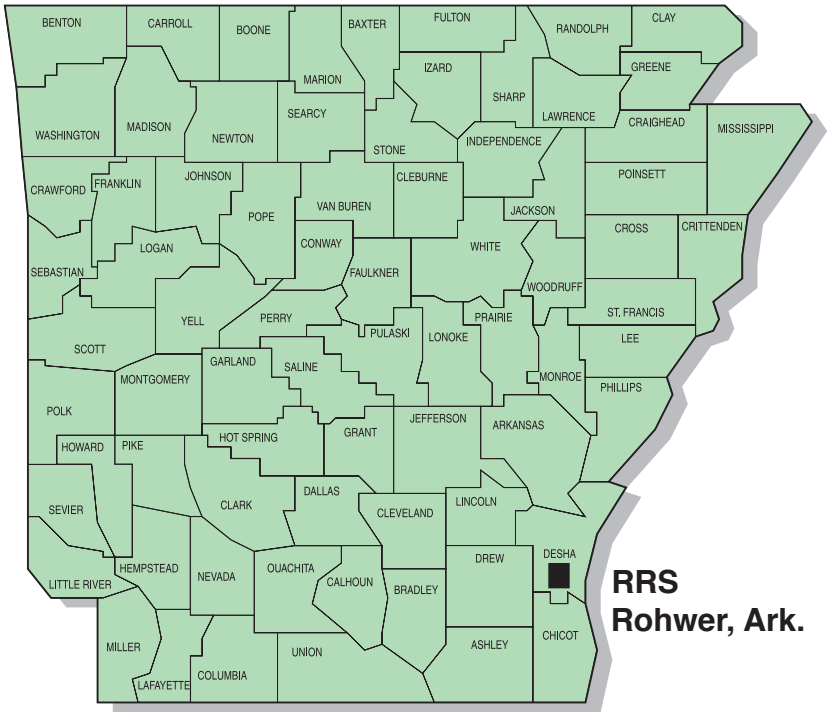
[a] Average yield for 2018 and 2019.

[b] Average yield for 2017, 2018, and 2019.

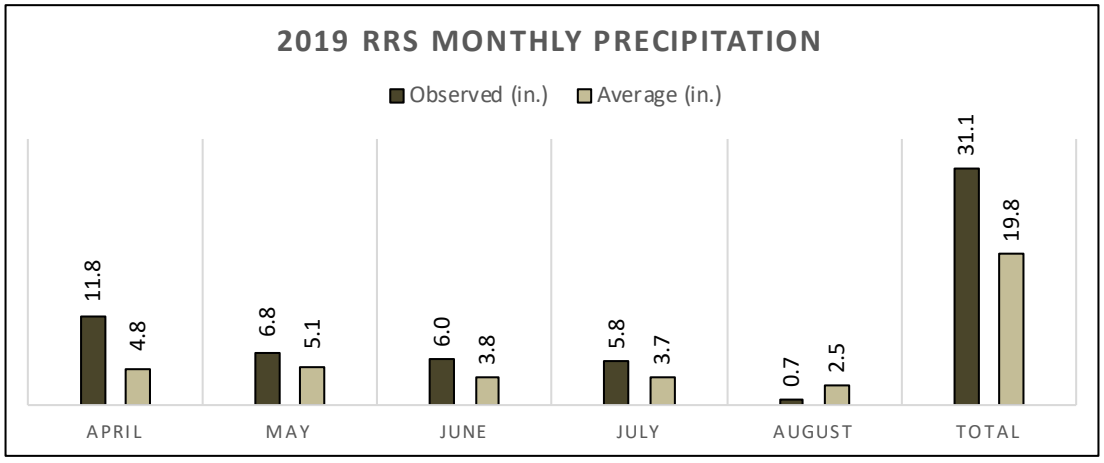
[c] 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short; 3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength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

Rohwer: Rohwer Research Station (RRS)

Non-Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2019



RRS
Rohwer, Ark.



Soil Series:	Herbert silt loam
Previous Crop:	Soybean
Row Spacing:	38"
Planting Date:	April 30
Harvest Date:	August 21

Fertilizer Application(s):	0-0-60 150 lb/ac	April 29
	32% liquid N, 25 gal/ac	May 28
	32% liquid N, 25 gal/ac	June 3
Herbicide Application(s):	Dual II Magnum + Atrazine	April 30
	Huskie	May 30
	Dual II Magnum + Atrazine	June 3
Insecticide Application(s):	Sivanto	July 9
	Sivanto + Prevathon	July 25

Table 7. Performance of Non-Irrigated Grain Sorghum Hybrids, Rohwer, Ark., 2019.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Plant Height	Head Exertion	Head[c] Comp.
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)	(in.)	
DEKALB DKS 53-53	153.9	151.6	147.4	17.5	61	4	4
DEKALB DKS 54-07	152.5	•	•	18.0	70	10	4
Dyna-Gro GX17973	149.9	•	•	15.4	68	8	4
Dyna-Gro GX17457	148.9	•	•	15.2	64	3	2
Dyna-Gro GX19981	143.8	•	•	18.3	58	4	3
Dyna-Gro M73GR55	142.2	129.7	130.4	16.7	66	4	3
Dyna-Gro M69GB38	140.6	138.3	•	17.8	66	10	3
DEKALB DKS 51-01	139.7	142.0	143.4	13.0	65	6	3
Pioneer 84P80	139.1	150.0	•	16.3	60	2	3
Pioneer 83G19	138.4	129.6	•	16.5	65	2	4
Dyna-Gro M71GR04	137.4	130.4	135.1	16.9	68	6	3
SP 7715	136.5	128.6	•	18.3	60	4	2
Dyna-Gro M68GB18	136.1	•	•	17.8	66	6	3
Dyna-Gro GX18991	135.2	•	•	17.2	67	3	4
REV 9620	128.7	•	•	14.7	69	4	4
SP 74C40	126.8	•	•	20.7	57	2	4
Dyna-Gro M62GB77	121.6	•	•	14.8	63	10	4
SP 74M21	119.9	•	•	20.2	61	6	4
SP 68M57	117.3	•	•	18.3	55	2	2
Dyna-Gro GX18395	113.4	•	•	17.9	62	8	4
Dyna-Gro M74GB17	109.0	110.5	123.3	18.9	64	6	3
GRAND MEAN	134.8	•	•	17.1	64	5	3
LSD (5%)	10.8	•	•	2.3	•	•	•
C.V.	6.8	•	•	11.3	•	•	•

[a] Average yield for 2018 and 2019.

[b] Average yield for 2017, 2018, and 2019.

[c] 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, 2019[a,b].

Hybrid Name	Maturity	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
		(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)
AgriGold A644-32TRCRIB	114	222.3	224.2	240.0	244.0	217.4	229.6
AgriGold A645-16VT2PRO	115	218.4	244.7	254.9	225.3	228.3	234.3
AgriGold A647-46VT2PRO	117	218.6	231.7	232.1	223.3	235.4	228.2
AgriGold A6544VT2RIB	113	221.5	237.7	239.2	230.5	246.8	235.1
AgriGold A6572VT2RIB	114	223.4	222.2	251.9	239.3	215.2	230.4
AgriGold A6659VT2RIB	116	217.0	226.3	240.9	207.2	169.9	212.2
Armor A1118 VT2P	111	208.0	222.7	229.3	230.0	230.3	224.1
Armor A1299 VT2P	112	206.1	215.4	236.7	222.8	209.0	218.0
Armor A1688T	116	199.3	218.9	230.6	247.8	229.9	225.3
Armor A1778 VT2P	117	206.4	235.6	231.6	233.6	233.8	228.2
Armor A1810 VT2P	119	196.9	216.4	226.2	234.2	212.6	217.2
Armor X9115 VT2P	115	193.7	217.3	259.0	223.3	213.4	221.3
Armor X9115B VT2P	115	210.0	237.5	255.7	221.4	226.4	230.2
BH 8721VT2P	116	218.5	224.3	235.0	225.5	204.5	221.5
BH XP 8509TRE	116	208.0	212.1	231.3	241.2	240.3	226.6
BH XP 8780SS	115	213.0	215.1	243.1	204.5	181.4	211.4
Croplan C5678 VT2P	116	213.5	206.8	241.6	207.3	170.1	207.9
DEKALB DKC 62-53	112	230.0	235.6	232.5	229.8	206.7	226.9
DEKALB DKC 65-95	115	222.3	228.4	231.4	242.1	208.5	226.5
DEKALB DKC 65-99	115	219.0	231.1	246.6	260.1	229.0	234.1
DEKALB DKC 66-75	116	229.6	236.2	248.6	221.5	220.2	231.2
DEKALB DKC 67-44	117	226.8	231.2	256.5	234.9	229.0	235.6
DEKALB DKC 68-69	118	218.0	236.2	252.2	236.5	231.4	234.8
DEKALB DKC 70-27	120	220.5	240.4	258.3	245.7	208.1	234.6
Dyna-Gro D54VC14	114	219.1	215.0	226.8	222.7	223.8	221.5
Dyna-Gro D55VC80	115	216.8	212.7	258.5	232.7	221.2	228.4
Dyna-Gro D57VC17	117	214.4	224.2	235.6	229.1	222.5	225.2
Dyna-Gro D57VC51	117	208.1	223.5	224.3	229.4	206.0	218.2
Dyna-Gro D58VC65	118	212.1	214.3	237.1	207.9	217.5	217.8
Hefty H6214	112	194.2	217.1	220.1	216.6	182.2	206.0
Hefty H6532	115	207.0	204.3	215.1	207.4	203.9	207.5
Hefty H6635	116	202.9	206.2	211.9	202.3	197.0	204.1
Hefty H6714	117	211.0	223.9	238.5	226.8	206.3	221.3
LG5643VT2RIB	114	217.3	236.7	238.2	230.2	230.2	230.5
LG5650VT2RIB	115	242.5	225.4	233.9	239.4	231.5	234.5
LG62C02VT2RIB	112	196.9	204.9	210.8	215.8	197.5	205.2
LG64C30TRC	114	208.7	222.9	242.8	235.8	219.9	226.0
Local AV7516 YHB	116	225.3	221.2	248.9	236.4	218.9	230.2
Local AV8614 YHB	114	224.9	218.9	243.7	242.5	242.1	234.4

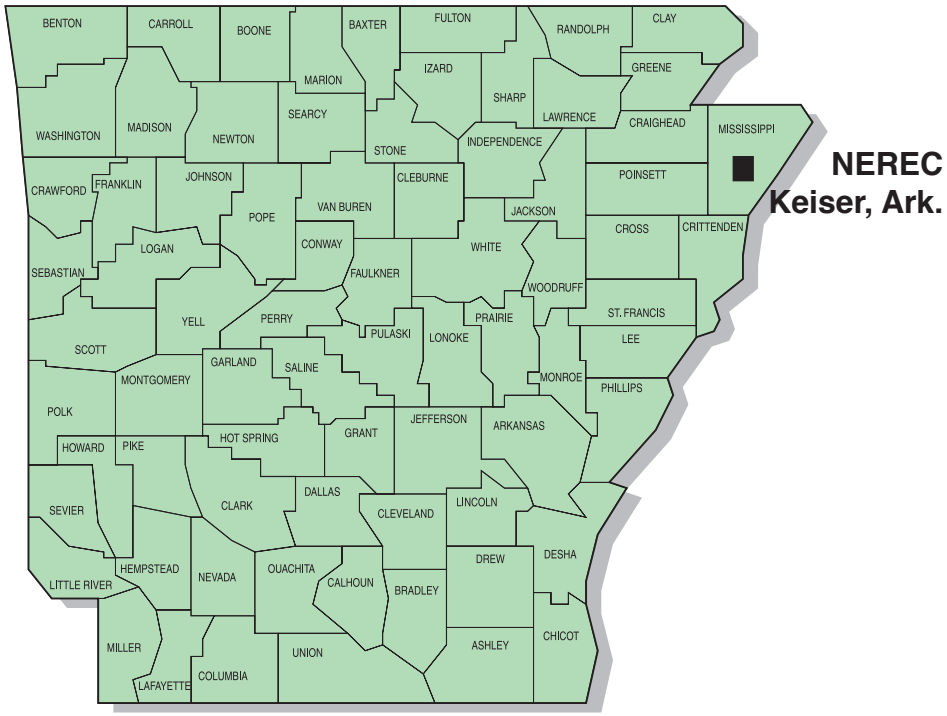
Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2019[a,b], continued.

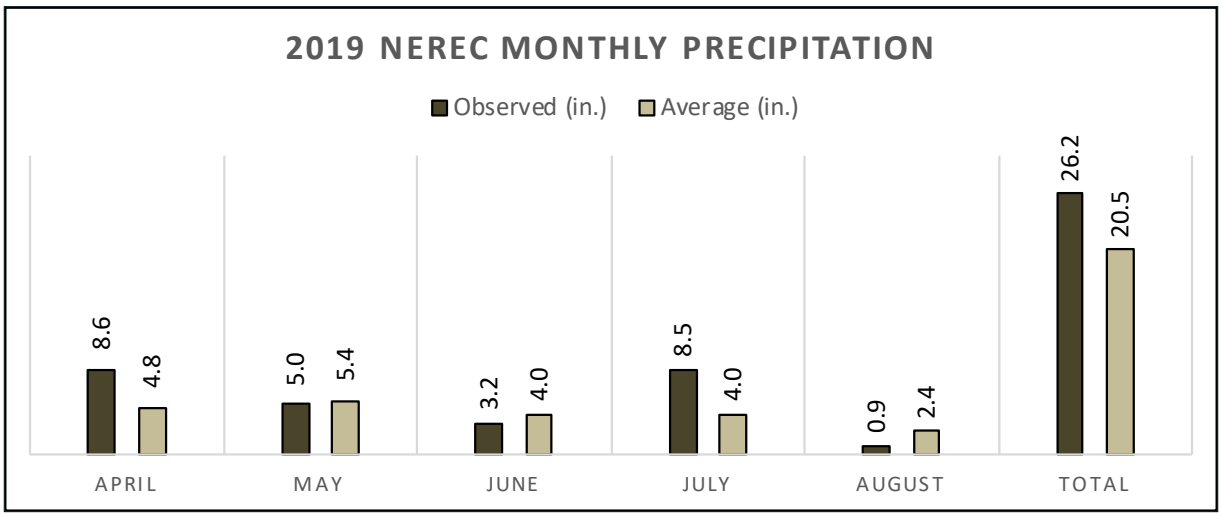
Hybrid Name	Maturity	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
		(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)	(bu./ac)
Local LC0877 VT2P	108	197.9	190.6	203.3	202.2	203.7	199.5
Local LC1289 VT2P	112	191.3	218.1	238.4	217.4	204.6	214.0
Local LC1488 VT2P	114	213.2	218.1	235.4	220.2	191.5	215.7
Local LC1577 VT2P	115	218.4	220.4	229.0	233.3	229.8	226.2
Local LC1586 TC	115	203.0	217.0	213.2	232.8	212.2	215.6
Local LC1776 VT2P	117	203.0	226.8	227.1	232.0	229.5	223.7
Local LC1795 VT2P	118	218.8	223.2	242.8	228.6	197.8	222.2
Local LC1878 VT2P	119	202.5	227.0	237.6	236.6	216.3	224.0
Local LC1987 VT2P	116	210.7	217.7	233.5	206.7	216.7	217.1
Local LCX16-91	117	198.3	212.2	230.3	224.7	209.4	215.0
Mission A1687VT2P	116	222.6	222.6	232.2	235.8	200.9	222.8
Pioneer P1464VYHR	114	225.6	231.3	255.8	238.3	228.0	235.8
Pioneer P1847VYHR	118	205.9	218.7	233.9	255.9	216.2	226.1
Pioneer P1870YHR	118	204.7	214.8	247.1	238.5	228.0	226.6
Progeny PGY 5115VT2P	115	214.4	224.1	219.3	214.5	205.1	215.5
Progeny PGY 6116VT2P	116	212.7	220.5	231.1	230.4	218.4	222.6
Progeny PGY 6119VT2P	119	205.9	215.9	217.4	223.5	192.3	211.0
Progeny PGY 8116SS	116	225.4	234.1	239.4	230.4	205.8	227.0
Progeny PGY 9114VT2P	114	208.4	230.2	214.9	230.9	217.9	220.5
Progeny PGY 9117VT2P	117	208.5	229.6	239.9	229.2	208.0	223.0
Progeny PGY EXP1912	112	229.1	220.9	233.3	227.2	209.5	224.0
Progeny PGY EXP1913	113	183.3	211.3	248.4	214.6	203.9	212.3
Progeny PGY EXP1915	115	208.0	218.5	232.8	222.1	203.4	217.0
Progeny PGY EXP1918	118	210.6	223.7	215.6	222.8	216.5	217.9
REV 24BHR70	114	189.6	207.7	226.0	236.6	205.9	213.2
REV 24BHR99	114	214.8	212.7	248.2	218.3	180.2	214.8
REV 25BHR80	115	224.3	235.5	256.3	253.2	218.2	237.5
REV 25BHR89	115	223.8	222.6	252.7	241.9	247.7	237.7
REV 26BHR30	116	212.9	223.2	245.1	244.6	236.7	232.5
REV 2858SXE	118	192.7	216.0	235.3	211.2	217.9	214.6
REV 28BHR18	118	210.5	207.5	249.8	215.6	210.6	218.8
Taylor EXP 88-13	113	194.6	217.5	227.5	222.9	223.7	217.2
Taylor EXP 88-14	114	208.7	214.0	214.7	206.5	216.4	212.0
Taylor EXP 88-16	116	201.7	212.0	242.7	198.1	186.8	208.2
Taylor EXP 88-17	117	194.2	210.5	225.8	211.6	203.9	209.2
GRAND MEAN		211.5	221.4	236.0	227.2	213.9	222.0
LSD (5%)		17.8	17.3	18.0	13.0	22.2	17.7
C.V.		7.2	6.7	6.5	4.9	7.7	6.6

[a] 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.

Keiser: Northeast Research and Extension Center (NEREC)

Irrigated Corn Hybrids Trial Summary, 2019





Soil Series:	Sharkey clay
Previous Crop:	Fallow
Soil pH	7.0
Row Spacing:	38 in.
Planting Date:	April 23
Irrigation Date(s):	June 26 July 3 August 9
Harvest Date:	September 7

Fertilizer Application(s):	100 lb/ac N	May 16
	150 lb/ac N	May 27
Herbicide Application(s):	Dual II Magnum + Atrazine + Roundup	April 23
	Herbivore	May 16
	Acuron	May 25
Other Application(s):	Besiege + Tivapro	June 26

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2019.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Ear Height	Tip[c] Cover	Plants Per Acre
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)		
LG5650VT2RIB	242.5	247.0	235.9	17.9	33	1	34742
DEKALB DKC 62-53	230.0	238.6	•	16.7	31	2	36418
DEKALB DKC 66-75	229.6	248.9	•	19.2	32	1	37300
Progeny PGY EXP1912	229.1	•	•	16.9	30	1	36947
DEKALB DKC 67-44	226.8	242.6	235.0	20.6	26	1	34742
Pioneer P1464VYHR	225.6	•	•	20.0	34	1	32803
Progeny PGY 8116SS	225.4	235.1	229.3	19.4	34	1	38622
Local AV7516 YHB	225.3	•	•	21.7	30	1	33773
Local AV8614 YHB	224.9	•	•	19.4	34	2	34390
REV 25BHR80	224.3	•	•	20.9	29	1	34390
REV 25BHR89	223.8	219.5	•	18.5	34	3	34654
AgriGold A6572VT2RIB	223.4	230.0	219.2	17.5	31	2	36506
Mission A1687VT2P	222.6	•	•	19.2	29	2	37300
DEKALB DKC 65-95	222.3	237.1	227.9	18.5	29	1	34301
AgriGold A644-32TRCRIB	222.3	•	•	17.6	30	2	33949
AgriGold A6544VT2RIB	221.5	239.1	229.3	19.3	32	1	35007
DEKALB DKC 70-27	220.5	236.4	229.5	21.6	29	1	34654
Dyna-Gro D54VC14	219.1	238.0	•	17.6	27	2	33331
DEKALB DKC 65-99	219.0	•	•	17.7	30	1	36506
Local LC1795 VT2P	218.8	•	•	18.4	27	1	34742
AgriGold A647-46VT2PRO	218.6	•	•	19.2	35	1	32538
BH 8721VT2P	218.5	239.0	•	19.7	29	2	33772
AgriGold A645-16VT2PRO	218.4	•	•	19.0	30	2	35183
Local LC1577 VT2P	218.4	231.7	•	17.7	29	1	36241
DEKALB DKC 68-69	218.0	230.2	•	21.5	27	1	36947
LG5643VT2RIB	217.3	236.1	233.9	18.3	29	1	33684
AgriGold A6659VT2RIB	217.0	240.9	236.3	19.0	28	2	35713
Dyna-Gro D55VC80	216.8	•	•	18.9	34	2	35007
REV 24BHR99	214.8	238.2	•	19.1	28	1	35007
Dyna-Gro D57VC17	214.4	•	•	19.6	28	2	35095
Progeny PGY 5115VT2P	214.4	236.0	228.3	18.3	29	1	40298
Croplan C5678 VT2P	213.5	•	•	19.1	28	2	36065
Local LC1488 VT2P	213.2	•	•	16.2	32	1	36153
BH XP 8780SS	213.0	•	•	21.6	29	2	33420
REV 26BHR30	212.9	•	•	20.6	27	3	33155
Progeny PGY 6116VT2P	212.7	241.3	240.0	20.0	32	1	35712
Dyna-Gro D58VC65	212.1	233.3	226.9	18.9	29	1	33596
Hefty H6714	211.0	•	•	20.1	32	1	34389
Local LC1987 VT2P	210.7	217.2	•	20.2	32	2	35536
Progeny PGY EXP1918	210.6	•	•	17.8	28	2	34213
REV 28BHR18	210.5	233.6	228.7	21.0	32	2	33773

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2019, continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Ear Height	Tip[c] Cover	Plants Per Acre
	(bu./ac)	(bu./ac)	(bu./ac)	(%)	(in.)		
Armor X9115B VT2P	210.0	•	•	17.8	27	2	32538
LG64C30TRC	208.7	•	•	17.8	28	1	31127
Taylor EXP 88-14	208.7	•	•	18.7	31	3	32979
Progeny PGY 9117VT2P	208.5	•	•	20.1	28	1	33508
Progeny PGY 9114VT2P	208.4	•	•	17.4	27	2	37564
Dyna-Gro D57VC51	208.1	•	•	18.4	30	1	33420
Progeny PGY EXP1915	208.0	•	•	18.8	32	1	36947
Armor A1118 VT2P	208.0	•	•	16.3	32	1	35183
BH XP 8509TRE	208.0	•	•	17.8	29	1	34213
Hefty H6532	207.0	•	•	18.2	31	1	36594
Armor A1778 VT2P	206.4	•	•	19.3	26	1	35977
Armor A1299 VT2P	206.1	•	•	16.0	30	2	34478
Progeny PGY 6119VT2P	205.9	221.7	221.7	20.4	28	1	35360
Pioneer P1847VYHR	205.9	232.8	•	21.5	27	2	32803
Pioneer P1870YHR	204.7	232.6	232.5	22.0	35	2	33596
Local LC1776 VT2P	203.0	220.7	•	20.5	32	2	34213
Local LC1586 TC	203.0	•	•	18.5	29	1	32097
Hefty H6635	202.9	•	•	18.5	31	1	34037
Local LC1878 VT2P	202.5	219.9	•	19.4	31	1	34125
Taylor EXP 88-16	201.7	•	•	20.6	28	2	31832
Armor A1688T	199.3	•	•	17.5	31	1	35977
Local LCX16-91	198.3	•	•	19.3	28	1	34125
Local LC0877 VT2P	197.9	•	•	14.4	30	1	35095
LG62C02VT2RIB	196.9	•	•	16.5	27	2	32802
Armor A1810 VT2P	196.9	•	•	24.1	27	2	35183
Taylor EXP 88-13	194.6	•	•	17.3	27	2	31303
Hefty H6214	194.2	•	•	17.1	30	2	35360
Taylor EXP 88-17	194.2	•	•	18.3	27	1	32273
Armor X9115 VT2P	193.7	•	•	17.8	26	1	35977
REV 2858SXE	192.7	•	•	23.4	30	2	34213
Local LC1289 VT2P	191.3	•	•	15.9	33	3	32802
REV 24BHR70	189.6	•	•	17.7	29	1	34919
Progeny PGY EXP1913	183.3	•	•	17.0	30	1	35624
GRAND MEAN	211.5	•	•	18.9	30	1	34714
LSD (5%)	17.8	•	•	1.3	•	•	2030
C.V.	7.2	•	•	5.8	•	•	5

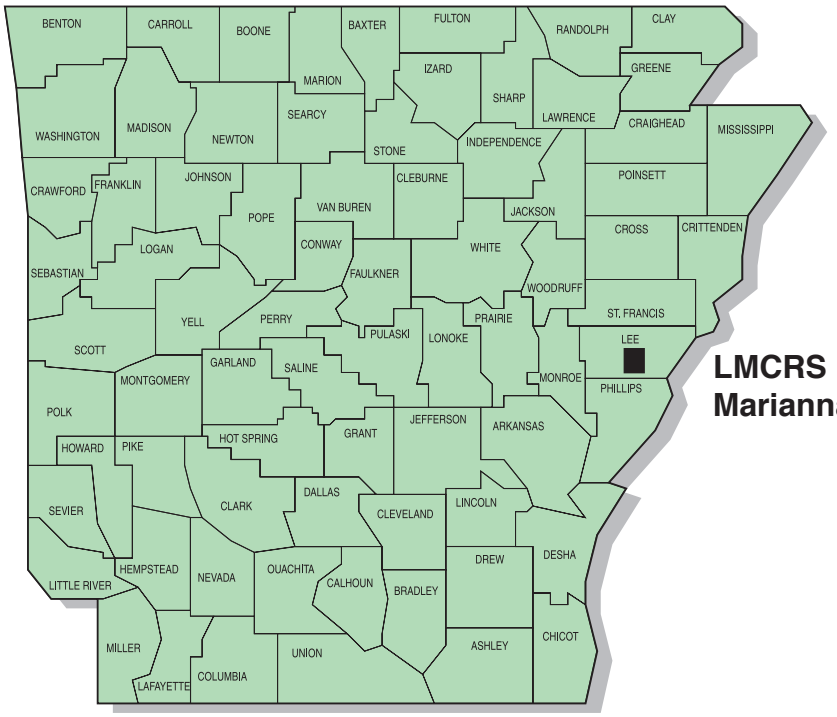
[a] Average yield for 2018 and 2019.

[b] Average yield for 2017, 2018, and 2019.

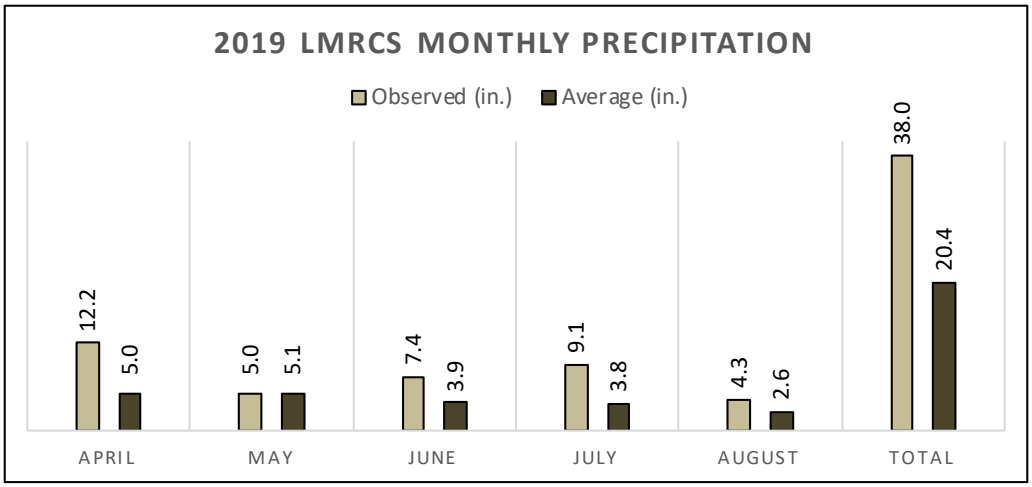
[c] Ear tip cover rated as good (1), average(2), or poor(3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the weather.

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

Irrigated Grain Sorghum (GS) Hybrids Trial Summary, 2019



LMCRS
Marianna, Ark.



Soil Series:	Calloway silt loam
Previous Crop:	Corn
Row Spacing:	38 in.
Planting Date:	April 24
Irrigation Dates:	June 3, 15 July 8, 25 August 9
Harvest Date:	September 3

Fertilizer Application(s):	18-46-0 100 lb/ac 0-0-60 150 lb/ac 21-0-0-24 100 lb/ac 46-0-0 100 lb/ac Zinc 30 lb/ac	March 29
	46-0-0 400 lb/ac	May 18
Herbicide Application(s):	Dual II Magnum + Roundup	April 24
	Acuron + Atrazine + Permit	May 20
Other Application(s):	Besiege + Trivapro	June 26

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2019.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Tip[c] Cover	Ear Height	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	(in.)
AgriGold A645-16VT2PRO	244.7	•	•	17.2	1	46	107
DEKALB DKC 70-27	240.4	215.3	•	18.4	1	45	106
AgriGold A6544VT2RIB	237.7	230.6	•	14.7	2	44	102
Armor X9115B VT2P	237.5	•	•	15.3	2	45	101
LG5643VT2RIB	236.7	222.5	•	14.7	2	42	105
DEKALB DKC 66-75	236.2	227.2	•	15.4	1	43	104
DEKALB DKC 68-69	236.2	210.5	•	18.7	1	47	114
Armor A1778 VT2P	235.6	•	•	16.8	1	43	101
DEKALB DKC 62-53	235.6	223.9	•	13.7	3	42	104
REV 25BHR80	235.5	•	•	16.4	1	45	109
Progeny PGY 8116SS	234.1	218.5	•	15.6	1	46	105
AgriGold A647-46VT2PRO	231.7	•	•	15.6	1	45	104
Pioneer P1464VYHR	231.3	•	•	15.9	1	47	110
DEKALB DKC 67-44	231.2	219.3	•	15.9	1	47	108
DEKALB DKC 65-99	231.1	•	•	15.0	2	41	101
Progeny PGY 9114VT2P	230.2	•	•	13.8	2	41	100
Progeny PGY 9117VT2P	229.6	•	•	17.3	1	41	107
DEKALB DKC 65-95	228.4	223.2	•	14.8	1	43	104
Local LC1878 VT2P	227.0	214.0	•	15.9	1	44	100
Local LC1776 VT2P	226.8	215.7	•	18.8	1	41	110
AgriGold A6659VT2RIB	226.3	220.5	223.4	16.4	2	46	105
LG5650VT2RIB	225.4	230.0	•	15.2	2	45	107
BH 8721VT2P	224.3	224.9	225.2	17.6	2	42	108
AgriGold A644-32TRCRIB	224.2	•	•	14.7	1	44	109
Dyna-Gro D57VC17	224.2	•	•	15.4	2	43	100
Progeny PGY 5115VT2P	224.1	217.8	220.2	14.3	2	38	105
Hefty H6714	223.9	•	•	16.1	2	44	103
Progeny PGY EXP1918	223.7	•	•	17.5	1	44	105
Dyna-Gro D57VC51	223.5	•	•	17.1	1	42	106
REV 26BHR30	223.2	•	•	17.7	1	45	107
Local LC1795 VT2P	223.2	•	•	17.7	1	41	99
LG64C30TRC	222.9	•	•	15.1	1	45	105
Armor A1118 VT2P	222.7	•	•	13.1	1	38	100
REV 25BHR89	222.6	189.2	•	15.5	2	50	112
Mission A1687VT2P	222.6	•	•	15.4	1	45	106
AgriGold A6572VT2RIB	222.2	227.6	•	15.0	2	45	103
Local AV7516 YHB	221.2	•	•	17.2	1	45	111
Progeny PGY EXP1912	220.9	•	•	13.9	3	44	107
Progeny PGY 6116VT2P	220.5	216.9	212.6	17.3	1	44	107
Local LC1577 VT2P	220.4	212.3	•	14.4	2	38	100
Local AV8614 YHB	218.9	•	•	15.9	1	46	113

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2019, continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Tip[c] Cover	Ear Height	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	(in.)
Armor A1688T	218.9	•	•	15.0	2	46	102
Pioneer P1847VYHR	218.7	225.2	•	17.9	2	47	115
Progeny PGY EXP1915	218.5	•	•	15.7	1	41	102
Local LC1289 VT2P	218.1	•	•	14.9	2	41	101
Local LC1488 VT2P	218.1	•	•	13.1	1	45	108
Local LC1987 VT2P	217.7	204.1	•	17.2	1	49	108
Taylor EXP 88-13	217.5	•	•	14.7	2	41	100
Armor X9115 VT2P	217.3	•	•	15.9	1	43	104
Hefty H6214	217.1	•	•	14.4	1	45	105
Local LC1586 TC	217.0	•	•	15.5	1	44	103
Armor A1810 VT2P	216.4	•	•	20.8	1	43	103
REV 2858SXE	216.0	•	•	20.8	1	45	105
Progeny PGY 6119VT2P	215.9	202.3	206.0	17.3	1	42	100
Armor A1299 VT2P	215.4	•	•	13.5	2	43	106
BH XP 8780SS	215.1	•	•	17.5	2	47	103
Dyna-Gro D54VC14	215.0	223.9	•	14.3	1	41	101
Pioneer P1870YHR	214.8	213.1	•	16.4	2	45	106
Dyna-Gro D58VC65	214.3	198.2	197.9	15.4	1	43	104
Taylor EXP 88-14	214.0	•	•	16.1	1	46	105
Dyna-Gro D55VC80	212.7	•	•	15.3	2	45	107
REV 24BHR99	212.7	213.8	•	15.7	1	43	100
Local LCX16-91	212.2	•	•	14.8	1	41	102
BH XP 8509TRE	212.1	•	•	15.7	1	43	104
Taylor EXP 88-16	212.0	•	•	17.3	1	45	107
Progeny PGY EXP1913	211.3	•	•	15.2	1	45	105
Taylor EXP 88-17	210.5	•	•	15.2	1	40	98
REV 24BHR70	207.7	•	•	15.6	2	44	102
REV 28BHR18	207.5	200.2	•	16.7	1	43	112
Croplan C5678 VT2P	206.8	•	•	16.1	1	43	104
Hefty H6635	206.2	•	•	15.6	1	39	97
LG62C02VT2RIB	204.9	•	•	14.6	2	44	102
Hefty H6532	204.3	•	•	14.3	2	41	97
Local LC0877 VT2P	190.6	•	•	12.7	1	38	97
GRAND MEAN	221.4	•	•	15.8	1	43	104
LSD (5%)	17.3	•	•	1.2	•	•	4
C.V.	6.7	•	•	6.5	•	•	2

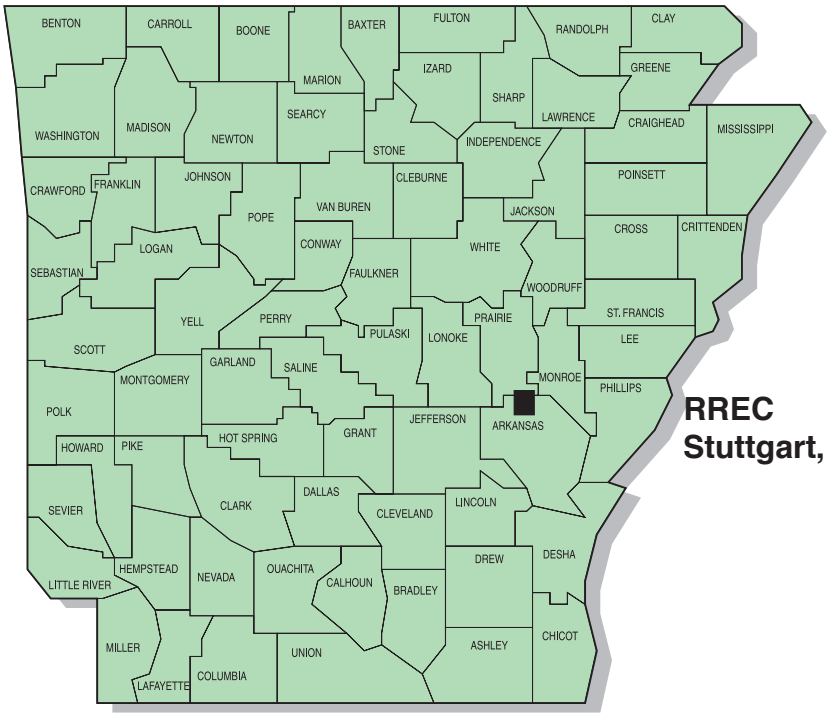
[a] Average yield for 2018 and 2019.

[b] Average yield for 2016, 2018, and 2019.

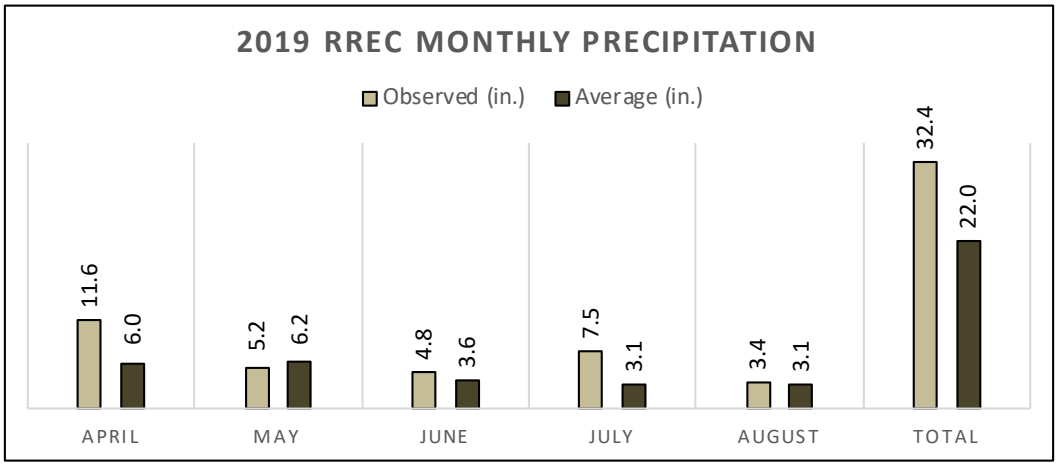
[c] Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the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

Stuttgart: Rice Research and Extension Center (RREC)

Irrigated Corn Hybrids Trial Summary, 2019



RREC
Stuttgart, Ark.



Soil Series:	Crowley silt loam
Row Spacing:	30"
Soil pH:	6.2
Planting Date:	April 23
Irrigation Dates:	June 21, July 4 August 8
Harvest Date:	September 11

Fertilizer Application(s):	80 lb/ac N, 92 lb/ac P, 90 lb/ac K, 24 lb/ac S, 10 lb/ac Zn	April 1
	115 lb/ac N	May 30
	92 lb/ac N	June 19
Herbicide Application(s):	Dual II Magnum + Atrazine	April 24

Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2019.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Stalk[c] Lodging	Ear Height	Tip[d] Cover
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	
Armor X9115 VT2P	259.0	•	•	14.3	1	46	1
Dyna-Gro D55VC80	258.5	•	•	14.2	1	46	1
DEKALB DKC 70-27	258.3	230.6	236.2	15.5	0	43	1
REV 25BHR80	256.3	•	•	14.3	1	44	2
DEKALB DKC 67-44	256.2	229.8	235.6	15.0	3	44	3
Pioneer P1464VYHR	255.8	•	•	13.9	6	48	1
Armor X9115B VT2P	255.7	•	•	13.8	1	43	3
AgriGold A645-16VT2PRO	254.9	•	•	14.5	2	49	2
REV 25BHR89	252.7	221.9	•	13.7	5	47	2
DEKALB DKC 68-69	252.0	216.0	•	15.6	4	40	1
AgriGold A6572VT2RIB	251.9	233.4	233.8	14.2	4	47	1
REV 28BHR18	249.8	223.4	223.7	14.6	3	48	3
Local AV7516 YHB	248.9	•	•	15.0	3	46	1
DEKALB DKC 66-75	248.6	221.9	•	14.2	2	45	2
Progeny PGY EXP1913	248.4	•	•	14.4	4	43	1
REV 24BHR99	248.2	227.4	•	13.8	1	46	1
Pioneer P1870YHR	246.8	225.5	231.9	15.5	3	42	3
REV 26BHR30	245.1	•	•	14.9	2	38	1
Local AV8614 YHB	243.7	•	•	14.6	5	45	1
BH XP 8780SS	243.1	•	•	15.9	1	43	1
Local LC1795 VT2P	242.8	•	•	14.2	1	41	2
LG64C30TRC	242.8	•	•	14.2	4	44	1
Taylor EXP 88-16	242.7	•	•	15.0	1	44	1
Croplan C5678 VT2P	241.6	•	•	14.1	4	37	1
AgriGold A6659VT2RIB	240.9	218.4	227.4	14.4	5	46	2
AgriGold A644-32TRCRIB	240.0	•	•	14.3	3	48	2
Progeny PGY 9117VT2P	240.0	•	•	14.0	7	47	2
Progeny PGY 8116SS	239.4	212.0	225.6	14.6	5	48	2
AgriGold A6544VT2RIB	239.2	218.7	227.6	13.2	4	39	2
Hefty H6714	238.5	•	•	14.5	4	52	2
Local LC1289 VT2P	238.4	•	•	14.1	2	43	1
LG5643VT2RIB	238.2	217.9	229.3	13.1	2	39	3
Local LC1878 VT2P	237.7	216.9	•	14.4	5	44	3
Dyna-Gro D58VC65	237.1	224.0	229.9	13.7	2	39	3
Armor A1299 VT2P	236.7	•	•	13.7	1	41	1
Dyna-Gro D57VC17	235.6	•	•	14.5	5	44	1
REV 2858SXE	235.4	•	•	16.1	5	46	3
Local LC1488 VT2P	235.4	•	•	13.4	2	41	1
BH 8721VT2P	234.8	220.3	•	13.8	3	48	3
Pioneer P1847VYHR	233.9	231.1	•	15.0	8	42	2
LG5650VT2RIB	233.9	224.9	232.4	14.8	6	41	1

Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2019, continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Stalk[c] Lodging	Ear Height	Tip[d] Cover
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	
Local LC1987 VT2P	233.6	211.8	•	15.3	2	43	2
Progeny PGY EXP1912	233.3	•	•	13.4	3	44	2
Progeny PGY EXP1915	232.8	•	•	14.8	3	44	1
DEKALB DKC 62-53	232.5	216.5	•	13.7	3	46	2
Mission A1687VT2P	232.2	•	•	14.5	1	46	2
AgriGold A647-46VT2PRO	232.1	•	•	14.8	5	45	1
Armor A1778 VT2P	231.6	•	•	14.1	3	39	2
DEKALB DKC 65-99	231.5	•	•	13.9	5	45	1
DEKALB DKC 65-95	231.4	217.4	225.0	14.8	5	42	3
BH XP 8509TRE	231.3	•	•	14.5	3	43	2
Progeny PGY 6116VT2P	231.1	215.4	220.1	14.3	3	43	1
Armor A1688T	230.6	•	•	14.1	7	50	1
Local LCX16-91	230.3	•	•	14.7	0	42	1
Armor A1118 VT2P	229.3	•	•	13.5	2	43	3
Local LC1577 VT2P	229.0	214.7	•	13.5	4	44	1
Taylor EXP 88-13	227.5	•	•	13.4	3	40	3
Local LC1776 VT2P	227.1	218.9	•	14.3	9	47	1
Dyna-Gro D54VC14	226.8	214.4	•	13.6	5	39	2
Armor A1810 VT2P	226.2	•	•	14.9	6	44	1
REV 24BHR70	226.0	•	•	14.2	5	40	3
Taylor EXP 88-17	225.8	•	•	13.1	3	41	1
Dyna-Gro D57VC51	224.3	•	•	14.3	7	36	2
Hefty H6214	220.1	•	•	14.2	5	47	2
Progeny PGY 5115VT2P	219.3	208.9	214.0	13.8	5	39	3
Progeny PGY 6119VT2P	217.4	207.8	214.0	15.0	5	43	1
Progeny PGY EXP1918	215.6	•	•	14.5	3	42	1
Hefty H6532	215.1	•	•	14.1	3	44	2
Progeny PGY 9114VT2P	214.9	•	•	13.5	6	43	3
Taylor EXP 88-14	214.7	•	•	14.6	2	43	1
Local LC1586 TC	213.2	•	•	14.2	7	43	1
Hefty H6635	211.9	•	•	13.4	3	38	2
LG62C02VT2RIB	210.8	•	•	13.8	4	39	2
Local LC0877 VT2P	203.3	•	•	12.9	5	41	1
GRAND MEAN	235.8	•	•	14.3	3	43	2
LSD (5%)	18.4	•	•	0.5	4	•	•
C.V.	6.7	•	•	3.0	•	•	•

[a] Average yield for 2018 and 2019.

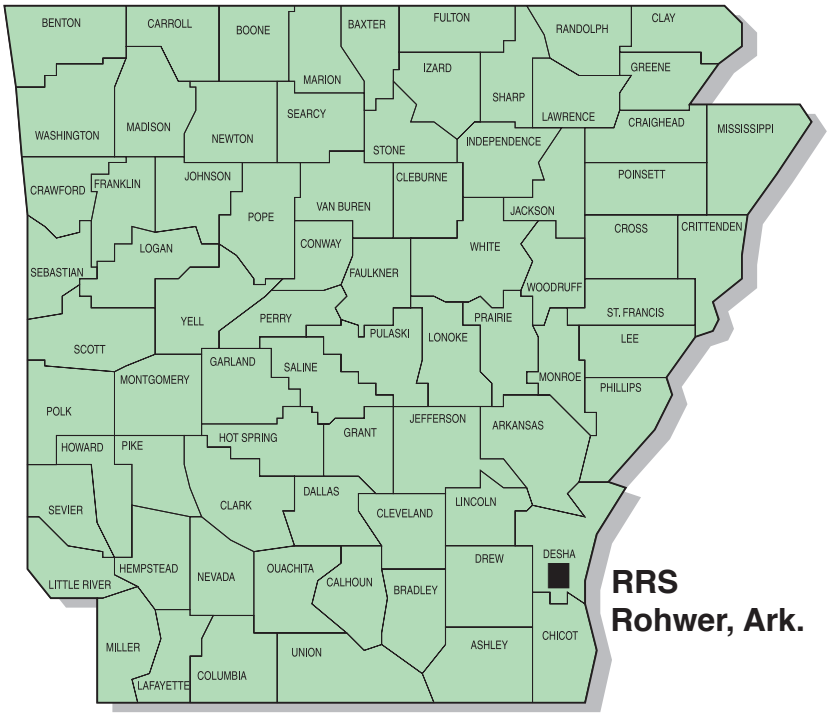
[b] Average yield for 2017, 2018, and 2019.

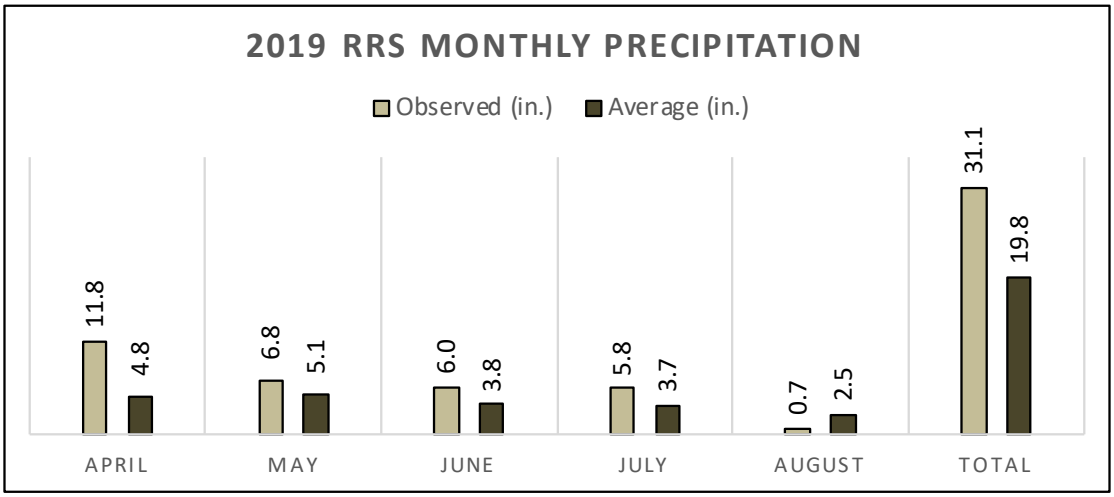
[c] Average number of plants broken below an ear at harvest.

[d] 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, 2019





Soil Series:	Herbert silt loam
Previous Crop:	Corn
Row Spacing:	38"
Planting Date:	April 22
Irrigation Dates:	June 12, 19 July 1, 10, 24, 30
Harvest Date:	September 10

Fertilizer Application(s):	150 lb/ac 0-0-60	April 29
	125 units 32% liquid N	May 21
	125 units 32% liquid N	May 28
Herbicide Application(s):	Atrazine + Dual II Magnum + Roundup	April 24
	Halex GT + Atrazine	May 31

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2019.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Tip[c] Cover	Ear Height	Plant Height	Plants Per Acre
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	(in.)	
DEKALB DKC 65-99	260.1	•	•	15.3	1	43	102	31639
Pioneer P1847VYHR	255.9	234.2	•	17.0	1	45	108	28715
REV 25BHR80	253.2	•	•	14.4	1	46	107	30693
Armor A1688T	247.8	•	•	13.6	1	47	103	31897
DEKALB DKC 70-27	245.7	218.4	236.8	16.4	1	47	103	31982
REV 26BHR30	244.6	•	•	15.1	2	47	106	30865
AgriGold A644-32TRCRIB	244.0	•	•	13.4	1	47	104	29747
Local AV8614 YHB	242.5	•	•	14.0	1	44	109	29489
DEKALB DKC 65-95	242.1	235.2	241.5	15.0	1	47	104	29833
REV 25BHR89	241.9	207.8	•	13.5	2	45	108	32240
BH XP 8509TRE	241.2	•	•	13.4	1	44	102	28285
LG5650VT2RIB	239.4	226.0	243.6	14.0	1	48	105	30693
AgriGold A6572VT2RIB	239.3	224.5	234.1	14.1	1	48	105	29317
Pioneer P1870YHR	238.5	216.9	232.7	16.7	2	43	104	30263
Pioneer P1464VYHR	238.3	•	•	13.7	1	48	108	28715
REV 24BHR70	236.6	•	•	13.4	2	41	94	29661
Local LC1878 VT2P	236.6	212.5	•	14.0	1	41	104	30693
DEKALB DKC 68-69	236.5	212.3	•	18.0	1	46	108	31638
Local AV7516 YHB	236.4	•	•	14.4	2	47	105	31381
Mission A1687VT2P	235.8	•	•	13.8	2	50	106	33874
LG64C30TRC	235.8	•	•	13.5	1	45	105	30951
DEKALB DKC 67-44	234.9	222.1	238.4	16.4	2	45	105	30263
Armor A1810 VT2P	234.2	•	•	15.1	1	43	100	30693
Armor A1778 VT2P	233.6	•	•	13.2	1	44	102	29059
Local LC1577 VT2P	233.3	213.6	•	13.1	1	44	103	31724
Local LC1586 TC	232.8	•	•	13.5	2	42	100	28457
Dyna-Gro D55VC80	232.7	•	•	14.9	1	48	106	30435
Local LC1776 VT2P	232.0	211.2	•	13.8	1	42	106	30435
Progeny PGY 9114VT2P	230.9	•	•	13.0	2	42	101	33616
AgriGold A6544VT2RIB	230.5	217.4	228.0	12.7	1	45	105	31209
Progeny PGY 6116VT2P	230.4	212.6	223.5	13.9	1	45	108	29231
Progeny PGY 8116SS	230.4	215.3	231.6	14.4	1	46	103	32068
LG5643VT2RIB	230.2	214.1	227.5	12.7	2	45	103	31381
Armor A1118 VT2P	230.0	•	•	12.8	1	42	101	30865
DEKALB DKC 62-53	229.8	214.4	•	13.3	2	44	98	31638
Dyna-Gro D57VC51	229.4	•	•	13.2	1	42	100	29833
Progeny PGY 9117VT2P	229.2	•	•	13.7	1	41	105	30263
Dyna-Gro D57VC17	229.1	•	•	14.7	1	44	103	30607
Local LC1795 VT2P	228.6	•	•	13.4	1	45	101	30263
Progeny PGY EXP1912	227.2	•	•	13.2	1	46	108	31381
Hefty H6714	226.8	•	•	14.4	1	48	104	31381

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2019, continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Tip[c] Cover	Ear Height	Plant Height	Plants Per Acre
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	(in.)	
BH 8721VT2P	225.5	213.5	•	14.1	2	42	101	30865
AgriGold A645-16VT2PRO	225.3	•	•	14.8	1	45	103	32928
Local LCX16-91	224.7	•	•	14.5	1	43	102	31122
Progeny PGY 6119VT2P	223.5	204.9	229.8	14.3	1	44	104	31896
AgriGold A647-46VT2PRO	223.3	•	•	14.2	1	47	103	30091
Armor X9115 VT2P	223.3	•	•	14.1	1	46	105	30607
Taylor EXP 88-13	222.9	•	•	13.0	2	40	98	29231
Progeny PGY EXP1918	222.8	•	•	12.9	1	43	96	28973
Armor A1299 VT2P	222.8	•	•	13.0	2	45	106	30091
Dyna-Gro D54VC14	222.7	218.1	•	12.9	1	40	101	30349
Progeny PGY EXP1915	222.1	•	•	14.3	2	46	101	32498
DEKALB DKC 66-75	221.5	217.5	•	14.9	2	50	108	32584
Armor X9115B VT2P	221.4	•	•	13.6	1	46	99	28543
Local LC1488 VT2P	220.2	•	•	12.5	1	45	108	31381
REV 24BHR99	218.3	213.3	•	13.2	1	44	104	30607
Local LC1289 VT2P	217.4	•	•	13.1	1	44	100	30779
Hefty H6214	216.6	•	•	13.3	2	43	100	31896
LG62C02VT2RIB	215.8	•	•	13.3	2	45	100	30521
REV 28BHR18	215.6	203.8	222.0	15.4	1	47	109	28801
Progeny PGY EXP1913	214.6	•	•	14.0	2	48	104	31896
Progeny PGY 5115VT2P	214.5	210.9	219.5	12.9	1	39	98	32069
Taylor EXP 88-17	211.6	•	•	13.0	1	41	96	28801
REV 2858SXE	211.2	•	•	18.3	1	47	101	31638
Dyna-Gro D58VC65	207.9	204.3	224.2	12.7	2	43	102	30435
Hefty H6532	207.4	•	•	13.2	1	41	97	30951
Croplan C5678 VT2P	207.3	•	•	13.1	1	43	101	30091
AgriGold A6659VT2RIB	207.2	205.8	227.2	13.6	1	44	103	30263
Local LC1987 VT2P	206.7	194.2	•	16.7	1	48	106	30693
Taylor EXP 88-14	206.5	•	•	13.9	2	48	102	28028
BH XP 8780SS	204.5	•	•	17.4	1	45	101	30521
Hefty H6635	202.3	•	•	12.8	1	40	95	31209
Local LC0877 VT2P	202.2	•	•	12.4	1	40	102	28457
Taylor EXP 88-16	198.1	•	•	17.5	2	48	106	30435
GRAND MEAN	227.2	•	•	14.1	1	44	103	30630
LSD (5%)	13.0	•	•	0.9	•	•	4	1830
C.V.	4.9	•	•	5.3	•	•	2	5

[a] Average yield for 2018 and 2019.

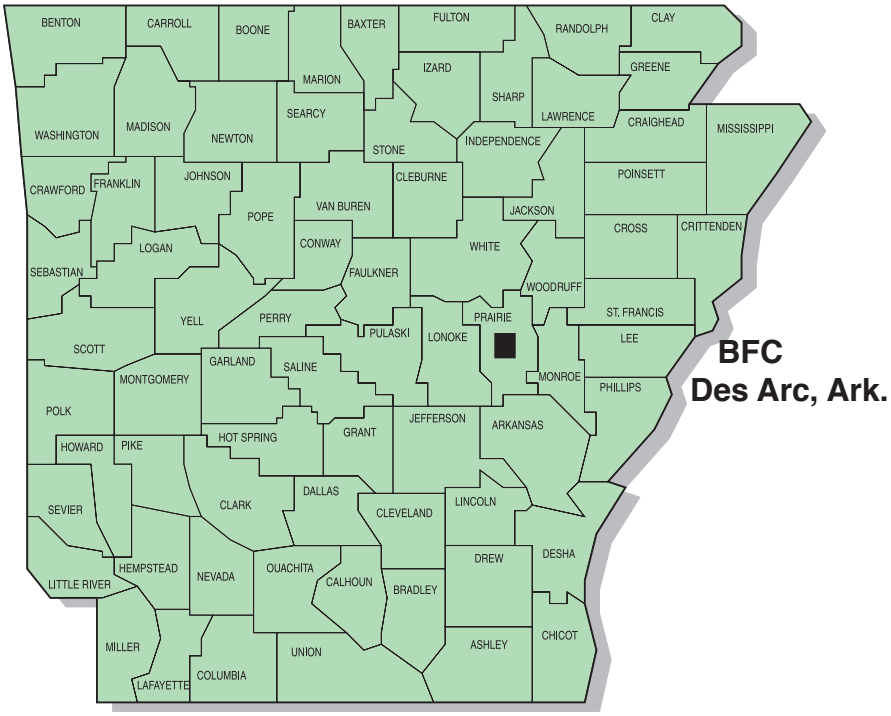
[b] Average yield for 2017, 2018, and 2019.

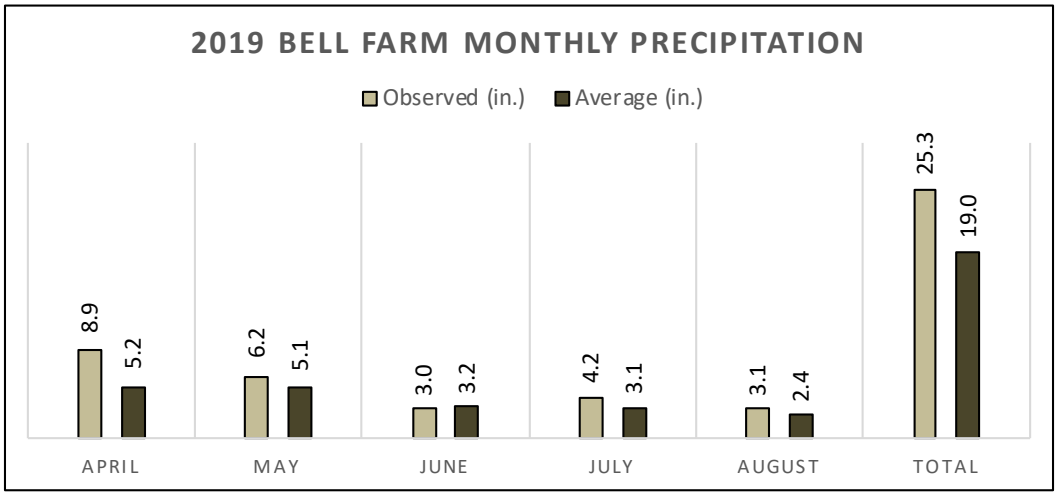
[c] Average number of plants broken below an ear at harvest.

[d] 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, 2019





Soil Series:	Calhoun silt loam
Previous Crop:	Soybean
Row Spacing:	30"
Planting Date:	April 23
Irrigation Date(s):	Irrigated 6 times
Harvest Date:	September 10

Fertilizer Application(s):	Preplant: 60 units N, 100 units P, 150 units K, 10 lb/ac S, 1 lb/ac Zn Sidedress: 185 units N Sidedress: 46 units N at V10	
Herbicide Application(s):	Halex GT + Atrazine	May 27
Fungicide Application(s):	Trivapro	July 13

Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Co., Des Arc, Ark., 2019.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Green[c] Snap	Ear Height	Tip[d] Cover
	(bu./ac)	(bu./ac)	(bu./ac)	(%)		(in.)	
REV 25BHR89	247.7	221.7	•	14.5	2	42	2
AgriGold A6544VT2RIB	246.8	226.0	231.1	13.7	1	42	1
Local AV8614 YHB	242.1	•	•	14.7	2	33	1
BH XP 8509TRE	240.3	•	•	14.6	1	42	1
REV 26BHR30	236.7	•	•	15.0	2	41	1
AgriGold A647-46VT2PRO	235.4	•	•	14.5	1	36	2
Armor A1778 VT2P	233.8	•	•	14.8	9	38	1
LG5650VT2RIB	231.5	214.9	224.0	14.2	2	35	2
DEKALB DKC 68-69	231.4	210.1	•	15.3	0	37	1
Armor A1118 VT2P	230.3	•	•	13.5	1	36	2
LG5643VT2RIB	230.2	220.3	226.1	13.9	0	38	3
Armor A1688T	229.9	•	•	14.2	1	40	1
Local LC1577 VT2P	229.8	220.6	•	13.6	1	32	1
Local LC1776 VT2P	229.5	218.5	•	14.5	0	38	1
DEKALB DKC 65-99	229.0	•	•	14.3	9	35	1
DEKALB DKC 67-44	229.0	243.3	246.1	14.4	0	39	2
AgriGold A645-16VT2PRO	228.3	•	•	14.6	5	42	1
Pioneer P1464VYHR	228.0	•	•	14.4	0	40	1
Pioneer P1870YHR	228.0	205.2	225.9	15.6	0	34	1
Armor X9115B VT2P	226.4	•	•	14.2	0	40	2
Dyna-Gro D54VC14	223.8	210.9	•	13.8	1	34	2
Taylor EXP 88-13	223.7	•	•	13.5	0	36	2
Dyna-Gro D57VC17	222.5	•	•	14.7	3	42	1
Dyna-Gro D55VC80	221.2	•	•	14.5	2	44	3
DEKALB DKC 66-75	220.2	219.7	•	14.4	0	38	1
LG64C30TRC	219.9	•	•	14.1	2	38	1
Local AV7516 YHB	218.9	•	•	14.7	0	43	1
Progeny PGY 6116VT2P	218.4	204.2	216.8	14.2	0	36	1
REV 25BHR80	218.2	•	•	14.2	3	41	3
Progeny PGY 9114VT2P	217.9	•	•	13.9	3	35	2
REV 2858SXE	217.9	•	•	17.1	0	42	1
Dyna-Gro D58VC65	217.5	210.3	224.9	14.3	12	34	1
AgriGold A644-32TRCRIB	217.4	•	•	14.6	0	35	1
Local LC1987 VT2P	216.7	200.1	•	14.8	1	41	3
Progeny PGY EXP1918	216.5	•	•	14.2	0	38	1
Taylor EXP 88-14	216.4	•	•	14.7	0	40	1
Local LC1878 VT2P	216.3	211.2	•	14.5	2	37	1
Pioneer P1847VYHR	216.2	209.8	•	15.0	0	46	1
AgriGold A6572VT2RIB	215.2	206.0	212.4	14.1	0	42	1
Armor X9115 VT2P	213.4	•	•	14.2	1	42	1
Armor A1810 VT2P	212.6	•	•	15.0	2	34	2

Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Co., Des Arc, Ark., 2019, continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Grain Moisture	Green[c] Snap	Ear Height	Tip[d] Cover
	(bu/ac)	(bu/ac)	(bu/ac)	(%)		(in.)	
Local LC1586 TC	212.2	•	•	14.4	0	39	1
REV 28BHR18	210.6	195.9	207.6	15.1	0	44	1
Progeny PGY EXP1912	209.5	•	•	14.0	0	35	1
Local LCX16-91	209.4	•	•	14.4	2	40	1
Armor A1299 VT2P	209.0	•	•	13.4	0	40	1
DEKALB DKC 65-95	208.5	203.7	219.7	14.4	0	39	3
DEKALB DKC 70-27	208.1	209.3	224.2	15.3	1	41	1
Progeny PGY 9117VT2P	208.0	•	•	14.6	0	40	2
DEKALB DKC 62-53	206.7	196.8	•	14.0	1	31	1
Hefty H6714	206.3	•	•	14.3	0	41	2
Dyna-Gro D57VC51	206.0	•	•	14.5	9	35	1
REV 24BHR70	205.9	•	•	14.2	2	39	1
Progeny PGY 8116SS	205.8	194.2	203.9	14.3	1	42	1
Progeny PGY 5115VT2P	205.1	210.3	217.4	13.9	1	33	1
Local LC1289 VT2P	204.6	•	•	13.9	0	34	1
BH 8721VT2P	204.5	198.4	•	14.5	0	36	1
Taylor EXP 88-17	203.9	•	•	13.8	1	36	1
Hefty H6532	203.9	•	•	14.0	1	34	1
Progeny PGY EXP1913	203.9	•	•	14.0	3	39	1
Local LC0877 VT2P	203.7	•	•	13.7	2	35	2
Progeny PGY EXP1915	203.4	•	•	14.4	0	37	1
Mission A1687VT2P	200.9	•	•	14.6	1	33	1
Local LC1795 VT2P	197.8	•	•	13.7	0	36	1
LG62C02VT2RIB	197.5	•	•	13.9	0	38	2
Hefty H6635	197.0	•	•	13.6	0	42	1
Progeny PGY 6119VT2P	192.3	198.3	211.8	14.6	0	37	1
Local LC1488 VT2P	191.5	•	•	13.7	0	37	1
Taylor EXP 88-16	186.8	•	•	14.7	3	39	1
Hefty H6214	182.2	•	•	14.0	0	38	2
BH XP 8780SS	181.4	•	•	14.9	3	37	2
REV 24BHR99	180.2	177.9	•	14.0	5	34	1
Croplan C5678 VT2P	170.1	•	•	14.0	18	34	1
AgriGold A6659VT2RIB	169.9	203.2	220.1	14.1	10	35	2
GRAND MEAN	213.9	•	•	14.3	2	38	1
LSD (5%)	22.2	•	•	0.5	6	•	•
C.V.	7.7	•	•	2.7	•	•	•

[a] Average yield for 2018 and 2019.

[b] Average yield for 2017, 2018, and 2019.

[c] Average number of plants broken below an ear due to Green Snap.

[d] 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
2019 Grain Sorghum Tests

Company	Hybrids
Bayer Crop Science 800 N. Lindbergh Blvd. St. Louis, MO 63167	DEKALB DKS 51-01 DEKALB DKS 53-53 DEKALB DKS 54-07
Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538	Dyna-Gro GX17457 Dyna-Gro GX17973 Dyna-Gro GX18395 Dyna-Gro GX18991 Dyna-Gro GX19981 Dyna-Gro M62GB77 Dyna-Gro M68GB18 Dyna-Gro M69GB38 Dyna-Gro M71GR04 Dyna-Gro M73GR55 Dyna-Gro M74GB17
Pioneer Hi-Bred International 7300 NW 62nd Ave. Johnston, IA 50131	Pioneer 83G19 Pioneer 84P80
S&W Seed Co. 1309 East 50th St. Lubbock, TX 79404	SP 68M57 SP 74C40 SP 74M21 SP 7715
Terral Seed, Inc. P. O. Box 826 Lake Providence, LA 71254	REV 9620

Participants and Entries
2019 Corn Tests

Company	Hybrids
AgriGold Hybrids 5381 Akin Rd St. Francisville, IL 62460	AgriGold A644-32TRCRIB AgriGold A645-16VT2PRO AgriGold A647-46VT2PRO AgriGold A6544VT2RIB AgriGold A6572VT2RIB AgriGold A6659VT2RIB
Armor Seed 2532 Alexander Dr. Jonesboro, AR 72401	Armor A1118 VT2P Armor A1299 VT2P Armor A1688T Armor A1778 VT2P Armor A1810 VT2P Armor X9115 VT2P Armor X9115B VT2P Croplan C5678 VT2P
BH Genetics 5933 FM 1157 Ganado, TX 77962	BH 8721VT2P BH XP 8780SS BH XP 8509TRE
Bayer Crop Science 800 N. Lindbergh Blvd. St. Louis, MO 63167	DEKALB DKC 62-53 DEKALB DKC 65-95 DEKALB DKC 65-99 DEKALB DKC 66-75 DEKALB DKC 67-44 DEKALB DKC 68-69 DEKALB DKC 70-27
Hefty Seed Co. 47504 252nd St. Baltic, SD 57003	Hefty H6214 Hefty H6532 Hefty H6635 Hefty H6714

Participants and Entries
2019 Corn Tests, Continued

Company	Hybrids
LG Seeds Inc. 1122 E. 169th Street Westfield, IN 46074	LG5643VT2RIB LG5650VT2RIB LG62C02VT2RIB LG64C30TRC
Local Seed Co. 802 Rozelle St. Memphis, TN 38104	Local AV7516 YHB Local AV8614 YHB Local LC0877 VT2P Local LC1289 VT2P Local LC1488 VT2P Local LC1577 VT2P Local LC1586 TC Local LC1776 VT2P Local LC1795 VT2P Local LC1878 VT2P Local LC1987 VT2P Local LCX16-91
Mission Seed Solutions 516 N. Sharpe Ave. Cleveland, MS 38732	Mission A1687VT2P
Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538	Dyna-Gro D54VC14 Dyna-Gro D55VC80 Dyna-Gro D57VC17 Dyna-Gro D57VC51 Dyna-Gro D58VC65
Pioneer Hi-Bred International 7300 NW 62nd Ave. Johnston, IA 50131	Pioneer P1464VYHR Pioneer P1847VYHR Pioneer P1870YHR

Participants and Entries
2019 Corn Tests, Continued

Company	Hybrids
Progeny Ag Products 1529 Highway 193 Wynne, AR 72396	Progeny PGY 5115VT2P Progeny PGY 6116VT2P Progeny PGY 6119VT2P Progeny PGY 8116SS Progeny PGY 9114VT2P Progeny PGY 9117VT2P Progeny PGY EXP1912 Progeny PGY EXP1913 Progeny PGY EXP1915 Progeny PGY EXP1918
Taylor Seed Farms 2467 Highway 7 White Cloud, KS 66094	Taylor EXP 88-13 Taylor EXP 88-14 Taylor EXP 88-16 Taylor EXP 88-17
Terral Seed, Inc. 117 Ellington Dr. Rayville, LA 71269	REV 24BHR70 REV 24BHR99 REV 25BHR80 REV 25BHR89 REV 26BHR30 REV 2858SXE REV 28BHR18

Corn Trait Package Information

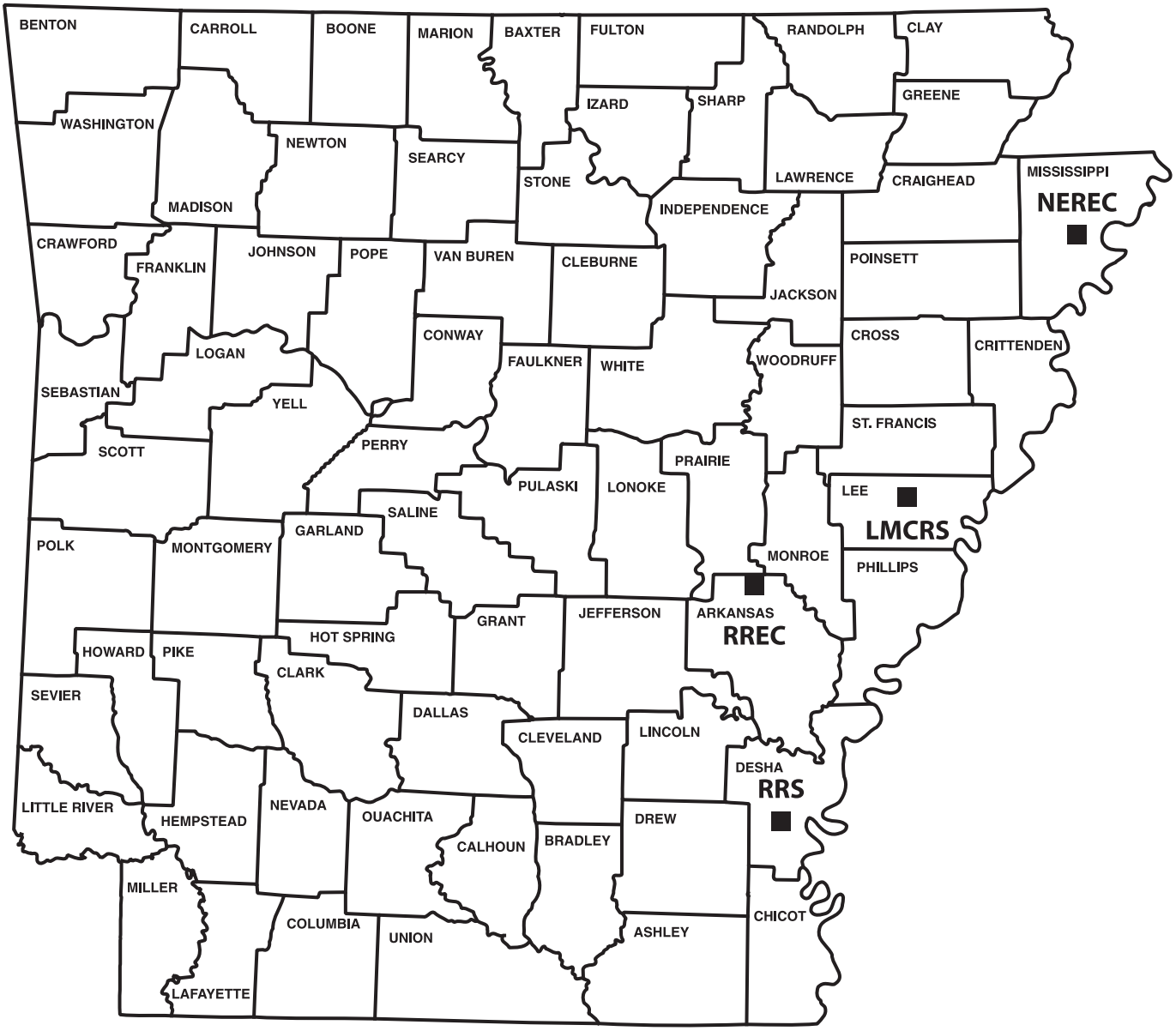
Abbreviations Used:			
BCW	Black Cutworm	WBC	Western Bean Cutworm
CEW	Corn Earworm	GT	Glyphosate Tolerant
ECB	European Corn Borer	LL	Liberty Link
FAW	Fall Armyworm	RR2	Roundup Ready 2 Yield
RW	Corn Rootworm		
SB	Stalk Borer	RIB	Refuge in Bag
SWCB	Southern Corn Borer		
TAW	True Armyworm		

		Insects **Controlled** or *Suppressed*		
Trait Family	**Product**	**(Above Ground)**	**(In Soil)**	**Herbicide Tolerance**
Agrisure	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
Herculex	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
Optimum	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

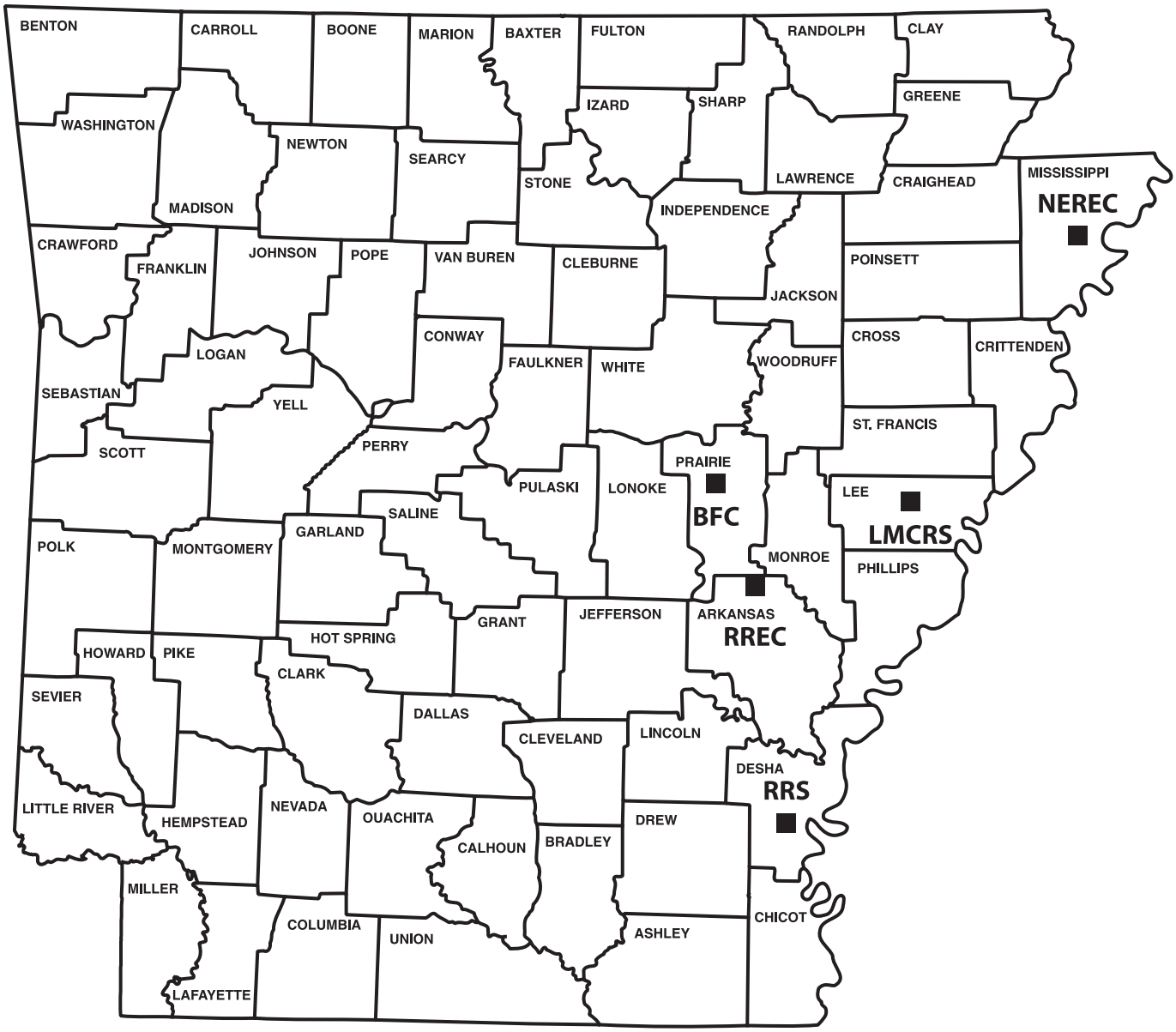
		Insects **Controlled** or *Suppressed*		
Trait Family	**Product**	**(Above Ground)**	**(In Soil)**	**Herbicide Tolerance**
Optimum, cont.	AcreMax1 (AM1)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	TRIsect (CHR)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	Intrasect TRIsect (CYHR)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	AcreMax TRIsect (AMT)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	Intrasect Xtra (YXR)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	AcreMax Xtra (AMX)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	Intrasect Xtreme (CYXR)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
	AcreMax Xtreme (AMXT)	**BCW ECB FAW SB SWCB WBC** *CEW*	**RW**	LL RR2
YieldGard/ Genuity	YieldGard CB (YGCB)	**ECB SWCB** *CEW FAW SB*	—	RR2
	YieldGard VT Rootworm	—	**RW**	RR2
	YieldGard VT Triple	**ECB SWCB** *CEW FAW SB*	**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
Other Trait Families	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, Rohwer, Arkansas**

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ARKANSAS CROP VARIETY IMPROVEMENT PROGRAM