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Corn and Grain Sorghum Performance Tests 2023

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Arkansas
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DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

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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.

Contents

Arkansas Corn and Grain Sorghum Performance Tests[1] 2023

J.F. Carlin,[2] R.B. Mulloy,[2] R.D. Bond,[2] and J.C. McCoy[2]

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 2023 corn performance tests contained 46 hybrids and were conducted at the Northeast Rice Research and Extension Center (NERREC) at Harrisburg, the Northeast Rice Research and Extension Center (NEREC) at Keiser, the Lon Mann Cotton Research Station (LMCRS) near Marianna, the Rohwer Research Station (RRS) near Rohwer, and the Rice Research and Extension Center (RREC) near Stuttgart. The 2023 grain sorghum performance tests contained 21 hybrids and were conducted at the NERREC, the NEREC, the LMCRS, the RRS, and the RREC locations. The test location map for grain sorghum and corn can be found on page 42.

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 Harrisburg, Marianna, and Stuttgart 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. Statistical analysis for grain yield (bu./ac) was conducted using Duncan's Multiple Range Test (MRT) with GENOVIX® (AGRONOMIX Software).

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.

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

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.

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.

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.

[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, Program Associate, Program Associate, and Program Associate, respectively, University of Arkansas System Division of Agriculture, Arkansas Agricultural Experiment Station, Fayetteville.

***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.uada.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, 2023.

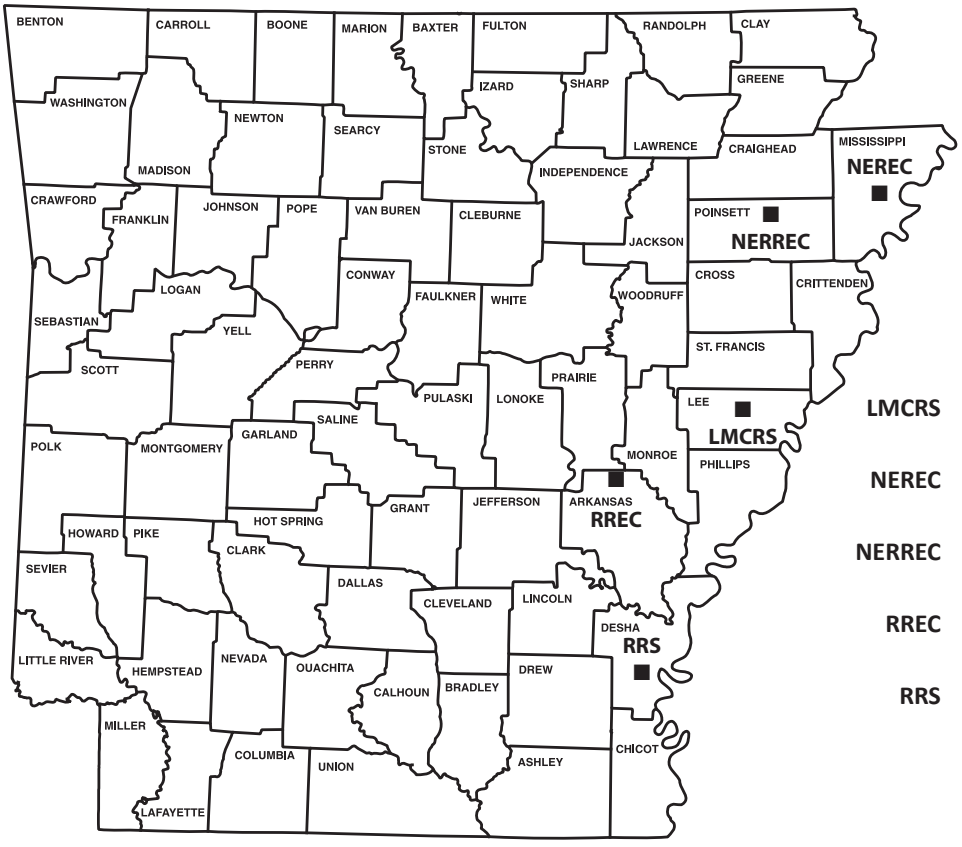
Location	Irrigation	Row Spacing (in.)	Soil Type	Planting Date	Harvest Date	Trial Mean (bu./ac)
2023 Grain Sorghum Hybrid Performance Trial Summary						
NERREC, Harrisburg, Ark.	Irrigated	30	Henry silt loam	5/17	9/28	91.7
NEREC, Keiser, Ark.[a]	Irrigated	38	Sharkey clay	5/19	10/11	•
LMCRS, Marianna, Ark.[a]	Irrigated	38	Calloway silt loam	5/17	•	•
RRS, Rohwer, Ark.	Irrigated	38	Herbert silt loam	5/16	10/22	98.2
RREC, Stuttgart, Ark.	Irrigated	30	Crowley silt loam	5/25	9/28	112.8
NEREC, Keiser, Ark.	Non-Irrigated	38	Sharkey clay	5/19	10/11	81.0

Location	Irrigation	Row Spacing (in.)	Soil Type	Planting Date	Harvest Date	Trial Mean (bu./ac)
2023 Corn Hybrid Performance Trial Summary						
NERREC, Harrisburg, Ark.	Irrigated	30	Henry silt loam	4/14	9/25	248.4
NEREC, Keiser, Ark.	Irrigated	38	Sharkey clay	4/12	9/22	218.7
LMCRS, Marianna, Ark.	Irrigated	38	Calloway silt loam	4/14	9/18	213.2
RRS, Rohwer, Ark.	Irrigated	38	Herbert silt loam	4/13	9/13	202.8
RREC, Stuttgart, Ark.[b]	Irrigated	30	Crowley silt loam	4/13	•	•

[a] Data not provided due to poor emergence and inconsistent stands.

[b] Data not provided due to severe lodging resulting from an early-season storm and straight-line winds.

Test Locations 2023



LMCRS - **Lon Mann Cotton Research Station, Marianna, Arkansas**

NEREC - **Northeast Research and Extension Center, Keiser, Arkansas**

NERREC - **Northeast Rice Research and Extension Center, Harrisburg, Arkansas**

RREC - **Rice Research and Extension Center, Stuttgart, Arkansas**

RRS - **Rohwer Research Station, Rohwer, Arkansas**

Table 2. Yields (bu./ac) of Grain Sorghum Hybrids in the Arkansas Performance Tests, 2023.[a,b]

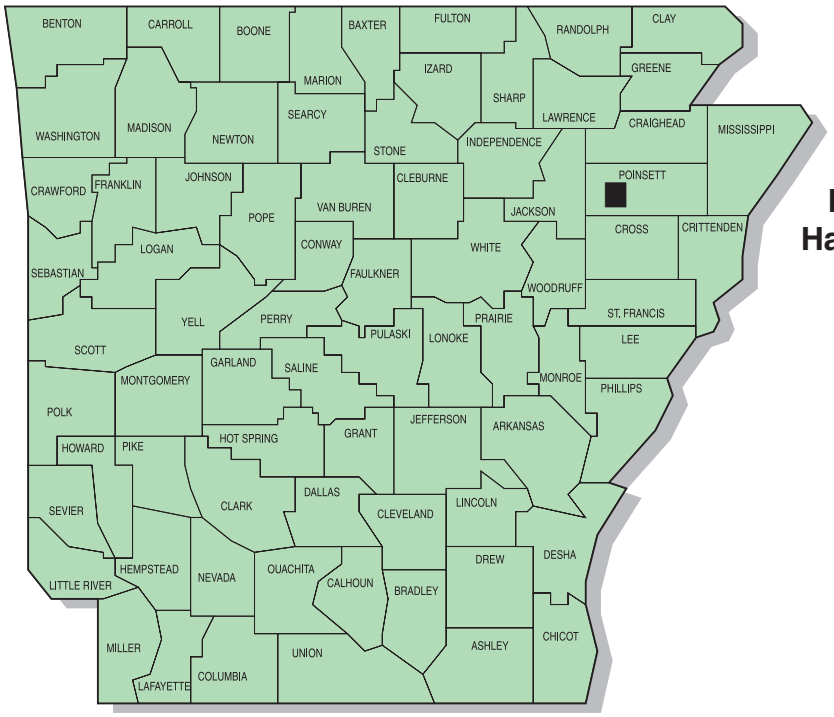
Hybrid Name	Harrisburg Irrigated	Rohwer Irrigated	Stuttgart Irrigated	Irrigated Mean	Keiser Non-Irrigated
			bu./ac		
DEKALB DKS 36-07	88.4	89.8	100.4	92.9	80.5
DEKALB DKS 51-01	95.7	109.3	131.7	112.2	79.7
DEKALB DKS 54-07	99.0	111.6	136.0	115.5	92.3
Dyna-Gro GX22932	91.7	114.7	107.8	104.7	96.6
Dyna-Gro GX22934	85.3	113.8	124.4	107.9	72.1
Dyna-Gro GX22936	92.5	113.9	113.7	106.7	80.2
Dyna-Gro GX22937	89.0	87.1	125.7	100.6	94.9
Dyna-Gro M60GB31	99.2	97.4	104.3	100.3	83.3
Dyna-Gro M63GB78	87.3	93.2	112.6	97.7	82.2
Dyna-Gro M67GB87	82.7	98.3	134.3	105.1	81.9
Dyna-Gro M71GR91	99.9	104.6	109.9	104.8	98.6
Dyna-Gro M72GB71	103.3	94.9	132.6	110.2	76.4
Pioneer 82P83	90.5	108.6	110.4	103.2	75.3
Pioneer 83P38	80.7	96.9	121.2	99.6	90.2
Pioneer 83P73	97.2	111.7	109.3	106.0	96.4
SP65M60	92.0	107.0	104.9	101.3	70.4
SP66M16	95.9	81.4	105.7	94.3	76.7
SP67B17	110.6	95.8	112.6	106.3	75.0
SP58M85	87.1	70.8	91.7	83.2	58.7
SP65B21	79.7	63.3	65.8	69.6	44.9
SP7715	91.7	90.6	101.4	94.5	87.3
GRAND MEAN	91.7	98.2	112.8	100.9	81.0
LSD (5%)	13.4	15.9	10.4	7.7	12.1
C.V.	12.4	13.7	7.8	11.3	12.7

[a] Harrisburg = Northeast Rice Research and Extension Center, Harrisburg, Ark.
Rohwer = Rohwer Research Station, Rohwer Ark.
Stuttgart = Rice Research and Extension Center, Stuttgart Ark.
Keiser Non-Irrigated = Northeast Research and Extension Center, Keiser, Ark.

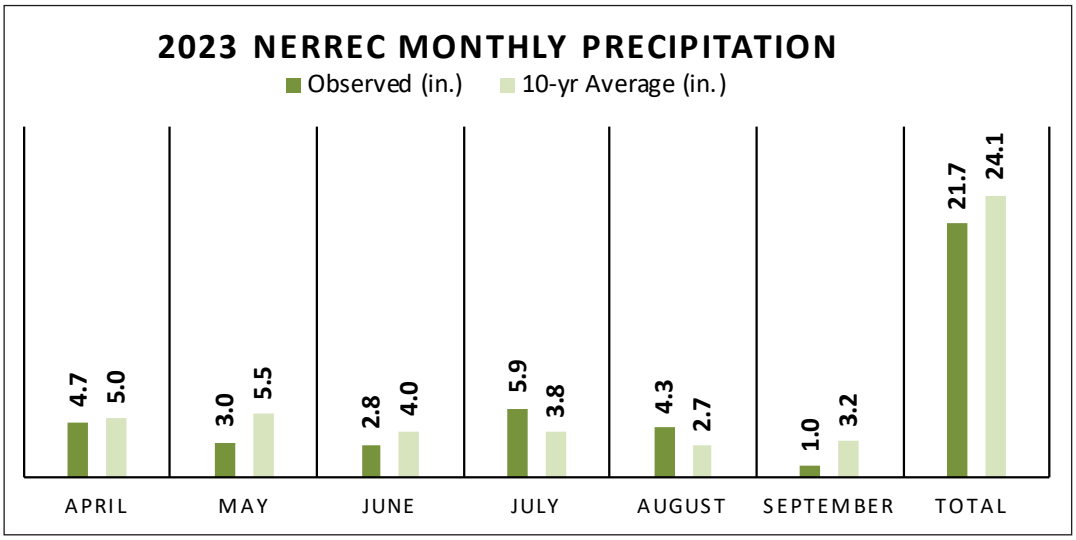
[b] Data at the Keiser Irrigated and Marianna Irrigated locations not provided due to poor emergence and inconsistent stands.

Harrisburg: Northeast Rice Research and Extension Center (NERREC)

Irrigated Grain Sorghum Hybrids Trial Summary, 2023



NERREC
Harrisburg, Ark.



Soil Series
Henry silt loam
Prevoius Crop
Soybean
Row Spacing
30 in.
Planting Date
May 24
Harvest Date
September 28

Irrigation Dates	June 9, 21, 30; July 6, 26; August 1,7
Fertilizer Application(s)	**Date**
60 gal liquid 32% N 30 gal liquid 32% N	May 24 May 26
Herbicide Application(s)	**Date**
16 oz Atrazine® + 20 oz Medal 16 oz Atrazine® + 10 oz Superb®	May 25 June 6
Fungicide Application(s)	**Date**
14 oz Tivapro®	June 28

Table 3. Performance of Irrigated Grain Sorghum Hybrids, Harrisburg, Ark., 2023.

Hybrid Name	Yield	Moisture	Plant[a] Height	Head[b] Exertion	Head[c] Comp.	Test Weight
	(bu./ac)	(%)	----------(in.)----------			(lb/bu.)
SP67B17	110.6	16.8	59.0	6.8	2.0	53.6
Dyna-Gro M72GB71	103.3	14.3	57.8	5.0	1.8	55.7
Dyna-Gro M71GR91	99.9	15.7	55.8	6.8	2.5	55.0
Dyna-Gro M60GB31	99.2	14.6	52.8	5.8	2.3	54.1
DEKALB DKS 54-07	99.0	14.4	55.3	4.8	2.5	55.6
Pioneer 83P73	97.2	14.7	57.5	6.3	2.5	56.7
SP66M16	95.9	14.2	55.0	6.8	2.3	54.1
DEKALB DKS 51-01	95.7	13.3	56.0	4.8	2.3	55.8
Dyna-Gro GX22936	92.5	15.3	56.8	6.8	2.5	56.3
SP65M60	92.0	17.3	57.3	4.5	1.8	50.6
Dyna-Gro GX22932	91.7	15.7	54.8	5.8	2.5	54.8
SP7715	91.7	13.3	55.0	5.0	2.5	55.4
Pioneer 82P83	90.5	13.7	54.0	8.0	2.3	56.9
Dyna-Gro GX22937	89.0	18.3	49.8	6.3	2.5	50.6
DEKALB DKS 36-07	88.4	14.7	53.8	8.3	2.3	54.2
Dyna-Gro M63GB78	87.3	14.2	52.0	7.0	2.5	56.0
SP58M85	87.1	15.9	53.5	5.3	2.3	51.5
Dyna-Gro GX22934	85.3	14.8	54.5	8.8	2.5	50.5
Dyna-Gro M67GB87	82.7	16.1	55.8	5.5	2.0	50.1
Pioneer 83P38	80.7	15.0	54.5	5.5	2.8	56.1
SP65B21	79.7	14.7	51.8	6.0	2.3	55.3
Mean	91.7	15.0	54.5	6.1	2.3	54.2
LSD (5%)	13.4	2.8	6.7	2.7	0.8	3.5
C.V.	12.4	15.9	10.5	•	•	5.5

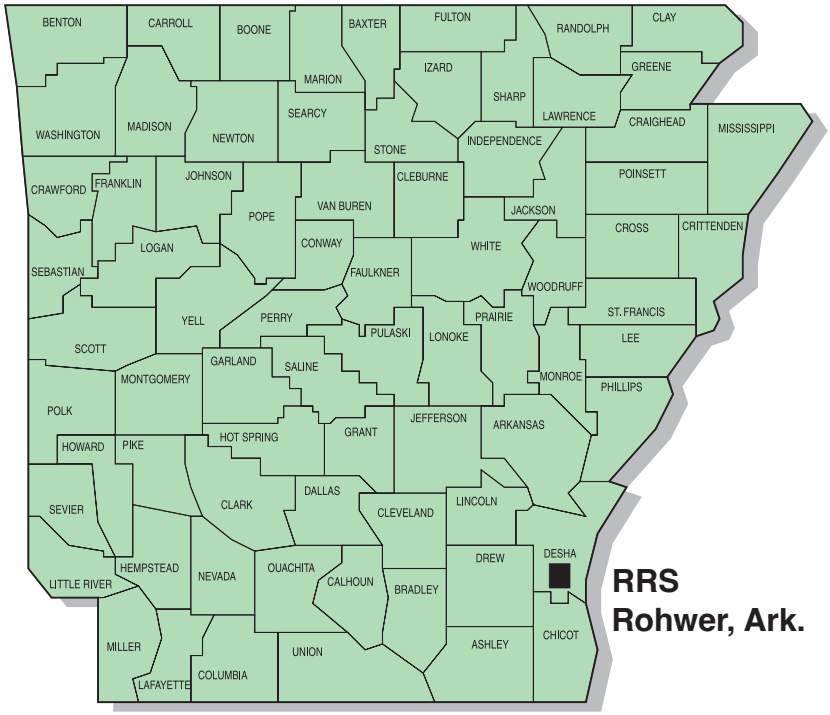
[a] Average height in inches from the soil surface to the top of the grain head.

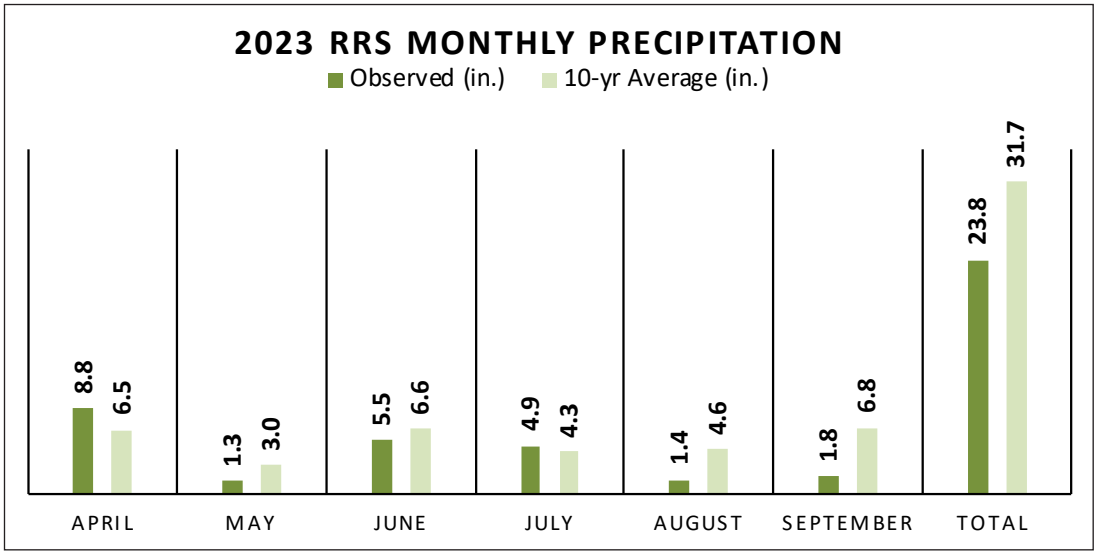
[b] Average distance in inches from the flag leaf to base of panicle.

[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, 2023





Soil Series
Herbert silt loam
Previous Crop
Soybean
Row Spacing
38 in.
Planting/Harvest
May 16/September 15
Irrigation Dates
June 3, 27; July 25; August 2

Fertilizer Application(s)	Date
150 lb/ac 0-0-60 + 150 lb/ac 0-46-0 220 lb/ac 32% N	March 23 May 15
Herbicide Application(s)	**Date**
1 qt/ac Atrazine® + 1 qt/ac Glyphosate® 1 qt/ac Paraquat® + 1.3 qt/ac Priority 8e® 1 qt/ac Atrazine 4L® + 1 qt/ac Glyphosate® 1.5 pt/ac Priority 8e®	April 13 April 13 May 16 May 16
Insecticide Application(s)	**Date**
1.6 oz/ac Vantacor®	July 24

Table 4. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, Ark., 2023.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Moisture	Plant[c] Height	Head[d] Exertion	Head[e] Comp.	Test Weight
	----------(bu./ac)----------			(%)	----------(in.)----------			(lb/bu.)
Dyna-Gro GX22932	114.7	•	•	13.9	62.0	5.5	1.3	62.7
Dyna-Gro GX22936	113.9	•	•	13.8	57.8	4.8	3.3	62.8
Dyna-Gro GX22934	113.8	•	•	14.0	65.8	6.5	1.8	62.5
Pioneer 83P73	111.7	124.9	127.8	13.7	48.8	4.5	2.8	62.7
DEKALB DKS 54-07	111.6	127.7	136.1	13.9	67.5	3.5	1.8	62.6
DEKALB DKS 51-01	109.3	127.5	137.6	13.9	65.3	3.8	2.8	62.6
Pioneer 82P83	108.6	124.9	134.7	13.5	64.3	2.8	1.8	62.8
SP65M60	107.0	•	•	12.9	62.3	1.5	2.3	63.0
Dyna-Gro M71GR91	104.6	120.8	131.0	14.1	64.0	5.0	1.8	62.5
Dyna-Gro M67GB87	98.3	112.2	123.0	13.8	60.3	5.0	1.5	62.5
Dyna-Gro M60GB31	97.4	107.3	117.7	13.5	57.3	3.5	2.5	62.9
Pioneer 83P38	96.9	•	•	13.6	64.8	5.0	2.3	62.7
SP67B17	95.8	107.6	•	13.8	61.8	4.5	3.0	62.6
Dyna-Gro M72GB71	94.9	109.0	120.4	13.7	65.0	4.5	1.8	62.6
Dyna-Gro M63GB78	93.2	110.5	116.4	12.5	58.5	4.3	3.0	63.1
SP7715	90.6	116.3	120.5	13.5	60.8	3.5	1.5	62.7
DEKALB DKS 36-07	89.8	•	•	13.5	56.0	3.3	3.0	62.9
Dyna-Gro GX22937	87.1	•	•	15.1	63.3	4.5	1.8	62.0
SP66M16	81.4	•	•	13.7	61.0	2.0	2.8	62.8
SP58M85	70.8	•	•	13.1	51.3	3.0	2.5	63.0
SP65B21	63.3	•	•	12.8	44.8	2.3	3.0	63.0
GRAND MEAN	98.2	•	•	13.6	60.3	4.0	2.3	62.7
LSD (5%)	15.9	•	•	0.8	8.0	1.9	0.6	0.4
C.V.	13.7	•	•	4.7	11.2	•	•	•

[a] Average yield for 2022 and 2023.

[b] Average yield for 2021, 2022, and 2023.

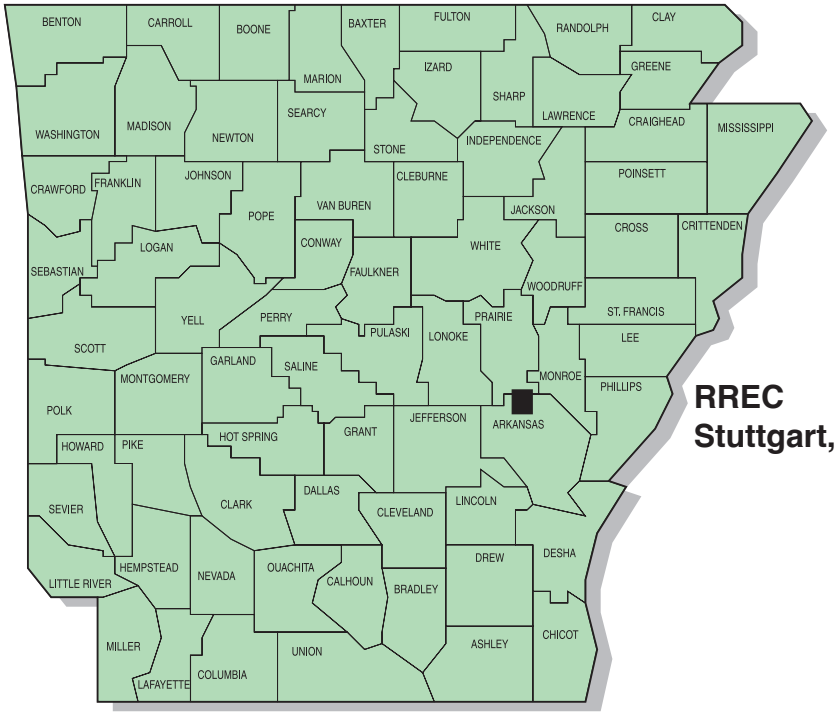
[c] Average height in inches from the soil surface to the top of the grain head.

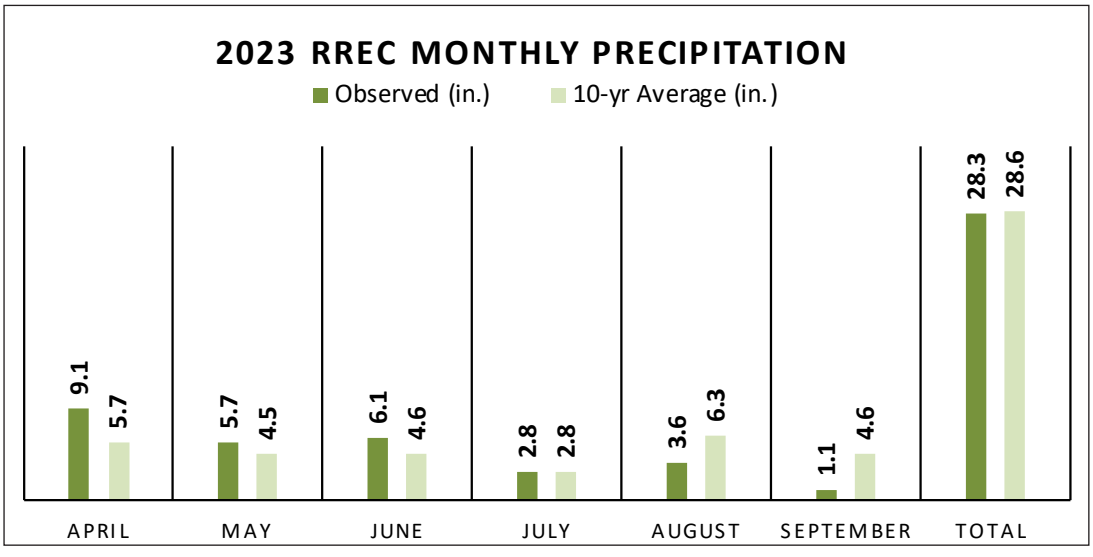
[d] Average distance in inches from the flag leaf to base of panicle.

[e] 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, 2023





Soil Series
Crowley silt loam
Previous Crop
Soybean
Row Spacing
30 in.
Planting/Harvest Date
May 25/September 28

Irrigation Dates	June 4; July 23, 30
Fertilizer Application(s)	**Date**
80-70-75-24 S-10 Zn 200 lb/ac 46-0-0 200 lb/ac 46-0-0	April 11 May 31 July 6
Herbicide Application(s)	**Date**
1 pt/ac Dual + 1 pt/ac Basagran® + 1 qt/ac Atrazine®	June 1

Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, Ark., 2023.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Moisture	Plant[c] Height	Head[d] Exertion	Head[e] Comp.
	----------(bu./ac)----------			(%)	----------(in.)----------		
DEKALB DKS 54-07	136.0	127.5	133.2	12.7	56.5	5.8	1.5
Dyna-Gro M67GB87	134.3	130.7	146.5	12.3	54.3	6.8	1.5
Dyna-Gro M72GB71	132.6	121.8	127.3	12.9	57.0	8.5	1.0
DEKALB DKS 51-01	131.7	124.7	135.7	12.6	59.8	7.0	2.0
Dyna-Gro GX22937	125.7	•	•	12.5	55.0	6.5	1.3
Dyna-Gro GX22934	124.4	•	•	12.5	57.5	5.0	1.5
Pioneer 83P38	121.2	•	•	12.7	55.3	6.8	1.8
Dyna-Gro GX22936	113.7	•	•	12.4	49.8	3.8	3.0
SP67B17	112.6	114.0	•	12.4	50.5	1.0	2.0
Dyna-Gro M63GB78	112.6	117.5	115.0	12.1	51.0	3.8	3.0
Pioneer 82P83	110.4	112.7	124.6	12.4	57.8	8.0	1.0
Dyna-Gro M71GR91	109.9	126.2	138.8	12.6	58.0	5.5	1.0
Pioneer 83P73	109.3	121.0	128.1	12.1	55.0	5.0	3.3
Dyna-Gro GX22932	107.8	•	•	12.5	56.0	7.3	1.0
SP66M16	105.7	•	•	11.9	50.0	5.3	2.0
SP65M60	104.9	•	•	11.7	49.0	3.3	1.0
Dyna-Gro M60GB31	104.3	110.9	118.8	12.1	49.8	6.0	2.5
SP7715	101.4	104.6	107.4	12.5	54.3	6.5	1.3
DEKALB DKS 36-07	100.4	•	•	12.1	51.0	3.3	2.3
SP58M85	91.7	•	•	11.8	46.0	4.0	1.8
SP65B21	65.8	•	•	11.1	40.0	3.5	3.0
GRAND MEAN	112.8	•	•	12.3	53.2	5.4	1.8
LSD (5%)	10.4	•	•	0.3	3.7	3.2	0.4
C.V.	7.8	•	•	1.9	5.9	•	•

[a] Average yield for 2022 and 2023.

[b] Average yield for 2021, 2022, and 2023.

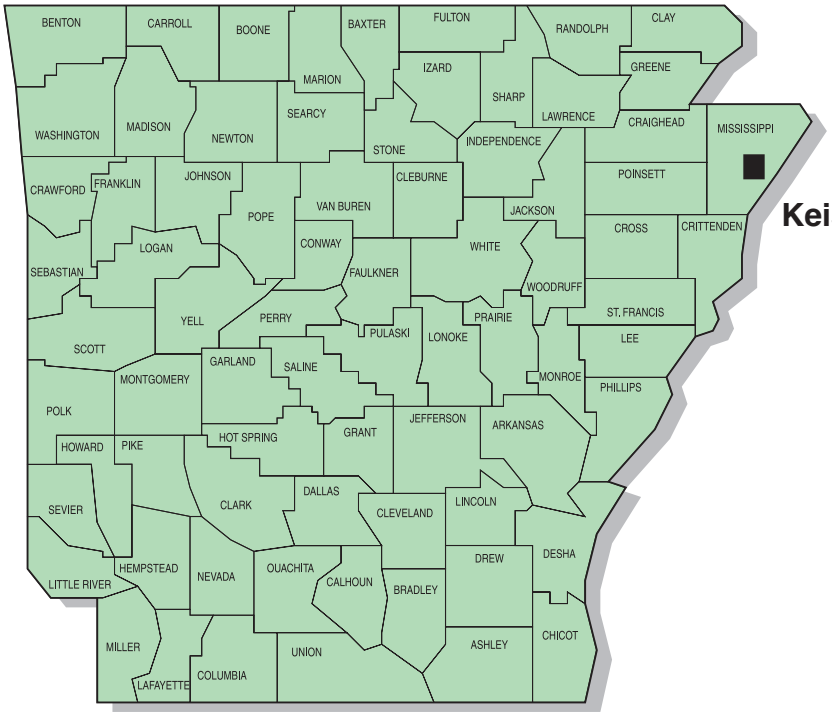
[c] Average height in inches from the soil surface to the top of the grain head.

[d] Average distance in inches from the flag leaf to base of panicle.

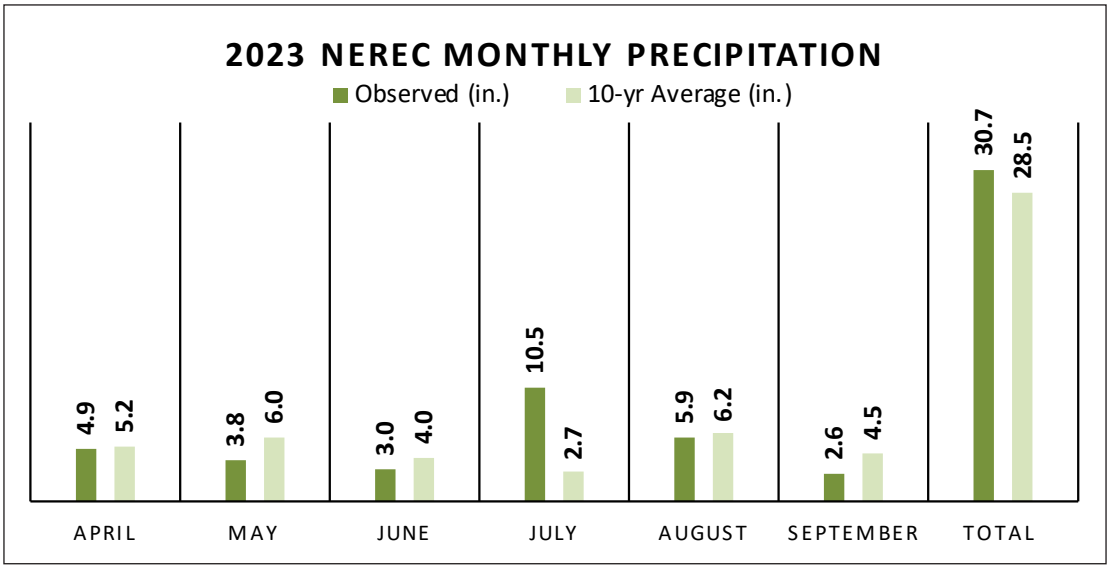
[e] 1 = Head short and oval, rachis branches intermediate in length; 2 = Head long and slender, rachis branches strong and short; 3 = Head elongated and oval, rachis branches beginning to weaken and intermediate in length; 4 = Head elongated and rectangular in shape, rachis branches intermediate in strength 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, 2023



NEREC
Keiser, Ark.



Soil Series
Sharkey clay
Previous Crop
Soybean
Row Spacing
38 in.
Planting/Harvest Date
May 19/October 11

Fertilizer Application(s)	Date
75 units of Urea	May 30
Herbicide Application(s)	**Date**
1.3 pt/ac Charger Max® + 1.2 qt/ac Acuron® + 32 oz/ac Gramoxone®	May 19

Table 6. Performance of Non-Irrigated Grain Sorghum Hybrids, Keiser, Ark., 2023.

Hybrid Name	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Moisture	Plant[c] Height	Head[d] Exertion	Head[e] Comp.
	----------(bu./ac)----------			(%)	----------(in.)----------		
Dyna-Gro M71GR91	98.6	107.6	116.5	11.5	55.8	6.0	2.3
Dyna-Gro GX22932	96.6	•	•	11.1	55.0	7.3	2.0
Pioneer 83P73	96.4	97.0	105.9	11.9	52.5	5.0	3.5
Dyna-Gro GX22937	94.9	•	•	11.4	52.0	7.5	2.0
DEKALB DKS 54-07	92.3	102.8	109.7	11.6	53.5	5.3	3.0
Pioneer 83P38	90.2	•	•	12.1	53.5	5.5	2.8
SP7715	87.3	95.1	103.8	12.5	51.5	5.0	3.0
Dyna-Gro M60GB31	83.3	91.3	97.5	13.2	47.5	6.0	3.0
Dyna-Gro M63GB78	82.2	87.1	91.3	13.2	45.3	5.0	3.8
Dyna-Gro M67GB87	81.9	92.8	103.4	12.7	51.0	5.8	2.0
DEKALB DKS 36-07	80.5	•	•	12.7	45.0	6.0	3.5
Dyna-Gro GX22936	80.2	•	•	12.8	45.8	7.0	3.5
DEKALB DKS 51-01	79.7	71.4	84.8	12.9	53.3	5.5	3.0
SP66M16	76.7	•	•	12.8	47.0	4.8	3.3
Dyna-Gro M72GB71	76.4	89.0	100.6	11.8	51.8	5.0	2.3
Pioneer 82P83	75.3	88.7	97.0	12.4	55.8	5.3	2.3
SP67B17	75.0	82.9	•	11.9	50.5	5.3	2.8
Dyna-Gro GX22934	72.1	•	•	12.4	54.8	6.5	2.5
SP65M60	70.4	•	•	13.5	49.0	3.3	2.0
SP58M85	58.7	•	•	11.7	41.8	4.8	3.0
SP65B21	44.9	•	•	14.4	40.3	5.3	4.0
GRAND MEAN	81.0	•	•	12.4	50.3	5.6	2.8
LSD (5%)	12.1	•	•	1.2	1.8	1.0	0.4
C.V.	12.7	•	•	8.5	3.0	•	•

[a] Average yield for 2022 and 2023.

[b] Average yield for 2021, 2022, and 2023.

[c] Average height in inches from the soil surface to the top of the grain head.

[d] Average distance in inches from the flag leaf to base of panicle.

[e] 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 7. Yields (bu./ac) of Corn Hybrids in the Arkansas Performance Tests, 2023.[a,b]

Hybrid Name	Harrisburg	Keiser	Marianna	Rohwer	Mean
			bu./ac		
Axis Seed 63M73RIB	265.5	216.8	213.0	198.1	223.3
Axis Seed 64E72RIB	250.7	216.2	194.9	198.7	215.1
Axis Seed 65W75RIB	272.9	220.6	218.1	209.2	230.2
Axis Seed 69A79	266.4	209.3	228.8	212.3	229.2
BH 8566VT2P	229.1	220.6	222.6	217.4	222.4
BH 8721VT2P	238.2	208.0	201.9	197.5	211.4
CP5208VT2P	238.7	219.0	219.4	200.1	219.3
CP5893TRE	216.1	216.5	239.0	207.0	219.6
DEKALB DKC 113-83	279.5	214.6	227.8	205.2	231.8
DEKALB DKC 117-78	254.2	225.1	233.2	213.2	231.4
DEKALB DKC 62-70	217.3	215.0	202.8	193.9	207.2
DEKALB DKC 64-22	260.0	225.4	216.0	219.9	230.3
DEKALB DKC 65-99	232.3	204.0	217.8	204.9	214.7
DEKALB DKC 66-06	247.8	225.1	188.9	210.8	218.1
DEKALB DKC 67-94	229.2	221.5	206.5	196.6	213.4
DEKALB DKC 68-35	259.9	207.5	226.5	209.3	225.8
DEKALB DKC 69-99	260.6	232.1	209.0	202.4	226.0
DEKALB DKC 70-45	172.5	208.5	222.3	221.1	206.1
Dyna-Gro D53TC23	281.0	223.7	210.0	191.7	226.6
Dyna-Gro D56TC44	269.1	218.5	224.8	210.4	230.7
Dyna-Gro D57TC29	263.8	226.9	218.1	210.5	229.8
Dyna-Gro D57VC53	227.1	212.4	190.9	181.2	202.9
Dyna-Gro D58VC74	225.9	203.1	203.7	209.2	210.5
Innvictis A1542T	276.2	214.6	200.6	205.3	224.2
Innvictis A1551VT2P	234.6	221.9	206.3	199.4	215.5
Innvictis A1689T	245.0	217.0	215.1	215.0	223.0
Innvictis X1993VT2P	257.4	221.5	238.2	223.5	235.1
NK1480-DV	242.1	229.8	203.1	194.5	217.4
NK1701-V	234.3	220.9	191.9	184.9	208.0
NK1838-3110	227.3	227.0	208.0	148.4	202.7
Pioneer P1222YHR	245.7	211.0	205.1	186.9	212.1
Pioneer P1511YHR	256.0	214.8	208.0	197.2	219.0
Pioneer P17052YHR	261.1	217.7	205.0	205.4	222.3
Pioneer P1718VYHR	273.6	230.0	217.8	205.2	231.7
Pioneer P17677YHR	254.5	210.0	206.0	185.7	214.1
Pioneer P1847VYHR	245.3	215.0	213.0	185.9	214.8
Progeny PGY 2010TRE	247.6	205.0	194.1	187.8	208.6
Progeny PGY 2118VT2P	250.2	216.6	202.3	199.2	217.1
Progeny PGY 2215TRE	243.8	227.4	211.7	201.4	221.1
Progeny PGY 2314TRE	272.6	227.9	211.6	224.7	234.2

Continued

Table 7. Yields (bu./ac) of Corn Hybrids in the Arkansas Performance Tests, 2023, Continued.[a,b]

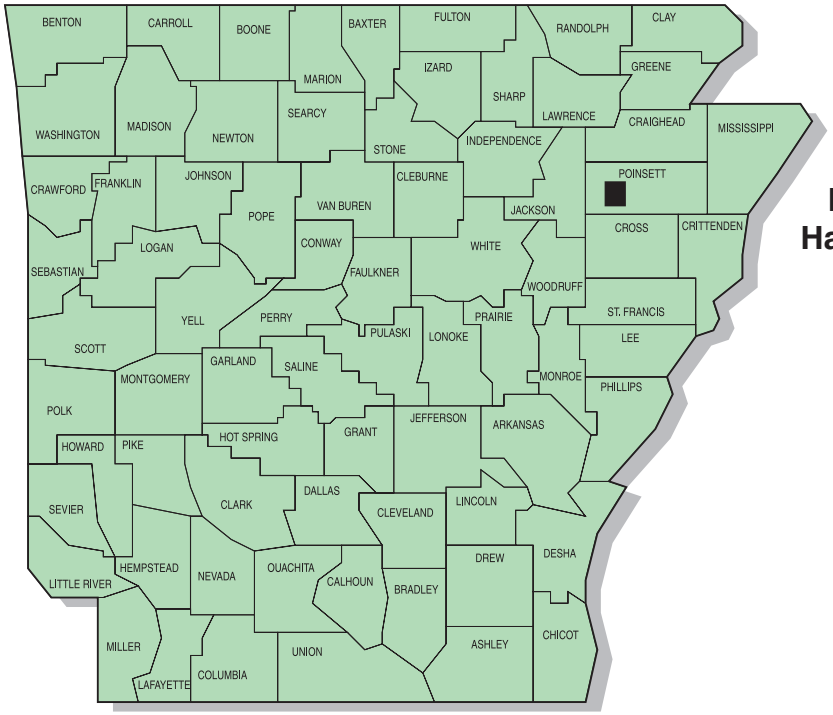
Hybrid Name	Harrisburg	Keiser	Marianna	Rohwer	Mean
			bu./ac		
Progeny PGY 9114VT2P	239.6	215.1	212.4	214.0	220.3
Progeny PGY 9117VT2P	242.6	207.4	214.4	197.5	215.5
Revere 1307 TC	252.0	223.8	234.4	204.4	228.6
Revere 1577 VT2P	225.9	225.7	210.3	200.4	215.5
Revere 1627 TC	259.0	218.8	220.6	223.1	230.4
Revere 1839 TC	273.7	231.5	226.6	223.2	238.8
GRAND MEAN	248.4	218.7	213.2	202.8	216.9
LSD (5%)	34.8	21.0	23.8	16.4	2.1
C.V.	12.0	8.2	8.2	6.9	10.6

[a] Harrisburg = Northeast Rice Research and Extension Center, Harrisburg, Ark.
Keiser = Northeast Research and Extension Center, Keiser, Ark.
Marianna = Lon Mann Cotton Research Station, Marianna, Ark.
Rohwer = Rohwer Research Station, Rohwer Ark.

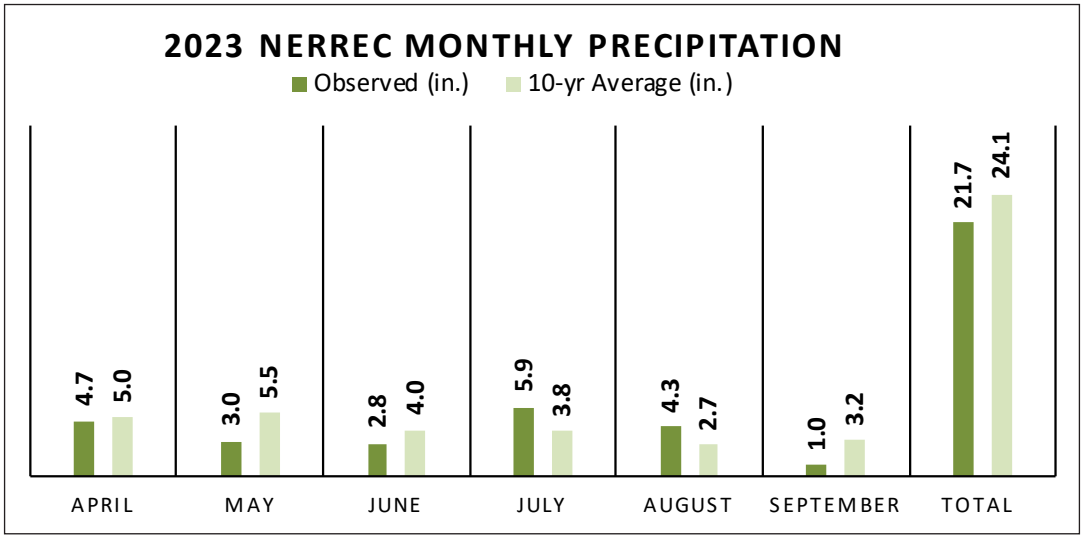
[b] Data at the Stuttgart location not provided due to severe lodging resulting from an early-season storm and straight-line winds.

Harrisburg: Northeast Rice Research and Extension Center (NERREC)

Irrigated Corn Hybrids Trial Summary, 2023



NERREC
Harrisburg, Ark.



Soil Series
Henry silt loam
Previous Crop
Soybean
Row Spacing
30 in.
Planting Date
April 14
Harvest Date
September 26

Irrigation Dates	May 30; June 9, 21, 30; July 6, 26; August 1, 7
Fertilizer Application(s)	**Date**
60 gal liquid 32% N 30 gal liquid 32% N	May 24 May 26
Herbicide Application(s)	**Date**
2 qt/ac Atrazine® + 1.6 pt/ac Dual®	April 19
Fungicide Application(s)	**Date**
14 oz/ac Trivapro®	June 28

Table 8. Performance of Irrigated Corn Hybrids, Harrisburg, Ark., 2023.

Brand/Hybrid	Yield	2-Year[a] Avg.	Ear[b] Height	Tip[c] Cover	Lodging[d]	Test Weight	Moisture
	---------(bu./ac)---------		(in.)			(lb/bu.)	(%)
Dyna-Gro D53TC23	281.0	•	41.0	2.5	0.8	60.5	13.6
DEKALB DKC 113-83	279.5	•	43.0	1.0	0.0	61.0	14.3
Innvictis A1542T	276.2	•	41.0	1.3	1.3	61.1	14.3
Revere 1839 TC	273.7	•	46.5	1.0	2.8	58.8	15.3
Pioneer P1718VYHR	273.6	237.0	47.0	1.3	0.5	60.2	15.5
Axis Seed 65W75RIB	272.9	258.9	45.8	1.8	0.5	61.7	14.5
Progeny PGY 2314TRE	272.6	•	42.5	1.3	1.8	60.6	14.6
Dyna-Gro D56TC44	269.1	•	42.5	1.0	1.0	61.2	14.3
Axis Seed 69A79	266.4	•	47.3	1.3	1.8	58.7	14.9
Axis Seed 63M73RIB	265.5	248.4	41.5	2.3	1.5	60.1	13.9
Dyna-Gro D57TC29	263.8	•	41.8	1.3	2.5	59.0	14.8
Pioneer P17052YHR	261.1	•	46.0	1.5	2.0	60.6	14.8
DEKALB DKC 69-99	260.6	237.0	45.3	1.0	1.8	61.6	15.1
DEKALB DKC 64-22	260.0	239.1	42.5	1.3	2.5	61.7	14.1
DEKALB DKC 68-35	259.9	239.4	42.0	2.3	1.8	61.0	14.3
Revere 1627 TC	259.0	238.0	44.3	1.3	3.5	61.5	14.6
Innvictis X1993VT2P	257.4	•	46.8	1.3	5.3	58.1	15.7
Pioneer P1511YHR	256.0	225.7	41.0	1.5	1.0	60.7	14.5
Pioneer P17677YHR	254.5	•	48.0	1.5	0.8	61.1	14.3
DEKALB DKC 117-78	254.2	•	44.5	1.0	1.0	61.4	14.4
Revere 1307 TC	252.0	240.2	41.5	2.8	3.3	60.6	13.7
Axis Seed 64E72RIB	250.7	238.2	42.0	1.0	0.8	61.9	14.8
Progeny PGY 2118VT2P	250.2	225.3	43.3	1.5	1.3	62.1	14.8
DEKALB DKC 66-06	247.8	222.8	41.5	1.0	3.0	59.9	14.7
Progeny PGY 2010TRE	247.6	•	40.3	2.0	1.5	59.6	13.6
Pioneer P1222YHR	245.7	216.0	46.5	1.3	2.0	61.2	13.7
Pioneer P1847VYHR	245.3	•	47.5	1.0	2.0	62.0	14.8
Innvictis A1689T	245.0	203.1	44.0	1.0	2.8	61.6	14.4
Progeny PGY 2215TRE	243.8	233.9	44.0	1.8	2.8	61.0	14.6
Progeny PGY 9117VT2P	242.6	215.2	43.8	1.5	1.5	60.9	14.5
NK1480-DV	242.1	•	41.5	1.0	0.8	59.8	14.1
Progeny PGY 9114VT2P	239.6	223.7	43.0	1.5	1.3	60.0	17.1
CP5208VT2P	238.7	•	42.0	1.0	4.5	61.1	14.1
BH 8721VT2P	238.2	223.3	41.8	1.3	1.0	68.8	14.7
Innvictis A1551VT2P	234.6	214.1	41.3	1.0	4.0	58.9	14.6

Continued

Table 8. Performance of Irrigated Corn Hybrids, Harrisburg, Ark., 2023, Continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	Ear[b] Height	Tip[c] Cover	Lodging[d]	Test Weight	Moisture
	---------(bu./ac)---------		(in.)			(lb/bu.)	(%)
NK1701-V	234.3	•	43.5	1.0	1.0	57.8	13.9
DEKALB DKC 65-99	232.3	224.3	41.8	1.5	3.5	61.0	14.3
DEKALB DKC 67-94	229.2	221.0	42.5	1.5	3.8	59.3	17.2
BH 8566VT2P	229.1	•	43.3	1.0	3.3	60.0	15.0
NK1838-3110	227.3	199.5	47.8	1.0	4.3	56.7	15.7
Dyna-Gro D57VC53	227.1	209.7	43.3	1.0	4.0	61.7	15.1
Dyna-Gro D58VC74	225.9	•	42.0	2.5	8.0	61.4	14.6
Revere 1577 VT2P	225.9	215.5	42.3	1.0	2.5	60.7	13.7
DEKALB DKC 62-70	217.3	207.5	43.0	2.0	2.8	60.3	14.7
CP5893TRE	216.1	•	43.3	1.3	10.8	61.9	15.1
DEKALB DKC 70-45	172.5	200.5	42.0	1.3	12.5	60.1	14.5
Mean	248.4	•	43.4	1.4	2.6	60.7	14.6
LSD (5%)	34.8	•	3.4	0.6	4.7	2.7	1.4
C.V.	12.0	•	6.7	•	•	3.8	8.4

[a] Average yield for 2022 and 2023.

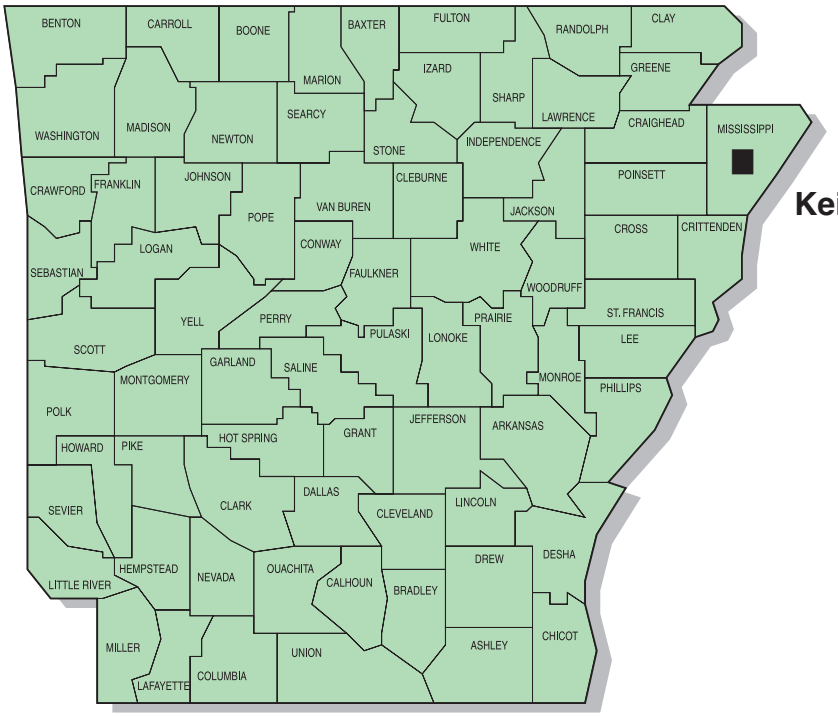
[b] The average distance in inches from the soil surface to the point of attachment of upper ear.

[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.

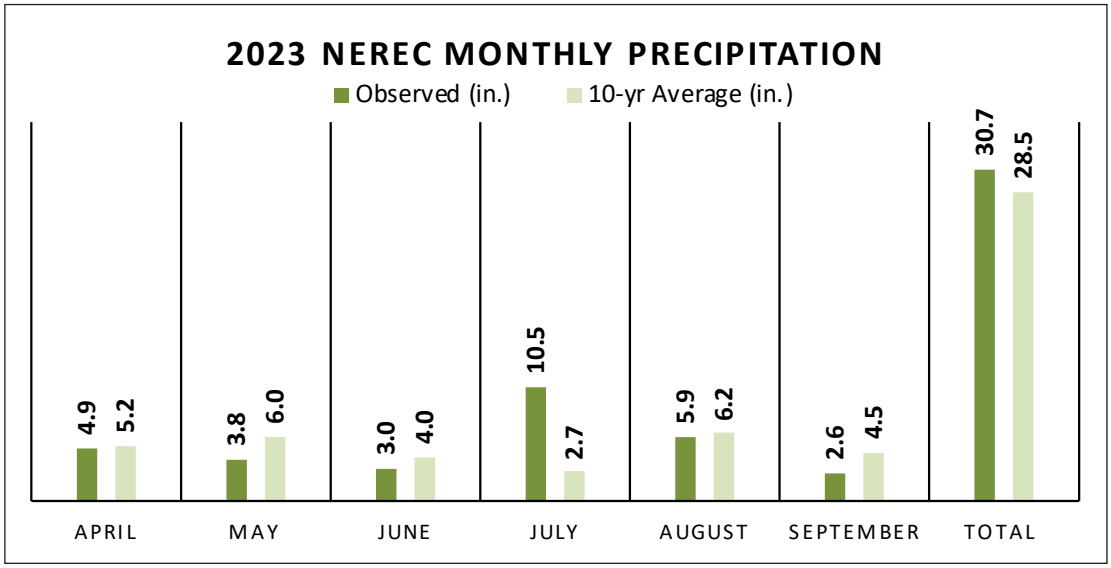
[d] Average number of plants broken below an ear at harvest.

Keiser: Northeast Research and Extension Center (NEREC)

Irrigated Corn Hybrids Trial Summary, 2023



NEREC
Keiser, Ark.



Soil Series
Sharkey clay
Previous Crop
Soybean
Row Spacing
38 in.
Planting/Harvest Date
April 12/September 22

Irrigation Dates	June 1, 27; August 1
Fertilizer Application(s)	**Date**
150 units of Urea	May 30
Herbicide Application(s)	**Date**
2.0 qt/ac Atrazine® + 1.5 pt/ac Dual® 80 oz/ac Acuron,® 1% crop oil	April 13 May 17

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2023.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Ear[c] Height	Tip[d] Cover	Lodging[e]	Moisture
	----------(bu./ac)----------			(in.)			(%)
DEKALB DKC 69-99	232.1	213.4	222.3	40.0	1.0	1.5	15.8
Revere 1839 TC	231.5	•	•	39.5	1.3	1.8	17.0
Pioneer P1718VYHR	230.0	219.2	•	36.3	1.0	0.5	15.4
NK1480-DV	229.8	•	•	38.0	1.0	1.5	15.7
Progeny PGY 2314TRE	227.9	•	•	37.0	1.0	0.8	16.4
Progeny PGY 2215TRE	227.4	215.3	•	38.0	1.5	2.3	16.5
NK1838-3110	227.0	216.0	•	39.3	1.0	1.8	16.8
Dyna-Gro D57TC29	226.9	•	•	36.3	1.0	2.0	16.9
Revere 1577 VT2P	225.7	210.9	•	38.0	1.3	1.8	15.9
DEKALB DKC 64-22	225.4	224.7	•	35.0	1.5	1.0	17.5
DEKALB DKC 117-78	225.1	•	•	36.3	1.5	5.5	17.0
DEKALB DKC 66-06	225.1	218.4	•	38.3	1.0	1.0	17.3
Revere 1307 TC	223.8	220.8	•	36.5	1.0	1.5	17.4
Dyna-Gro D53TC23	223.7	•	•	34.3	1.3	3.0	16.8
Innvictis A1551VT2P	221.9	223.7	•	34.0	1.0	1.0	16.2
Innvictis X1993VT2P	221.5	•	•	40.3	1.3	0.5	17.1
DEKALB DKC 67-94	221.5	207.5	223.3	36.8	1.0	0.5	16.5
NK1701-V	220.9	•	•	33.8	1.0	0.8	16.9
Axis Seed 65W75RIB	220.6	209.4	•	35.5	1.5	1.8	16.3
BH 8566VT2P	220.6	•	•	37.8	1.5	1.3	16.6
CP5208VT2P	219.0	•	•	39.3	1.3	0.5	16.9
Revere 1627 TC	218.8	209.4	•	35.3	1.5	1.5	16.6
Dyna-Gro D56TC44	218.5	•	•	38.8	1.0	1.0	16.2
Pioneer P17052YHR	217.7	•	•	36.8	1.5	2.0	17.3
Innvictis A1689T	217.0	216.3	•	38.0	1.3	0.8	16.1
Axis Seed 63M73RIB	216.8	217.8	222.2	38.3	1.8	0.3	19.5
Progeny PGY 2118VT2P	216.6	211.6	220.2	36.8	1.0	1.8	17.0
CP5893TRE	216.5	•	•	40.0	1.0	13.8	17.5
Axis Seed 64E72RIB	216.2	217.7	•	34.5	1.0	2.5	16.2
Progeny PGY 9114VT2P	215.1	215.2	222.9	35.3	1.3	1.5	15.7
Pioneer P1847VYHR	215.0	•	•	39.3	1.0	1.5	17.5
DEKALB DKC 62-70	215.0	215.0	225.8	37.0	1.5	2.5	16.1
Pioneer P1511YHR	214.8	210.9	•	36.0	1.3	1.8	17.4
Innvictis A1542T	214.6	•	•	37.5	1.0	1.3	16.3
DEKALB DKC 113-83	214.6	•	•	35.5	1.0	2.0	16.1
Dyna-Gro D57VC53	212.4	212.9	•	39.5	1.0	2.3	15.4
Pioneer P1222YHR	211.0	206.9	•	39.3	1.3	1.8	16.4
Pioneer P17677YHR	210.0	•	•	37.0	1.3	2.5	17.6
Axis Seed 69A79	209.3	•	•	38.3	1.0	2.5	16.2
DEKALB DKC 70-45	208.5	204.1	•	38.5	1.3	2.5	16.7

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2023, Continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Ear[c] Height	Tip[d] Cover	Lodging[e]	Moisture
	----------(bu./ac)----------			(in.)			(%)
BH 8721VT2P	208.0	204.2	220.0	40.8	1.0	7.5	17.2
DEKALB DKC 68-35	207.5	196.9	•	36.0	1.0	3.5	17.4
Progeny PGY 9117VT2P	207.4	209.7	223.0	37.5	1.8	0.3	17.8
Progeny PGY 2010TRE	205.0	•	•	33.5	1.3	1.8	16.4
DEKALB DKC 65-99	204.0	206.5	218.6	35.5	1.3	3.3	15.2
Dyna-Gro D58VC74	203.1	•	•	35.8	1.0	1.5	19.4
GRAND MEAN	218.7	•	•	37.1	1.2	2.0	16.7
LSD (5%)	21.0	•	•	3.4	0.5	4.0	1.8
C.V.	8.2	•	•	7.8	•	•	9.1

[a] Average yield for 2022 and 2023.

[b] Average yield for 2021, 2022, and 2023.

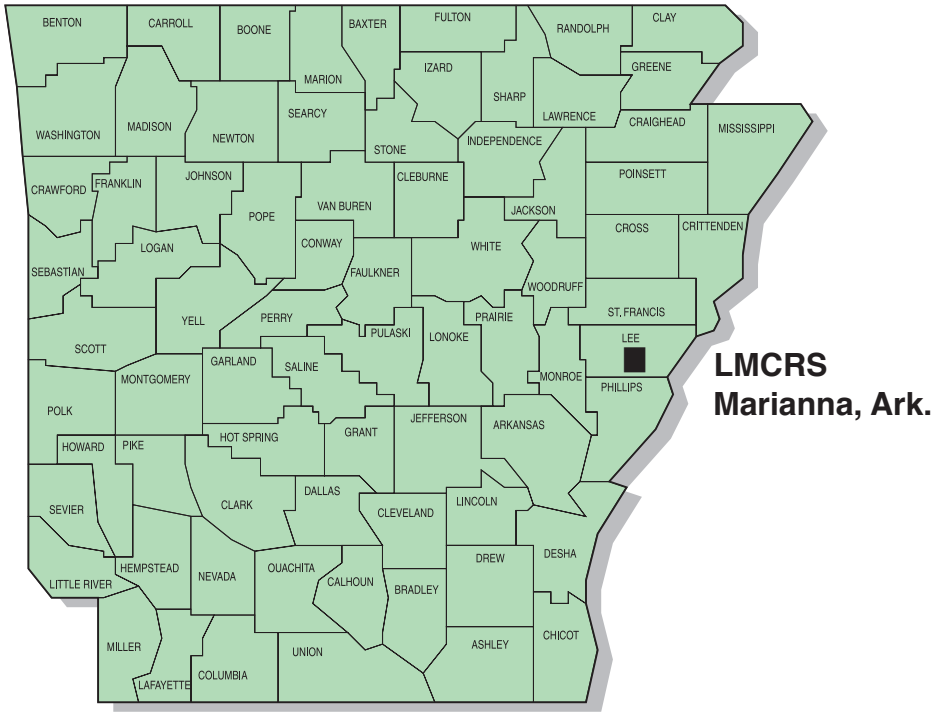
[c] The average distance in inches from the soil surface to the point of attachment of upper ear.

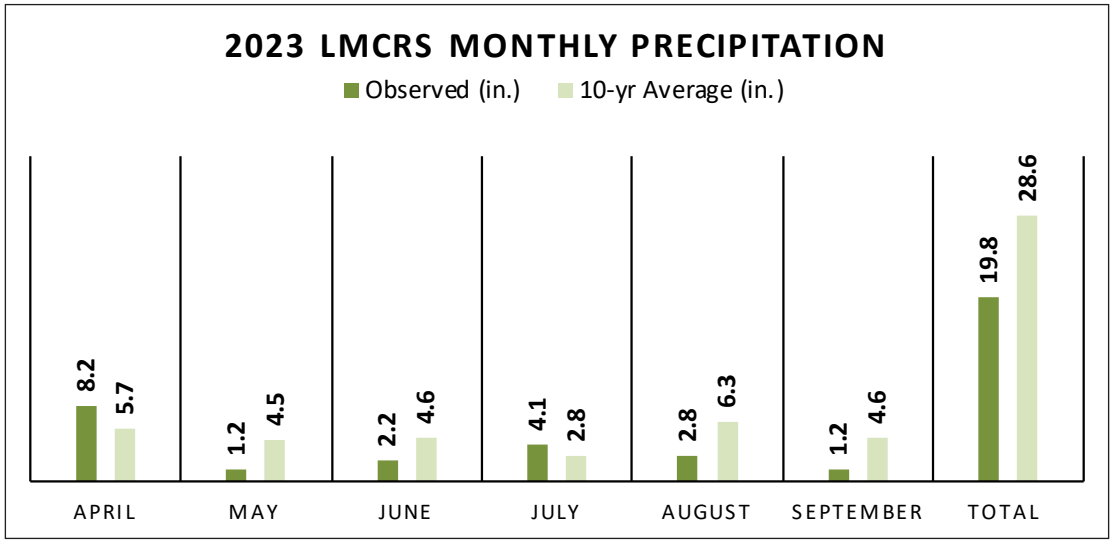
[d] Ear tip cover rated as good (1), average (2), or poor (3). Ear tip cover rated as "good" had husks reaching well-beyond the end of the ear and fit tightly. An "average" rating was given when husks reached to the tip of the ear and fit loosely. A "poor" rating was given when ears were open to the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

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

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

Irrigated Corn Hybrids Trial Summary, 2023





Soil Series
Calloway silt loam
Previous Crop
Soybean
Row Spacing
38 in.
Planting/Harvest Date
April 14/September 19

Irrigation Dates	June 1, 21, 27; July 19, 27; August 14
Fertilizer Application(s)	**Date**
60-70-90-24-10 46-0-0, 400 lb	April 13 May 19
Herbicide Application(s)	**Date**
5 pt/ac Acuron® + 2 pt/ac Atrazine® + 1 oz/ac Permit®	May 19

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2023.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Ear[c] Height	Tip[d] Cover	Test Weight	Moisture
	----------(bu./ac)----------			(in.)		(lb/bu.)	(%)
CP5893TRE	239.0	•	•	42.5	1.0	58.0	12.8
Innvictis X1993VT2P	238.2	•	•	39.5	1.3	55.1	12.4
Revere 1307 TC	234.4	219.8	•	43.5	1.3	61.1	10.9
DEKALB DKC 117-78	233.2	•	•	44.5	1.5	62.3	11.6
Axis Seed 69A79	228.8	•	•	43.8	1.0	56.0	13.1
DEKALB DKC 113-83	227.8	•	•	44.3	1.3	57.8	11.3
Revere 1839 TC	226.6	•	•	44.0	1.3	56.4	13.3
DEKALB DKC 68-35	226.5	215.5	•	47.0	1.3	57.2	11.6
Dyna-Gro D56TC44	224.8	•	•	42.5	1.0	57.0	11.4
BH 8566VT2P	222.6	•	•	42.8	1.0	57.9	11.6
DEKALB DKC 70-45	222.3	208.4	•	41.3	1.5	65.6	12.0
Revere 1627 TC	220.6	204.8	•	43.0	1.0	58.2	11.9
CP5208VT2P	219.4	•	•	41.3	1.3	59.1	11.0
Axis Seed 65W75RIB	218.1	207.2	•	41.8	1.3	66.6	11.6
Dyna-Gro D57TC29	218.1	•	•	41.8	1.3	56.5	11.9
Pioneer P1718VYHR	217.8	213.9	•	42.5	1.0	57.5	11.8
DEKALB DKC 65-99	217.8	202.8	213.1	44.8	1.3	64.7	10.9
DEKALB DKC 64-22	216.0	202.6	•	41.0	1.3	56.5	11.0
Innvictis A1689T	215.1	207.8	•	43.5	1.3	58.8	11.1
Progeny PGY 9117VT2P	214.4	208.2	209.6	44.5	1.0	57.4	11.9
Pioneer P1847VYHR	213.0	•	•	42.8	1.0	58.2	12.2
Axis Seed 63M73RIB	213.0	208.4	206.0	42.0	1.0	56.2	10.8
Progeny PGY 9114VT2P	212.4	200.0	215.6	44.8	1.3	56.7	10.9
Progeny PGY 2215TRE	211.7	201.6	•	43.8	1.0	56.9	12.2
Progeny PGY 2314TRE	211.6	•	•	42.8	1.0	48.6	12.1
Revere 1577 VT2P	210.3	207.3	•	43.5	1.0	57.6	11.0
Dyna-Gro D53TC23	210.0	•	•	43.5	1.3	56.3	10.7
DEKALB DKC 69-99	209.0	202.0	208.1	44.0	1.0	65.6	11.9
NK1838-3110	208.0	206.2	•	40.5	1.8	54.9	12.4
Pioneer P1511YHR	208.0	203.1	•	45.5	1.0	57.0	11.3
DEKALB DKC 67-94	206.5	195.3	211.7	41.3	1.0	55.3	11.5
Innvictis A1551VT2P	206.3	201.4	•	43.3	1.0	54.8	11.1
Pioneer P17677YHR	206.0	•	•	43.5	1.3	57.1	11.3
Pioneer P1222YHR	205.1	200.6	•	43.3	1.3	57.3	11.0
Pioneer P17052YHR	205.0	•	•	41.5	1.3	55.4	11.4
Dyna-Gro D58VC74	203.7	•	•	42.3	1.3	57.6	11.9
NK1480-DV	203.1	•	•	41.8	1.0	56.3	11.1
DEKALB DKC 62-70	202.8	193.5	209.0	44.3	1.0	75.4	11.2
Progeny PGY 2118VT2P	202.3	205.9	214.0	44.0	1.0	58.6	12.3
BH 8721VT2P	201.9	204.2	207.2	46.5	1.3	57.9	11.7

Continued

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2023, Continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Ear[c] Height	Tip[d] Cover	Test Weight	Moisture
	----------(bu./ac)----------			(in.)		(lb/bu.)	(%)
Innvictis A1542T	200.6	•	•	44.0	1.3	59.1	12.1
Axis Seed 64E72RIB	194.9	190.1	•	41.8	1.0	61.7	11.8
Progeny PGY 2010TRE	194.1	•	•	43.0	1.0	54.5	10.6
NK1701-V	191.9	•	•	43.0	1.0	53.6	11.3
Dyna-Gro D57VC53	190.9	196.4	•	39.8	1.0	59.2	12.4
DEKALB DKC 66-06	188.9	191.1	•	42.3	1.3	57.0	11.7
GRAND MEAN	213.2	•	•	43.1	1.1	58.2	11.6
LSD (5%)	23.8	•	•	4.1	0.4	9.2	0.7
C.V.	8.2	•	•	8.2	•	13.5	4.2

[a] Average yield for 2022 and 2023.

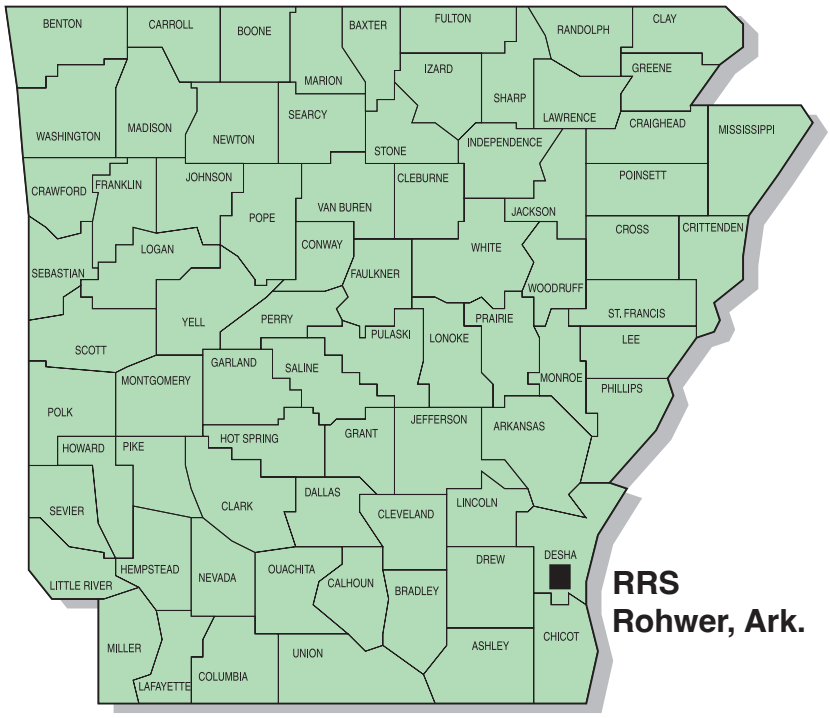
[b] Average yield for 2021, 2022, and 2023.

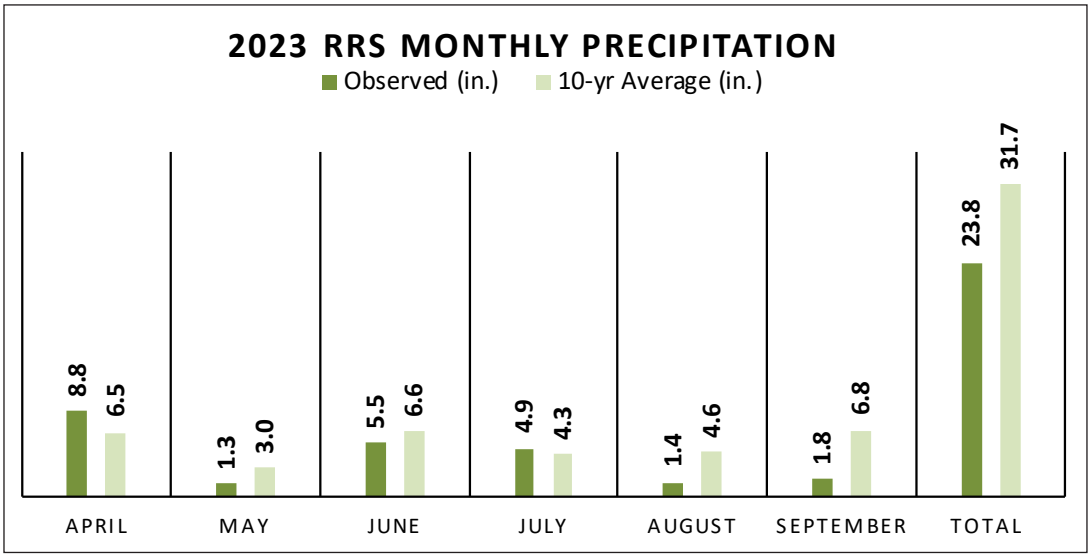
[c] The average distance in inches from the soil surface to the point of attachment of upper ear.

[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, 2023





Soil Series
Herbert silt loam
Previous Crop
Soybean
Row Spacing
38 in.
Planting/Harvest Date
April 13/September 13

Irrigation Dates	June 3, 27; July 25; August 2
Fertilizer Application(s)	**Date**
150 lb/ac 0-0-60 + 150 lb/ac 0-46-0 220 lb/ac 32% N	March 23 May 15
Herbicide Application(s)	**Date**
1 qt/ac Atrazine® **+** 1 qt/ac Glyphosate® 1 qt/ac Paraquat + 1.3 qt/ac Priority 8e 1 qt/ac Atrazine 4L® + 2.5 qt/ac Acuron	April 13 April 13 May 16

Table 11. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2023.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Ear[c] Height	Tip[d] Cover	Lodging[e]	Test Weight	Moisture
	----------(bu./ac)----------			(in.)			(lb/bu.)	(%)
Progeny PGY 2314TRE	224.7	•	•	42.3	2.0	0.0	61.2	14.3
Innvictis X1993VT2P	223.5	•	•	48.8	1.0	0.0	61.0	15.2
Revere 1839 TC	223.2	•	•	46.8	1.8	0.0	60.8	15.8
Revere 1627 TC	223.1	219.5	•	44.3	1.3	0.0	61.3	14.2
DEKALB DKC 70-45	221.1	210.6	•	45.8	1.5	0.0	61.0	15.7
DEKALB DKC 64-22	219.9	218.7	•	41.3	1.3	0.0	61.5	13.5
BH 8566VT2P	217.4	•	•	42.5	1.0	0.0	61.2	14.4
Innvictis A1689T	215.0	211.1	•	42.8	1.8	0.0	61.6	13.4
Progeny PGY 9114VT2P	214.0	208.0	209.1	39.0	1.5	0.0	61.0	14.8
DEKALB DKC 117-78	213.2	•	•	44.3	1.3	0.5	61.0	15.2
Axis Seed 69A79	212.3	•	•	48.5	1.0	0.0	60.9	15.6
DEKALB DKC 66-06	210.8	222.4	•	43.5	1.5	0.3	61.5	13.9
Dyna-Gro D57TC29	210.5	•	•	41.3	1.3	0.0	61.4	13.8
Dyna-Gro D56TC44	210.4	•	•	43.0	1.0	0.0	61.2	14.7
DEKALB DKC 68-35	209.3	221.3	•	41.0	1.3	0.3	61.3	14.6
Axis Seed 65W75RIB	209.2	210.6	•	45.8	1.8	0.0	60.5	17.0
Dyna-Gro D58VC74	209.2	•	•	43.8	1.8	0.0	61.1	15.2
CP5893TRE	207.0	•	•	44.5	1.5	1.0	60.3	17.5
Pioneer P17052YHR	205.4	•	•	47.5	2.3	0.0	61.4	14.3
Innvictis A1542T	205.3	•	•	43.8	1.3	0.0	61.1	15.3
Pioneer P1718VYHR	205.2	220.1	•	44.5	1.0	0.0	61.4	14.2
DEKALB DKC 113-83	205.2	•	•	40.5	1.0	0.0	60.7	16.5
DEKALB DKC 65-99	204.9	204.8	209.8	42.3	1.0	0.0	61.4	14.1
Revere 1307 TC	204.4	213.4	•	43.0	1.0	0.0	61.7	12.9
DEKALB DKC 69-99	202.4	215.3	216.8	43.3	1.0	2.5	60.8	16.1
Progeny PGY 2215TRE	201.4	205.2	•	45.3	2.5	0.0	61.2	14.7
Revere 1577 VT2P	200.4	201.6	•	39.5	1.8	0.0	61.3	14.1
CP5208VT2P	200.1	•	•	41.8	2.3	0.0	61.4	13.9
Innvictis A1551VT2P	199.4	202.2	•	41.3	1.0	0.0	61.2	14.1
Progeny PGY 2118VT2P	199.2	206.3	207.6	43.3	1.0	0.0	60.6	17.2
Axis Seed 64E72RIB	198.7	207.7	•	40.0	1.8	0.0	61.1	15.5
Axis Seed 63M73RIB	198.1	203.6	202.3	42.8	1.5	0.3	61.2	14.5
Progeny PGY 9117VT2P	197.5	202.0	199.3	40.3	2.0	0.0	61.4	14.4
BH 8721VT2P	197.5	199.8	198.5	41.3	1.3	0.0	61.3	14.7
Pioneer P1511YHR	197.2	208.1	•	44.0	1.5	0.0	61.2	14.7
DEKALB DKC 67-94	196.6	208.3	216.7	41.0	1.8	0.0	60.4	17.1
NK1480-DV	194.5	•	•	48.5	1.3	0.0	61.4	13.6
DEKALB DKC 62-70	193.9	197.8	206.0	42.5	2.5	0.3	60.9	15.3
Dyna-Gro D53TC23	191.7	•	•	41.8	2.3	0.0	61.5	13.5
Progeny PGY 2010TRE	187.8	•	•	39.3	2.8	0.3	61.3	14.0

Continued

Table 11. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2023, Continued.

Brand/Hybrid	Yield	2-Year[a] Avg.	3-Year[b] Avg.	Ear[c] Height	Tip[d] Cover	Lodging[e]	Test Weight	Moisture
	----------(bu./ac)----------			(in.)			(lb/bu.)	(%)
Pioneer P1222YHR	186.9	191.2	•	43.3	1.8	0.0	60.5	17.1
Pioneer P1847VYHR	185.9	•	•	46.3	1.0	0.0	61.5	14.0
Pioneer P17677YHR	185.7	•	•	46.5	1.8	0.5	61.5	14.0
NK1701-V	184.9	•	•	44.3	1.0	0.0	61.3	13.0
Dyna-Gro D57VC53	181.2	190.3	•	42.8	1.8	0.0	60.6	17.2
NK1838-3110	148.4	161.1	•	44.5	1.3	13.0	60.4	16.7
GRAND MEAN	202.8	•	•	43.2	1.5	0.4	61.1	14.8
LSD (5%)	16.4	•	•	2.6	0.6	1.7	0.7	2.1
C.V.	6.9	•	•	•	•	•	•	•

[a] Average yield for 2022 and 2023.

[b] Average yield for 2021, 2022, and 2023.

[c] The average distance in inches from the soil surface to the point of attachment of upper ear.

[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.

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

Participants and Entries
2023 Grain Sorghum Tests

Company	Hybrids
Bayer Crop Science 800 N. Lindbergh Blvd. St. Louis, MO 63167	DEKALB DKS 36-07 DEKALB DKS 51-01 DEKALB DKS 54-07
Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538	Dyna-Gro GX22932 Dyna-Gro GX22934 Dyna-Gro GX22936 Dyna-Gro GX22937 Dyna-Gro M60GB31 Dyna-Gro M63GB78 Dyna-Gro M67GB87 Dyna-Gro M71GR91 Dyna-Gro M72GB71
Pioneer Hi-Bred International 7300 NW 62nd Ave. Johnston, IA 50131	Pioneer 82P83 Pioneer 83P73 Pioneer 83P38
S&W Seed Co. 2101 Ken Pratt Blvd., Suite 201 Longmont, CO 80501	SP65M60 SP66M16 SP67B17 SP58M85 SP65B21 SP7715

Participants and Entries
2023 Corn Tests

Company	Hybrids
BH Genetics 5933 FM 1157 Ganado, TX 77962	BH 8566VT2P BH 8721VT2P
Bayer Crop Science 800 N. Lindbergh Blvd. St. Louis, MO 63167	DEKALB DKC 113-83 DEKALB DKC 117-78 DEKALB DKC 62-70 DEKALB DKC 64-22 DEKALB DKC 65-99 DEKALB DKC 66-06 DEKALB DKC 67-94 DEKALB DKC 68-35 DEKALB DKC 69-99 DEKALB DKC 70-45
Innvictis Seed Solutions 1880 Fall River Drive Loveland, CO 80538	Innvictis A1542T Innvictis A1551VT2P Innvictis A1689T Innvictis X1993VT2P
Revere Seed 802 Rozelle St. Memphis, TN 38104	Revere 1307 TC Revere 1577 VT2P Revere 1627 TC Revere 1839 TC
Mayberry Seed Co. 22985 State Hwy. D Essex, MO 63846	Axis Seed 63M73RIB Axis Seed 64E72RIB Axis Seed 65W75RIB Axis Seed 69A79
Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538	Dyna-Gro D53TC23 Dyna-Gro D56TC44 Dyna-Gro D57TC29 Dyna-Gro D57VC53 Dyna-Gro D58VC74

Continued

Participants and Entries
2023 Corn Tests, Continued

Company	Hybrids
Pioneer Hi-Bred International 7300 NW 62nd Ave. Johnston, IA 50131	Pioneer P1222YHR Pioneer P1511YHR Pioneer P17052YHR Pioneer P1718VYHR Pioneer P17677YHR Pioneer P1847VYHR
Progeny Ag Products 1529 Highway 193 Wynne, AR 72396	Progeny PGY 2010TRE Progeny PGY 2118VT2P Progeny PGY 2215TRE Progeny PGY 2314TRE Progeny PGY 9114VT2P Progeny PGY 9117VT2P
Syngenta Crop Protection 3411 Silverside Rd, Suite. 100 Shipley Bldg. Wilmington, DE 19810	NK1480-DV NK1701-V NK1838-3110
WinField United Seed 2146 Hwy 31 N Beebe, AR 72012	CP5208VT2P CP5893TRE

Corn Trait Package Information

Abreviations 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		

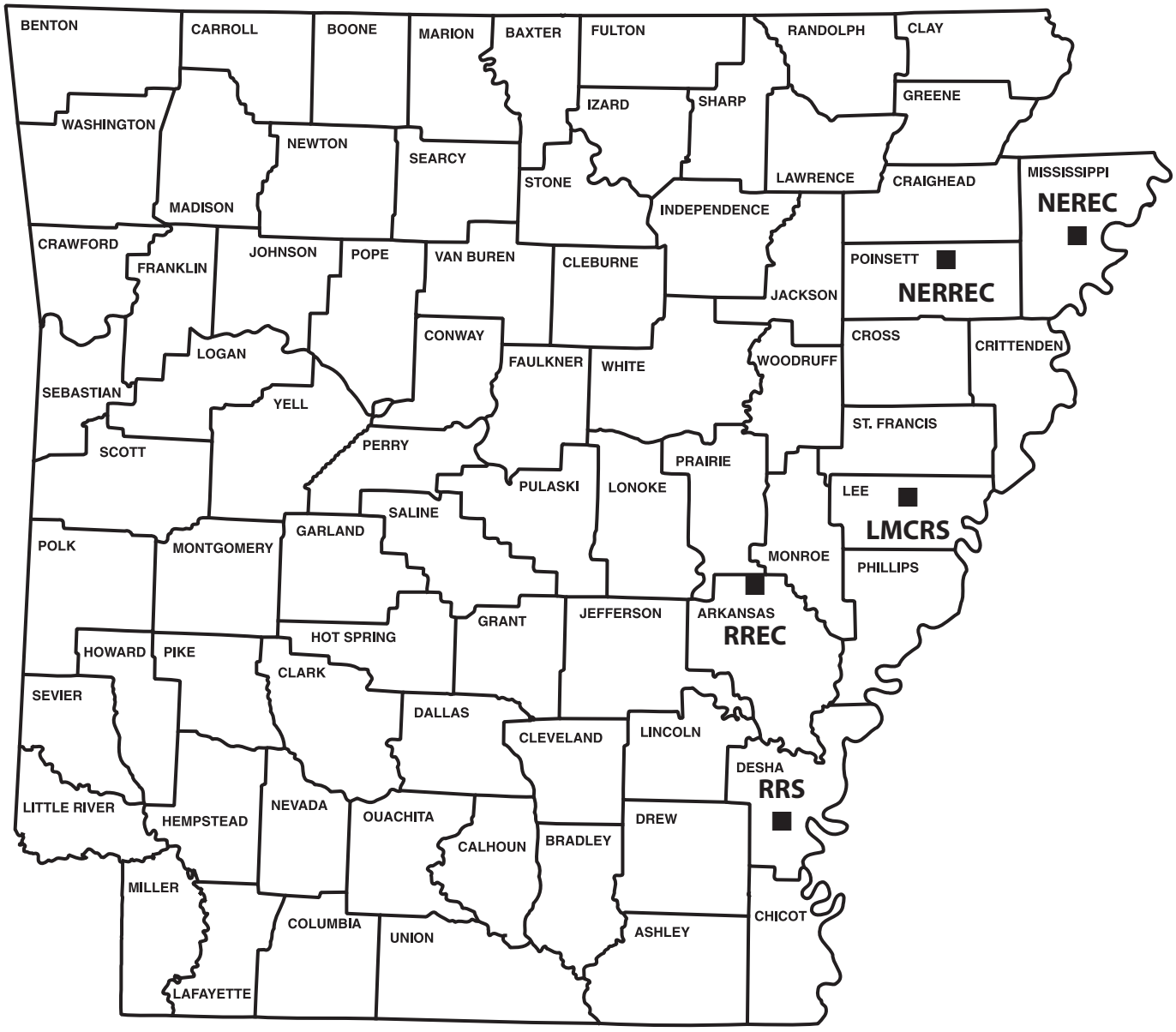
		Insects **Controlled** or *Suppressed*		
Trait Family	**Product**	**(Above Ground)**	**(In Soil)**	**Herbicide Tolerance**
Agrisure	Agrisure 3010, 3010A	**ECB SWCB** *CEW FAW SB*	—	GT LL
	Agrisure 3000GT, 3011A	**ECB SWCB** *CEW FAW SB*	**RW**	GT LL
	Agrisure Viptera 3110	**BCW CEW ECB FAW SB SWCB TAW 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

Continued

Corn Trait Package Information, Continued

Trait Family	Product	Insects **Controlled** or *Suppressed* (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 AND CORN TEST LOCATIONS



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

DIVISION OF AGRICULTURE

RESEARCH & EXTENSION

University of Arkansas System

ARKANSAS CROP VARIETY IMPROVEMENT PROGRAM